Benvenuti a Vienna!
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30 – 10:00</td>
<td>Scientific Sessions&lt;br&gt;Siemens Healthcare Symposium</td>
</tr>
<tr>
<td>10:30 – 12:00</td>
<td>E³ Sessions&lt;br&gt;ESR meets Italy&lt;br&gt;Mini Course&lt;br&gt;MC 528&lt;br&gt;Categorical Courses&lt;br&gt;Update Your Skills (Practical Courses) (900)&lt;br&gt;Rising Stars Basic Session</td>
</tr>
<tr>
<td>12:15 – 14:00</td>
<td>Mini Course&lt;br&gt;MC 23A&lt;br&gt;SuperSonic Imagine Symposium&lt;br&gt;Siemens Healthcare Symposium</td>
</tr>
<tr>
<td>16:00 – 17:30</td>
<td>E³ Session&lt;br&gt;Refresher Courses&lt;br&gt;CC 1618, CC 1619, CC 1621&lt;br&gt;Categorical Courses&lt;br&gt;Professional Challenges Session&lt;br&gt;PC 16&lt;br&gt;Mini Course&lt;br&gt;MC 27E&lt;br&gt;E³ Sessions&lt;br&gt;Scientific Sessions (1700)</td>
</tr>
<tr>
<td>17:45 – 19:15</td>
<td>E³ Session&lt;br&gt;Refresher Courses&lt;br&gt;CC 1618, CC 1619, CC 1621&lt;br&gt;Categorical Courses&lt;br&gt;Special Focus Sessions&lt;br&gt;Rising Stars Basic Session</td>
</tr>
<tr>
<td>Time</td>
<td>Event</td>
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</tbody>
</table>
| 14:00 – 15:30 | Mini Course  
MC 27A  
E³ Session  
Update Your Skills (Introductory Lecture)  
Scientific Sessions  
(200)  
Siemens Healthcare and  
Bayer HealthCare Joint Symposium |
| 16:00 – 17:30 | Special Focus Session  
SF 3  
Professional Challenges Session  
PC 3  
Categorical Course  
CC 319  
Mini Course  
MC 322  
Multidisciplinary Session  
MS 3  
Refresher Courses  
E³ Session  
(300)  
Student Workshop |
| 17:45 – 19:15 | Opening Ceremony  
Presentation of Honorary Members  
Opening Lecture |
| Thursday, March 1 |  |
| 20:30 – 22:00 |  |
| 23:00 – 01:00 |  |

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</table>
| 14:00 – 15:30 | Mini Courses  
MC 628, MC 27B  
E³ Session  
Scientific Sessions  
Update Your Skills (Practical Courses)  
(600)  
RTF Highlighted Lectures  
Student Session  
EIBIR Session |
| 16:00 – 17:30 | ESR meets Radiation Oncologists  
Special Focus Sessions  
SF 7a, SF 7b  
Mini Courses  
MC 726, MC 728  
Refresher Courses  
E³ Sessions  
Update Your Skills (Practical Course)  
(700)  
ESOR Session  
Student Session |
| 17:45 – 19:15 |  |

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</table>
| 14:00 – 15:30 | State of the Art Symposium  
SA 11  
Special Focus Session  
SF 11  
Professional Challenges Session  
PC 11  
Categorical Courses  
CC 1118, CC 1119, CC 1121  
Multidisciplinary Session  
MS 11  
Refresher Courses  
E³ Session  
Update Your Skills (Practical Course)  
(1100)  
EuroAIM Session  
Student Workshop  
MIR@ECR Session |
| 16:00 – 17:30 | New Horizon Session  
NH 14  
Special Focus Session  
SF 14  
Categorical Courses  
CC 1418, CC 1419, CC 1421  
Refresher Courses  
E³ Session  
Update Your Skills (Practical Course)  
(1400)  
ENOTE Session |
| 17:45 – 19:15 |  |

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<thead>
<tr>
<th>Time</th>
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</table>
| 14:00 – 15:30 | State of the Art Symposium  
SA 15  
Categorical Courses  
CC 1518, CC 1519, CC 1521  
Mini Course  
MC 1522  
Refresher Courses  
E³ Session  
Update Your Skills (Practical Course)  
(1500)  
Euro-Bioimaging Session  
Student Workshop |
| 16:00 – 17:30 | Scientific Sessions  
(1800)  
Refresher Courses  
(1900) |

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</table>
| 17:45 – 19:15 | Opening Ceremony  
Presentation of Honorary Members  
Opening Lecture |
| Monday, March 5 |  |
| 20:30 – 22:00 |  |
| 23:00 – 01:00 |  |
24th European Congress of Radiology

Sessions in Joint Sponsorship with

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Organization</th>
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<tbody>
<tr>
<td>CIRSE</td>
<td>Cardiovascular and Interventional Radiological Society of Europe</td>
</tr>
<tr>
<td>EFOMP</td>
<td>European Federation of Organisations for Medical Physics</td>
</tr>
<tr>
<td>ESCR</td>
<td>European Society of Cardiac Radiology</td>
</tr>
<tr>
<td>ESGAR</td>
<td>European Society of Gastrointestinal and Abdominal Radiology</td>
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<tr>
<td>ESHNR</td>
<td>European Society of Head and Neck Radiology</td>
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<td>ESNR</td>
<td>European Society of Neuroradiology</td>
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<tr>
<td>ESPR</td>
<td>European Society of Paediatric Radiology</td>
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<tr>
<td>ESSR</td>
<td>European Society of Musculoskeletal Radiology</td>
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<tr>
<td>ESTI</td>
<td>European Society of Thoracic Imaging</td>
</tr>
<tr>
<td>ESUR</td>
<td>European Society of Urogenital Radiology</td>
</tr>
<tr>
<td>EuroPACS</td>
<td>European Society for the Promotion of Picture Archiving and Communication Systems in Medicine</td>
</tr>
<tr>
<td>EUSOBI</td>
<td>European Society of Breast Imaging</td>
</tr>
<tr>
<td>ISRRT</td>
<td>International Society of Radiographers and Radiological Technologists</td>
</tr>
</tbody>
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Congress Venue

Austria Center Vienna
Bruno Kreisky Platz 1
1220 Vienna, Austria

Congress Language

English

Onsite Opening Hours

Registration

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
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<tr>
<td>Wednesday, February 29</td>
<td>10:00–18:00</td>
</tr>
<tr>
<td>Thursday, March 1 to Monday, March 5</td>
<td>07:00–18:00</td>
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Preview Centre – EDIPS ECR’s Digital Preview System

<table>
<thead>
<tr>
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<tr>
<td>Wednesday, February 29</td>
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<td>07:00–18:00</td>
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EPOS™ – Scientific Exhibition

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
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<tbody>
<tr>
<td>Thursday, March 1 to Sunday, March 4</td>
<td>08:00–18:00</td>
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Technical Exhibition

EXPO Halls and EXPO Foyer D

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
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<tbody>
<tr>
<td>Friday, March 2 to Sunday, March 4</td>
<td>10:00–18:00</td>
</tr>
<tr>
<td>Monday, March 5</td>
<td>10:00–14:00</td>
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</table>

First Level (Gallery)

<table>
<thead>
<tr>
<th>Day</th>
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<tbody>
<tr>
<td>Thursday, March 1 to Sunday, March 4</td>
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</tr>
<tr>
<td>Monday, March 5</td>
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Dear colleagues,

Our programme is rich in stimulating options and inspiring themes, in line with the most up-to-date research in radiology. Let me highlight some of the innovations introduced this year.

Two new Scientific Subcommittees on oncologic imaging and emergency radiology have been formed. These are two ever expanding fields within radiology and this is the reason why we have organised this year, for the first time, Refresher Courses and one State of the Art Symposium on these topics, along with specific scientific sessions.

Learning from the past, we have increased the number of interactive sessions. Interactivity enhances understanding and bridges the gap between theoretical lectures and practical application in daily routine. Moreover, it allows attendees to make a direct contribution to the sessions and to communicate with the speakers.

The Foundation Course will focus on ultrasound in order to underline the necessity for radiologists to know and carry out ultrasound scanning better than other specialised physicians, and the importance of including ultrasound in diagnosis, along with other imaging techniques.

Over the last few decades, our discipline has experienced a happy phase, rich in important technological innovations and clinical applications that guarantee our patients high standards of diagnosis and treatment. But there is still a significant need to increase the number of radiologists acquainted with novel diagnostic technologies and interventional procedures.

The Congress Committee, the Programme Planning Committee, and the fabulous staff of the ESR Office have worked together to organise an event that mirrors the relevance of the ESR, and that I hope will repeat the success of the past congresses. My motto this year is innovation within tradition, since we aim both to continue successful initiatives and at the same time to improve the ECR’s quality, keeping the programme exciting, and offering a complete learning experience, with options to suit every delegate’s professional needs.

Over the years, the participation of professional delegates at this congress has constantly increased and the ECR has indeed become a major event for radiologists throughout our continent and increasingly throughout the rest of the world.

It is a great pleasure to welcome you to Vienna and to the European Congress of Radiology, the annual meeting of the world’s largest radiological society. Over the years, the participation of professional delegates at this congress has constantly increased and the ECR has indeed become a major event for radiologists throughout our continent and increasingly throughout the rest of the world.

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Dear colleagues,

Invest in the Youth. I welcome the future of the discipline here in Vienna!

For those who will not be able to join us and benefit from the ECR’s high quality programme, selected sessions – such as the opening ceremony, honorary lectures and the ‘ESR meets’ sessions – will be broadcast online via the ESR website, thanks to an initiative introduced this year called ‘ECR goes to …’.

As usual, presentations will also be available after the congress via the ESR website.

Besides our scientific and educational programme, I hope you will enjoy the friendly atmosphere of the Austria Center, as well as Vienna itself, such a beautiful city that everyone will enjoy visiting during the breaks in the congress.

I am very grateful to all those that have contributed to organising this meeting and I am very happy to welcome each and every attendee.

Enjoy the Congress, enjoy Vienna!

Lorenzo Bonomo
ECR 2012 Congress President

One of the Professional Challenges Sessions will be held jointly by the ESR and the International Commission on Radiological Protection (ICRP). Radiation protection is an extremely important area of focus for the whole discipline. The collaboration with the ICRP, the first of this kind at any ECR, will involve not only the organisation’s own experts, but also representatives from the International Atomic Energy Agency.

The ‘ESR meets’ sessions – among the fundamentals of the congress for years – will be dedicated to Italy, Romania and Egypt respectively, all countries who have responded with great enthusiasm to our invitation. The invited partner discipline is our sister discipline radiation oncology, in which imaging plays a growing role in defining and assessing patients’ response to treatment.

As always, we will give particular attention and space to young radiologists. They will benefit from the new subspecialty refresher courses entitled ‘How I report’, which focus on how to report in a way that is more understandable and useful to referring physicians. Several other initiatives will be dedicated to the younger generation, such as ESR Rising Stars, Junior Image Interpretation Quiz, the Radiology Trainees Forum, the ESOR Session, and
The IPP offers a great, convenient way to explore the whole ECR programme online and create a custom timetable. You can search or browse for sessions and posters, read full abstracts, create a personal calendar, and even print your own personalised Book of Abstracts. It’s also optimised for mobile devices, meaning you can keep every detail that’s important to you exactly where you need it – right in your hand.

Plan your own personalised congress and you’ll never lose track again ...

ipp.myESR.org
Committees

10 ESR Executive Council
10 Congress Committee
11 Programme Planning Committee
12 Scientific Subcommittees
15 Topic Coordinators
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1st Vice-President
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2nd Vice-President
Guy Frija; Paris/FR

Past-President
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Lorenzo E. Derchi; Genoa/IT

Congress Committee Chairman
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Éamann Breatnach; Dublin/IE

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Research Committee Chairman
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2nd Vice-Chairperson (2nd Congress Vice-President)
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F. Caseiro-Alves; Coimbra/PT
K. Åhlström Riklund; Umeå/SE

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Programme Planning Committee

Postgraduate Educational Programme
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Members:
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V.N. Cassar-Pullicino; Oswestry/UK
M.H. Fuchsjäger; Vienna/AT
G.A. Krombach; Giessen/DE
P.C. Maly Sundgren; Lund/SE
M. Onu; Bucharest/RO
A. van der Lught; Rotterdam/NL
V. Vilgrain; Clichy/FR

Scientific Papers
Chairman:
B. Hamm; Berlin/DE

Members:
M. Epermane; Riga/LV
D. Tack; Baudour/BE
A. Trojanowska; Lublin/PL

Scientific Exhibition (EPOS™)
Chairman:
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Members:
M. Mechl; Brno/CZ
M. Bachmann Nielsen; Copenhagen/DK

Categorical Courses
L.E. Derchi; Genoa/IT
A. Palkó; Szeged/HU
P.M. Parizel; Antwerp/BE

E³ – European Excellence in Education:
Foundation Course
M. Claudon; Vandoeuvre-les-Nancy/FR

Interactive Teaching Sessions
J. Vilar; Valencia/ES

e-Learning
D. Caramella; Pisa/IT
P. Pokieser; Vienna/AT

Cases of the Day
H. Fenlon; Dublin/IE

Physics Programme
W.J.M. van der Putten; Galway/IE

Image Interpretation Quiz
R. Manfredi; Verona/IT

Junior Image Interpretation Quiz
A.P. Parkar; Bergen/NO

Evaluation
D. Weishaupt; Zurich/CH

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Scientific Subcommittees

Abdominal and Gastrointestinal
The ESR would like to thank ESGAR for their cooperation on this subcommittee

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S.A. Taylor; London/UK

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D. Akata; Ankara/TR
C. Ayuso; Barcelona/ES
M.A. Bali; Brussels/BE
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S. Stojanovic; Novi Sad/RS
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The ESR would like to thank EUSOBI for their cooperation on this subcommittee

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P.A.T. Baltzer; Jena/DE
F.J. Gilbert; Cambridge/UK
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R.M. Mann; Nijmegen/NL
F. Pediconi; Rome/IT
K. Pinker; Vienna/AT
L. Steyaert; Bruges/BE

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B. Graca; Coimbra/PT
K. Gruszczynska; Katowice/PL
S. Katsilouli; Athens/GR
K.-F. Kreitner; Mainz/DE
T. Leiner; Utrecht/NL
E. Mershina; Moscow/RU
A.P. Parker; Bergen/NO
P.K. Vanhoenacker; Aalst/BE
J. Vymazal; Prague/CZ
E. Woo; Aylesbury/UK

Chest
The ESR would like to thank ESTI for their cooperation on this subcommittee

Chairman:
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J.E. Wildberger; Maastricht/NL

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The ESR would like to thank EuroPACS for their cooperation on this subcommittee

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X. Montet; Geneva/CH
Y.W. Nielsen; Copenhagen/DK
A.J. van der Molen; Leiden/NL
M. Wozniak; Lublin/PL
Scientific Subcommittees

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The ESR would like to thank ESUR for their cooperation on this subcommittee

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H.C. Thoeny; Berne/CH
A.T. Turgut; Ankara/TR
G.M. Villeirs; Gent/BE

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S. Bisdas; Tübingen/DE
C.Z. Karaman; Aydin/TR
R. Kohler; Geneva/CH
R. Ljumanovic; Amsterdam/NL
J. Olliff; Birmingham/UK
L. Preda; Milan/IT
A. Vasilyev; Moscow/RO

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V. Válek; Brno/CZ
O.M. van Delden; Amsterdam/NL

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CLICK (Clinical Lessons for Imaging Core Knowledge): Common Clinical Cases
A. Palkó; Szeged/HU

Emergencies in Neuroradiology
P.M. Parizel; Antwerp/BE

Mini Courses

Organs from A to Z: Lung
A.A. Bankier; Boston, MA/US

The Beauty of Basic Knowledge: Interpretation of the Chest Radiograph
J. Cáceres; Barcelona/ES

Molecular Imaging
N. Grenier; Bordeaux/FR

Controversies in Abdominal Imaging
Y. Menu; Paris/FR

Joint Course of the ESR and RSNA (Radiological Society of North America): Essentials in Oncologic Imaging: What Radiologists Need to Know
R.L. Baron; Chicago, IL/US
C.J. Herold; Vienna/AT
H. Hricak; New York, NY/US
Y. Menu; Paris/FR
D.M. Panicek; New York, NY/US
M.F. Reiser; Munich/DE

Multidisciplinary Sessions

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T.H. Helbich; Vienna/AT
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R. Manfredi; Verona/IT

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M. Claudon; Vandoeuvre-les-Nancy/FR

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Image Guided Breast Biopsy: How to do it
M.H. Fuchsjaeger; Vienna/AT

US of the Lower Limb: Groin to Calf
E.G. McNally; Oxford/UK

5th Post Processing Face-Off Session
M. D’Anastasi; Munich/DE
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Dignitaries

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In recognition of his significant contribution to advancing radiology and healthcare, Professor Giovanni Guido Cerri will be awarded Honorary Membership of the European Society of Radiology at ECR 2012.
Professor Giovanni Guido Cerri is Secretary of São Paulo State for Health and Director of the Institute of Radiology at the Hospital das Clínicas, School of Medicine, University of São Paulo (FMUSP). Born in 1953 in Milan, Italy, he emigrated to Brazil in 1955, where he started a successful career in radiology, taking over leading roles in prominent national and global organisations.

Professor Cerri graduated in medicine in 1976 from the School of Medicine of São Paulo University, where he subsequently did his residency and PhD. He specialised in ultrasound and computed tomography at Birmingham University in Alabama, U.S. He received his first appointment as Associate Professor at the FMUSP in 1986.

A professor of radiology since 1996, he was elected five times President of the Post-graduation Committee of FMUSP and was Clinical Director of the Hospital das Clínicas from 1998 to 2002. He then became Dean of the FMUSP and President of the Council of the Hospital das Clínicas.

In January 2011, he was appointed Secretary of São Paulo State for Health by Governor Geraldo Alckmin. In this capacity, he is working on strengthening the role of regional healthcare, tackling issues such as organ transplantation and oncology treatment, decreasing child mortality and increasing the number of hospital beds. Professor Cerri is involved with numerous Brazilian organisations. He currently serves as Scientific Director of the Brazilian Medical Association, and Director and President of the Council of the Cancer Institute State of São Paulo, University of São Paulo.

In recognition of his leadership skills, he was appointed President of the Brazilian College of Radiology from 1989 to 1991, and served as editor of the Brazilian Journal of Radiology until 2006.

He was also President of the World Federation for Ultrasound in Medicine and Biology from 2006 to 2009 and has presided over the FLAUS (Federación Latinoamericana de Sociedades de Ultrasonido en Medicina y Biología – Latin American Federation of Ultrasonography Societies). Over the years he has worked with and provided expertise to various international organisations, such as the International Society of Radiology and the World Health Organization.

He has published 300 scientific articles in international and Brazilian journals, 22 books (more than 40,000 issues sold), and about 50 newspaper and magazine articles. He has supervised 48 theses and held conferences in 25 countries.

He has received more than 30 awards, including the LAFI Medical Sciences Award, and several honour distinctions granted by Brazilian and international societies for his work in the medical field.
In recognition of his exceptional contribution to radiology, and his outstanding research into brain imaging and neurodegenerative disorders, Dr. Burton P. Drayer will be awarded Honorary Membership of the European Society of Radiology at ECR 2012.
Dr. Burton Paul Drayer is currently the Dr. Charles M. and Marilyn Newman Professor and Chairman of the Department of Radiology (1995 to present) at Mount Sinai School of Medicine and the Executive Vice President for Risk at the Mount Sinai Medical Center. He is also the immediate past president of the Radiological Society of North America (RSNA). He is a world renowned researcher in the fields of CT and MR imaging of the aging brain, neurodegenerative disorders, brain infarctions and neurological and psychological disorders.

Dr. Drayer first received an undergraduate degree in political science from the University of Pennsylvania before moving on to receive his medical degree from the Finch University of Health Sciences/The Chicago Medical School in 1971. He then went on to take an internship at the University of Vermont, where he also served as a neurology resident. He completed his radiology residency as well as a fellowship in neuroradiology at the University of Pittsburgh. He also worked at the Duke University Medical Center, North Carolina, from 1979–1986, where he became Professor of Radiology and Assistant Professor of Medicine (Neurology). He assumed his present position at the Mount Sinai Medical Center in 1995. He was chair of the Division of Neuroimaging Research-Education at the Barrow Neurological Institute in Phoenix, Arizona from 1986 to 1995.

Dr. Drayer has been a prolific researcher and writer within the field of neuroradiology. He has authored around 200 journal articles, has 41 book chapters to his name and has published two books. He was also editor of *Neuroimaging Clinics of North America* from 1990–2005. Not surprisingly, he is in great demand as a lecturer and guest speaker, which is evidenced by the fact that he has given over 200 invited lectures and speeches. He was a fellow of both the American College of Radiology (ACR) and the American Academy of Neurology. He is Past President of the New York Roentgen Society and he was also a founding member of the American Society of Neuroradiology (ASNR) Research Foundation and President of the ASNR in 1996–1997.

In recognition of this, Dr. Drayer has received many awards and held many prestigious posts. Beginning as early in his career as 1977 he was awarded first prize in the Presidents Award of the Pittsburgh Roentgen Society as well as the Cornelius G. Dyke award from the ASNR in the same year. More recently he received a Distinguished Service Award from the American Board of Radiology in 2008, made the list of best doctors in New York Magazine from 1996 to present and was awarded the Gold medal from the American Society of Neuroradiology in 2011.

Dr. Drayer’s achievements and research interests are too numerous to list here but some of his many research interests include; neurodegenerative disease and normal aging, Alzheimer’s disease, Parkinson’s disease, multiple sclerosis, cerebral infarction, vascular malformation of the brain and brain neoplasm, to name but a few. He has served on many national advisory boards, reflecting his expertise on matters such as those concerned with Alzheimer’s disease, stroke and Parkinson’s disease.

After being elected to the Board of Directors of the RSNA in 2003, Dr. Drayer became Chairman of the board in 2009, president elect in 2010 and finally President of the RSNA in 2011.
In recognition of his major contribution to the development of radiology, particularly in the areas of imaging technologies and musculoskeletal imaging, and his devotion to the restructuring of radiological standards of practice, Professor Moshe Graif will be awarded Honorary Membership of the European Society of Radiology at ECR 2012.
Professor Moshe Graif is a renowned radiologist in the fields of ultrasound and MRI, whose work has considerably advanced both research and clinical radiology. His early interest in imaging technologies also helped to improve and spread their use in clinics today. He has been Chairman of the Department of Medical Imaging at the Tel Aviv Sourasky Medical Center since 1989 and Professor of Medical Imaging at the Faculty of Medicine of Tel Aviv University since 1992.

Born in 1948 in Bucharest, Romania, and living in Israel since 1950, he obtained his medical degree from the Faculty of Medicine of Bologna University in Italy in 1973. From 1975 to 1980, he trained in radiology at the Rambam Medical Center in Haifa, in affiliation with the Faculty of Medicine of the Technion Institute of Technology. In 1980, he moved to Tel Aviv where he became Associate Professor in Medical Imaging in 1992 and full Professor in 2006. In 1984, he joined London Hammersmith Hospital for a year as a research fellow at the MRI unit, with a view to bringing the new technology and clinical practice to Israel.

He has taken on several professorships across the Atlantic; in 1995–96 as Visiting Professor at the MRI division of Thomas Jefferson University Hospital in Philadelphia; in 2000 as Adjunct Associate Professor of Radiology, again at Thomas Jefferson University Hospital; in 2007 as Visiting Professor at Saint Paul’s Hospital in Vancouver, Canada; and in 2010 at the Italian Hospital of Buenos Aires University.

Professor Graif is one of the most influential radiologists in Israel. He has been Chairman of the Israel Radiological Association (ISRA) for the past twelve years. Under his chairmanship, ISRA took part in the ‘ESR meets’ programme at ECR 2008. He is also a member of the Executive Committee of the Scientific Council of the Israel Medical Association (IMA), a member of the National Council of Medical Imaging for the Israeli Ministry of Health and Chief Radiology Counsellor for the Maccabi Health Services Organization. He is also a research grant reviewer for the Chief Scientist at the Ministry of Health and the Israel Academy of Science.

He has also served as co-President of the French-Israeli Association of Medical Imaging since 2002 and was co-President of the East Mediterranean Congress of Magnetic Resonance (2002–2006). He is an honorary member of the French Radiological Society (SFR), from which he received the Gold Medal, the highest honour of the Society, in 2007.

Among numerous awards, he received a grant for a research fellowship from the Lewis Foundation in 1984 and was awarded best article of the year in 1989 from the International Bone Society Corrine-Farrell. His research has focused on ultrasound, MRI and IT technologies, including signal generation and processing, tissue and signal characterisation and their experimental applications in beta sites and clinical settings. He has a special interest in clinical research of the neck (parathyroid), pelvis and MSK sonography. He has written 112 articles and chapters and received over 1,500 citations in medical literature.

He has been MSK area editor of the Journal of Clinical Ultrasound (JCU) since 1995 and is a reviewer for many publications, including the European Journal of Radiology and the Israel Journal of Medical Sciences.
In recognition of his exceptional contribution to radiology, his outstanding leadership, and his commitment to interdisciplinary cooperation and international collaboration, Professor Christian J. Herold will be awarded the Gold Medal of the European Society of Radiology at ECR 2012.
Christian J. Herold is currently Professor and Chairman of the Department of Radiology at the Medical University of Vienna, Vienna General Hospital (1996 to present), Director of International Affairs at the same institution, and a part-time faculty member of Johns Hopkins Medical Institution, Baltimore, USA. He is well known and respected for his work in thoracic radiology.

Born in Vienna, Professor Herold initially studied medicine, from 1973 to 1979, at the medical school of the University of Vienna. After receiving his medical degree in 1979 he went on to serve as an intern at the Weinviertel Clinical Centre in Mistelbach, Lower Austria. After five years he then returned to his alma mater as a resident radiologist in 1984. From 1989 until 1991 he was a fellow of the Department of Radiology at Johns Hopkins University, Baltimore, Maryland. Following this fellowship he became a part time member of the faculty at Johns Hopkins and in 1993 he received a tenured position as an Associate Professor at the University of Vienna. A year later he was appointed acting director of the Department of Diagnostic Radiology at Vienna General Hospital, a post which he held until 1996, when he became a full professor.

Among the awards and honours Professor Herold has received throughout his career are the Hounsfield Award of the Society of Computed Body Tomography and Honorary Membership of the Radiological Society of North America. He has also been awarded honorary membership of the Iranian Society of Radiology, Argentinean Society of Radiology, French Society of Radiology, and the Hungarian Society of Radiology. He has held visiting professorships at the University of Cambridge, Stanford University, Cornell University and the Mayo Clinic. He has authored or co-authored 146 peer-reviewed journal articles, written 15 book chapters and he has published two books. He has also delivered over 300 invited lectures and was president of the Fleischner Society from 2005 to 2006, the European Society of Thoracic imaging from 1999 to 2000, and the ISSSR from 2009 to 2011.

Professor Herold is widely respected as a thoracic radiologist who is committed to passing his knowledge on to the next generation. He served as President of the European Society of Radiology from March 2009 to March 2010 and was ECR Congress President in 2007.
In recognition of her exemplary and inspiring career and her outstanding contributions to education in radiology, Professor Hedvig Hricak will be awarded the Gold Medal of the European Society of Radiology at ECR 2012.

Hedvig Hricak
New York, NY/US
Gold Medallist
At present, Professor Hricak is Chairman of the Department of Radiology at Memorial Sloan-Kettering Cancer Center (MSKCC), Member of the Molecular Pharmacology and Chemistry Program, Sloan-Kettering Institute, Professor of Radiology at the Weill Medical College of Cornell University, and Professor at Gerstner Sloan-Kettering Graduate School of Biomedical Sciences, New York, NY.

Professor Hricak was born in Zagreb, Croatia and began her career by studying medicine at the University of Zagreb, from which she graduated in 1970 with an MD. In 1972 she moved to the United States, where she served as a resident in diagnostic radiology at St. Joseph's Mercy Hospital, Pontiac, Michigan, which was followed by a fellowship at the Henry Ford Hospital in Detroit, Michigan. Subsequently, she was appointed assistant clinical professor of radiology at the University of Michigan in Ann Arbor. In 1982 she moved to California to take a post at the University of California, San Francisco (UCSF), and four years later she became professor of radiology, radiation oncology, urology and gynaecology. She later became head of the abdominal section of the Department of Radiology at UCSF and during her time there she also earned a Doctorate of Medical Science (PhD) from the Karolinska Institute in Stockholm, Sweden, which she received in 1992. She then moved to the east coast of the United States in 2000 to take up her present posts at MSKCC and the Sloan-Kettering Institute.

An active participant within many radiological societies and bodies, Professor Hricak has held many distinguished posts, including President of the Radiological Society of North America (RSNA) from 2009 to 2010, and she is currently president of the International Society for Strategic Studies in Radiology (ISSSR). Reflecting her belief in the importance of interdisciplinary work, she also served as president of the California Academy of Medicine (1999–2000). She has been awarded honorary membership by numerous national radiological societies and at last year’s ECR she received honorary membership from the European Society of Radiology. Additionally, she is actively involved in radiological education and training initiatives. For instance, she co-directs the National Institutes of Health-funded training programme, ‘Molecular Imaging: Training for Oncology’ and is involved in ESOR’s Scholarship Programme for European radiologists as well as the National Cancer Institute Education Fund for Training in Transitional Countries. She has been rated as one of America’s top radiologists by the Consumer Research Council and recognised as one of the top doctors in New York by New York Magazine. She was ranked number two in Diagnostic Imaging’s 20 most influential radiologists of the past decade. She also sits on the editorial boards of many reputable medical journals.

Professor Hricak has published more than 480 original research reports, reviews and other articles, as well as 18 books and 133 book chapters. In total her work has been cited more than 16,000 times. She has received research funding from the United States Department of Defense, National Institute of Health, American Cancer Society, as well as private foundations. Over the course of her career, she has contributed to a plethora of advisory bodies, both national and international, and since 2002 she has been a member of the Institute of Medicine of the National Academy of Sciences. She is also a member of the Croatian Academy of Sciences and Arts and of the Russian Academy of Medical Science. In 2005, she received an honorary doctorate in medicine from the Ludwig Maximilians University of Munich, Germany.
In recognition of his significant accomplishments in musculoskeletal radiology, his contribution to the development of European radiology and his efforts to provide a legal framework for teleradiology in Europe, Professor Iain W. McCall will be awarded the Gold Medal of the European Society of Radiology at ECR 2012.

Iain W. McCall
Oswestry/UK
Gold Medallist
Iain W. McCall is Professor of Radiological Sciences at the University of Keele and Consultant Musculoskeletal Radiologist at Oswestry's Orthopaedic Hospital, where he has worked for 33 years. He has continued to serve as Medical Director of the Hospital Trust after his retirement from clinical practice in 2009. He has taught a great number of radiologists in training on rotation throughout his career, and built up a five-year training programme for 25 radiologists at Keele University Hospital.

His research interests have focused on musculoskeletal diseases, especially spinal degeneration and pain. He is currently involved in a large, EU-funded, multicentre study on the relationship of disc degeneration, MRI changes and genetics, and is also working on articular cartilage regeneration and repair with cultured chondrocytes, using MRI as the evaluation tool. He has a further interest in Achilles tendon injury, slipped femoral epiphysis and Paget’s disease.

He has been very active within the Royal College of Radiologists (RCR), and was Registrar between 1994 and 1998. In 1999 he was elected Dean of the Faculty of Clinical Radiology of the RCR for two years, a role that allowed him to significantly influence education and training of radiologists in the U.K.

His influence is also deeply felt in Europe, and he has served as the U.K. representative for radiology to the Union of European Medical Specialists (UEMS) and President of the Radiology section. He has served as Chairman of the Professional Organisation Committee of the European Association of Radiologists (EAR), which later became the ESR, and was responsible for revising the five-year radiological curriculum that was adopted by most EU countries. He established and ran a programme assessing radiology teaching centres in Europe and helped to develop the continuing medical education and development policy for European radiologists.

He greatly contributed to the creation of the ESR in 2005, through the merger of the EAR and the European Congress of Radiology. He personally drafted and fine-tuned the ESR statutes over two years, and was subsequently appointed ESR President in 2008–2009.

He has carried out tremendous work for the development of a legal framework for teleradiology within Europe, to ensure continued high quality of patient care. He represented the EAR on the International Radiology Quality Network during the development of the international standards for teleradiology, and produced guidance documents on Good Radiological Practice and Teleradiology.

Professor McCall has been involved with numerous subspecialty and national societies over the years. He has been a member of the International Skeletal Society since 1982 and served as Editor of the society's journal *Skeletal Radiology* for many years. He also served as Vice President and President of this society, and was recently presented with its Gold Medal.

He is an active member of the International Society for the Study of the Lumbar Spine and the European Spine Society, and was the U.K. representative to the International Society of Radiology for many years. Among honours from many other societies, he received Honorary Membership from the RSNA in 2010.
In recognition of her outstanding work in interventional radiology and great contribution to the advancement of European radiology, Professor Małgorzata Szczerbo-Trojanowska will be awarded the Gold Medal of the European Society of Radiology at ECR 2012.
Professor Małgorzata Szczerbo-Trojanowska is a pioneer in interventional radiology, a subspecialty she has helped shape throughout her 41-year career. A Professor of Radiology since 1993, she has been Chairman of the Department of Radiology of Lublin for the past 13 years. She is also Head of the Department of Interventional Radiology and Neuroradiology at the Medical University in Lublin, a top centre in Poland with 1,500 beds.

Born in 1947 in Lublin, Poland, Professor Szczerbo-Trojanowska graduated in 1970 from Lublin Medical University. She did her postgraduate training in surgery at Princess Margaret Hospital in Swindon, U.K., and in nephrology at Lublin Medical University.

She has had a great influence on the refinement of Polish radiology and helped raise its international profile by serving in and sometimes leading key medical organisations. In 1978 she cofounded the Interventional Radiology Section of the Polish Medical Society of Radiology, which she headed between 1980 and 1990. She was also a co-founder of the Polish Society of Magnetic Resonance and served as a member of the Executive Board from 1989 to 1999. She served as President of the Polish Medical Radiological Society from 2001 to 2004. Last but not least, she has been Chairman of the Radiology Committee of the Polish Academy of Sciences since 2007.

Her achievements in Poland have been echoed outside the country and she has greatly contributed to the development of radiology in Europe, a commitment that culminated with her nomination as President of the European Congress of Radiology (ECR) in 2010. A member of the ECR’s executive board since 2004, she has also served as Chairman of the Rules Committee of the Cardiovascular and Interventional Radiological Society of Europe (CIRSE) Executive Council from 2005 to 2007, in recognition of her tremendous contribution to the clinical practice of vascular and interventional radiology.

She has authored or co-authored 204 peer-reviewed publications, as well as 10 monographs and book chapters and has given over 250 scientific presentations, including more than 100 invited lectures, all over the world. Further, she has been very active in training the next generation of radiologists, and teaching medical students and residents. She tutored 24 radiologists, who obtained their PhD theses under her supervision. She has been a member of the Steering Committee of the European School of Radiology (ESOR) since 2006, and was a local organiser of three courses in Poland. She was also involved in setting up the first European School of Interventional Radiology (ESIR) courses in Eastern Europe, hosting two of them in Lublin.

Professor Szczerbo-Trojanowska is a reviewer, consultant and editorial board member of many radiological and medical journals including *Cardiovascular and Interventional Radiology*, *Acta Angiologica* and the *Polish Journal of Radiology*.

Her various accomplishments have gained her numerous distinctions, including the Medal of the Polish Chamber of Physicians and the President’s award of the American Association for Women Radiologists. She was awarded honorary membership of the Argentine, German, Hungarian and Polish radiological societies. She also received honorary membership of the Seldinger Society of Interventional Radiology and the Polish Ultrasonic Society.
Dr. Sylvia Ferino-Pagden, a specialist in Italian Renaissance art, will present the Opening Lecture ‘Arcimboldo in the service of natural science’, highlighting the links between art and natural science.
Dr. Sylvia Ferino-Pagden is Director of the Picture Gallery at the Kunsthistorisches Museum (KHM, Museum of Art History) in Vienna.

She studied art history at Vienna University and Bryn Mawr College in Pennsylvania, where she obtained her MA and did her PhD. She obtained several research fellowships from Scuola Normale Superiore in Pisa, St. Hugh’s College in Oxford, Kunsthistorisches Institut in Florence and the Bibliotheca Hertziana (Max-Planck-Institute) in Rome.

The focus of her career has been the Italian Renaissance and she has been Curator of Italian Renaissance Painting at the KHM since 1988. She is also Director of KHM’s research projects that are supported by external institutions, such as scientific examinations (x-ray, infrared and chemical analysis) of the paintings by Titian.

Since 1992 she has been a member of the Editorial Board of scholarly quarterly Venezia Cinquecento and a member of various international committees. She has received many awards for her work, including the Cruz de Oficial del Merito Civil order by the Spanish Kingdom, the order of the Ufficiale della Repubblica Italiana and the premium Daria Borghese for the best foreign language exhibition catalogue in the field of art history (Vittoria Colonna – Dichterin und Muse Michelangelos).

Her most important exhibitions and exhibition catalogues include ‘Late Titian and the Sensuousness of Painting’ (Vienna, KHM/Venice, 2007/08), ‘La prima donna del mondo – Isabella d’Este – Fürstin und Mäzenatin der Renaissance’ (Vienna, KHM, 1994) and ‘Immagini del Sentire, I Cinque Sensi nell’Arte / Los Cinco Sentidos y el Arte’ (Cremona/Madrid, Museo del Prado, 1996/1997), and most recently ‘Arcimboldo, artista milanesi tra Leonardo e Caravaggio’ (Milan 2011).

At ECR 2012, Dr. Ferino-Pagden will again focus on Giuseppe Arcimboldo, a late Renaissance Lombard artist (1526–1593), whose artistic drawings were used for scientific illustrations in his time.
In recognition of his tremendous contribution to radiology, especially intensive care imaging and imaging of adult respiratory distress syndrome and of pulmonary thromboembolic disease, Professor Lawrence R. Goodman has been invited to present the Wilhelm Conrad Röntgen Honorary Lecture ‘In search of venous thromboembolism: the first 2,912 years’ at ECR 2012.

Lawrence R. Goodman
Milwaukee, WI/US
Honorary Lecturer
Professor Lawrence R. Goodman, MD, FACR, is a pioneering chest radiologist, whose work has greatly advanced the development of the subspecialty and imaging as a whole. He is Chief of Thoracic Imaging at the Medical College of Wisconsin in Milwaukee, U.S., a role he took on almost three decades ago. He has been Professor of Pulmonary Medicine & Intensive Care at the same institution since 1996.

A former member of the faculty of Hahnemann Medical College in Philadelphia and George Washington University in Washington DC, Professor Goodman received his MD from the State University of New York in Brooklyn in 1968. He completed his residency in radiology at Boston City Hospital, Boston University in 1972 and later moved on to San Francisco for a one-year fellowship in pulmonary radiology at the University of California.

His contribution to radiology translated into numerous appointments within prestigious institutions, some of which he helped shape from the beginning. Professor Goodman was one of the original members of the Society of Thoracic Radiology, where he served on the Organizing Committee in 1982 and as President in 1985–1986. His commitment to the development of the society earned him a Gold Medal Award for lifetime achievement in 2008. He has also been very active within the Fleischner Society, where he served on the Programme Committee and as Programme Chairman, Treasurer and President. He is currently on the society’s Strategic Planning Committee.

While at the Medical College of Wisconsin, he started a fellowship programme, in the name of Gerry Scanlon, his predecessor as Head of the Chest Imaging section. Professor Goodman has trained many fellows from North America and around the world, stressing his interest in mentoring younger generations.

A fellow of the American College of Radiology, he has also carried out numerous functions within the Radiological Society of North America (RSNA), and is a member of the American Roentgen Ray Society and the Association of University Radiologists. He is also the editor of the 2nd and 3rd edition of ‘Felson’s Principals of Chest Roentgenology’.

He has published almost 150 influential papers, mainly focusing on intensive care imaging, imaging of adult respiratory distress syndrome and imaging of pulmonary thromboembolic disease. His paper ‘Detection of pulmonary embolism in patients with unresolved clinical and scintigraphic diagnosis: Helical CT vs angiography’ was the 18th most-cited article in the American Journal of Radiology over the last century.
In recognition of his outstanding career and his tremendous contribution to the study of otorhinolaryngology and oncology in the field of radiology, Professor Roberto Maroldi has been invited to present the Antonio Chiesa Honorary Lecture ‘Small is beautiful! The voyage of head and neck imaging into the future’ at ECR 2012.
Professor Roberto Maroldi is currently head of the Department of Radiology at the University of Brescia. He is Professor of Radiology at the Medical School and at the School of Dentistry of the University of Brescia. He is also the Dean of the Radiography undergraduate course of the same University. His research interests are mainly in the areas of oncological aspects of head and neck lesions in several anatomic regions and the analysis and assessment of the diagnostic roles of CT and MR.

Professor Maroldi was born in Vicenza, Italy, but began his career in Verona where he studied at the Medical School of Verona, from which he graduated in 1979. In 1982 he moved to the Department of Radiology of the Medical School of Verona, which at that time had the late Professor Antonio Chiesa as its director. In 1984 he received his certification as a radiologist from the same medical school. During this time, right up until 1986, he also edited the newsletter published by the informatics section of the Italian Society of Radiology, entitled Informa.

In 1987 he was Secretary General of the Fifth International Symposium on the planning of Radiological Departments (ISPRAD-V) and once again worked alongside the late Professor Chiesa, as they both co-edited the proceedings book of the symposium, Planning Considerations in Diagnostic Imaging and Radiation Therapy. He was also appointed Secretary General of the Italian Congress of Radiology, which was held in Milan in 1994.

A member of the board of the Italian Society of Radiology from 1994 to 1998, Professor Maroldi was also president of the head and neck radiology section of the same society from 1996 to 2000. He was also a member of the board of the European Society of Head and Neck Radiology from 1998 to 2008 and chaired the European Congresses of Head and Neck Radiology in 2001 and 2009. He co-founded and remains a member of the Italian Head and Neck Society, which was established in 2011. He co-edited a book entitled 'Imaging in Treatment Planning for Sino-nasal Diseases', which adds to his more than 140 publications. He continues to play an active role in education, both domestically and internationally. At the University of Brescia he has chaired the degree course in radiology since 2007, while abroad he has been the course organiser of the ESMRMB’s ‘Advanced head and neck MR imaging’ course on several occasions, which is held in various countries.

As well as being an accomplished radiologist, Professor Maroldi has also excelled outside of radiology and academia. From 1972 until 1976 he represented his country as a member of the Italian National Athletics Team.
In recognition of her tireless service to radiology and her dedication to research, Professor Cornelia M. Schaefer-Prokop has been invited to present the Josef Lissner Honorary Lecture ‘The pulmonary nodule: old and new challenges’.

Cornelia M. Schaefer-Prokop
Amersfoort/NL
Honorary Lecturer
Professor Schaefer-Prokop is currently Associate Professor of Radiology at the Hannover School of Medicine and also works at the Meander Medical Centre in Amersfoort, the Netherlands. She also has research affiliations with Radboud University Nijmegen and the Academic Medical Center in Amsterdam.

Professor Schaefer-Prokop was born in Essen, Germany. She served as a resident radiologist at the Lukaskrankenhaus of the Neuss and Hannover Medical School in Germany from 1987 to 1993, when she became a board certified radiologist. She also spent one year, from 1988 to 1989 at Harvard University, Boston, as a research fellow. In 1994 she received the Dorothea Erxleben Scholarship for research, which she conducted until 1997. Then in 1998 she became an Associate Professor of radiology at the Hannover Medical School. She worked at the General Hospital of Vienna (AKH) for six years from 1998 until 2004. She then took up a post at the Academic Medical Centre in Amsterdam in 2005, where she remained until she moved to her current post at the Meander Medical Centre in Amersfoort, The Netherlands.

Professor Schaefer-Prokop has conducted a great deal of research in the areas of digital radiography, computer-aided diagnosis in CT and radiography, high resolution CT of interstitial lung diseases and also diagnosis and staging of bronchogenic carcinoma. She continues to hold research affiliations with both the University of Amsterdam and the University of Nijmegen. Since 2009 she has been a member of the Fleischner Society as well as a board member of the European Society of Thoracic Imaging (ESTI) of which she is scheduled to assume the role of President in 2014. She previously held the post of Secretary-General of ESTI from 2001 to 2005.

In addition to her research, Professor Schaefer-Prokop has been active in academic publishing. She has been on the editorial boards of both the scientific journals *Radiology* and *European Radiology*, as well as having been a guest editor for special issues of the *Journal of Thoracic Imaging* and the *European Journal of Radiology*. She has also authored many publications, including over 100 articles in peer reviewed journals and more than 40 book chapters, and she has co-edited one book; *Computed Tomography of the Body* (1998) and edited another; *Critical Care Radiology* (2010). She has given over 200 scientific presentations so far in her career.
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**Arts & Culture**

Delegates are encouraged to visit the Arts & Culture Booth in the entrance hall to get information on Vienna’s cultural events such as exclusive opera performances, delightful concerts, and the fascinating exhibitions in Vienna’s most important and remarkable museums. Pick up your personal Arts & Culture Brochure at this counter to find descriptions of all cultural places!

**Badges**

For organisational and security reasons, badges must be worn at the congress venue. Access to the different areas will only be granted upon presentation of an adequate badge.

Please note that in order to obtain CME credits, it is mandatory to affix your Personal ID stickers to the evaluation forms available in each scientific session, and to drop these into the dedicated boxes.

**Lost Badge / Forgotten Badge**

In the case of loss, a replacement badge will only be provided on full payment of the applicable onsite registration fee. Forgotten badges will be replaced against a deposit of the full onsite fee.

**Book of Abstracts – ‘Insights into Imaging (Supplement 1 to Volume 3)’**

Professional registrants will find a complimentary copy in their congress bag.

Please note that in accordance with the ESR members’ wishes, the print version of the Book of Abstracts will again contain Scientific Sessions and Student Sessions only. The extended version of the Book of Abstracts, including Postgraduate Educational Programme and Satellite Symposia can be accessed online at www.i3-journals.org/articles.

With the help of the popular ECR feature Interactive Programme Planner (ipp.myESR.org) you can create your personal Book of Abstracts!

Abstracts of EPOS® presentations no longer appear in the Book of Abstracts. Each full EPOS® presentation can instead be cited by a Digital Object Identifier (DOI) which appears with the presentation at www.myESR.org/EPOS.

**Broadcast Rooms**

For the first time, the ECR this year features specific Broadcast Rooms, where you can listen to sessions and view the corresponding presentation material in a relaxing atmosphere when the actual lecture rooms are overcrowded. Broadcast Rooms are located next to rooms B and C (2nd level), rooms I/M and N/O (1st level), rooms E1, E2, F1, F2 (entrance level) and rooms G/H and I/K (lower level).

**Business Centre**

The Press Office & Business Centre, located on the entrance level, offers copy and fax facilities for a small charge.

**Opening hours:**

Thursday, March 1 to Monday, March 5: 08:00–18:00

**Cafés & Restaurants**

If you are looking for an ideal communication point, or if you just want to take a short break, the various foyer cafés and restaurants will suit you best. They are situated throughout the whole congress venue and across all levels of the building, offering a variety of tasty hot and cold snacks. Within the technical exhibition area, the ECR has built its own cafés; in Extension Expo A and Expos C and E.

To offer you the broadest variety of Austrian and international delicacies, each café and restaurant has its own theme, from Austrian specialties to Italian treats and Asian delights.

See page 43.

**Cases of the Day**

From Thursday through Sunday, five Cases of the Day covering different sections of radiology will be shown in EPOS® (ECR’s Electronic Presentation Online System) on the 2nd level. Participants are invited to submit their diagnosis. The winners will be announced on the ESR website.

We would like to acknowledge the contribution of the following authors to the Cases of the Day:

**Thursday:**

Case 1: B.D. Murphy, G.C. Colleran, M.J. Shelly, P.J. O’Sullivan; Ireland

Case 2: A. Palkó; Hungary

Case 3: L. Bussmann, C.W.A. Pﬁrrmann; Switzerland

Case 4: T. Nunes, P. Vilela; Portugal

Case 5: B.D. Murphy, G.C. Colleran, M.J. Shelly, H. Fenlon; Ireland

**Friday:**

Case 1: L. Bussmann, C.W.A. Pﬁrrmann; Switzerland

Case 2: F. Iafrate, P. Baldassari, A. Laghi; Italy

Case 3: G.C. Colleran, M.J. Shelly, B.D. Murphy, J.B. Catalano, S. Dheer, E.C. Kavanagh; Ireland


Case 5: A.P. Parkar, S.D. Meents-Koreman, H.A. Engelshove, M.E.A.P.M. Adriaensen; Norway/Netherlands

**Saturday:**

Case 1: C. Ruivo, H. Rodrigues, F. Caseiro-Alves; Portugal

Case 2: G.C. Colleran, M.J. Shelly, B.D. Murphy, E.C. Kavanagh; Ireland

Case 3: M.-P. Revel, P. Rousset; France

Case 4: E.E.J.G. Coche, M. Lambert, B. Ghaye; Belgium

Case 5: M.J. Shelly, P.R. Mueller; United States

**Sunday:**

Case 1: C. Antunes, H. Rodrigues, F. Caseiro-Alves; Portugal

Case 2: A. Oto, R.L. Baron; United States

Case 3: M. Knox, G. Hargaden, C. Smith, F. Flanagan; Ireland

Case 4: G.G. Karmazanovsky, E.V. Kondratev; Russia

Case 5: F. Agnello, M. Dioguardi Burgio, M. Midiri, G. Brancatelli; Italy
Categorical Courses
Two new Categorical Courses on ‘Emergencies in Neuroradiology’ and on ‘Urogenital Imaging’ will be presented at ECR 2012. The Categorical Course ‘CLICK (Clinical Lessons for Imaging Core Knowledge): Common Clinical Cases’ is repeated from ECR 2011. It will be interactive with electronic voting/self assessment. The presentation material will be available at EDIPS Download (http://edips-download.myESR.org) after the congress. Places will be allocated on a first-come, first-served basis. Please refer to pages 105–107 for the courses’ programmes.

Churches and Religious Communities in Vienna
Vienna is a multi-religious, multi-ethnic city. We will be pleased to provide you with information on your religious community at the Travel Service Desk.

CME Accreditation System
See pages 50–51.

Coat Check
The coat check services are located on the entrance level, in Foyers E and F.

Communication Areas
When you are looking for the perfect place to meet and talk with friends or just to relax and browse through ECR Today, ECR 2012 offers two areas perfectly equipped for communication and recreation; the ESR Welcome Lounge right in the middle of the entrance hall and the EPOS™ Lounge on the 2nd level of the congress venue.

Confirmation of Payment and Attendance / CME Accreditation
Any congress-related confirmation will be available during and after the congress at the ESR website (www.myESR.org) in the MyUserArea (login with your last name and your Personal ID as printed on your badge). Internet access will be provided at the registration terminals (from Saturday, March 3, afternoon onwards) as well as at the internet points (see floor plans) and W-LAN areas, which are available throughout the congress venue.

Congress Language
English

Congress Venue
Austria Center Vienna
Bruno Kreisky Platz 1
1220 Vienna, Austria
Phone: (+43 1) 533 40 64–0
To reach the ACV by public transport from the city centre (Stephansplatz) take the U1 underground line (red line, direction Leopoldau). Get off at Vienna International Centre/Kaisermühlen and take the exit marked Schüttaustraße. Travelling time: approximately eight minutes.

ECR Cares
Water and free apples will be distributed throughout the congress venue. In addition, free massage and shoe shining services are offered in the recreation area in the extension EXPO A.

‘ECR goes to …’
A new addition for 2012, ‘ECR goes to’ has been launched in an effort to bring the ECR to everyone. For the first time, several major ECR sessions will be filmed and broadcast live via the ESR website, with Facebook and Twitter options integrated into the web interface to provide a fully interactive experience. For programme details see www.myESR.org

ECR Today
ECR Today, the popular daily newspaper of the congress, will be published from Thursday to Monday and distributed in the entrance hall of the congress venue and in the entrance area of the Technical Exhibition.

ECR 2012 Smartphone App
The ECR 2012 App gives iPhone and Android users a new way to experience the congress. The app is packed with features, including general congress information, scientific and educational programme details, top news stories from ECR Today, full abstracts, and even floor plans of the Austria Center. You can download the app from iTunes or via the QR code to the right.

EDIPS – ECR’s Digital Preview System
See Preview Centre.

EFOMP (European Federation of Organisations for Medical Physics) Workshop
This workshop is the 14th of the series EFOMP Workshops in ‘New Technology in Diagnostic Radiology’ and will this year focus on ‘Frontiers in Interventional Radiological Imaging’. It has been organised by EFOMP in collaboration with ESR to address the current and future technological requirements for radiology imaging equipment (please refer to page 128).

EIBIR Booth
Visit the EIBIR Booth in the entrance hall of the congress venue and receive the most recent news on the European Institute for Biomedical Imaging Research.

EIBIR presents IMAGINE
After last year’s success, EIBIR presents again the IMAGINE Workshop. The sessions will feature research institutes, university groups and research departments of industrial companies, who want to present novel and exciting technological developments in the field of diagnostic and interventional radiology. See page 133.
**Emergency Information/First Aid**
For fire, medical or police assistance, please contact ACV Information on internal telephone number 155, or dial the emergency number 123. All elevators are fitted with telephones. A medical specialist trained in emergency medicine will be present throughout the congress.

**ePACS**
ePACS is an e-learning tool for both novices and experts, and will be shown in a separate area next to EPOS™ on the 2nd level. It intends to support lectures and courses by enabling participants to improve their performance in diagnosing and reporting of cases presented with clinical and radiological information only. See page 63.

We would like to acknowledge the contribution of the following first authors to ePACS:
C. Balassy, C.J. Herold, A. Hojreh, G. Kasprian, C. Loewe, T. Moritz, C. Mueller-Mang, D. Prayer, H. Ringl, A. Stadler, F. Wolf; Vienna/AT; M.J. Breitenseher; Horn/AT; C.M. Schaefer-Prokop; Amersfoort/NL; M. Zanetti; Zurich/CH.

**EPOS™ – Scientific Exhibition**
At the start of ECR 2012, EPOS™, the Electronic Presentation Online System, will again grow by more than 2,000 electronic presentations (scientific and educational exhibits) and feature in total over 14,000 presentations since ECR 2003 on more than 100 computer workstations.

At ECR 2012 EPOS™ will again offer a feature which was introduced last year and proved immediately successful. To enhance interaction, discussions on hot topics in radiology have been arranged, where authors of the highest-scored posters in each field will discuss them with a moderator (more information on page 54).

During ECR 2012, EPOS™, located on the 2nd level, is accessible daily (except Monday): Thursday to Sunday from 08:00 to 18:00.

Note: On Saturday, March 3, 12:15–13:15, EPOS™ will be closed for a self-assessment test for the participants of the foundation course on ultrasound. On Monday, March 5, EPOS™ will be closed for the European Diploma examinations.

EPOS™ is kindly supported by Siemens and Hewlett-Packard.

**ESOR Booth**
Visit the ESOR Booth in the entrance hall next to the New Registration counters and receive the latest news on the European School of Radiology. In addition, there will be an ESOR Info Desk in the Rising Stars Lounge.

**ESR Welcome Lounge**
Visit the ESR Welcome Lounge in the entrance hall! Whether you are looking for an ideal communication point or just want to take a short break – the ESR Welcome Lounge will suit you best. Free wireless LAN will be provided for your convenience.

**European Diploma in Radiology (EDiR)**
At ECR 2012 the European Society of Radiology will for the third time hold a European Diploma in Radiology examination. It will take place on Monday, March 5, in the EPOS Area on the 2nd level, in the form of electronic-based written and case-based oral examinations. Success in the examination will certify a standard of radiological knowledge deemed appropriate by the ESR for independent practise in General Radiology. See page 49.

Link: www.myESR.org/diploma

**ExamIM**
ExamIM is kindly supported by Hewlett-Packard and ECR 2012.

**Expo Gallery**
Please visit the EURORAD Booth close to Foyer E on the entrance level.

**Face-Off Session**
See Post Processing Face-Off Session.

**Foundation Course**
This basic teaching course, which will take place under the heading of E³ — European Excellence in Education, in room E2 on the entrance level, is designed to be suitable for trainees and for those who wish to refresh their knowledge. The motto of the course is ‘All you need to know about ultrasound in 18 easy lessons. This course answers your questions!’

The course will be concluded with a self-marking electronic examination that will allow the participants to assess what they have learned. The self-assessment test will take place in the EPOS™ area on Saturday, March 3, 12:15–13:15.

The presentation material will be available at EDIPS Download (http://edips-download.myESR.org) after the congress.

Course places will be allocated on a first-come, first-served basis. Please refer to page 129 for the course programme.
Computer terminals with internet connections are available both on the 1st level and on the 2nd level integrated into the EPOS™ Lounge, and can be used for multiple purposes. Delegates can compile their personal session itineraries using the Interactive Programme Planner, send e-mails and browse the World Wide Web.

The Image Interpretation Quizzes are two traditional highlights of every ECR. This year’s themes are ‘Let’s interpret with the experts’ and ‘Mediterranean sun vs Northern lights’ (see page 55).

ESR and the Austria Center Vienna are free from all liabilities that may arise from the delegates’ and presenters’ participation in ECR 2012 and its activities.

Lost and Found articles may be picked up at the ACV Information Desk located in the entrance area.

The Meditation & Prayer Room is located on the lower level in Foyer G/H. You will find it marked on the floor plan.

Meeting Rooms at ECR 2012 are to be found on:
- 3rd Level Meeting Rooms 1–9
- 2nd Level Meeting Rooms 14–16, 18
- 1st Level Meeting Room 10
- Lower Level Meeting Rooms 11–13

You will find them marked on the floor plans.

Please contact the Info Service Desk on the 3rd level for access to and onsite booking of meeting rooms.

For membership application and renewal, please contact the Registration Desks in the entrance hall.

Two new Mini Courses, ‘Molecular Imaging’ and ‘Controversies in Abdominal Imaging’, are presented at ECR 2012. ‘The Beauty of Basic Knowledge: Interpretation of the Chest Radiograph’ and the joint course of ESR and RSNA ‘Essentials in Oncologic Imaging: What Radiologists Need to Know’ are repeated from last year. The ‘Organs from A to Z’ series, introduced at ECR 2010, will this year focus on the lung.

The course on abdominal imaging, the course on the chest radiograph and the ESR/RSNA course sessions will be interactive with electronic voting/self assessment. The presentation material will be available at EDIPS Download (http://edips-download.myESR.org) after the congress.

As the number of participants of the chest course is restricted, pre-registrations have been arranged. Places for the other courses will be allocated on a first-come, first-served basis. Please refer to pages 108–110 for the courses’ programmes.

Free Publications
Prolonging another successful initiative, ESR again presents the ‘Free Publications’ Booth located on both the 1st level and on the 2nd level integrated into the EPOS Lounge. Pick up your free copies of radiology journals and magazines and get free access to online radiology journals! Free bags are provided for your convenience.

Future Meetings Desk
This area – located on the lower level next to Rooms D1 and D2 – offers you an overview of future meetings in the field of radiology and related disciplines, from all over the world. Feel free to contribute flyers and posters to promote your own meetings and courses.

Hands-On Workshops
See Update Your Skills (Practical Courses).

IMAGINE
See EIBIR presents IMAGINE.

‘Insights into Imaging’
Inform yourself about ESR’s online journal Insights into Imaging at a dedicated booth close to Foyer E on the entrance level. You will find your personal copy of the special ECR 2012 print issue in your congress bag.
See page 71.

Industry Hands-On Workshops
At ECR 2012 there are various Industry Hands-On Workshops scheduled, organised by aycan, GE Healthcare, Hologic, iCAD, Invivo International/Philips, Samsung Medison and Siemens Healthcare.
See pages 144–146 for details.

Interactive Programme Planner
The ESR is proud to present again this popular interactive tool for ECR 2012. As an update of the established Scientific Programme Planner, the IPP provides a convenient way to explore and customise the congress programme online, in both traditional browser and mobile device versions.

Featuring various search and browse functions for sessions as well as posters, the IPP also includes a ‘basket’ option, which enables users to collate items from the programme to create their own personal calendar and even print a personalised Book of Abstracts.
Link: ipp.myESR.org

Interactive Teaching Sessions
Under the heading of E³ – European Excellence in Education, ECR 2012 presents 14 interactive teaching sessions dealing with specific topics of common radiological problems, emergencies, imaging of cancer and infections, establishing a two-way interaction between the presenters and the participants.

The material will be presented in an interactive way with audience participation and self assessment by use of an electronic voting system (key-pads).
Places will be allocated on a first-come, first-served basis.
Please refer to page 130 for the programme of the sessions.
Preview Centre – EDIPS
EDIPS, ECR’s digital preview system, allows for fast and easy presenter identification through badge scanning. Big screens in the waiting area display the names of the presenters asked to proceed to the Check-In counter where they hand in their presentations. At the Preview Stations, presenters have the opportunity to do a final check on their presentations. Again, for this year, presenters were offered the option of submitting their material prior to the congress.

The Preview Centre is located on the 1st level, next to Room N/O.

Opening hours:
Wednesday, February 29: 12:00–18:00
Thursday, March 1 to Monday, March 5: 07:00–18:00

Please note that only digital material will be allowed for oral presentations.

The material must be in English and must be provided on CD-ROM, DVD, ZIP disk or USB devices so that it can be transferred to a central server onsite. It is mandatory that the data carriers are delivered to the audiovisual preview centre 2 hours prior to the session, at the latest. Computers connected to data projectors are provided in each lecture room for the speaker to retrieve the saved data.

The material remains the property of the speakers. The presentations will be shown electronically after the congress at EDIPS Download (http://edips-download.myESR.org).

Professional Challenges Sessions
The concept of these sessions is to communicate and exchange issues on radiological training and education, research networking, radiological management and professional developments. This year’s topics are ‘Diagnosis of inflammatory conditions’ (joint session of ESR and EANM), ‘An epidemic spreading from West to East: medico-legal challenges for radiologists’ and ‘Upcoming challenges in radiation protection’ (joint session of ESR and ICRP).

Places will be allocated on a first-come, first-served basis. Please refer to page 102 for the sessions’ programme.

Publishers Row (1st level) & Partner Publishers (entrance level)
Tickets for public transportation are available at the ESR Travel Service Desk in the entrance area.

Special ECR Ticket:
5 days (valid from March 1–5): € 16.00

Metro map; see page 73.

Browse through a wide range of scientific publications displayed by the most important publishers in the medical field.

Opening hours:
Thursday, March 1: 14:00–18:00
Friday, March 2 to Monday, March 5: 10:00–17:30

For the first time ever, the ESR Subcommittee on Management in Radiology has organised a special session at ECR. It is called ‘Radiology in an Age of Austerity – Trends in Communication, Management and Economy’ and will take place on Saturday, March 3, 13:00–18:00 in Room Q. See page 59.

Mobile Guide
Get ECR on your smartphone and always stay up to date! The ECR Mobile Guide brings ECR 2012 to the palm of your hand. Find out all about sessions/lectures, abstracts, exhibitors, floor plans and places to be.

Link: m.myESR.org

Multidisciplinary Sessions: Managing Patients with Cancer
The concept of these sessions is to promote a multidisciplinary approach for cancer detection and treatment, integrating radiologists, surgeons and oncologists to share their expertise.

The topics that are covered this year are: pancreatic tumours, lymphoma and breast cancer.

Please refer to page 103 for the programme of the sessions.

New Horizons Sessions
The aim of the New Horizons Sessions is to provide practitioners with an overview of the new developments in a specific area of practice e.g. specialty, technique, or disease. These developments may become routine within a few years, or may indicate a new direction for research and clinical application. Three New Horizons Sessions on ‘Liver imaging: reality and virtuality’, ‘Ablation beyond radiofrequency’ and on ‘New insight into vascular wall’ will be presented at ECR 2012. Session places will be allocated on a first-come, first-served basis. Please refer to page 98 for the programme of the sessions.

Plenary Sessions
See page 53.

Post Processing Face-Off Session

The aim of this session is to simulate a realistic ‘reading room’ atmosphere and to give an impression of how different workstations perform in a clinical scenario. We would like to cordially invite you to attend this exciting ‘tourney’ of post processing (see page 133).
Information from A–Z

Scientific Presentation Awards
The authors of the best scientific papers and scientific/educational exhibits will be presented a certificate and free ECR 2013 registration.

Scientific Papers
The award will be assigned to the best paper presentation of each topic based on the evaluation by session moderators, subcommittee members and session participants. Selection criteria will comprise quality of presentation, scientific content and overall impression of the performance.

The award winners will be informed after the congress and will be published on the ESR website.

Scientific/educational exhibits
See page 60 (Scientific Exhibition Awards).

Security / Safety
The safety of all congress attendees is of utmost importance to the European Society of Radiology. The Austria Center Vienna and ESR have taken security precautions to ensure the maximum possible safety for all ECR participants. Please inform our staff, especially our room attendants, immediately if security problems occur.

ESR reserves the right to check your identification upon admission to the congress centre and/or inside the building. You may be asked at any time to present adequate proof of identity by showing your passport, driver’s licence, national or military identification, or student ID, all with photograph and signature.

Smoking
Smoking is not permitted inside the Austria Center Vienna. ECR is a non-smoking congress. Outside the building, we kindly ask you to use the ashtrays provided. In addition, there is a dedicated smokers’ area on the right side of the main building. Please note that in front of the main entrance smoking is prohibited.

Society Booths
Up to 50 national and international radiological societies present their meetings and societies in the society booths area, which is located on the entrance level, next to the registration desks and the coat checks.

Special Assistance
Delegates with special needs may park on the lower level as well as on the square in front of the main entrance, where wheelchair access is possible. All lecture rooms are accessible by wheelchair.

Special Exhibition
In compliance with ECR’s tradition of offering its delegates an ambitious supporting programme at the annual congress, ECR is again proud to present an exhibition by Prof. Vogel from Hamburg/DE, in cooperation with the German Röntgenmuseum. This year’s exhibit is entitled Post-Mortem Imaging and is presented on the 2nd level, next to the EPOS™ Lounge. See page 69.

Radiology Trainees Forum (RTF)
RTF promotes and coordinates the efforts of radiology trainees at a European level in order to improve the progress of radiology and related sciences. One of RTF’s most important goals is to provide an equal level of radiological knowledge and skills for radiology trainees all over Europe.

‘Highlighted Lectures’ organised by RTF will be given on Friday, March 2, 14:00–15:30 in Room Q (see page 134).

The RTF General Assembly will be held on Saturday, March 3, 10:00–11:30, Meeting Room 5 (3rd level). For more detailed information please visit the RTF Meeting Point in the Rising Stars Lounge (Foyer B, 2nd Level).

Recording / Photography
Video or audio recording of presentations is not allowed without the speaker’s/exhibitor’s and ECR’s prior permission. Flash photography is not permitted during presentations. Interviews must take place outside the lecture room. For queries, please contact the ESR Press Office.

Refresher Courses
75 Refresher Courses have been organised by the various scientific subcommittees for ECR 2012. Based on the topic of the session, some refresher courses will be presented in an ‘integrated’ format with an organised panel discussion, similar to Special Focus Sessions.

Places will be allocated on a first-come, first-served basis.

Please refer to pages 111–127 for the programme of the sessions.

Registration Opening Hours

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
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<tbody>
<tr>
<td>Wednesday, February 29</td>
<td>10:00–18:00</td>
</tr>
<tr>
<td>Thursday, March 1:</td>
<td>07:00–18:00</td>
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<td>Friday, March 2:</td>
<td>07:00–18:00</td>
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<td>Saturday, March 3:</td>
<td>07:00–18:00</td>
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<td>Sunday, March 4:</td>
<td>07:00–18:00</td>
</tr>
<tr>
<td>Monday, March 5:</td>
<td>07:00–18:00</td>
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Restaurant Reservations
Our staff at the Dining & Shopping Desk in the entrance hall will be pleased to recommend places to eat close to your hotel or near a certain theatre, and will be happy to reserve a table of your choice.

Rising Stars Lounge / Residents & Students Lounge
After the huge success in previous years there will again be a dedicated Residents and Students Lounge at ECR 2012 under the name ‘Rising Stars Lounge’, located on the 2nd level, Foyer B. Free water and apples will be distributed.

Satellite Symposia
Industrial Satellite Symposia have been organised by international companies. Attendance at these symposia will be certified – on condition that the relevant completed evaluation form has been received by the organisation. Places will be allocated on a first-come, first-served basis.

See pages 139–143 for details.
**Special Focus Sessions**

The concept of a Special Focus Session is to deal with a topic at the cutting edge of development and clinical application. A traditional didactic approach is inappropriate for such a session, which should reflect the lecturer’s forthright personal views on a developing subject. The topics of these sessions should be presented in such a way as to promote debate and to give an in-depth analysis. The chairman will introduce each aspect of the topic and the panellists will then discuss their different perspectives and opinions. The audience will have the opportunity to discuss their ideas with the lecturers. Places will be allocated on a first-come, first-served basis. Please refer to pages 100–101 for the programme of the sessions.

**State of the Art Symposia**

These sessions will inform the audience about the ‘real state of the art’ of a given subject. Each of the lecturers is an expert on the topic as a whole or on some specific aspect of the topic, which will be the subject of the respective session. The presentations will be followed by a discussion conducted by the panellists, led by the chairman. Places will be allocated on a first-come, first-served basis. Please refer to page 99 for the programme of the sessions.

**Students’ Sessions**

At ECR 2012, for the second time after last year’s success, students have the chance to present their own abstracts in front of a huge audience. The best 20 abstract submitters were invited to Vienna to present their work in dedicated sessions. See page 57.

**Studio 2012**

For the first time ever, ECR presents a new kind of lecture hall, especially equipped for panel discussions and interactive sessions. Studio 2012 is located on the 1st level.

**Taxi**

There is a taxi stand outside the main entrance. To call a taxi, please dial (+43 1) 40 100.

**Technical Exhibition**

**Opening hours:**

**EXPO Halls and EXPO Foyer D**

<table>
<thead>
<tr>
<th>Days</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Friday, March 2 to Sunday, March 4</td>
<td>10:00–18:00</td>
</tr>
<tr>
<td>Monday, March 5</td>
<td>10:00–14:00</td>
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</table>

**First Level (Gallery)**

<table>
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<tr>
<th>Days</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Thursday, March 1 to Sunday, March 4</td>
<td>10:00–18:00</td>
</tr>
<tr>
<td>Monday, March 5</td>
<td>10:00–17:30</td>
</tr>
</tbody>
</table>

Detailed information on the Technical Exhibition can be found in the ‘On-Show exhibition guide – Exhibitor Directory and Product Information’, which will be distributed together with the congress bags.

**Travel Service**

ESR and ECR are proud to offer their delegates a series of services that should facilitate their travel arrangements and make their stay in Vienna as pleasant as possible. ESR’s Travel Service Desk is located on the entrance level of the Austria Center Vienna. Next to it you can find ECR’s official travel agency Mondial.

**Opening hours:**

<table>
<thead>
<tr>
<th>Days</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Wednesday, February 29</td>
<td>10:00–18:00</td>
</tr>
<tr>
<td>Thursday, March 1</td>
<td>08:00–18:00</td>
</tr>
<tr>
<td>Friday, March 2 to Monday, March 5</td>
<td>07:00–18:00</td>
</tr>
</tbody>
</table>

**Air Travel**

The Austrian Airlines desk in the entrance area offers the following services for Austrian Airlines and Star Alliance flights:

**Ticket office & Check-in services:**

<table>
<thead>
<tr>
<th>Days</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Friday, March 2 to Monday, March 5</td>
<td>09:00–18:00</td>
</tr>
</tbody>
</table>

- Check-in for Star Alliance flights
- Issuance of boarding pass

**At Vienna Airport**

- Check-in for Star Alliance flights with hand-baggage only; deadline: latest passengers to show up at the respective boarding gate at Vienna Airport according to boarding time shown on boarding pass
- Check-in for Star Alliance flights (except flights to Tel-Aviv and USA) with baggage; deadline: latest passenger to show up with baggage at the Baggage Drop Off Counters / Terminal 1 at Vienna Airport 45 minutes before departure.

**Update Your Skills (Practical Courses)**

The following Update Your Skills (Practical Courses) are presented at ECR 2012:

- Image-Guided Breast Biopsy: How to do it
- US of the Lower Limb: Groin to Calf

The number of participants of each workshop is restricted. Please refer to pages 136–137 for the courses’ programmes.

**Wireless LAN**

Free wireless LAN access is available all over the congress venue.
Boost your career.
Take the ESR Diploma!

Next dates:
May 24, 2012: Granada, Spain
June 30, 2012: Dubrovnik, Croatia

myESR.org/diploma

Organised by the European Board of Radiology (EBR) under the auspices of ESR.
General Information
Each ECR delegate receives confirmation of all activities attended (CME confirmation – Record of attendance). The approximate maximum number of hours of scientific activity attendance is 40 (please note that this number differs from the maximum number of UEMS/EACCME credits).

CME Accreditation

Europe
The following European countries accept the ECR 2012 CME accreditation:
➔ Austria*
➔ Azerbaijan
➔ Belgium
➔ Bulgaria
➔ Croatia
➔ Cyprus
➔ Czech Republic
➔ Denmark
➔ Estonia
➔ Finland
➔ France
➔ Georgia
➔ Germany**
➔ Greece
➔ Hungary
➔ Iceland
➔ Ireland
➔ Italy
➔ Latvia
➔ Lithuania
➔ Luxembourg
➔ Malta
➔ Netherlands
➔ Norway
➔ Poland
➔ Portugal
➔ Romania
➔ Slovakia
➔ Slovenia
➔ Spain
➔ Sweden
➔ Switzerland***
➔ Turkey
➔ United Kingdom

* The ESR is an accredited CME provider of the Austrian Medical Chamber.
** The Austrian Medical Chamber has granted a maximum of 40 DFP (Diplom-Fortbildungs-Programm der Österreichischen Akademie der Ärzte) credits for ECR 2012.
*** The German Society of Radiology (DRG) has granted a minimum of 27 Category 1-credits for ECR 2012. The actual number of credits granted will depend on the respective German State Chamber of Physicians (Landesärztekammer) and can be accordingly higher.

UESM
The ESR – European Society of Radiology is accredited by the European Accreditation Council for Continuing Medical Education (EACCME) to provide the following CME activity for medical specialists. The EACCME is an institution of the European Union of Medical Specialists (UEMS).
The ECR 2012 is designated for a maximum of 27 hours of European external CME credits. Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity. European Accreditation is granted by the EACCME in order to allow participants to validate the credits obtained at this activity in their home European Country.

USA
Due to an agreement of mutual recognition the American Medical Association (AMA) will convert European continuing medical education (CME) credits to AMA PRA Category 1 Credits™. For further information about the conversion of European credits into AMA PRA Category 1 credits, please contact the AMA at pra@ama-assn.org or visit the AMA website.

Worldwide
CME claimed at the ECR are accepted by almost all national CME authorities worldwide.

CME Acquisition Procedure
CME (continuing medical education) credits will only be award-ed, if
• the questionnaire provided at the entrance of each session is fully completed,
• your unique personal CME sticker, which you will receive together with your badge, is affixed,
• and the form is dropped into the provided box immediately after the relevant scientific session.
The combined participation and evaluation questionnaire considerably helps the next organising committee to select subjects for future ECRs. Evaluation sheets differ depending on the types of the scientific event.
Please note that confirmation of any additional attendance of the scientific programme, for which you have not submitted an evaluation form during the congress, cannot be claimed at a later date as late requests cannot be processed and can thus not be included in your record of attendance.
**Guidance**

Confirmation of participation in the scientific programme is to be obtained as follows:

**Scientific Sessions**
1. Participate in the event of your interest.
2. Personalise the relevant questionnaire (evaluation form) using your CME sticker, since otherwise it is not possible to sort out the forms afterwards and to provide confirmation.
3. Fill in this form completely during the session.
4. Drop the completed form into the box provided at the exit of the room when leaving the session.

**Scientific Exhibition**
Attendance and evaluation are recorded online in EPOS™.
1. Enter EPOS™ (Electronic Presentation Online System) and view the posters of your interest. When logging out from EPOS™, you will be asked to complete the evaluation form.
2. Fill in this form completely and press the 'Submit' button. A maximum of 3 hours of attendance at the scientific exhibition (SE) will be listed if the participant has completed and submitted the online SE evaluation form using EPOS™.

**CME Confirmations**
Every participant will be able to view and print his/her personal record of attendance from the internet at the MyUserArea on the condition that the above mentioned procedures have been accomplished. This service is already available onsite at the numerous computer terminals and at the registration desk. Please note that your Personal ID, printed on your badge, is required for login. The printout of your record will be recognised by the national accreditation society upon submission. Please note that the record of attendance will be issued only to the participant. It will not be supplied to any accreditation agency or other organisation/health authority.

After the congress CME certificates will still be available online. To show and print your CME certificates after the congress, please log into the MyUserArea with your last name and Personal ID. Although participants may partially attend multiple concurrent sessions, the total number of hours printed at the end of the list limits the credit to the equivalent of a single session during that time slot.

For further information, please contact the ECR CME Support at cme@myESR.org.
Information from A–Z

ESR Meets Sessions

Friday, March 2, 10:30–12:00, Room A
ESR meets Italy
EM 1: From morphology to function
Presiding: L. Bonomo; Rome/IT
A. Rotondo; Naples/IT

• Introduction:
  Italian Society of Radiology (SIRM) in the third millennium [A-107]
  A. Rotondo; Naples/IT

• Outlook and clinical perspectives of MDCT coronary angiography [A-108]
  M. Galia; Palermo/IT

• Interlude: Imaging of the skeletal muscle pathology after the 2006 Winter Olympic Games [A-109]
  C. Faletti; Turin/IT

• Experimental study with 7T-micro MRI:
  in vivo rat model of intestinal infarction [A-110]
  R. Grassi; Naples/IT

• Interlude: Reasons to come to the 45th SIRM National Congress [A-111]
  C. Faletti; Turin/IT

• MR contrast agents for liver imaging [A-112]
  A. Giovagnoni; Ancona/IT

• Panel discussion

Friday, March 2, 16:00–17:30, Room C
ESR meets Radiation Oncologists
EM 2: Imaging and tailored radiation therapy in rectal cancer
Presiding: L. Bonomo; Rome/IT
V. Valentini; Rome/IT

• Chairmen’s introduction [A-140]
  L. Bonomo; Rome/IT
  V. Valentini; Rome/IT

• Treatment-oriented staging [A-141]
  G. Brown; Sutton/UK

• Treatment tailored according to staging [A-142]
  K. Haustermans; Leuven/BE

• Response evaluation by imaging [A-143]
  R.G.H. Beets-Tan; Maastricht/NL

• Treatment of rectum cancer tailored according to longitudinal imaging and multifactorial predictors [A-144]
  G. Lammering; Maastricht/NL

• Panel discussion

Saturday, March 3, 10:30–12:00, Room B
ESR meets Egypt
EM 3: Oncologic imaging and paleoradiology in Egypt: the past, present and future
Presiding: M. Abdel Wahab; Cairo/EG
L. Bonomo; Rome/IT

• Introduction [A-238]
  M. Abdel Wahab; Cairo/EG

• Imaging of urinary bladder cancer [A-239]
  T. El-Diasty; Mansoura/EG

• Interlude: Imaging of urinary diversion [A-240]
  S. Hanna; Cairo/EG

• MDCT of Royal Egyptian Mummies: secrets unveiled [A-241]
  A. Selim; Cairo/EG

• Interlude: Ancient Egyptian medicine [A-242]
  S. Hanna; Cairo/EG

• Interventional management of HCC: Egyptian experience [A-243]
  A. El-Dorry; Cairo/EG

• Interlude: Discover Egypt’s charm [A-244]
  S. Hanna; Cairo/EG

• Egyptian women’s health outreach programme: yesterday, today and tomorrow [A-245]
  D. Salem; Cairo/EG

• Panel discussion

Sunday, March 4, 10:30–12:00, Room B
ESR meets Romania
EM 4: Oncology imaging: breast and liver
Presiding: L. Bonomo; Rome/IT
G. Iana; Bucharest/RO

• Introduction: Romanian radiology today [A-365]
  G. Iana; Bucharest/RO

• Hepatic nodules in cirrhosis [A-366]
  I.G. Lupescu; Bucharest/RO

• Intervventional treatment in liver malignancies [A-368]
  B. Popa; Bucharest/RO

• Interlude: Ten reasons to see Romania [A-369]
  D. Negru; Iasi/RO

• Imaging and guided biopsy in breast malignancies [A-370]
  M. Lesaru; Bucharest/RO

• Panel discussion
<table>
<thead>
<tr>
<th>Date</th>
<th>Session</th>
<th>Details</th>
</tr>
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<tbody>
<tr>
<td>Thursday, March 1, 17:45–19:15, Room A</td>
<td>Opening Ceremony</td>
<td>Musical entertainment by ‘Il Falcone’ – Ensemble di Musica Antica</td>
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<tr>
<td></td>
<td>Welcome Addresses</td>
<td>András Palkó; Szeged/HU ESR President</td>
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<tr>
<td></td>
<td></td>
<td>Lorenzo Bonomo; Rome/IT ECR 2012 Congress President</td>
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<tr>
<td></td>
<td>Opening Ceremony</td>
<td>Arcimboldo in the service of natural science</td>
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<td>Sylvia Ferino-Pagden; Vienna/AT</td>
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<tr>
<td>Friday, March 2, 12:15–13:10, Room A</td>
<td>Presentation of the ESR Gold Medal Award</td>
<td>Presentation of the ESR Gold Medal Award to</td>
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<td></td>
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<td>Christian J. Herold; Vienna/AT</td>
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<td></td>
<td></td>
<td>Hedvig Hricak; New York, NY/US</td>
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<td>Iain W. McCall; Oswestry/UK</td>
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<td>Małgorzata Szczerbo-Trojanowska; Lublin/PL</td>
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<td></td>
<td>Josef Lissner Honorary Lecture</td>
<td>‘The pulmonary nodule: old and new challenges’</td>
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<td></td>
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<td>Cornelia M. Schaefer-Prokop; Amersfoort/NL</td>
</tr>
<tr>
<td>Saturday, March 3, 12:15–13:00, Room A</td>
<td>Antonio Chiesha Honorary Lecture</td>
<td>‘Small is beautiful! The voyage of head and neck imaging into the future’</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Roberto Maroldi; Brescia/IT</td>
</tr>
<tr>
<td>Saturday, March 3, 14:00–15:30, Room A</td>
<td>Image Interpretation Quiz</td>
<td>Let’s interpret with the experts</td>
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<tr>
<td></td>
<td></td>
<td>Moderator: Riccardo Manfredi; Verona/IT</td>
</tr>
<tr>
<td>Sunday, March 4, 12:15–12:45, Room A</td>
<td>Wilhelm Conrad Röntgen Honorary Lecture</td>
<td>‘In search of venous thromboembolism: the first 2,912 years’</td>
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<tr>
<td></td>
<td></td>
<td>Lawrence R. Goodman; Milwaukee, WI/US</td>
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<tr>
<td>Sunday, March 4, 13:00–14:00, Room A</td>
<td>Junior Image Interpretation Quiz</td>
<td>Mediterranean sun vs Northern lights</td>
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<tr>
<td></td>
<td></td>
<td>Moderator: Anagha P. Parkar; Bergen/NO</td>
</tr>
</tbody>
</table>
myESR, @myESR & #ECR2012

Do you use Facebook, Twitter, or Google+? Then enhance your ECR 2012 with social media and share your experience with all of us. Share your favourite sessions and tweet your tips! Here’s how:

myESR Facebook Page | facebook.com/myESR

Full congress coverage, daily photo uploads, daily news, competitions and much more. If you have photos or tips for the myESR community, post them on our wall!

ECR 2012 Facebook Event

Since you’re attending ECR 2012, it’s time to update your Facebook Timeline and RSVP on the official Facebook event.

myESR Twitter | twitter.com/myESR

Get the latest and hottest news live from the congress. Follow @myESR and tweet at us to let us know you are here.

Tweeting about ECR? Using Google+? Here are the official hashtags:

General: #ECR2012 ESR Rising Stars: #ESRRisingStars

Tweeting about a particular session or room:
add the room letter to the hashtag:
#ECR2012A, #ECR2012B, #ECR2012Studio, etc.
and add a simplified presentation or session number:
e.g.: A-123 ➤ #A123 or SF 4 ➤ #SF4

ECR 2012 Party: #ECRParty Rising Stars Party: #RSParty

Check in at ECR: Facebook Places & Foursquare

Look out for the official venues and check in!

Conrad | facebook.com/ESRConrad

Our ambassador will also be busy during the congress. Want to see a more personal view of the ECR in your Stream? Connect with Conrad on Facebook!

Communication at ECR 2012

Bring all ECR 2012 social media activity together in one place by using our ECR Social Media Wall. The wall will collect posts and tweets in one convenient stream, which will be visible to participants throughout the congress venue. But you can also access it from anywhere, whether you’re at the congress venue, in your hotel, or at home, using your laptop or smartphone, or our internet terminals.

ECR goes to ... 

Your colleagues can also join you at the ECR, online and live via our video and social media stream. Sessions in the three main lecture rooms will be streamed for free; just visit the myESR.org homepage. And don’t forget to subscribe to our YouTube channel: www.youtube.com/myESR

Want more? Add our other pages to your stream:

ESR Rising Stars: facebook.com/ESRRisingStars
Insights into Imaging: facebook.com/Insights.into.Imaging
European Radiology: facebook.com/EurRadiol
European Diploma in Radiology: facebook.com/EuropeanDiplomaInRadiology
ESOR: facebook.com/EuropeanSchoolofRadiology

Social Media is your passion?

We are planning to extend our social media activities and we are now looking for radiologists with a passion for Facebook/Twitter to support our team. A trip to ECR 2013, including flights, hotel, and registration, awaits the right candidate. Tweet at us with #ESRsocial and show us your enthusiasm.
The Image Interpretation sessions, two traditional highlights of every ECR, provide both education and entertainment. Two panels of distinguished radiologists will share their knowledge and diagnosis strategies with you.

The slogan for this year’s ‘senior’ quiz is ‘Let’s interpret with the experts’. Radiologists will challenge each other in an enjoyable and exciting competition where they will face some tricky cases. The session will be presented interactively and e-voting units will be provided to the audience.

In the ‘junior’ quiz, with its theme ‘Mediterranean sun vs Northern lights’, the panellists will compete with each other in teams. While solving a variety of cases, the moderator will guarantee a scientifically challenging and entertaining session.

**Saturday, March 3, 14:00–15:30, Room A**

**Image Interpretation Quiz**

**Let’s interpret with the experts**

**Moderator:** R. Manfredi; Verona/IT

**Panellists:**

**Team 1:**

S. Bisdas; Tübingen/DE  
C. Dromain; Villejuif/FR  
M. Maas; Amsterdam/NL  
E.J. Stern; Seattle, WA/US

**Team 2:**

B. Gómez-Ansón; Barcelona/ES  
H. Prosch; Vienna/AT  
F.M.H.M. Vanhoenacker; Antwerp/BE  
J. Votrubová; Prague/CZ

**Sunday, March 4, 13:00–14:00, Room A**

**Junior Image Interpretation Quiz**

**Mediterranean sun vs Northern lights**

**Moderator:** A.P. Parkar; Bergen/NO

**Panellists:**

**Mediterranean sun:**

B. Akpınar; Ankara/TR  
R. Inchingolo; Rome/IT  
C. Ruivo; Coimbra/PT

**Northern lights:**

T. Hulkko; Rovaniemi/FI  
M. Mejlænder-Larsen; Oslo/NO  
J. Sharkey; Edinburgh/UK

**Referees:**

B. Marincek; Cleveland, OH/US  
M. Szczerbo-Trojanowska; Lublin/PL
Free ECR Student Registration
Students under the age of 30, without an academic degree, can register completely **free of charge**.

Student Sessions
The submitting authors of the 20 best student abstracts have been invited to Vienna to present their work, with their accommodation and travel expenses paid, courtesy of the European Society of Radiology.

Rising Stars Lounge
We want all students and residents to feel at home at the ECR, which is why we have organised the exclusive Rising Stars Lounge, located on the 2nd level in Foyer B.

Rising Stars Party
On March 1, 2012 the ESR Rising Stars Party is taking place at the legendary ‘Diskothek U4’ – Tickets will be available at the Travel Service Desk in the entrance hall. Meet friends and make new ones.

NEW! Students Hands-on Workshops

NEW! Basic Sessions for Students, Residents and Radiographers in Training at ECR 2012
Basic Sessions

Friday, March 2, 08:30–10:00, Studio 2012
Basic Session on Cardiac Radiology
- Cardiac imaging: normal anatomy and variants [BS-1]
  H.U. Ebersberger; Munich/DE
- Cardiac morphology and function: imaging techniques [BS-2]
  U.J. Schoepf; Charleston; SC/US
- Is the stethoscope dead? The role of cardiac imaging in clinical patient management [BS-3]
  R. Vliegenghart; Groningen/NL

Friday, March 2, 10:30–12:00, Studio 2012
Basic Session on Neuroradiology
- Imaging of the cranial nerves [BS-4]
  J.H. Gillard; Cambridge/UK
- The ageing brain [BS-5]
  B. Gomez-Anson; Barcelona/ES
- Is the Circle of Willis a circle? [BS-6]
  H.R. Jäger; London/UK

Friday, March 2, 14:00–15:30, Studio 2012
Student Session 1
- The lady with the x-ray eyes [H-1]
  T.G. Teneva; Varna/BG
- The future of radiology [H-2]
  V. Kopitkovs; Riga/LV
- Image reading simulator [H-3]
  K. Kovác; Debrecen/HU
- Robotic science, a future medicine within [H-4]
  J. Young Heu; Seoul/KR
- Radiologist 2052 [H-5]
  M.C. Bercea; Cluj-Napoca/RO

Friday, March 2, 16:00–17:30, Studio 2012
Student Session 2
- Outlook of radiology 2052: risks, challenges, and opportunities [H-6]
  A. Arena; Como/IT
- Subspecialties and unity of radiology [H-7]
  K. Khoutri Chalouhi; Settala/IT
- A view into the future of cancer treatment [H-8]
  M. Izotovs; Jurmala/LV
- Molecular imaging: a great chance for radiology [H-9]
  F. Seker; Mannheim/DE
- Delicate totality [H-10]
  A. Lice; Riga/LV

Saturday, March 3, 08:30–10:00, Studio 2012
Student Session 3
- Development trends and future perspectives in vascular diagnostics [H-11]
  F. Rozikhodjaeva; Tashkent/UZ
- A letter to myself between science, technology and human beings [H-12]
  M. Brambati; San Donato Milanese/IT
- An illuminating blunder [H-13]
  I. Merli; San Donato Milanese/IT
- Radiology as seen by Romanian medical students: guidelines for the future [H-14]
  I.S. Margineanu; Iasi/RO
- Imaging professionals of the future: how can tasks be distributed? [H-15]
  J. Lackó; Debrecen/HU

Saturday, March 3, 10:30–12:00, Studio 2012
Student Session 4
- Radiologic diagnostics and surgical management tactics of craniosynostosis [H-16]
  U. Poznaka; Riga/LV
- MR image quality and correction methods [H-17]
  W. Alsharif; Dublin/IE
- Flow phenomena – A case study of time of flight imaging [H-18]
  A. Rácz; Budapest/HU
- eReader usage in education [H-19]
  N. Zdanovskis; Daugavpils/LV
- Impact of robust image processing to reduce errors in computational haemodynamics [H-20]
  A. Joao; Lisbon/PT

Sunday, March 4, 08:30–10:00, Studio 2012
Basic Session on Musculoskeletal Radiology
- Cartilage imaging [BS-7]
  S. Trattnig; Vienna/AT
- MR – Anatomic Correlation [BS-8]
  F.M. Buck; Zurich/CH
- Ultrasound of the musculoskeletal system [BS-9]
  E.G. McNally; Oxford/UK

Student Sessions

Friday, March 4, 12:30–13:30, Studio 2012
Final Student Session
The best student presenter will receive an award from the ESR.

Hands-on Workshops for Students

For the first time ever, hands-on workshops exclusively for students will be held at the ECR.
An expert team of tutors will lead the students through the workshops, which will include six different workstations to give every participant the chance to familiarise themselves with the wide range of possibilities with ultrasound.

- Workshop 1: Thursday, March 1, 15:30–17:30
- Workshop 2: Saturday, March 3, 15:30–17:30
- Workshop 3: Sunday, March 4, 10:00–12:00
- Workshop 4: Sunday, March 4, 15:30–17:30

All workshops take place in room Y (1st level).

Registration:
These workshops are all fully booked. Places may become available at short notice onsite.
Get involved in the EIBIR network

Benefits for EIBIR’s Network Members

- International exchange of know-how and interactions in biomedical imaging research
- Support in development of project ideas
- Ability to influence and frame an issue within your own area of expertise on a European level
- Support in proposal writing, project management, meeting/workshop organisation, dissemination
- Information on hot topics in biomedical imaging
- Access to EIBIR’s restricted online members’ directory

www.eibir.org
Welcome and Opening Remarks
Yves Menu; Paris/FR
Peter Mildenberger; Mainz/DE

13:00
13:15

EHealth
Moderators: Jan Schillebeeckx; Bonheiden/BE
Davide Caramella; Pisa/IT

• Teleradiology and eHealth – the ESR perspective
  Jan Schillebeeckx; Bonheiden/BE
  MIR Board, ESR Representative for eHealth

• International Teleradiology – is multilingual reporting essential?
  Peeter Ross; Tallinn/EE
  Estonian eHealth Foundation

• National eHealth Strategy – the Canadian Experiences
  David Koff; Hamilton, ON/CA
  CAR and Canada Health Infoway

• Empowerment of patients with personalised image sharing – extending IHE
  David Mendelson; New York, NY/US
  IHE International Chair

• eHealth – the European perspective
  Pēteris Zilgalvis; Brussels/BE
  ICT for Health Unit, Head of Unit

• Discussion
• Break (25 min)

15:30

Communication with our Partners
Moderators: Jane Adam; London/UK
Lorenzo Derchi; Genoa/IT

• Computerised physician order entry and decision support – clinical value
  Charles Kahn; Milwaukee, WI/US
  RSNA Reporting Committee; ARRS President elect

• Communication of urgent and unexpected findings
  Maurizio Centonze; Trento/IT
  ESR Subcommittee on Audit and Standards

• Implications of reporting infrastructure – general reading room vs. individual offices
  Nicola Strickland; London/UK
  RCR Registrar

• Discussion
• Break (10 min)

16:45

Managing Radiology
Moderators: Jarl Jakobsen; Oslo/NO
Elisabeth Schouman; Paris/FR

• Imaging and benchmarking. Implications for radiology
  Elisabeth Schouman; Paris/FR
  MIR Board

• The added value of in-house radiological IT
  Jarl Jakobsen; Oslo/NO
  MIR Board

• Risk management in radiology
  Utku Şenol; Antalya/TR
  MIR Board

• Discussion
• Closing remarks
  Yves Menu; Paris/FR
  Peter Mildenberger; Mainz/DE
What's new in EPOS™ (ECR's Electronic Presentation Online System) at ECR 2012?

- Over 2,500 new scientific and educational exhibits and scientific paper presentations
- 20 Cases-of-the-Day (five new cases each day)
- Self-Assessment: More about Ultrasound
- EURORAD – Europe’s largest radiological case database

Scientific Exhibition Awards

An independent jury of European radiologists has judged all scientific and educational exhibits with regard to their scientific content, educational value, originality and visual impression. Taking advantage of EPOS™, the rating was carried out online, prior to the congress, enabling a detailed and considered assessment.

On this basis, the scientific exhibition committee has awarded the following prizes to the best posters:

- 6 Magna Cum Laude
- 10 Cum Laude
- 17 Certificate of Merit

Each of the Magna Cum Laude awardees will be presented a certificate and free ECR 2013 registration. Awardees of the Cum Laude and Certificate of Merit award will get a certificate and a small gift, which can be picked up at the EPOS™ Office.

All awarded posters are flagged in EPOS™ and will be published on the ESR website and on myESR.org/epos

Attendance (CME) and Evaluation

Attendance (CME) and Evaluation of the scientific exhibition are recorded online in EPOS™:

1. Enter EPOS™ and view the posters of your interest. When logging out, you will be asked to complete the evaluation form.
2. Fill in this form and press the 'Submit' button.

The evaluation of the electronic scientific exhibition is very important for future planning and your opinion and comments will be highly appreciated.

For those who login and submit completed evaluation forms, a maximum of 3 hours attendance at the scientific exhibition will be listed in the record of attendance (CME confirmation).

EPOS™ at ECR 2012 is kindly sponsored by Siemens and Hewlett-Packard.
ESR thanks all reviewers

We cordially thank the members of the Scientific Exhibition Committee and the EPOS Reviewers who reviewed abstracts and graded electronic posters in the past months, establishing the basis for presenting the awards.

*(in alphabetical order)*

E. Ada; Izmir/TR
H. Ahmadzadehfar; Bonn/DE
H. Alkadhi; Zurich/CH
G.C. Anselmetti; Candiolo/IT
I. Arkhipova; Moscow/RU
P. Aspelin; Huddinge/SE
N. Bargallo; Barcelona/ES
A. Barile; L’Aquila/IT
T. Bartolotta; Palermo/IT
G. Bastarrika; Pamplona/ES
A. Beer; Munich/DE
M. Bellin; Villejuif/FR
K. Bhatia; Hampton/UK
A. Blandino; Contemplazione/IT
J.G. Blickman; Nijmegen/NL
E. Blumfield; Boston, MA/US
A. Bozzao; Rome/IT
F. Cademartiri; Parma/IT
E. Calliada; Pavia/IT
R. Campbell; Liverpool/UK
D. Caramella; Pisa/IT
W. Chamroonrat; Philadelphia, MA/US
T. Cunha; Carcavelos/PT
J. Damilakis; Iraklion/GR
A.J.B. De Backer; Ghent/BE
S. Delorme; Heidelberg/DE
A. de Roos; Leiden/NL
V. Dialani; Boston, MA/US
M. Düx; Frankfurt a.M./DE
O. Ekberg; Malmö/SE
B.B. Ertl-Wagner; Munich/DE
Y. Fargeaudou; Paris/FR
R. Forstner; Salzburg/AT
A. Fotiadou; Huntingdon/UK
F. Frauscher; Innsbruck/AT
N.J.M. Freling; Amsterdam/NL
M. Gaskarth; Cambridge/UK
J. Geitung; Bergen/NO
S. Gourousoyianni; Athens/GR
A. Guermazi; Boston, MA/US
B. Hansson; Stockholm/SE
C. Herzog; Munich/DE
J. Heverhagen; Marburg/DE
M. Hopper; Cambridge/UK
A. Jackson; Manchester/UK
T. Jakobs; Munich/DE
J. Jakobsen; Oslo/NO
C. Kahn; Milwaukee, WI/US
N. Kalayvas; Athens/GR
A. Kassarjian; Madrid/ES
F. Kiessling; Aachen/DE
F. Knollmann; Pittsburgh, PA/US
K.-F. Kreitner; Mainz/DE
A. Laghi; Latina/IT
J. Laissey; Paris/FR
M. Lemmerling; Beervelde/BE
D. Litmanovich; Boston, MA/US
E. Llopis; Alzira/ES
I. Lupescu; Bucharest/RO
M. Mack; Frankfurt a.M./DE
A. Mahnken; Aachen/DE
R. Manns; Telford/UK
K. Marten-Engelke; Göttingen/DE
C. Matos; Brussels/BE
J. McHugh; Birmingham/UK
E. Mershana; Moscow/RU
P. Mildenberger; Mainz/DE
M. Minami; Ibaraki/JP
G. Morana; Treviso/IT
V. Muglia; Ribeirao Preto/BR
K. Nikolaou; Munich/DE
M. Notomisprovjo; Munich/DE
A. Oikonomou; Alexandroupolis/GR
Y. Oishi Tanaka; Tsukuba/JP
M. Onu; Bucharest/RO
L. Pallwein-Prettner; Linz/AT
V. Panebianco; Rome/IT
G. Pärtan; Vienna/AT
A. Paterson; Belfast/IE
L. Pina Insauti; Pamplona/ES
T. Popiela; Krakow/PL
P.K. Prassopoulos; Alexandroupolis/GR
L. Preda; Milan/IT
E. Quaia; Trieste/IT
D. Regge; Candiolo/IT
A. Righini; Milan/IT
P. Rinaldi; Rome/IT
S. Robinson; Vienna/AT
J. Romero; Boston, MA/US
A. Rovira-Canellas; Barcelona/ES
R. Rzanny; Jena/DE
G. Savino; Rome/IT
K. Schüermann; Aachen/DE
T.C. See; Cambridge/UK
M. Shelly; Dublin/IE
P. Sijens; Groningen/NL
W. Sommer; Munich/DE
W. Stiller; Heidelberg/DE
M. Sumi; Nagasaki/JP
D. Tack; Baudour/BE
A. Taibbi; Palermo/IT
R. Talanow; Lexington, KY/US
S. Taylor; London/UK
M. Toepler; Vienna/AT
M. Torkzad; Sollentuna/SE
D. Tsetis; Iraklion/GR
A. Tsili; Ioannina/GR
S. Ulmer; Kiel/DE
E. Van Beek; Edinburgh/UK
W. van der Putten; Galway/IE
M. Vargas; Geneva/CH
J.A. Verschakelen; Leuven/BE
M.G. Wallis; Cambridge/UK
A. Wibmer; Vienna/AT
D. Wormanns; Berlin/DE
K. Wörtler; Munich/DE
X. Wortsmann; Santiago/CL
P. Wunderlich; Dresden/DE

ESR thanks all reviewers
EPOS Discussions
Come along, listen, and join in with the following live discussions at the EPOS Area:

Iterative imaging
Moderator: D. Tack; Baudour/BE
Friday, March 2, 13:30–14:00

Oncologic imaging:
response evaluation
Moderator: A. Rockall; London/UK
Friday, March 2, 15:30–16:00

Diffusion-weighted
MRI of the abdomen
Moderator: M. Lewin; Villejuif/FR
Saturday, March 3, 10:00–10:30

Ischemic heart disease: CT or MRI?
Moderator: A. de Roos; Leiden/NL
Saturday, March 3, 13:30–14:00

Best of current clinical trials
Moderator: H.U. Kauczor; Heidelberg/DE
Saturday, March 3, 15:30–16:00

Breast MRI
Moderator: T. Helbich, Vienna/AT
Sunday, March 4, 13:30–14:00
EDIPS – ECR’s Digital Preview System

EDIPS Download is part of ECR’s Digital Preview System. It enables you to download presentations from ECR 2006–2012 throughout the year. As an ESR member enjoy browsing for free through over 4,700 presentations covering a wide variety of radiological topics, and provided by the most esteemed scientists from all over the world.

www.myESR.org/edips

EPOS™ – Electronic Presentation Online System

EPOS™ – over 14,000 electronic presentations currently online! In 2003, ECR introduced an all-electronic scientific exhibition using EPOS™, the Electronic Presentation Online System, thus setting new standards in the medical meeting industry. Browse through thousands of electronic exhibits from ECR 2003–2012 and from other congresses: Online at www.myESR.org/eapos or in the EPOS™ Area on the 2nd level. The online EPOS™ database can be accessed free of charge by ESR members and ECR participants. EPOS™ at ECR 2012 is kindly supported by Siemens Healthcare.

www.myESR.org/eapos

EURORAD – Radiological Case Database

The largest peer-reviewed teaching database of radiology on the internet offers free access to a wealth of medical information and imaging data, whose accuracy and quality have been validated by some of the most experienced radiologists in Europe. Submitting to and publishing in EURORAD is an exclusive benefit of ESR membership. EURORAD contains case reports for medical students (simple cases), residents in radiology (everyday cases) and senior radiologists (complex cases) in all radiological specialties. For easy retrieval of required cases, the website offers a powerful search engine as well as multi-lingual navigation (English / Spanish / French). EURORAD allows you to download, save, and print the cases as PDF documents, or e-mail them via the web-based e-mail client. All EURORAD cases are registered with a unique DOI (Digital Object Identifier), which makes all cases citable. Visit the EURORAD Booth on the far left at the back of the entrance hall!

www.eurorad.org

ePACS @ ECR 2012

In its sixth year ePACS is again encouraging ECR participants to expand and deepen their radiological knowledge, by providing case collections and structured expert reports for self-directed learning at the meeting. ePACS was launched at ECR 2007 and is a radiological eLearning project developed by the Medical University of Vienna (MUV) with the support of the European Society of Radiology. It combines an electronic patient record of collaborative design (Unified Patient), with a Java™-based Dicom viewer (by Tiani-Spirit) for a browser-based learning environment. This year the ePACS-collection has grown again and new cases have been added. There will be a completely new collection featuring ‘paediatric uroradiology’. As usual, the case collections present some very instructive original cases, their clinical background and reports; the essential parts of our daily work routine.

The following ePACS case collections are available at ECR 2012:

**Lung CT**
C.J. Herold and C. Mueller-Mang; Vienna/AT

**Musculoskeletal MRI**
M.J. Breitenseher; Horn/AT and M. Zanetti; Zurich/CH

**Acute abdomen CT**
H. Ringl and T. Moritz; Vienna/AT

**Cardiac CT**
C. Loewe, A. Stadler and F. Wolf; Vienna/AT

**Foetal MR imaging**
G. Kasprian and D. Prayer; Vienna/AT

**Critical care chest**
C.M. Schaefer-Prokop; Amersfoort/NL

**Paediatric uroradiology**
A. Hojreh and C. Balassy; Vienna/AT

Last year, the ePACS system took a major leap forward by introducing a new technology: Interactive three-dimensional visualisation over the web provides ubiquitous access to imaging data. The functionality of this interactive feature has been integrated into ePACS, bringing it even closer to the daily radiology workflow. This tool can help to understand the topographic nature of pathologic conditions, as well as axial, sagittal and coronal series. The feature is web based, allowing every browser, even on handheld devices, to display the results without prior software installation. ePACS aims to serve as an adjunct to other existing eLearning resources at the ECR, such as EPOS™, EURORAD or EDIPS, by presenting a virtual environment in which the attendee is determined on finding the correct diagnosis for the patient. All these different eLearning tools are designed to contribute to modern radiological education, but they also depend heavily on contributions from educators. Traditional lectures and workshops are still the dominant setting for teaching and learning at radiological meetings. To meet the experts personally and to have the instructive input of lectures, allows participants to select further materials for self-directed learning. It is well-known that only about 20% of the content of a lecture can be retained by an audience, depending on their previous knowledge. However, stimulation through the active performance of the lecturer can lead to motivation and further learning. ePACS can support lectures, by inducing an interactive learning process in a practical setting shortly after or before a lecture. The ePACS team would be delighted to welcome you to the ePACS booth; next to the EPOS™ Lounge!

Peter Pokieser

Opening hours:
Thursday, March 1 10:30–18:00
Friday, March 2 to Monday, March 5 08:00–18:00
Cafés & Restaurants at ECR 2012

Want to take a short break? Looking for the right place to eat? – The best spots to relax and enjoy tasty hot and cold snacks are our various foyer cafés and restaurants. They are situated throughout the whole congress venue and across all levels of the building.

To offer you the broadest variety of Austrian and international delicacies, each café and restaurant has its own theme, from Austrian specialties and Italian treats to Mediterranean pleasures and Asian delights.

Lower level, Foyer D
Italian Snack Lounge

Lower level, Foyer G/H
Mediterranean Corner

Lower level, Foyer I/K
Asian Delights – authentic Asian cuisine

Entrance level, next to the main entrance
Café Accademia: Accademia del Caffè

Entrance level, Foyer E
Snack Lounge

Entrance level, Foyer F
Snack Lounge

1st level, within EDIPS – Preview Centre
Vital Lounge

2nd level, Foyer A (opposite the EPOS Area)
Viennese Snacks & Pastries

2nd level, Foyer C
Italian Restaurant

Exhibition Hall E
Café Vienna: Austrian Specialties

Within the technical exhibition area, the ECR has built its own cafés; in Extension Expo A and Expos C and E.
Free Publications at ECR 2012

The Free Publications initiative will run for the sixth consecutive year after attracting increasing levels of attention at ECR 2011. On the first and the second level of the ACV there will be two Free Publications booths. Both will be richly stocked with a galaxy of fascinating reading material from many of our associated organisations and publishing houses from around the world, such as Globetech, Diagnostic Imaging, MindByte and European Hospital.

In addition to a broad library of print media, several internet terminals will also be installed nearby, providing access to a wide variety of online publications.

About 20 publishers will provide more than 30 different titles for this initiative, ranging from copies of the ESR’s flagship journal European Radiology and the newest ESR journal Insights into Imaging, to issues from as far afield as India, many of which will also be available online. Interested delegates can peruse La Radiologia Medica, pick up a copy of International Hospital and browse the online Imaging Management, among others. It is a rare chance to learn from so many diverse medical imaging communities from around the globe, and in this case it is something you can take away with you, with free bags provided to help you make the very best of the opportunity.

We are of course enormously grateful for the enthusiasm of our friends in the publishing industry for making the Free Publications initiative possible, and allowing us to provide ECR participants with the chance to pick up some literature and broaden their medical imaging horizons!

ECR 2012 welcomes its partners

The ESR welcomes its Supporting Members

The ESR gives a warm welcome to all its existing and newly joined supporting membership companies!

As the ECR puts a special focus on innovation and keeping up to date with recent developments in the field, a close cooperation with the industry leaders is indispensable.

The companies contribute with their active involvement to the success of the society and its congress with their continuous support for the cause of radiology in Europe.

ESR Supporting Members:

4-star: Agfa
Bracco
Bayer HealthCare
Canon
Carestream Health
Covidien
Fujifilm
GE Healthcare
Guerbet
Hitachi
Hologic
Philips Healthcare
Siemens Healthcare

3-Star: Mindray
Ulrich Medical

2-Star: Cerner Corporation
Paramed
Shimadzu
Swissray

Thank you for your involvement!

‘ESR meets’ countries

Each year the ECR places a special focus on its ‘ESR meets’ countries – in 2012 namely Italy, Egypt and Romania – with particular emphasis on their scientific and technological developments. The ESR, industry companies and the national societies work closely together to highlight these countries.

Additionally, we are proud to present you the ‘ESR meets’ partner discipline: Radiation Oncologists.
Enjoy Vienna’s cultural highlights
Visit the Arts & Culture Booth in the entrance hall
Enjoy Vienna's cultural highlights

Gustav Klimt, Attersee, 1900
© Leopold Museum, Wien, Inv. 4148
Visit the Technical Exhibition!

And learn all about the most recent developments in healthcare technology.

Opening hours:

**EXPO Halls and EXPO Foyer D**
- Friday, March 2 to Sunday, March 4: 10:00–18:00
- Monday, March 5: 10:00–14:00

**First Level (Gallery)**
- Thursday, March 1 to Sunday, March 4: 10:00–18:00
- Monday, March 5: 10:00–17:30
A notably popular feature at the European Congress of Radiology is the special exhibition, initiated and compiled by Prof. Hermann Vogel from Hamburg, Germany, in cooperation with the Deutsches Röntgenmuseum, which has been part of the annual meeting for years. This year’s exhibit is entitled Post Mortem Imaging.

Diagnostic imaging of the deceased (PMI, Post Mortem Imaging) differs from that of the living in many ways relating to indications, procedure and capabilities. Naturally, the application of PMI means that death is evident. However it is the circumstances of the death that are of interest. PMI can show the cause of death, indicate who may have been the perpetrator, and whether or not the killing was intentional. Part of the role of PMI is to distinguish between natural and unnatural death.

PMI allows for the identification or exclusion of a disease without autopsy, which means that an ante-mortem diagnosis can be verified. PMI also provides information valuable for the autopsy. In clinical medicine, PMI can contribute to quality control. PMI has the advantage of being capable of creating a data set, which can be used repeatedly. New images are available, around the clock, for diagnosis or demonstration. PMI expands the possibilities of clinical medicine, pathology and forensic medicine. Based on his experience of over 3000 PMCTs, Prof. Vogel believes that PMI may become a sub-discipline related to forensic medicine, pathology and radiology.

Prof. Hermann Vogel is head physician at the Albers-Schönberg-Institute, the department of radiology at St. Georg Hospital in Hamburg. The new exhibition, which will be shown for the first time at ECR 2012, again features more than 20 posters with partly provocative images.

The exhibition is presented on the 2nd level of the congress venue next to the EPOS Area.
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European Radiology is the official journal of the ESR and official organ of numerous subspecialty organisations. It acts as a flagship, publishing original scientific papers in the radiological field with an Impact Factor of 3.594 for 2010.

Full access to the online version of European Radiology is included in the ESR membership fee. ESR members can also arrange subscriptions for the printed version at special rates in the MyUserArea (www.myESR.org/MyUserArea under ‘MyJournals’) or at the European Radiology Booth on the farleft at the back of the entrance hall!

Insights into Imaging

The clearest insights ... for all to see!

Insights into Imaging is the ESR journal for education and strategies in radiology. Besides excellent review articles, it publishes articles on professional issues, several official documents and political statements.

Insights into Imaging is moving with the times and as from January 2012 is an Open Access journal on the SpringerOpen group platform – therefore all articles published are freely available. As benefit for ESR members, ESR covers the Article Processing Charges for all its active members!

As a reminder of the valuable content and its importance to every radiologist’s daily practice, a special printed issue of Insights into Imaging has been placed in your congress bag!

Links to the journals

www.european-radiology.org
www.i3-journal.org
Insights into Imaging
Education and strategies in European radiology

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A safe injection not only protects the patient, but also the user – in all respects.

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ECR 2012  Lower Level  Expo C  # 325
1. Meditation & Prayer Room
2. Broadcast Room G/H
3. Samsung Medison Industry Hands-On Workshop Room
4. Meeting Room 13
5. OSIRIX Industry Hands-On Workshop Room
6. Broadcast Room I/K
7. Meeting Room 11
8. Meeting Room 12
9. Future Meetings
1. Samsung Medison Industry Hands-On Workshop Room
2. Meeting Room 13
3. OSIRIX Industry Hands-On Workshop Room
4. Food Affairs Service Desk
1. Mondial
2. Travel Service
3. Arts & Culture
4. Restaurant Reservations
5. Pre Registration
6. New Registration
7. Photo Competition
1. Broadcast Room L/M
2. Hologic Industry Hands-On Workshop Room
3. Broadcast Room N/O
1. Meeting Room 18
2. Broadcast Room B
3. Meeting Room 16
4. Meeting Room 15
5. Meeting Room 14
6. Special Exhibition
7. Discussion Corner
8. Broadcast Room C
9. EIBIR IMAGINE Theatre
10. IT Supports Radiology
1. Meeting Room 1
2. Meeting Room 2
3. Meeting Room 3
4. Meeting Room 4
5. Meeting Room 5
6. Meeting Room 6
7. Meeting Room 7
8. Meeting Room 8
9. Meeting Room 9
10. EAR/ECR Past Presidents’ Suite
Two ultrasound brands uniting with strength for the promise of the future.

Hitachi and Aloka
Two leading ultrasound brands unite

Discover extraordinary technologies and a new, impressive range of medical ultrasound solutions of two leading brands and find out more at our Technology Fusion Symposium on Saturday, March 3, lunchtime, room F1.

Come and visit us at booth 320 in Expo C
Programme Overviews

86  Thursday, March 1
88  Friday, March 2
90  Saturday, March 3
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94  Monday, March 5
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**17:45-19:15 Room A: Opening Ceremony / Presentation of Honorary Members’ / Opening Lecture** [p. 151]

Registration: Wednesday, February 29: 10:00–18:00 / Thursday, March 1 to Monday, March 5: 07:00–18:00
## Programme Overview

### Thursday, March 1

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<tr>
<td><strong>SS 101b</strong> Abdominal Viscera Bilary tract (p. 212)</td>
<td><strong>SS 106</strong> Molecular Imaging Advanced topics (p. 213)</td>
<td><strong>SS 115</strong> Vascular Thoracic and abdominal aorta (p. 213)</td>
<td><strong>SS 113</strong> Physics in Radiology Functional imaging (p. 214)</td>
<td><strong>SS 103</strong> Cardiac Acute coronary syndromes viability (p. 214)</td>
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<td><strong>SY 1</strong> Siemens Healthcare Satellite Symposium (p. 139)</td>
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<td><strong>SS 201b</strong> Abdominal Viscera CT technique (p. 220)</td>
<td><strong>SS 203a</strong> Cardiac Perfusion, CT and MRI (p. 220)</td>
<td><strong>SS 215</strong> Vascular New aspects in vascular imaging (p. 221)</td>
<td><strong>SK 225</strong> Image-Guided Breast Biopsy: How to do it Introductory Lectures (p. 136)</td>
<td><strong>SS 203b</strong> Cardiac Valvular and congenital heart diseases (p. 221)</td>
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<td><strong>RC 303</strong> Cardiac Cardiac imaging the cutting edge (p. 149)</td>
<td><strong>PC 3</strong> Professional Challenges Session Diagnosis of inflammatory conditions (p. 149)</td>
<td><strong>RC 309</strong> Interventional Radiology The trauma patient (p. 150)</td>
<td><strong>RC 315</strong> Vascular How I report (p. 150)</td>
<td><strong>RC 305</strong> Computer Applications Image processing and computer-aided diagnosis (CAD) (p. 150)</td>
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EPOS™ – Scientific Exhibition: 08:00–18:00
| Time  | Room  | A 2nd Level | B 2nd Level | C 2nd Level | D1 Lower Level | D2 Lower Level | E1 Entrance Level | E2 Entrance Level | F1 Entrance Level | F2 Entrance Level | G/H Lower Level |
|-------|-------|-------------|-------------|-------------|----------------|----------------|-------------------|-------------------|-------------------|-------------------|----------------
| 08:30 | NH 4  | New Horizons |             |             | E³ 40a         | E³ 420a        | MC 424 Controversies | SA 4 State of the | RC 417 Emergency | EM 1 E³ 420b     | RC 411 Neuro  |
|       |       | Session     |             |             | Interactive Teaching | Interactive Teaching | in Abdominal Imaging | Art Symposium Imaging | Radiology | Foundation Course: | General Neurointerventional |
|       |       | Liver imaging |             |             | Session         | Session         | Small bowel exam     | Imaging during pregnancy | ER | More About Ultrasound | Introductions to the brain |
|       |       | reality and  |             |             | Thrombosis      | Abdominal        | CT vs MRI           | (p. 154)          | (p. 154) | Vascular Imaging | (p. 155) |
|       |       | virtuality   |             |             | Infections      | Emergencies     | (p. 223)           | (p. 154)          | (p. 154) | Vascular imaging | (p. 155) |
|       |       | (p. 153)    |             |             |                 |                 | (p. 223)           | (p. 154)          | (p. 154) | Dose reduction | (p. 225) |
| 09:00 |       |             |             |             | RC 406 Contrast Media | E³ 502a | SS 504 CT guided | SS 509 Interventional Radiology | SS 510 Musculo-skeletal | SS 502 Breast | SS 507 Neuro |
|       |       |             |             |             |                 | Interactive Teaching | CTPA, dual energy and dose reduction | Radiology | Ultrasound | GI tract trauma | Ageing, degenerative disorders and epilepsy |
| 09:30 |       |             |             |             |                 | Abdominal        | (p. 150)          | (p. 223)           | (p. 224) | Ultrasound | (p. 225) |
|       |       |             |             |             |                 | Emergencies     | (p. 150)          | (p. 223)           | (p. 224) | US technology | (p. 225) |
|       |       |             |             |             |                 |                 | (p. 223)           | (p. 224)           | (p. 224) | Dose reduction | (p. 225) |
|       |       |             |             |             |                 |                 | (p. 223)           | (p. 224)           | (p. 224) | Dose reduction | (p. 225) |
|       |       |             |             |             |                 |                 | (p. 223)           | (p. 224)           | (p. 224) | Dose reduction | (p. 225) |
| 10:00 |       |             |             |             |                 |                 | (p. 223)           | (p. 224)           | (p. 224) | Dose reduction | (p. 225) |
| 10:30 |       |             |             |             |                 |                 | (p. 223)           | (p. 224)           | (p. 224) | Dose reduction | (p. 225) |
| 11:00 |       |             |             |             |                 |                 | (p. 223)           | (p. 224)           | (p. 224) | Dose reduction | (p. 225) |
| 11:30 |       |             |             |             |                 |                 | (p. 223)           | (p. 224)           | (p. 224) | Dose reduction | (p. 225) |
| 12:00 |       |             |             |             |                 |                 | (p. 223)           | (p. 224)           | (p. 224) | Dose reduction | (p. 225) |
| 12:30 |       |             |             |             |                 | SY 5 Bayer Healthcare Satellite Symposium | (p. 140) | SY 6 GE Healthcare Satellite Symposium | (p. 140) | SY 7 Bracco Satellite Symposium |
| 13:00 |       |             |             |             |                 |                 | (p. 133)          | (p. 140)          | (p. 140) | SY 7 Bracco Satellite Symposium |
| 13:30 |       |             |             |             |                 |                 | (p. 133)          | (p. 140)          | (p. 140) | SY 7 Bracco Satellite Symposium |
| 14:00 |       |             |             |             |                 | SS 603 Cardiac Imaging | SS 603a Neuro | SS 603b Cardiac Imaging | SS 604 Interventional Radiology | SS 605 Vascular Imaging | SS 601 Abdominal Viscera |
| 14:30 |       |             |             |             |                 | CT and MRI        | CT and MRI         | Resting state and DTTI | Vascular imaging | MR imaging | MR imaging | MR imaging | MR imaging | MR imaging |
| 15:00 |       |             |             |             |                 |                 | (p. 229)          | (p. 229)          | (p. 230) | US technology | (p. 231) |
| 15:30 |       |             |             |             |                 | SS 604a Musculoskeletal Imaging | SS 604a Musculoskeletal Imaging | Cartilage and osteoarthritis | US technology | US technology | US technology | US technology | US technology |
| 16:00 |       |             |             |             |                 | E³ 720a Interventional Teaching Session | E³ 720a Interventional Teaching Session | Liver imaging: always MR or still a role for CT? | Head and Neck | E³ 720b Foundation Course: | E³ 720b Foundation Course: |
| 16:30 |       |             |             |             |                 | Neurological emergencies | Neurological emergencies | (p. 160) | (p. 161) | More About Ultrasound | More About Ultrasound |
| 17:30 |       |             |             |             |                 | (p. 161)          | (p. 162)          | (p. 162) | (p. 162) | My most beautiful mistakes | My most beautiful mistakes |

**Registration:** 07:00–18:00  **EPOS™ – Scientific Exhibition:** 08:00–18:00
### Programme Overview

**Friday, March 2**

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<td>Joint Course of ESR and RSNA (Radiological Society of North America)</td>
<td>Essentials in oncologic imaging: what radiologists need to know (part 1)</td>
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<td>Multi-disciplinary Session: Managing Patients with Cancer</td>
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<td>US of the Lower Limb: Groin to Calf</td>
<td>Introductory Lectures</td>
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<td>SF 7b</td>
<td>Special Focus Session: Assessing novel technology applications, performance and quality issues</td>
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<td>Evaluation and treatment of common venous disorders</td>
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<td>NH 8 New</td>
<td>E² 820a Interactive Teaching Session: Infections of the central nervous system: what the radiologist must report (p. 167)</td>
<td>MC 824 Controversies in Abdominal Imaging: Abdominal emergencies: US resists CT! (p. 168)</td>
<td>CC 821 Urological Imaging: Renal and adrenal tumours (p. 168)</td>
<td>RC 810 Musculoskeletal Imaging: Bone marrow oedema and bone marrow oedema-like lesions (p. 168)</td>
<td>E² 820b Foundation Course: More About Ultrasound Volumetric Imaging: Where are we, where are we going to? (p. 169)</td>
<td>RC 801 GI Tract Imaging: Rectal cancer imaging: the next phase (p. 169)</td>
<td>SF 8b Special Focus Session: Cardiac imaging: from diagnosis to prognosis (p. 169)</td>
<td>EF 1 EFOMP Workshop: Advances in technology for interventional radiology: general overview (p. 170)</td>
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<td>SF 8a Special Focus Session: Peritoneal carcinomatosis (p. 167)</td>
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**Registration:** 07:00–18:00  
**EPOS™ – Scientific Exhibition:** 08:00–18:00
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<td>MC 27C                      The Beauty of Basic Knowledge: Interpretation of the Chest Radiograph (p. 172)</td>
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<td>SS 905                      Computer Applications Computer assisted diagnosis (CAD) (p. 240)</td>
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Technical Exhibition: EXPO Halls and EXPO Foyer D:10:00–18:00
**Programme Overview**

**Sunday, March 4**

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<td>RC 1201 GI Tract</td>
<td>GI Tract CT colonography; three steps to success (p. 181)</td>
<td>E³ 1220 Interactive Teaching Session: Common radiological problems; incidental abdominal masses (p. 181)</td>
<td>CC 1218 CLICK (Clinical Lessons for Imaging Core Knowledge): Common Clinical Cases (p. 181)</td>
<td>CC 1219 Emergencies in Neuro-radiology: Radiological management of traumatic emergencies (p. 181)</td>
<td>CC 1221 Urogenital Imaging: The female pelvis (p. 182)</td>
<td>CC 1216 Oncologic Imaging: Spine and peripheral joints (p. 182)</td>
<td>E³ 1210 Musculoskeletal Sports injuries US or MR? (p. 182)</td>
<td>SF 12 Special Focus Session: Radiology on the road: working when you are away from home (p. 183)</td>
<td>SS 1310 Head and Neck Lymph node imaging; where are we now? (p. 183)</td>
<td>RC 1202 Breast Interventions: From diagnosis to treatment (p. 183)</td>
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<td>SS 1316 Oncologic Imaging: Whole body MRI in cancer patients (p. 241)</td>
<td>EM 4 ESRC: Romania Oncology Imaging: breast and liver (p. 241)</td>
<td>CC 1318 CLICK (Clinical Lessons for Imaging Core Knowledge): Common Clinical Cases (p. 241)</td>
<td>SS 1304 Interventional Radiology: Special indications (p. 242)</td>
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<td>SS 1307 Genitourinary Adrenal and kidney imaging (p. 243)</td>
<td>SS 1302 Breast Interventional procedures (p. 244)</td>
<td>SS 1308 Head and Neck Imaging (p. 244)</td>
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<td>NH 14 New Horizons Session: New insight into vascular wall (p. 187)</td>
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**Registration:** 07:00–18:00  
**EPOS™ – Scientific Exhibition:** 08:00–18:00
**Programme Overview**

**Sunday, March 4**

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<td>RC 1209 Interventional Radiology Expanding the role of interventional radiology in hepatocellular carcinoma (p. 184)</td>
<td>RC 1214 Radiographers Changing era of radiography education in Europe: new perspectives for students and staff (p. 185)</td>
<td>RC 1212 Paediatric Oncologic imaging: how to image, follow up and report (p. 185)</td>
<td><strong>Rising Stars Basic Session 3</strong> (p. 57)</td>
<td><strong>ESR Undergraduate Working Group Session</strong> Undergraduate teaching: the future of radiology (p. 186)</td>
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<td><strong>MC 270 The Beauty of Basic Knowledge: Interpretation of the Chest Radiograph Pleura and chest wall</strong> (p. 186)</td>
<td><strong>EPOS Discussion</strong> Breast MRI (p. 60)</td>
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<td>SS 1306 Contrast Media Safety and diagnostic value (p. 245)</td>
<td>SS 1315 Vascular Radiographers in the clinical setting (p. 246)</td>
<td>SS 1318 Radiographers Radiographers Neuro Tumours (p. 247)</td>
<td>SS 1325 Image-Guided Breast Biopsy: How to do it (p. 136)</td>
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<td>RC 1413 Physics in Radiology Hybrid imaging systems (p. 191)</td>
<td>RC 1408 Head and Neck Performing and reporting head and neck examinations: how do I do it? (p. 191)</td>
<td>RC 1414 Radiographers Promoting best practice in forensic imaging (p. 191)</td>
<td>RC 1412 Paediatric Children’s bones and joints (p. 191)</td>
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<td>RC 1513 Physics in Radiology Novel developments in CT and impact on dose (p. 195)</td>
<td>RC 1508 Head and Neck Post-treatment head and neck management: the diagnostic dilemma (p. 196)</td>
<td>RC 1514 Radiographers Breast screening: programmes roles and issues for radiographers (p. 196)</td>
<td>RC 1512 Paediatric Abdominal emergencies in children (p. 196)</td>
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**Technical Exhibition: EXPO Halls and EXPO Foyer D:10:00–18:00**
### Programme Overview

**Monday, March 5**

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<th>Time</th>
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<td>08:30</td>
<td>SF 16a Special Focus Session</td>
<td>E1 1620 Interactive Teaching Session Breast cancer (p. 197)</td>
<td>CC 1618 CLICK (Clinical Lessons for Imaging Core Knowledge): Common Clinical Cases Surprise in the liver (p. 197)</td>
<td>CC 1619 Emergencies in Neuroradiology Acute onset of cranial nerve dysfunctions (p. 197)</td>
<td>CC 1621 Urogenital Imaging Prostate and urinary bladder (p. 198)</td>
<td>SF 16b Special Focus Session How should we image the patient with haematuria? (p. 198)</td>
<td>RC 1616 Oncologic Imaging Imaging the complications of cancer treatment (p. 198)</td>
<td>RC 1601 Abdominal Viscera The cystic lesions of the pancreas (p. 199)</td>
<td>ESR General Assembly</td>
<td>RC 1611 Neuro Spine update on spinal disorders (p. 199)</td>
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**Registration:** 07:00–18:00

**Technical Exhibition:** EXPO Halls and EXPO Foyer D:10:00–14:00
| RC 1604 | Chest | Patterns in chest radiology: diffuse lung diseases – what the radiologist should know (p. 203) |
| PC 16 | Professional Challenges Session | Upcoming challenges in radiation protection (p. 206) |
| SF 16c | Special Focus Session | Paediatric head and neck imaging (p. 200) |
| RC 1613 | Physics in Radiology | Simulations help us understand x-ray imaging (p. 201) |
| RC 1605 | Computer Applications | New PACS architecture: decoupling image management from image navigation (p. 201) |
| SS 1701 | Abdominal Viscera | MRI of focal liver lesions (p. 253) |
| SS 1703 | Cardiac CT and MRI | Risk stratification, prognosis and outcome (p. 253) |
| SS 1717 | Emergency Radiology | Acute abdomen (p. 254) |
| SS 1713 | Physics in Radiology | Dose optimisation and assessment in CT (p. 255) |
| SS 1712 | Paediatric Body and bones | (p. 255) |
| MC 27E | The Beauty of Basic Knowledge: Interpretation of the Chest Radiograph | The diaphragm (p. 202) |
| SS 1801b | Abdominal Viscera | Abdomen (p. 260) |
| SS 1806 | Contrast Media Applications in US, CT and MRI | (p. 261) |
| SS 1815 | Vascular | Carotid arteries (p. 261) |
| SS 1813 | Physics in Radiology | New technologies and algorithms (p. 262) |
| SS 1803 | Cardiac Imaging | Miscellaneous (p. 262) |
| SS 1805 | Computer Applications | Imaging informatics (p. 263) |
| RC 1904 | Chest | Phenotypes in obstructive airway disease: how do I image, analyse and report? (p. 204) |
| RC 1908 | Head and Neck | Differentiating skull base lesions (p. 204) |
| RC 1915 | Vascular | Non-traumatic acute aortic dissection (p. 204) |
| RC 1912 | Paediatric | Chest imaging: what to use and when to use it (p. 205) |

**Programme Overview**

**Monday, March 5**

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<thead>
<tr>
<th>Room/Time</th>
<th>07:15-07:45</th>
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Sunday, March 4
Dinner, Show and Party | Time: 19:15
Party only | Time: 21:30
Location: Rathaus, Vienna City Hall
Lichtenfelsgasse 2, 1010 Vienna
Tickets on sale at the Travel Service Desk in the entrance hall.
<table>
<thead>
<tr>
<th>Page</th>
<th>Session Title</th>
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<td>98</td>
<td>New Horizons Sessions</td>
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<td>98</td>
<td>State of the Art Symposia</td>
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<td>100</td>
<td>Special Focus Sessions</td>
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<td>Professional Challenges Sessions</td>
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<td>Multidisciplinary Sessions</td>
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<td>Categorical Courses</td>
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<td>Mini Courses</td>
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<td>Refresher Courses / Scientific Sessions</td>
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<td>EFOMP Workshop</td>
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<td>E³ – European Excellence in Education</td>
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<td>ESOR Course on Imaging Biomarkers</td>
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<td>HAMAM Public Session</td>
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<td>Undergraduate teaching: the future of radiology</td>
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<td>Update Your Skills (Practical Courses)</td>
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<td>Satellite Symposia</td>
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<td>Industry Hands-on Workshops</td>
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New Horizons Sessions

Friday, March 2, 08:30–10:00, Room A
NH 4: Liver imaging: reality and virtuality

- Chairman’s introduction [A-057]
  C. Bartolozzi; Pisa/IT
- Acquisition and display of liver ‘reality’ [A-058]
  L. Martí-Bonmatí; Valencia/ES
- Postprocessing and modelling [A-059]
  D. Caramella; Pisa/IT
- Planning and simulation [A-060]
  O. Ratib; Geneva/CH
- Intraoperative functional imaging:
  visualisation and navigation for liver surgery [A-061]
  N. Navab; Munich/DE
- Panel discussion:
  The ultimate challenge:
  virtual technology for real medicine

Saturday, March 3, 08:30–10:00, Room A
NH 8: Ablation beyond radiofrequency

- Chairman’s introduction [A-185]
  J.I. Bilbao; Pamplona/ES
- Microwave ablation [A-186]
  T. de Baère; Villejuif/FR
- Irreversible electroporation [A-187]
  T.K. Helmberger; Munich/DE
- High intensity focused ultrasound (HIFU) [A-188]
  F. Orsi; Milan/IT
- Stereotactic body radiation therapy (SBRT) [A-189]
  J.J. Aristu; Pamplona/ES
- Panel discussion: Which method should then be used for tumoural ablation?

Sunday, March 4, 14:00–15:30, Room A
NH 14: New insight into vascular wall

- Chairman’s introduction [A-382]
  M.F. Reiser; Munich/DE
- Molecular imaging of atherosclerosis:
  ready for prime time? [A-383]
  M. Schäfers; Münster/DE
- Non-invasive imaging of the vulnerable atherosclerotic plaque [A-384]
  J.H. Gillard; Cambridge/UK
  T. Saam; Munich/DE
- Panel discussion:
  Predictive values of imaging markers of atherosclerosis:
  where do we stand?
State of the Art Symposia

Friday, March 2, 08:30–10:00, Room D2
SA 4: Imaging during pregnancy

• Chairman’s introduction [A-071]
  M. Bekiesińska-Figatowska; Warsaw/PL
• What are the real risks of radiation and contrast media to the mother and the foetus? [A-072]
  D. Prayer; Vienna/AT
• What are the real risks of US and MRI to the foetus? [A-073]
  M. Wozniak; Lublin/PL
• Polytrauma [A-074]
  A. Palkó; Szeged/HU
• Pulmonary embolism [A-075]
  A.R. Larici; Rome/IT
• Panel discussion: Pregnant women and imaging – how far can we go?

Saturday, March 3, 16:00–17:30, Room A
SA 11: Polytrauma in the golden hour: the key role of emergency radiologists in the ED when time makes the difference

• Chairman’s introduction [A-261]
  U. Linsenmaier; Munich/DE
• Ultrasound: why, when, how and by whom? [A-262]
  P.-A. Poletti; Geneva/CH
• Whole body MDCT for trauma: protocols and findings [A-263]
  M. Körner; Munich/DE
• Interventional radiology as life-saving procedure [A-264]
  G. Carrafiello; Varese/IT
• Panel discussion: Is the emergency radiologist the ‘captain of the ship’ in the management of major trauma?

Sunday, March 4, 16:00–17:30, Room E2
SA 15: Imaging hip joint replacement

• Chairman’s introduction [A-454]
  V.N. Cassar-Pullicino; Oswestry/UK
• Radiography and ultrasound: how far can you go? [A-455]
  S. James; Birmingham/UK
• CT: when should you do it and how? [A-456]
  A. Blum; Nancy/FR
• MRI: can it replace the above? [A-457]
  S.J. Eustace; Dublin/IE
• Panel discussion: Can we define an algorithm for assessment of the painful hip replacement?
Special Focus Sessions

Thursday, March 1, 16:00–17:30, Room E1
SF 3: Neuroimaging in neonates, infants and children: when to do what

- Chairman's introduction [A-019]
  A. Rossi; Genoa/IT
- What is the potential and role of brain ultrasound in the MRI era? [A-020]
  M.I. Argyropoulou; Ioannina/GR
- When is MRI of the brain indicated? [A-021]
  P.D. Griffiths; Sheffield/UK
- What is the role of advanced post-processing of MRI images? [A-022]
  P.C. Maly Sundgren; Lund/SE
- Panel discussion: Paediatric neuroimaging: what should the general radiologist know?

Friday, March 2, 08:30–10:00, Room F2
SF 4a: Controversies in breast imaging

- Chairman's introduction [A-085]
  M.G. Wallis; Cambridge/UK
- Should we screen women under 50? [A-086]
  A. Evans; Dundee/UK
- How to image the dense breast [A-087]
  C. Van Ongeval; Leuven/BE
- What to do with false positive MR imaging [A-088]
  L. Martinicchi; Candiolo/IT
- Panel discussion: How do we manage/minimise the consequences of our uncertainties?

Friday, March 2, 08:30–10:00, Room Q
SF 4b: Diagnosis and management of acute vascular abdominal problems

- Chairman's introduction [A-103]
  A. Nicholson; Leeds/UK
- Acute arterial and venous ischaemia-presentation, management and outcome [A-104]
  L. Boyer; Clermont-Ferrand/FR
- Acute non variceal upper gastrointestinal haemorrhage: the evidence base for and role of intervention [A-105]
  S. McPherson; Leeds/UK
- Management of abdominal haemorrhage in the severely injured trauma patient [A-106]
  J.A. Reekers; Amsterdam/NL
- Panel discussion: Is there sufficient evidence to favour image-guided intervention over open surgery in abdominal vascular emergencies and other questions?

Friday, March 2, 16:00–17:30, Room F1
SF 7a: My most beautiful mistakes

- Chairman's introduction [A-158]
  M. Zins; Paris/FR
- Breast [A-159]
  T.H. Helbich; Vienna/AT
- MSK [A-160]
  B. Vande Berg; Brussels/BE
- Neuro [A-161]
  P.C. Maly Sundgren; Lund/SE
- Panel discussion: What have we learned from our mistakes?

Friday, March 2, 16:00–17:30, Room L/M
SF 7b: Assessing novel technology: applications, performance and quality issues

- Chairman's introduction [A-172]
  C. Vandulek; Kaposvár/HU
  M. Maas; Amsterdam/NL
- The impact of radiographers on performance and quality issues arising with novel technology [A-173]
  F. Girard; Pont de Roide/FR
- How to keep up with new technique application: a continuous education programme for radiographers in action [A-174]
  C.A. Tipker-Vos; Amsterdam/NL
- The role of radiographers in respect to applications of novel technologies [A-175]
  B. Bailey; Manchester/UK
- Panel discussion: How can radiographers best face the challenge of novel technologies?

Saturday, March 3, 08:30–10:00, Room B
SF 8a: Peritoneal carcinomatosis

- Chairman's introduction [A-190]
  P.K. Prassopoulos; Alexandroupolis/GR
- What does the surgeon want to know? [A-191]
  E. de Bree; Iraklion/GR
- MDCT vs MRI: advantages and drawbacks [A-192]
  F. Iafrate; Rome/IT
- What is the added value of PET/CT? [A-193]
  G. Antoch; Düsseldorf/DE
- Panel discussion: Optimised imaging algorithms in peritoneal carcinomatosis

Saturday, March 3, 08:30–10:00, Room F2
SF 8b: Cardiac imaging: from diagnosis to prognosis

- Chairman's introduction [A-213]
  M.R. Rees; Gwynedd/UK
- Coronary calcium scoring: is it good for prognosis assessment? [A-214]
  R. Vliegenthart; Groningen/NL
- Coronary CT angiography to predict future events [A-215]
  F. Cademartiri; Monastier di Treviso/IT
- MRI predictors in coronary artery disease [A-216]
  J. Bogaert; Leuven/BE
- Panel discussion: Cardiac CT and MRI vs traditional prognostic predictors: what is the evidence?
Special Focus Sessions

Saturday, March 3, 16:00–17:30, Room F1
SF 11: How can I be sure that I’m dealing with HCC?

• Chairman’s introduction [A-285]
  F. Caseiro-Alves; Coimbra/PT
  L. Grazioli; Brescia/IT
• Equivocal nodules: how to interpret and clinical implications [A-287]
  V. Vilgrain; Clichy/FR
• HCC staging and patient stratification: what’s new? [A-288]
  C. Ayuso; Barcelona/ES
• Residual tumour and tumour recurrence: how to evaluate? [A-289]
  D.J. Breen; Southampton/UK
• Panel discussion: How far can we go with non-invasive imaging for diagnosis and staging of HCC?

Sunday, March 4, 08:30–10:00, Room F1
SF 12: Radiology on the road: working when you are away from home

• Chairman’s introduction [A-337]
  L. Donoso; Barcelona/ES
• Teleradiology in 2012: growing or shrinking in importance [A-338]
  E.R. Ranschaert; ‘s-Hertogenbosch/NL
• Use of PDAs and other hand held devices in radiology: beyond the head? [A-339]
  O. Ratib; Geneva/CH
• Legal issues of teleradiology and portable reporting [A-340]
  R. FitzGerald; Wolverhampton/UK
• Panel discussion: How will we be viewing images in 20 years’ time?

Sunday, March 4, 14:00–15:30, Room F1
SF 14: HIV/AIDS update 2012

• Chairman’s introduction: Living with AIDS – numbers and facts [A-404]
  M.M. Thurnher; Vienna/AT
• Clinical challenges in HIV and CART era [A-405]
  A. Rieger; Vienna/AT
• HIV and brain [A-406]
  M.M. Thurnher; Vienna/AT
• Understanding the role of immune activation and restoration in HIV infection [A-407]
  A.G. Osborn; Salt Lake City, UT/US
• Changing spectrum of HIV-related diseases in the chest: 30 years later [A-408]
  T. Franquet; Barcelona/ES
• Panel discussion: How the shift in the natural history and clinical manifestation of HIV is changing my imaging diagnosis

Monday, March 5, 08:30–10:00, Room A
SF 16a: The role of advanced imaging in musculoskeletal neoplasms

• Chairman’s introduction [A-485]
  J.C. Vilanova; Girona/ES
• Advanced MR techniques [A-486]
  J.L. Bloem; Leiden/NL
• PET/CT and scintigraphy [A-487]
  J.R. Garcia; Barcelona/ES
• Sonography: diagnostic developments [A-488]
  C. Martinoli; Genoa/IT
• Panel discussion: The role and guidelines of the imaging techniques on the management of MSK neoplasms

Monday, March 5, 08:30–10:00, Room E1
SF 16b: How should we image the patient with haematuria?

• Chairman’s introduction [A-500]
  A.T. Turgut; Ankara/TR
• Ultrasound and intravenous urography: what is the new role? [A-501]
  S. Moussa; Edinburgh/UK
• CT urography [A-502]
  M.N. Özmen; Ankara/TR
• MR urography [A-503]
  T. El-Diasty; Mansoura/EG
• Panel discussion: Which modality in which patient with haematuria?

Monday, March 5, 08:30–10:00, Room N/O
SF 16c: Paediatric head and neck imaging

• Chairman’s introduction [A-522]
  B. De Foer; Wilrijk-Antwerp/BE
• Imaging of temporal bone pathology in children [A-523]
  B. De Foer; Wilrijk-Antwerp/BE
• Imaging approach for a child with a neck mass [A-524]
  N.J.M. Freling; Amsterdam/NL
• Imaging of maxillofacial and sinonasal pathology in children [A-525]
  S. Bisdas; Tübingen/DE
• Panel discussion: How best to image the principal head and neck abnormalities in children

Monday, March 5, 16:00–17:30, Room F2
SF 19: Spinal intervention

• Chairman’s introduction [A-552]
  T. Sabharwal; London/UK
• Herniated disk? [A-553]
  X. Buy; Strasbourg/FR
• Vertebroplasty [A-554]
  A.D. Kelekis; Athens/GR
• Treatment of neoplasm [A-555]
  A. Gangi; Strasbourg/FR
• Facet pathology [A-556]
  N. Karunanithy; London/UK
• Panel discussion: What are the new advances in the above fields that may change current practice?
Professional Challenges Sessions

Thursday, March 1, 16:00–17:30, Room L/M
Joint Session of ESR and EANM
(European Association of Nuclear Medicine)
PC 3: Diagnosis of inflammatory conditions

- Chairmen’s introduction [A-040]
s. Bourguet; Rennes/FR
A. Palkó; Szeged/HU

- Imaging inflammatory bowel disease:
  the nuclear medicine perspective [A-041]
A. Signore; Rome/IT

- Imaging inflammatory bowel disease:
  the radiology perspective [A-042]
F. Maccioni; Rome/IT

- Vascular graft infections and inflammation:
  the nuclear medicine perspective [A-043]
O. Israel; Haifa/IL

- Vascular graft infections and inflammation:
  the radiology perspective [A-044]
A. Romero Jaramillo; Barcelona/ES

- Panel discussion: What is seen in the crystal ball: the future role of nuclear medicine and radiology in the evaluation of inflammatory conditions

Saturday, March 3, 16:00–17:30, Room F2
PC 11: An epidemic spreading from West to East: medico-legal challenges for radiologists

- Chairman’s introduction [A-290]
É. Breatnach; Dublin/IE

- The correct conduct when you have just made a mistake [A-291]
L. Berlin; Skokie, IL/US

- Medico-legal issues within paediatric practice: the history, the challenges, and the future [A-292]
C. Owens; London/UK

- Case-based review of medico-legal aspects in emergency radiology [A-293]
A. Pinto; Naples/IT

- Panel discussion: Specific case scenarios illustrating medico-legal pitfalls in communication skills, paediatric and emergency radiology

Monday, March 5, 08:30–10:00, Room L/M
Joint Session of ESR and ICRP
(International Commission on Radiological Protection)
PC 16: Upcoming challenges in radiation protection

- Chairmen’s introduction [A-518]
E. Vaño; Madrid/ES
P. Vock; Berne/CH

- Challenges in radiation protection for imaging: work in progress by ICRP [A-519]
E. Vaño; Madrid/ES

- To understand new challenges, such as imaging in asymptomatic individuals [A-520]
K. Åhlström Riklund; Umeå/SE

- Hybrid systems and growing challenge posed by CT [A-521]
M.M. Rehani; Vienna/AT

- Panel discussion: Optimisation vs justification: range of 1-10 mSv CT examination vs more strict selection of indications
Multidisciplinary Sessions
Managing Patients with Cancer

Thursday, March 1, 16:00–17:30, Room E2
MS 3: Pancreatic tumours

- Chairman’s introduction [A-023]
  R. Manfredi; Verona/IT
- What the surgeon needs to know [A-024]
  C. Bassi; Verona/IT
- Complete or incomplete resection: the added value of the pathologist [A-025]
  G. Zamboni; Verona/IT
- Imaging of pancreatic tumours [A-026]
  R. Manfredi; Verona/IT
- Case presentation and discussion [A-027]
  R. Manfredi; Verona/IT

Friday, March 2, 08:30–10:00, Room L/M
MS 4: Lymphoma

- Chairman’s introduction [A-095]
  E. de Kerviler; Paris/FR
- The pathologist’s viewpoint on lymphomas [A-096]
  J. Brière; Paris/FR
- What the haematologist needs to know [A-097]
  P. Brice; Paris/FR
- How modern imaging can influence therapy in lymphomas [A-098]
  E. de Kerviler; Paris/FR
- Case presentation and discussion [A-099]
  E. de Kerviler; Paris/FR

Saturday, March 3, 16:00–17:30, Room E2
MS 11: Breast cancer

- Chairman’s introduction [A-280]
  T.H. Helbich; Vienna/AT
- From the radiologist’s perspective [A-281]
  T.H. Helbich; Vienna/AT
- From the surgeon’s perspective [A-282]
  M. Gnant; Vienna/AT
- From the oncologist’s perspective [A-283]
  G. Steger; Vienna/AT
- Case presentation and discussion [A-284]
  T.H. Helbich; Vienna/AT
Party
Thursday, March 1, 21:30
Disco U4
Tickets on sale at the Travel Service Desk in the entrance hall.
### Categorical Courses

**CLICK (Clinical Lessons for Imaging Core Knowledge): Common Clinical Cases**

**Saturday, March 3, 16:00–17:30, Room C**

**CC 1118: Palpable abdominal mass**

**Moderator:** C. Matos; Brussels/BE  
**A. Clinical considerations [A-267]**  
D. Akata; Ankara/TR  
**B. Imaging techniques and typical findings [A-268]**  
M. Prokop; Nijmegen/NL  
**C. Interactive case discussion [A-269]**  
A.H. Freeman; Cambridge/UK

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### Interactive session with electronic voting/self assessment

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**Sunday, March 4, 14:00–15:30, Room C**

**CC 1418: The vomiting infant and child**

**Moderator:** M. Riccabona; Graz/AT  
**A. Clinical considerations [A-388]**  
L-S. Ording-Müller; Tromsø/NO  
**B. Imaging techniques and typical findings [A-389]**  
H.-J. Mentzel; Jena/DE  
**C. Interactive case discussion [A-390]**  
R.R. van Rijn; Amsterdam/NL

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**Sunday, March 4, 08:30–10:00, Room C**

**CC 1218: Focal neurological disorders**

**Moderator:** M. Golebiowski; Warsaw/PL  
**A. Clinical considerations [A-320]**  
D. Balériaux; Brussels/BE  
**B. Imaging techniques and typical findings [A-321]**  
G. Rudas; Budapest/HU  
**C. Interactive case discussion [A-322]**  
G. Krumina; Riga/LV

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**Sunday, March 4, 10:30–12:00, Room C**

**CC 1318: Female pelvic pain**

**Moderator:** V. Logager; Copenhagen/DK  
**A. Clinical considerations [A-371]**  
G. Restaino; Campobasso/IT  
**B. Imaging techniques and typical findings [A-372]**  
B. Brkljacic; Zagreb/HR  
**C. Interactive case discussion [A-373]**  
A.G. Rockall; London/UK

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**Monday, March 5, 08:30–10:00, Room C**

**CC 1618: Surprise in the liver**

**Moderator:** M. Lewin; Villejuif/FR  
**A. Clinical considerations [A-491]**  
E. Szabó; Szeged/HU  
**B. Imaging techniques and typical findings [A-492]**  
C.J. Zech; Munich/DE  
**C. Interactive case discussion [A-493]**  
G. Brancatelli; Palermo/IT

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= Interactive session with electronic voting/self assessment
Categorical Courses

Emergencies in Neuroradiology

**Thursday, March 1, 16:00–17:30, Room D1**
**CC 319: Ischaemic stroke**
('acute neurologic deficit')
Moderator: R.D. Brünning; Hamburg/DE
A. Early diagnosis of ischaemic stroke:
CT, MRI or other? [A-013]
A. van der Lugt; Rotterdam/NL
B. Which patients are candidates for thrombolysis? [A-014]
K.-O. Lovblad; Geneva/CH
C. Interventional neuroradiology for the treatment of ischaemic stroke [A-015]
I. Sikora; Budapest/HU

**Tuesday, March 2, 16:00–17:30, Room D1**
**CC 419: Acute infections of the central nervous system**
Moderator: V. Dousset; Bordeaux/FR
A. Acute infections of the brain [A-444]
S. Karampekios; Iraklion/GR
B. Acute infections of the spine and spinal cord [A-445]
M.M. Thurnher; Vienna/AT
C. Acute disseminating encephalomyelitis [A-446]
F. Barkhof; Amsterdam/NL

**Saturday, March 3, 16:00–17:30, Room D1**
**CC 1119: Subarachnoid haemorrhage**
('the worst headache ever')
Moderator: P.H. Nakstad; Oslo/NO
A. Diagnosis of subarachnoid haemorrhage (SAH) [A-270]
M. Söderman; Stockholm/SE
B. Endovascular treatment of aneurysms [A-271]
M.H.J. Voormolen; Edegem/BE
C. Imaging after aneurysm treatment [A-272]
J.-P. Pruvo; Lille/FR

**Sunday, March 4, 08:30–10:00, Room D1**
**CC 1219: Radiological management of traumatic emergencies**
Moderator: D. Goldsher; Haifa/IL
A. Maxillofacial trauma [A-323]
B.F. Schuknecht; Zurich/CH
B. Craniofacial trauma [A-324]
P.M. Parizel; Antwerp/BE
C. Spine trauma [A-325]
A. Cianfoni; Charleston, SC/US

**Sunday, March 4, 14:00–15:30, Room D1**
**CC 1419: Oncologic emergencies in neuroradiology**
Moderator: I. Walecki; Warsaw/PL
A. Acute paraparesis [A-391]
M. Essig; Erlangen/DE
B. Iatrogenic emergencies in oncology patients:
PRES and radiation necrosis [A-392]
P.C. Maly Sundgren; Lund/SE
C. Interventional techniques in oncologic patients [A-393]
A. Gangi; Strasbourg/FR

**Sunday, March 4, 16:00–17:30, Room D1**
**CC 1519: Acute central nervous system infections**
Moderator: V. Dousset; Bordeaux/FR
A. Acute infections of the brain [A-444]
S. Karampekios; Iraklion/GR
B. Acute infections of the spine and spinal cord [A-445]
M.M. Thurnher; Vienna/AT
C. Acute disseminating encephalomyelitis [A-446]
F. Barkhof; Amsterdam/NL

**Monday, March 5, 08:30–10:00, Room D1**
**CC 1619: Acute onset of cranial nerve dysfunctions**
Moderator: M.A. Papathanasiou; Athens/GR
A. Acute loss of vision [A-494]
S. Pedraza; Girona/ES
B. Hearing loss [A-495]
C. Colosimo; Rome/IT
C. Facial nerve paralysis and trigeminal neuralgia [A-496]
A. Borges; Lisbon/PT
Categorical Courses

Urogential Imaging

Saturday, March 3, 08:30–10:00, Room D2
CC 821: Renal and adrenal tumours
Moderator: G.M. Villeirs; Gent/BE
A. Imaging and staging of renal parenchymal tumours [A-199]
   U.G. Mueller-Lisse; Munich/DE
B. Tumours of the renal pelvis and ureter: the revolution of CT urography [A-200]
   N.C. Cowan; Oxford/UK
C. Adrenal tumours [A-201]
   F.M. Danza; Rome/IT

Saturday, March 3, 16:00–17:30, Room D2
CC 1121: Paediatric genito-urinary imaging
Moderator: E. Papadopoulou; Ioannina/GR
A. Normal findings and diseases of the male and female developing genital systems [A-273]
   M.L. Lobo; Lisbon/PT
B. Imaging urogenital tumours in children: what is different from imaging in adults? [A-274]
   M.B. Damasio; Genoa/IT
C. Hydronephrosis and urinary tract obstruction in neonates and infants [A-275]
   M. Riccabona; Graz/AT

Saturday, March 3, 08:30–10:00, Room D2
CC 1221: The female pelvis
Moderator: V. Gazhonova; Moscow/RU
A. Diagnosis of endometriosis with imaging [A-326]
   K. Kinkel; Chêne-Bougeries/CH
B. The acute female pelvis [A-327]
   E. Sala; Cambridge/UK
C. Imaging and image-guided therapy of uterine leiomyomas [A-338]
   T.J. Kroencke; Berlin/DE

Sunday, March 4, 14:00–15:30, Room D2
CC 1421: Tumours of the female pelvis
Moderator: M.M. Otero-García; Vigo/ES
A. Imaging of the ovarian mass: is US enough? [A-394]
   J.A. Spencer; Leeds/UK
B. Imaging and staging of endometrial tumours: putting guidelines into clinical practice [A-395]
   H. Hricak; New York, NY/US
C. Imaging and staging of tumours of the uterine cervix: putting guidelines into clinical practice [A-396]
   B. Hamm; Berlin/DE

Sunday, March 4, 16:00–17:30, Room D2
CC 1521: The patient with renal impairment
Moderator: P. Aspelin; Stockholm/SE
A. Iodine and Gd-based contrast media in patients with renal impairment: a tale of two evils [A-447]
   S.K. Morcos; Sheffield/UK
B. Imaging the impaired kidneys [A-448]
   M. Claudon; Vandoeuvre-les-Nancy/FR
C. The transplanted kidney [A-449]
   I. Sjekavica; Zagreb/HR
D. The AV shunts for haemodialysis: imaging and intervention [A-450]
   N. Grenier; Bordeaux/FR

Monday, March 5, 08:30–10:00, Room D2
CC 1621: Prostate and urinary bladder
Moderator: N. Papanicolaou; Philadelphia, PA/US
A. State-of-the-art imaging of prostate cancer: which technique should I use? [A-497]
   A.R. Padhani; Northwood/UK
B. Prostate cancer: how to be successful for clinicians [A-498]
   J.O. Barentsz; Nijmegen/NL
C. Bladder cancer: state-of-the-art aiming and staging [A-499]
   G. Heinz-Peer; Vienna/AT
Mini Courses

Organs from A to Z: Lung

Thursday, March 1, 16:00–17:30, Room F1
MC 322: Technical and anatomical fundamentals for imaging the lung

Moderator: F. Molinari; Rome/IT
A. Examination protocols for imaging the lung: CT and MRI [A-028]
   C.M. Schaefer-Prokop; Amersfoort/NL
B. Radiation dose in lung imaging: issues and practical solutions [A-029]
   D. Tack; Baudour/BE
C. Anatomy: the hinterland of normal on HRCT [A-030]
   S.J. Copley; London/UK
• Discussion

Friday, March 2, 08:30–10:00, Room F1
MC 422: Anatomy-based imaging review of lung disease

Moderator: N. Sverzellati; Parma/IT
A. Around and between the lungs: pleura, mediastinum, and hila [A-082]
   A. Oikonomou; Alexandroupolis/GR
B. Large airways, small airways, and alveoli [A-083]
   M. Zompatori; Bologna/IT
C. Pulmonary vessels [A-084]
   M. Rémy-Jardin; Lille/FR
• Discussion

Sunday, March 4, 16:00–17:30, Room F1
MC 1522: Causation-based imaging review of lung disease

Moderator: C. Mueller-Mang; Vienna/AT
A. Bacterial and viral pulmonary infections [A-458]
   T. Franquet; Barcelona/ES
B. Non-infectious inflammatory lung disease [A-459]
   A.A. Bankier; Boston, MA/US
C. Neoplastic lung disease [A-460]
   H.-U. Kauczor; Heidelberg/DE
• Discussion

Molecular Imaging

Thursday, March 1, 12:30–13:30, Room Z
MC 23A: Basics in molecular imaging (1)

Moderator: S. Chatziioannou; Athens/GR
A. Introduction to molecular imaging: a challenge for radiologists? [A-001]
   P. Brader; Vienna/AT
B. Multiscale imaging: from in vivo to in vitro and back [A-002]
   B. Tavitian; Orsay/FR
C. PET-CT-MRI and radiotracers for MI [A-003]
   L. Martí-Bonmatí; Valencia/ES

Friday, March 2, 12:30–13:30, Room Z
MC 23B: Basics in molecular imaging (2)

Moderator: J. Dijkstra; Leiden/NL
A. MR contrast agents for targeted MR imaging [A-121]
   S. Aime; Turin/IT
B. Sonographic and photo acoustic techniques for MI [A-122]
   F.M.A. Kiessling; Aachen/DE
C. Potential of optical imaging in vivo [A-123]
   V. Ntziachristos; Munich/DE

Saturday, March 3, 12:30–13:30, Room Z
MC 23C: Imaging tumour biology and microenvironment

Moderator: A.E. Sundin; Stockholm/SE
A. Modulation of the tumour microenvironment to optimise the response to therapies [A-258]
   B. Gallez; Brussels/BE
B. Molecular imaging of angiogenic characteristics of tumours [A-259]
   A.R. Patdhan; Northwood/UK
C. Targets for tumour characterisation and treatment response [A-260]
   F.A. Gallagher; Cambridge/UK

Sunday, March 4, 12:30–13:30, Room Z
MC 23D: From inflammatory to fibrotic processes

Moderator: T.F. Massoud; Cambridge/UK
A. Imaging inflammation in organs and vessels [A-379]
   X. Montet; Geneva/CH
B. Molecular imaging of extracellular matrix changes [A-380]
   M. Taupitz; Berlin/DE
C. Structural and molecular imaging of fibrotic process [A-381]
   B. Van Beers; Clichy/FR

Monday, March 5, 12:30–13:30, Room Z
MC 23E: Theranostics: combining imaging and treatment

Moderator: H.C. Steinert; Zurich/CH
   C. Moonen; Utrecht/NL
B. Imaging-guided cell-based therapy [A-539]
   O. Clément; Paris/FR
C. Imaging-guided gene-based therapy [A-540]
   M. Neeman; Rehovot/IL
### Controversies in Abdominal Imaging

**Friday, March 2, 08:30–10:00, Room D1**

**MC 424: Small bowel examination: CT vs MRI**

**Moderator:** B. Marinecek; Cleveland, OH/US  
**Teaser:** B. Gallix; Montpellier/FR

**A. Why I prefer CT [A-068]**  
G.A. Rollandi; Genoa/IT

**B. Why MRI is the best [A-069]**  
S. Gourtsoyianni; Athens/GR

**Discussion [A-070]**  
- B. Marinecek; Cleveland, OH/US  
- B. Gallix; Montpellier/FR

**Friday, March 2, 16:00–17:30, Room D1**

**MC 724: Liver imaging: always MR, or still a role for CT?**

**Moderator:** G. Brancatelli; Palermo/IT  
**Teaser:** W. Schima; Vienna/AT

**A. Why CT is the work horse [A-145]**  
P. Rogalla; Toronto, ON/CA

**B. Why MR is the ultimate tool [A-146]**  
C. Ayuso; Barcelona/ES

**Discussion [A-147]**  
- G. Brancatelli; Palermo/IT  
- W. Schima; Vienna/AT

**Saturday, March 3, 08:30–10:00, Room D1**

**MC 824: Abdominal emergencies: US resists CT!**

**Moderator:** M. Laniado; Dresden/DE  
**Teaser:** P.R. Ros; Cleveland, OH/US

**A. Why bother with CT when US answers so many questions? [A-196]**  
J.B.C.M. Puylaert; The Hague/NL

**B. Why lose time with US when CT gives you all you need to know? [A-197]**  
D. Akata; Ankara/TR

**Discussion [A-198]**  
- M. Laniado; Dresden/DE  
- P.R. Ros; Cleveland, OH/US

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### The Beauty of Basic Knowledge: Interpretation of the Chest Radiograph

**Thursday, March 1, 14:30–15:30, Room Z**

**MC 27A: The mediastinum**

J. Cáceres; Barcelona/ES [A-006]

**Friday, March 2, 14:30–15:30, Room Z**

**MC 27B: The heart**

J. Cáceres; Barcelona/ES [A-134]

**Saturday, March 3, 09:00–10:00, Room Z**

**MC 27C: Major vessels**

J. Cáceres; Barcelona/ES [A-237]

**Sunday, March 4, 11:00–12:00, Room Z**

**MC 27D: Pleura and chest wall**

J. Cáceres; Barcelona/ES [A-374]

**Monday, March 5, 11:00–12:00, Room Z**

**MC 27E: The diaphragm**

J. Cáceres; Barcelona/ES [A-537]

**Registration:**

These sessions are all fully booked.  
Places may become available at short notice onsite.
Mini Courses

Joint Course of ESR and RSNA
(Radiological Society of North America)

Friday, March 2, 08:30–10:00, Room I/K
MC 428: Essentials in oncologic imaging: what radiologists need to know (part 1)
Moderator: D.M. Panicek; New York, NY/US
A. Principles of oncologic imaging and reporting [A-092]
   D.M. Panicek; New York, NY/US
B. Lung cancers (primary, metastases) [A-093]
   C.J. Herold; Vienna/AT
C. Colon cancer [A-094]
   R.M. Gore; Evanston, IL/US
• Questions

Friday, March 2, 10:30–12:00, Room I/K
MC 528: Essentials in oncologic imaging: what radiologists need to know (part 2)
Moderator: D.M. Panicek; New York, NY/US
A. Pancreatic cancer [A-118]
   F. Caseiro-Alves; Coimbra/PT
B. Kidney cancer [A-119]
   E.K. Fishman; Baltimore, MD/US
C. Ovarian cancer [A-120]
   H. Hricak; New York, NY/US
• Questions

Friday, March 2, 14:00–15:30, Room I/K
MC 628: Essentials in oncologic imaging: what radiologists need to know (part 3)
Moderator: H.-U. Kauczor; Heidelberg/DE
A. Oncologic imaging:
   terminology, definitions and buzzwords [A-128]
   Y. Menu; Paris/FR
B. Liver cancers (primary, metastases) [A-129]
   R.L. Baron; Chicago, IL/US
C. Prostate cancer [A-130]
   J.O. Barentsz; Nijmegen/NL
• Questions

Friday, March 2, 16:00–17:30, Room I/K
MC 728: Essentials in oncologic imaging: what radiologists need to know (part 4)
Moderator: H.-U. Kauczor; Heidelberg/DE
A. Lymphoma [A-169]
   H. Schoder; New York, NY/US
B. Musculoskeletal neoplasms [A-170]
   M.F. Reiser; Munich/DE
C. Chemo- and radiation therapy-induced toxicity [A-171]
   H.-U. Kauczor; Heidelberg/DE
• Questions

= Interactive session with electronic voting/self assessment
Refresher Courses / Scientific Sessions
Abdominal and Gastrointestinal

Thursday, March 1, 10:30–12:00, Room E2

SS 101a: Crohn’s disease and intestinal inflammation [B-0051–B-0060]

Moderators: A. Gupta; London/UK
S. Romano; Naples/IT

Thursday, March 1, 10:30–12:00, Room I/K

SS 101b: Biliary tract [B-0091–B-0100]

Moderators: T. Denecke; Berlin/DE
G.G. Karmazanovsky; Moscow/RU

Thursday, March 1, 14:00–15:30, Room E2

SS 201a: GI tract: structure and function [B-0191–B-0200]

Moderators: S.A. Jackson; Plymouth/UK
B. Lucey; Galway/IE

Thursday, March 1, 14:00–15:30, Room I/K

SS 201b: CT technique [B-0230 – B-0239]

Moderators: A. Alcalá-Galiano; Madrid/ES
S. Stojanovic; Novi Sad/RS

Thursday, March 1, 16:00–17:30, Room C

RC 301: Abdominal tumour evaluation: from morphology to biology

• Chairman’s introduction [A-009]
D.J. Lomas; Cambridge/UK
A. Morphological assessment of tumour extension [A-010]
I. Bargellini; Pisa/IT
B. Perfusion: a reliable tool for tumour activity assessment [A-011]
F. Berger; Munich/DE
C. Beyond vascularisation: exploring tumour biology [A-012]
L. Martí-Bonmatí; Valencia/ES
• Panel discussion: How can you easily implement morphological and functional tools into your clinical practice?

Friday, March 2, 10:30–12:00, Room L/M

SS 501: Liver (non primary lesions) [B-0330–B-0339]

Moderators: B.J. Op de Beeck; Antwerp/BE
A. Siemianowicz; Piekarś Śląski/PL

Friday, March 2, 14:00–15:30, Room F1

SS 601: MRI (high field) [B-0440–B-0449]

Moderators: K. Holzapfel; Munich/DE
O. Lucidarme; Paris/FR

Friday, March 2, 16:00–17:30, Room A

RC 701: How I report

Moderator: M.M. Maher; Cork/IE
A. MRI in a patient with rectal cancer [A-135]
D.J.M. Tolan; Leeds/UK
B. CT in a patient with bowel obstruction [A-136]
P. Taourel; Montpellier/FR
C. CT in a patient with a solid mass of the pancreas [A-137]
C. Valls; Barcelona/ES

Saturday, March 3, 08:30–10:00, Room F1

RC 801: Rectal cancer imaging: the next phase

• Chairman’s introduction [A-209]
L.C.O. Blomqvist; Stockholm/SE
A. Local and distant staging [A-210]
S. Schmidt; Lausanne/CH
B. Assessing tumour response [A-211]
S. Gourtsoyianni; Athens/GR
C. Changes in clinical treatment paradigms: the role of radiology [A-212]
R.G.H. Beets-Tan; Maastricht/NL
• Panel discussion: What will clinicians really expect from us in 2012? How should we image our patients?

Saturday, March 3, 10:30–12:00, Room I/K

SS 901: Pancreas [B-0559–B-0568]

Moderators: K. Coenegrachts; Bruges/BE
R. Pozzi-Mucelli; Verona/IT

Sunday, March 4, 08:30–10:00, Room E2

SS 1301a: Rectal and gastro-oesophageal cancer [B-0649–B-0658]

Moderators: A. Dieguez; Buenos Aires/AR
C. Kulinna-Cosentini; Vienna/AT

Sunday, March 4, 10:30–12:00, Room I/K

SS 1301b: HCC diagnosis [B-0689–B-0698]

Moderators: C. Ayuso; Barcelona/ES
A. Furlan; Pittsburgh, PA/US

Thursday, March 1, 10:30–12:00, Room I/K

SS 101a: Crohn’s disease and intestinal inflammation [B-0051–B-0060]

Moderators: A. Gupta; London/UK
S. Romano; Naples/IT

Thursday, March 1, 10:30–12:00, Room I/K

SS 101b: Biliary tract [B-0091–B-0100]

Moderators: T. Denecke; Berlin/DE
G.G. Karmazanovsky; Moscow/RU

Thursday, March 1, 14:00–15:30, Room E2

SS 201a: GI tract: structure and function [B-0191–B-0200]

Moderators: S.A. Jackson; Plymouth/UK
B. Lucey; Galway/IE

Thursday, March 1, 14:00–15:30, Room I/K

SS 201b: CT technique [B-0230 – B-0239]

Moderators: A. Alcalá-Galiano; Madrid/ES
S. Stojanovic; Novi Sad/RS

Thursday, March 1, 16:00–17:30, Room C

RC 301: Abdominal tumour evaluation: from morphology to biology

• Chairman’s introduction [A-009]
D.J. Lomas; Cambridge/UK
A. Morphological assessment of tumour extension [A-010]
I. Bargellini; Pisa/IT
B. Perfusion: a reliable tool for tumour activity assessment [A-011]
F. Berger; Munich/DE
C. Beyond vascularisation: exploring tumour biology [A-012]
L. Martí-Bonmatí; Valencia/ES
• Panel discussion: How can you easily implement morphological and functional tools into your clinical practice?

Friday, March 2, 10:30–12:00, Room L/M

SS 501: Liver (non primary lesions) [B-0330–B-0339]

Moderators: B.J. Op de Beeck; Antwerp/BE
A. Siemianowicz; Piekarś Śląski/PL

Friday, March 2, 14:00–15:30, Room F1

SS 601: MRI (high field) [B-0440–B-0449]

Moderators: K. Holzapfel; Munich/DE
O. Lucidarme; Paris/FR

Friday, March 2, 16:00–17:30, Room A

RC 701: How I report

Moderator: M.M. Maher; Cork/IE
A. MRI in a patient with rectal cancer [A-135]
D.J.M. Tolan; Leeds/UK
B. CT in a patient with bowel obstruction [A-136]
P. Taourel; Montpellier/FR
C. CT in a patient with a solid mass of the pancreas [A-137]
C. Valls; Barcelona/ES

Saturday, March 3, 08:30–10:00, Room F1

RC 801: Rectal cancer imaging: the next phase

• Chairman’s introduction [A-209]
L.C.O. Blomqvist; Stockholm/SE
A. Local and distant staging [A-210]
S. Schmidt; Lausanne/CH
B. Assessing tumour response [A-211]
S. Gourtsoyianni; Athens/GR
C. Changes in clinical treatment paradigms: the role of radiology [A-212]
R.G.H. Beets-Tan; Maastricht/NL
• Panel discussion: What will clinicians really expect from us in 2012? How should we image our patients?

Saturday, March 3, 10:30–12:00, Room I/K

SS 901: Pancreas [B-0559–B-0568]

Moderators: K. Coenegrachts; Bruges/BE
R. Pozzi-Mucelli; Verona/IT

Sunday, March 4, 08:30–10:00, Room E2

SS 1301a: Rectal and gastro-oesophageal cancer [B-0649–B-0658]

Moderators: A. Dieguez; Buenos Aires/AR
C. Kulinna-Cosentini; Vienna/AT

Sunday, March 4, 10:30–12:00, Room I/K

SS 1301b: HCC diagnosis [B-0689–B-0698]

Moderators: C. Ayuso; Barcelona/ES
A. Furlan; Pittsburgh, PA/US
Refresher Courses / Scientific Sessions

**Abdominal and Gastrointestinal**

**Sunday, March 4, 16:00–17:30, Room A**
**RC 1501: Abdominal MRI: standard and advanced protocols in clinical settings**

Moderator: I. Vivas; Pamplona/ES
A. Liver: how to study a cirrhotic patient [A-437]
   A. Filippone; Chieti/IT
B. Small bowel and colon: how to study a patient with suspected inflammatory bowel disease [A-438]
   N. Papanikolau; Iraklion/GR
C. Pancreas and bile ducts: how to study a patient with suspected chronic pancreatitis [A-439]
   M.A. Bali; Brussels/BE

**Monday, March 5, 08:30–10:00, Room F1**
**RC 1601: The cystic lesions of the pancreas**

Moderator: D.J. Breen; Southampton/UK
A. How can we differentiate cystic neoplasms from pseudocysts? [A-508]
   H.-J. Brambs; Ulm/DE
B. IPMN: diagnostic and staging criteria [A-509]
   R. Manfredi; Verona/IT
C. How to manage incidental findings [A-510]
   C. Triantopoulou; Athens/GR

**Monday, March 5, 10:30–12:00, Room I/K**
**SS 1701: MRI of focal liver lesions [B-0818–B-0827]**

Moderators: S. Bohata; Brno/CZ
   P. Huppert; Darmstadt/DE

**Monday, March 5, 14:00–15:30, Room I/K**
**SS 1801a: CT colonography and beyond [B-0868–B-0876]**

Moderators: P. Lefere; Roeselare/BE
   A.M. Riddell; Sutton/UK

**Monday, March 5, 14:00–15:30, Room I/K**
**SS 1801b: Abdomen [B-0957–B-0966]**

Moderators: F.A. Arredondo; Guatemala City/GT
   O. Buckley; Dublin/IE

**Monday, March 5, 16:00–17:30, Room C**
**RC 1901: Crohn’s disease of the small bowel: which test when?**

- Chairman’s introduction [A-541]
  J. Stoker; Amsterdam/NL
A. Detection and classification [A-542]
   M.A. Patak; Zurich/CH
B. Disease activity assessment [A-543]
   F. Maccioni; Rome/IT
C. Complications and follow-up [A-544]
   L. Curvo-Semedo; Coimbra/PT
- Panel discussion: How can imaging change patient management in Crohn’s disease?

**Breast**

**Thursday, March 1, 10:30–12:00, Room F2**
**SS 102: MRI: 3T, unenhanced and more [B-0071–B-0080]**

Moderators: A. Linda; Udine/IT
   C. Loo; Amsterdam/NL

**Thursday, March 1, 14:00–15:30, Room F2**
**SS 202a: New technologies [B-210–B-0219]**

Moderators: P. Panizza; Milan/IT
   E. Szabó; Szeged/HU

**Thursday, March 1, 14:00–15:30, Room G/H**
**SS 202b: MRI: contrast media and clinical applications [B-0220 – B-0229]**

Moderators: R.M. Mann; Nijmegen/NL
   J.L. Raya Povedano; Córdoba/ES

**Thursday, March 1, 16:00–17:30, Room F2**
**RC 302: Functional imaging of the breast**

Moderator: K. Pinker; Vienna/AT
A. Contrast-enhanced mammography [A-031]
   C.S. Balleyguier; Villejuif/FR
B. Ultrasound elastography [A-032]
   A. Athanasiou; Paris/FR
C. MRI diffusion, perfusion and spectroscopy [A-033]
   P.A.T. Baltzer; Jena/DE

**Friday, March 2, 10:30–12:00, Room F2**
**SS 502: Ultrasound: new developments [B-0310–B-0319]**

Moderators: U. Bick; Berlin/DE
   S. Ganau Macías; Sabadell/ES

**Friday, March 2, 14:00–15:30, Room F2**
**SS 602: Tomosynthesis and FFDM [B-0450 – B-0459]**

Moderators: M. Michell; London/UK
   E. Siopis; Bologna/IT

**Friday, March 2, 16:00–17:30, Room F2**
**RC 702: Breast MRI today**

- Chairman’s introduction [A-162]
  C.K. Kuhl; Aachen/DE
A. How to set up a high quality breast MRI unit [A-163]
   M.L.A. Van Goethem; Antwerp/BE
B. Beyond differential diagnosis and local staging: prognosis and distant staging [A-164]
   J. Velman; Almelo/NL
C. Evidence-based controversies [A-165]
   F. Sardanelli; Milan/IT
- Panel discussion: Do we find too many cancers with MRI?

**Saturday, March 3, 10:30–12:00, Room F2**
**SS 902: Screening mammography and CAD [B-0549–B-0558]**

Moderators: E.M. Fallenberg; Berlin/DE
   P. Skaane; Oslo/NO
Refresher Courses / Scientific Sessions

Breast

Sunday, March 4, 08:30–10:00, Room F2
RC 1202: Breast interventions: from diagnosis to treatment

Moderator: S.H. Heywang-Köbrunner; Munich/DE
A. Practical tips for a successful needle biopsy procedure [A-341]
L.I. Pina Insauti; Pamplona/ES
B. Underestimation of disease in needle biopsies [A-342]
S.C.E. Diepstraten; Utrecht/NL
C. New developments: therapeutic interventional procedures [A-343]
G. Manenti; Rome/IT

Sunday, March 4, 10:30–12:00, Room F2
SS 1302: Interventional procedures [B-0669–B-0678]
Moderators: S. Allen; Sutton/UK
M. Álvarez-Benito; Córdoba/ES

Sunday, March 4, 14:00–15:30, Room F2
RC 1402: How I report

Moderator: I. Leconte; Brussels/BE
A. Mammography [A-409]
F.J. Gilbert; Cambridge/UK
B. Breast US [A-410]
G. Rizzatto; Gorizia/IT
C. Breast MRI [A-411]
M.H. Fuchsjäger; Vienna/AT

Sunday, March 4, 16:00–17:30, Room F2
RC 1502: Evaluation of the treated breast and follow-up

Chairman’s introduction [A-461]
M. Sentis; Sabadell/ES
A. Evaluation of residual disease after excisional biopsy [A-462]
K.A. Frei; Hinterkappelen/CH
B. Evaluation of response to neoadjuvant chemotherapy [A-463]
L. Martinich; Candolao/IT
C. Surveillance for and detection of recurrent disease after therapy [A-464]
I. Schreer; Kiel/DE

Panel discussion: The new challenge in breast cancer: evaluation of response

Monday, March 5, 10:30–12:00, Room F2
SS 1702: MRI sequences: advances and applications [B-0798–B-0807]
Moderators: E. Taheri; Tehran/IR
S.I. Vinnicombe; Dundee/UK

Monday, March 5, 14:00–15:30, Room F2
SS 1802: MRI: diagnosis and surgical settings [B-0937–B-0946]
Moderators: M. Lobbes; Maastricht/NL
R. Salvador; Barcelona/ES

Cardiac

Thursday, March 1, 10:30–12:00, Room Q
SS 103: Acute coronary syndromes: viability [B-0131–B-0140]
Moderators: G. Hadjilekov; Sofia/BG
G.A. Krombach; Giessen/DE

Thursday, March 1, 14:00–15:30, Room L/M
SS 203a: Perfusion, CT and MRI [B-0240–B-0249]
Moderators: M. Francone; Rome/IT
M. Gardarsdottir; Reykjavik/IS

Thursday, March 1, 16:00–17:30, Room I/K
RC 303: Cardiac imaging: the cutting edge

Moderator: J. Vymazal; Prague/CZ
A. Cardiac MRI: high fields vs 1.5T [A-037]
B.J. Wintersperger; Toronto, ON/CA
B. Cardiac CT: tubes, rows and what else? [A-038]
K. Nikolaou; Munich/DE
C. Cardiac hybrid imaging [A-039]
P.A. Kaufmann; Zurich/CH

Friday, March 2, 08:30–10:00, Room P
RC 403: How I report

Moderator: E. Mershina; Moscow/RU
A. Chest x-ray in cardiac disease [A-100]
L. Natale; Sesto Fiorentino/IT
B. Coronary CTA [A-101]
H. Alkadhi; Zurich/CH
C. Cardiac MRI in ischaemic heart disease [A-102]
J. Bogaert; Leuven/BE

Friday, March 2, 10:30–12:00, Room Q
SS 503: CT coronary angiography: stenosis assessment [B-0350–B-0369]
Moderators: G. Feuchtner; Innsbruck/AT
N.-E. Klow; Oslo/NO

Friday, March 2, 14:00–15:30, Room B
SS 603: CT and MRI: reconstruction algorythms and dose reduction [B-0390–B-0399]
Moderators: K. Nikolaou; Munich/DE
P.K. Vanhoenacker; Aalst/BE
Refresher Courses / Scientific Sessions

**Cardiac**

**Friday, March 2, 16:00–17:30, Room P**

**RC 703: Imaging of ischaemic heart disease**

*Moderator:* K. Gruszczynska; Katowice/PL
A. **CT: angiography, function and perfusion** [A-179]
   G. Feuchtner; Innsbruck/AT
B. **MR perfusion imaging:** how much quantification do we need? [A-180]
   A. de Roos; Leiden/NL
C. **Imaging patients after bypass surgery** [A-181]
   K.-F. Kreitner; Mainz/DE

**Saturday, March 3, 10:30–12:00, Room L/M**

**SS 903: Cardiomyopathies: CT, MRI and PET** [B-0569–B-0578]

*Moderators:* A. Esposito; Milan/IT
M. Gutberlet; Leipzig/DE

**Sunday, March 4, 16:00–17:30, Room I/K**

**RC 1503: MRI and CT before cardiac interventions or surgery**

- Chairman’s introduction [A-468]
  G.P. Krestin; Rotterdam/NL
A. Can CT predict the outcome of percutaneous intervention? [A-469]
   C. Loewe; Vienna/AT
B. Can MRI predict the outcome of coronary revascularisation? [A-470]
   M. Francoine; Rome/IT
C. The value of CT before percutaneous aortic valve replacement [A-471]
   R. Salgado; Antwerp/BE
- Panel discussion: Improve your interaction with your colleagues

**Monday, March 5, 10:30–12:00, Room L/M**

**SS 1703: CT and MRI: risk stratification, prognosis and outcome** [B-0828–B-0837]

*Moderators:* A. Bernardini; Teramo/IT
M. Pasowicz; Krakow/PL

**Monday, March 5, 14:00–15:30, Room Q**

**SS 1803: Cardiac imaging: miscellaneous** [B-0997–B-1006]

*Moderators:* T. Leiner; Utrecht/NL
N.H. Strickland; London/UK

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**Chest**

**Thursday, March 1, 10:30–12:00, Room D1**

**SS 104: Neoplasms: staging, risk and surgery** [B-0021–B-0030]

*Moderators:* S. Ley; Toronto, ON/CA
K. Malagari; Athens/GR

**Thursday, March 1, 14:00–15:30, Room D1**

**SS 204: Pulmonary nodules** [B-0161–B-0170]

*Moderators:* M. Das; Maastricht/NL
B. Feragalli; Chieti/IT

**Friday, March 2, 10:30–12:00, Room D1**

**SS 504: CTPA, dual energy and dose reduction** [B-0270–B-0279]

*Moderators:* T. Frauenfelder; Zurich/CH
B. Ghaye; Brussels/BE

**Friday, March 2, 14:00–15:30, Room D1**

**SS 604: Airway diseases** [B-0410–B-0419]

*Moderators:* I. Hartmann; Rotterdam/NL
N.J. Screaton; Cambridge/UK

**Saturday, March 3, 08:30–10:00, Room I/K**

**RC 804: How I report**

*Moderator:* M. Escobar; Barcelona/ES
A. **Bedside chest radiography** [A-222]
   E.E.J.G. Coche; Brussels/BE
B. **CT angiography** [A-223]
   J.E. Wildberger; Maastricht/NL
C. **PET/CT** [A-224]
   E.J.R. van Beek; Edinburgh/UK

**Saturday, March 3, 10:30–12:00, Room D1**

**SS 904: Image quality and dose reduction** [B-0510–B-0519]

*Moderators:* M. Brink; Nijmegen/NL
M.-P. Revel; Paris/FR

**Saturday, March 3, 16:00–17:30, Room I/K**

**RC 1104: Patterns in chest radiology: are there subtype patterns of ground glass opacity (GGO)?**

- Chairman’s introduction [A-297]
  A. Oikonomou; Alexandroupolis/GR
A. **Ground glass opacification:** why do we see it and what can it mean? [A-298]
  S.R. Desai; London/UK
B. **Inflammatory and infectious GGO** [A-299]
   K. Marten-Engelke; Göttingen/DE
C. **GGO in dysplasia and neoplasia** [A-300]
   J.M. Goo; Seoul/KR
- Panel discussion: How do we report and manage ground glass opacity?
Chest Computer Applications

**Sunday, March 4, 08:30–10:00, Room I/K**

RC 1204: When CT sees both the heart and the lungs

- Chairman's introduction [A-347]
  M. Rémy-Jardin; Lille/FR

A. Anatomic cardiac details that every radiologist should know [A-348]
  J. Bremerich; Basle/CH

B. Incidental findings and their clinical relevance [A-349]
  J.D. Dodd; Dublin/IE

C. Pulmonary hypertension and right ventricle function [A-350]
  K.-F. Kreitner; Mainz/DE

- Panel discussion: Ready for routine reporting of cardiovascular findings on CT scans of the chest?

**Sunday, March 4, 10:30–12:00, Room D1**

SS 1304: Interaction: lung, heart and circulation [B-0619–B-0628]

**Moderators:**
J. Bremerich; Basle/CH
N. Karabulut; Denizli/TR

**Monday, March 5, 08:30–10:00, Room I/K**

RC 1604: Patterns in chest radiology: diffuse lung diseases – what the radiologist should know

- Chairman's introduction [A-514]
  D.M. Hansell; London/UK

A. The glossary of terms for thoracic imaging: old and new definitions [A-515]
  J.A. Verschakelen; Leuven/BE

B. From pattern recognition to disease diagnosis: a practical approach (part 1) [A-516]
  A. Devaraj; London/UK

C. From pattern recognition to disease diagnosis: a practical approach (part 2) [A-517]
  N. Howarth; Chêne-Bougeries/CH

- Panel discussion: How do we report CT of diffuse lung disease?

**Monday, March 5, 10:30–12:00, Room D1**

SS 1704: Tissue characterisation [B-0748–B-0757]

**Moderators:**
R. Cesar; Golnik/SI
M. Wielputz; Heidelberg/DE

**Monday, March 5, 16:00–17:30, Room I/K**

RC 1904: Phenotypes in obstructive airway disease: how do I image, analyse and report?

**Moderator:**
P.A. Grenier; Paris/FR

A. Asthma and associated conditions [A-560]
  P.-Y. Brillet; Bobigny/FR

B. Chronic obstructive pulmonary disease (COPD) [A-561]
  N. Sverzellati; Parma/IT

C. Cystic fibrosis and other bronchiectatic diseases [A-562]
  M.U. Puderbach; Heidelberg/DE

**Computer Applications**

**Thursday, March 1, 10:30–12:00, Room Z**

SS 105: Image processing (part 1) [B-0141–B-0150]

**Moderators:**
P. Badura; Gliwice/PL
E. Kotter; Freiburg/DE

**Thursday, March 1, 16:00–17:30, Room Q**

RC 305: Image processing and computer-aided diagnosis (CAD)

- Chairman's introduction [A-052]
  O. Ratib; Geneva/CH

A. The link between image reconstruction and image analysis [A-053]
  A. Todd-Pokropek; London/UK

B. Semantic web technologies for sharing and reuse of imaging-related information [A-054]
  B. Gibaud; Rennes/FR

C. Image processing and CAD: workflow in clinical practice [A-055]
  E. Neri; Pisa/IT

- Panel discussion: How do image processing and CAD impact radiological daily practice?

**Friday, March 2, 10:30–12:00, Room Z**

SS 505: Image processing (part 2) [B-0370–B-0379]

**Moderators:**
L. Fischer; Vienna/AT
E. Neri; Pisa/IT

**Saturday, March 3, 10:30–12:00, Room Z**

SS 905: Computer assisted diagnosis (CAD) [B-0599–B-0608]

**Moderators:**
B. Merlino; Rome/IT
R. van ’t Klooster; Leiden/NL

**Monday, March 5, 08:30–10:00, Room Q**

RC 1605: New PACS architecture: decoupling image management from image navigation

- Chairman's introduction [A-529]
  H.U. Lemke; Berlin/DE

A. Image navigation and new PACS architecture [A-530]
  J. Reponen; Raahen/FI

B. Intraoperative imaging for surgeons [A-531]
  A. Pietrabissa; Pavia/IT

C. Dismantling PACS: separating the image viewing from the data storage and sharing [A-532]
  L.N. Sutton; Halifax/UK

- Panel discussion: How should we manage our images today?

**Monday, March 5, 14:00–15:30, Room Z**

SS 1805: Imaging informatics [B-1007–B-1016]

**Moderators:**
M. Fatehi; Tehran/IR
P. Mc Laughlin; Cork/IE
Refresher Courses / Scientific Sessions

Molecular Imaging and Contrast Media

**Thursday, March 1, 10:30–12:00, Room L/M**
**SS 106: Advanced topics [B-0101–B-0110]**

**Moderators:** I. Carrió; Barcelona/ES
T.D. Henning; Cologne/DE

**Friday, March 2, 08:30–10:00, Room C**
**RC 406: Contrast media and tracers: always as safe as we wish?**
- **Chairman’s introduction [A-064]**
S.K. Morcos; Sheffield/UK

A. Iodinated CM: whether CIN is a SIN, and how to avoid it [A-065]
R.W.F. Geenen; Alkmaar/NL

B. MR contrast agents: rumble in the jungle [A-066]
G. Heinz-Peer; Vienna/AT

C. PET tracers: established tracers and those on the horizon [A-067]
B. Tavitian; Orsay/FR

- Panel discussion: What specific precautions are mandatory in order to guarantee contrast media safety to patients and healthcare professionals?

**Friday, March 2, 14:00–15:30, Room L/M**
**SS 606: Hybrid imaging: PET-CT and MR-PET [B-0470–B-0479]**

**Moderators:** K. Åhlström Riklund; Umeå/SE
L.S. Politi; Milan/IT

**Sunday, March 4, 10:30–12:00, Room L/M**
**SS 1306: Safety and diagnostic value [B-0699–B-0708]**

**Moderators:** R. Lagalla; Palermo/IT
Y.W. Nielsen; Copenhagen/DK

**Monday, March 5, 14:00–15:30, Room L/M**
**SS 1806: Applications in US, CT and MRI [B-0967–B-0976]**

**Moderators:** C.U. Herborn; Hamburg/DE
P. Reimer; Karlsruhe/DE

**Monday, March 5, 16:00–17:30, Room D2**
**RC 1906: How I optimise contrast media administration**

**Moderator:** A.J. van der Molen; Leiden/NL
A. CT [A-545]
P. Leander; Malmö/SE

B. MRI [A-546]
G.M. Bongartz; Basle/CH

C. PET/CT [A-547]
X. Montet; Geneva/CH

Genitourinary

**Thursday, March 1, 10:30–12:00, Room F1**
**SS 107: Prostate MR imaging [B-0061–B-0070]**

**Moderators:** J.J. Fütterer; Nijmegen/NL
J. Richenberg; Brighton/UK

**Thursday, March 1, 14:00–15:30, Room F1**
**SS 207: Genitourinary CT [B-0201–B-0209]**

**Moderators:** O. Nikolic; Novi Sad/RS
J. Stoker; Amsterdam/NL

**Thursday, March 1, 16:00–17:30, Room G/H**
**RC 307: Imaging the female pelvis**

**Moderator:** M. Secil; Izmir/TR
A. Imaging for pelvic pain in pregnancy [A-034]
M.-F. Bellin; Le Kremlin-Bicêtre/FR

B. Imaging gynaecological emergencies [A-035]
A.G. Rockall; London/UK

C. Imaging for non-gynaecological emergencies [A-036]
R.F. El Sayed; Cairo/EG

**Friday, March 2, 10:30–12:00, Room F1**
**SS 507: Gynaecological MR imaging [B-0300–B-0309]**

**Moderators:** C.D. Alt; Heidelberg/DE
S. Barter; Cambridge/UK

**Friday, March 2, 16:00–17:30, Room G/H**
**RC 707: Diagnosis and management of GU tract trauma**

**Moderator:** A. Magnusson; Uppsala/SE
A. Imaging the kidney and ureter [A-166]
M.-F. Bellin; Le Kremlin-Bicêtre/FR

B. Imaging the bladder and urethra [A-167]
U.G. Mueller-Lisse; Munich/DE

C. Interventional radiology for GU trauma [A-168]
B. Peynircioglu; Ankara/TR

**Sunday, March 4, 08:30–10:00, Room G/H**
**RC 1207: How I report**

**Moderator:** D. Negrut; Iasi/RO
A. Female pelvis MRI [A-344]
C. Del Frate; San Daniele del Friuli/IT

B. Prostate MRI [A-345]
J.J. Fütterer; Nijmegen/NL

C. CT urography [A-346]
N.C. Cowan; Oxford/UK

**Sunday, March 4, 10:30–12:00, Room F1**
**SS 1307: Adrenal and kidney imaging [B-0659–B-0668]**

**Moderators:** M. Ramalho; Almada/PT
D.H.M. Szolar; Graz/AT
Refresher Courses / Scientific Sessions

Genitourinary

Sunday, March 4, 14:00–15:30, Room I/K
RC 1407: MRI in prostate cancer

- Chairman's introduction [A-416]
  J. Venancio; Lisbon/PT
- MRI in detection of prostate cancer [A-417]
  F. Cornud; Paris/FR
- MRI in post-treatment follow-up [A-418]
  A.T. Turgut; Ankara/TR
- New frontiers in imaging of the prostate [A-419]
  J.O. Barentsz; Nijmegen/NL

- Panel discussion: What is the most appropriate radiological approach in patients with rising PSA levels and when should it be taken?

Monday, March 5, 10:30–12:00, Room F1
SS 1707: Transplant imaging and special topics [B-0788–B-0797]

Moderators: P. Hallscheidt; Heidelberg/DE
J.Å. Jakobsen; Oslo/NO

Monday, March 5, 14:00–15:30, Room F1
SS 1807: GU gems and jewels [B-0927–B-0936]

Moderators: M.A. Cova; Trieste/IT
D. Yakar; Nijmegen/NL

Head and Neck

Thursday, March 1, 16:00–17:30, Room D2
RC 308: Temporal bone imaging

Moderator: C. Czerny; Vienna/AT

A. Normal anatomy and congenital malformations of the ear [A-016]
  S. Köslings; Halle a.d Saale/DE
B. Cholesteatoma and chronic infection [A-017]
  F. Veillon; Strasbourg/FR
C. Enhancing inner ear structures [A-018]
  J.W. Casselman; Bruges/BE

Friday, March 2, 14:00–15:30, Room G/H
SS 608: Oncology [B-0460–B-0469]

Moderators: C.Z. Karaman; Aydin/TR
R. Kohler; Geneva/CH

Friday, March 2, 16:00–17:30, Room D2
RC 708: Paranasal sinus imaging

- Chairman's introduction [A-148]
  M.G. Mack; Frankfurt a. Main/DE
- Anatomy and anatomic variants [A-149]
  T. Beale; London/UK
- Sinusitis: imaging findings before and after treatment [A-150]
  D. Farina; Brescia/IT
- Sinonasal tumours [A-151]
  B. Verbist; Leiden/NL

- Panel discussion: How do we recognise important findings?

Sunday, March 4, 10:30–12:00, Room G/H
SS T308: Lymph nodes and temporal bone [B-0679–B-0688]

Moderators: H.P. Burmeister; Jena/DE
S. Robinson; Vienna/AT

Sunday, March 4, 14:00–15:30, Room N/O
RC 1408: Performing and reporting head and neck examinations: how do I do it?

Moderator: P.-Y. Marcy; Nice/FR

A. Sinonasal CT scans [A-423]
  M. Becker; Geneva/CH
B. Temporal bone CT and MRI scans [A-424]
  M.M. Lemmerling; Gent/BE
C. CT scans of the head and neck [A-425]
  A. Trojanowska; Lublin/PL
### Refresher Courses / Scientific Sessions

#### Head and Neck

**Sunday, March 4, 16:00–17:30, Room N/O**

**RC 1508: Post-treatment head and neck management: the diagnostic dilemma**

- Chairman's introduction [A-475]
  - R. Maroldi; Brescia/IT
- A. Expected changes after treatment [A-476]
  - A.S. McQueen; Newcastle upon Tyne/UK
- B. Surveillance imaging, tumour recurrence and treatment complications [A-477]
  - F.A. Pameijer; Utrecht/NL
  - V. Vandecaveye; Leuven/BE

- Panel discussion: Recurrence, inflammation, necrosis or scar: is imaging useful?

**Monday, March 5, 10:30–12:00, Room G/H**

**SS 1708: New technical applications**

[B-0808–B-0817]

**Moderators:**
- H.B. Eggesbø; Oslo/NO
- R. Ljumanovic; Amsterdam/NL

**Monday, March 5, 16:00–17:30, Room N/O**

**RC 1908: Differentiating skull base lesions**

- Moderator: C.R. Habermann; Hamburg/DE
- A. Olfactory apparatus lesions [A-563]
  - T.P.J. Duprez; Brussels/BE
- B. Cavernous sinus and pterygopalatine fossa lesions [A-564]
  - A. Borges; Lisbon/PT
- C. Jugular fossa lesions: how to differentiate? [A-565]
  - H. Tanghe; Rotterdam/NL

#### Interventional Radiology

**Thursday, March 1, 10:30–12:00, Room D2**

**SS 109: Genitourinary, gastrointestinal and biliary interventions**

[B-0031–B-0040]

**Moderators:**
- M. Given; Dublin/IE
- T. Jargiello; Lublin/PL

**Thursday, March 1, 14:00–15:30, Room D2**

**SS 209: Ablation**

[B-0171–B-0180]

**Moderators:**
- R.F. Dondelinger; Liège/BE
- D. Filippiadis; Athens/GR

**Thursday, March 1, 16:00–17:30, Room N/O**

**RC 309: The trauma patient**

- Chairman's introduction [A-045]
  - D.O. Kessel; Leeds/UK
- A. Imaging modalities and logistics [A-046]
  - D.O. Kessel; Leeds/UK
- B. Management of arterial trauma [A-047]
  - J. Urbano; Madrid/ES
- C. Solid organ trauma [A-048]
  - L. Lonn; Copenhagen/DK

- Panel discussion: Do we need IR in the ER?

**Friday, March 2, 10:30–12:00, Room D2**

**SS 509: CT and MR-guided interventions**

[B-0280–B-0289]

**Moderators:**
- P. Almeida; Coimbra/PT
- S. Kos; Basle/CH

**Friday, March 2, 14:00–15:30, Room D2**

**SS 609: Vascular interventions**

[B-0420–B-0429]

**Moderators:**
- L. Mailli; Athens/GR
- R. Morgan; London/UK

**Friday, March 2, 16:00–17:30, Room N/O**

**RC 709: Evaluation and treatment of common venous disorders**

- Moderator: D. Ettles; Hull/UK
- A. Pelvic congestion [A-176]
  - A. Basile; Catania/IT
- B. Varicose veins in the extremities [A-177]
  - C. Binkert; Winterthur/CH
- C. Varicocele [A-178]
  - M. Mansour; Wuppertal/DE

**Saturday, March 3, 08:30–10:00, Room N/O**

**RC 809: Percutaneous drainage for general radiologists**

- Moderator: J.L. del Cura; Bilbao/ES
- A. Pleural drainage [A-228]
  - A. Keeling; Dublin/IE
- B. Abdominal abscess [A-229]
  - T.G. Vrachliotis; Athens/GR
- C. Nephrostomy [A-230]
  - R.H. Portugaller; Graz/AT
Refresher Courses / Scientific Sessions

**Interventional Radiology**

**Saturday, March 3, 10:30–12:00, Room D2**

**SS 909: Hepatocellular carcinoma: endovascular**

[B-0520–B-0529]

**Moderators:** G. Antoch; Düsseldorf/DE
R. Golferi; Bologna/IT

**Saturday, March 3, 16:00–17:30, Room N/O**

**RC 1109: Biliary interventions**

- **Chairman's introduction** [A-304]
  A.A. Hatzidakis; Iraklion/GR
- **A. Fistula and benign stenosis** [A-305]
  M. Krokidis; London/UK
- **B. Interventions after liver transplantation** [A-306]
  P. Goffette; Brussels/BE
- **C. In tandem with endoscopy** [A-307]
  D.F. Martin; Manchester/UK
- **Panel discussion:** What are the new possibilities in this classic topic?

**Sunday, March 4, 08:30–10:00, Room N/O**

**RC 1209: Expanding the role of interventional radiology in hepatocellular carcinoma**

- **Chairman's introduction** [A-354]
  G. Maleux; Leuven/BE
- **A. RF ablation** [A-355]
  V. Válek; Brno/CZ
- **B. Intra-arterial procedures** [A-356]
  F. Orsi; Milan/IT
- **C. Portal vein embolisation before surgery** [A-357]
  T.J. Cleveland; Sheffield/UK
- **Panel discussion:** How to select the ideal treatment in a patient with HCC

**Sunday, March 4, 10:30–12:00, Room D2**

**SS 1309: Special indications**

[B-0629–B-0638]

**Moderators:** E. Criado Paredes; Sabadell/ES
M.J. Lee; Dublin/IE

**Monday, March 5, 10:30–12:00, Room D2**

**SS 1709: Oncology**

[B-0758–B-0767]

**Moderators:** F. Melchiorre; Milan/IT
T. Rand; Vienna/AT

**Monday, March 5, 14:00–15:30, Room D2**

**SS 1809: Experimental**

[B-0902–B-0906]

**Moderators:** J.H. Peregrin; Prague/CZ
M.A.A.J. van den Bosch; Utrecht/NL

**Musculoskeletal**

**Thursday, March 1, 10:30–12:00, Room E1**

**SS 110: Osteoporosis and bone marrow**

[B-0041–B-0050]

**Moderators:** J.E. Adams; Manchester/UK
M. Vlychou; Larissa/GR

**Thursday, March 1, 14:00–15:30, Room E1**

**SS 210: MRI of ligaments, tendons and muscles**

[B-0181–B-0190]

**Moderators:** M. Reijnierse; Leiden/NL
V. Zubler; Zurich/CH

**Friday, March 2, 10:30–12:00, Room E1**

**SS 510: Ultrasound**

[B-0290–B-0299]

**Moderators:** D. Miklić; Zagreb/HR
G. Turóczy; Budapest/HU

**Friday, March 2, 14:00–15:30, Room E1**

**SS 610: Cartilage and osteoarthritis**

[B-0430–B-0439]

**Moderators:** A. Platkajis; Riga/LV
G. Scheurecker; Linz/AT

**Friday, March 2, 16:00–17:30, Room E1**

**RC 710: How I report**

**Moderator:** C. Glaser; Munich/DE

**A. Soft tissue mass: US/MR** [A-152]
V. van Rijswijk; Leiden/NL

**B. MR of vertebral body collapse** [A-153]
R. Lalam; Oswestry/UK

**C. MR of the unstable shoulder** [A-154]
M. Zanetti; Zurich/CH

**Saturday, March 3, 08:30–10:00, Room E1**

**RC 810: Bone marrow oedema and bone marrow oedema-like lesions**

**Moderator:** C. Glaser; Munich/DE

**A. BME and osteoarthritis** [A-203]
F.W. Roemer; Augsburg/DE

**B. MR of vertebral body collapse** [A-153]
R. Lalam; Oswestry/UK

**C. MR of the unstable shoulder** [A-154]
M. Zanetti; Zurich/CH

**Saturday, March 3, 10:30–12:00, Room E1**

**SS 910: Spine and peripheral nerves**

[B-0530–B-0538]

**Moderators:** I.W. McCall; Oswestry/UK
M.-A. Weber; Heidelberg/DE
Refresher Courses / Scientific Sessions
Musculoskeletal

Saturday, March 3, 16:00–17:30, Room E1
RC 1110: Intra-articular imaging
- Chairman's introduction [A-276]
  A.H. Karantanas; Iraklion/GR
- A. Standard MR techniques [A-277]
  C. Faletti; Turin/IT
- B. CT arthrography [A-278]
  C.W.A. Pfirrmann; Zurich/CH
- C. MR arthrography [A-279]
  J. Kramer; Linz/AT
- Panel discussion: Which imaging technique in which clinical scenario?

Sunday, March 4, 08:30–10:00, Room E1
RC 1210: Sports injuries: US or MRI?
- Chairman's introduction [A-329]
  G.M. Allen; Oxford/UK
- A. Muscle and US [A-330]
  C. Martinoli; Genoa/IT
- B. Tendon and US [A-331]
  A. Klauser; Innsbruck/AT
- C. Muscle and tendon by MRI [A-332]
  U. Aydingoz; Ankara/TR
- Panel discussion: What is the best imaging modality for diagnosing sports injuries?

Sunday, March 4, 10:30–12:00, Room E1
SS 1310: Tumours [B-0639–B-0648]
Moderators: G.M. Allen; Oxford/UK
C. van Rijswijk; Leiden/NL

Sunday, March 4, 14:00–15:30, Room E1
RC 1410: Postoperative joint imaging
Moderator: G. Mantzikopoulos; Athens/GR
- A. Shoulder [A-397]
  K. Wörtler; Munich/DE
- B. Knee [A-398]
  K. Verstraete; Gent/BE
- C. Ankle [A-399]
  C. Masciocchi; L'Aquila/IT

Monday, March 5, 10:30–12:00, Room E1
SS 1710: From foot to hip [B-0768–B-0777]
Moderators: M.P. Aparisi Gomez; Valencia/ES
F. Kainberger; Vienna/AT

Monday, March 5, 14:00–15:30, Room E1
SS 1810a: Arthrography and advanced MR technology [B-0907–B-0916]
Moderators: S.G. Davies; Lantrisant/UK
M. Rupreht; Maribor/SI

Monday, March 5, 14:00–15:30, Room G/H
SS 1810b: Trauma and vertebroplasty [B-0947–B-0956]
Moderators: J. Raposo; Lisbon/PT
A. Vieira; Porto/PT

Monday, March 5, 16:00–17:30, Room E1
RC 1910: The knee
- Chairman's introduction [A-548]
  F.M.H.M. Vanhoenacker; Antwerp/BE
- A. Patterns of injury [A-549]
  P. Van Dyck; Antwerp/BE
- B. Inflammatory disease [A-550]
  A. Cotten; Lille/FR
- C. Soft tissue tumours/tumour-like lesions [A-551]
  J.C. Vilanova; Girona/ES
- Panel discussion: What are the remaining clinical questions that imaging currently cannot answer and how will we answer them in the future?
Refresher Courses / Scientific Sessions

**Neuro**

**Thursday, March 1, 10:30–12:00, Room B**

**SS 111a: Neurovascular – MRI [B-0001–B-0010]**

**Moderators:** G. Guarnieri; Naples/IT
Z. Merhemic; Sarajevo/BA

**Thursday, March 1, 10:30–12:00, Room G/H**

**SS 111b: White matter diseases [B-0081–B-0090]**

**Moderators:** C. Auger Acosta; Barcelona/ES
M.P. Wattjes; Amsterdam/NL

**Friday, March 2, 08:30–10:00, Room G/H**

**RC 411: General neuroradiology: introduction to the brain**

**Moderator:** E.-M.B. Larsson; Uppsala/SE

**A. Brain anatomy made easy: the language system [A-089]**
T.A. Yousry; London/UK

**B. Brain haemorrhage: from microbleeds to lobar haematomas [A-090]**
M.A. van Buchem; Leiden/NL

**C. Differential diagnosis of multiple brain lesions: tumour and tumour-like lesions [A-091]**
A. Rovira-Cañellas; Barcelona/ES

**Friday, March 2, 10:30–12:00, Room G/H**

**SS 511: Ageing, degenerative disorders and epilepsy [B-0320–B-0329]**

**Moderators:** T. Stosic-Opincal; Belgrade/RS
T. Tourdias; Bordeaux/FR

**Friday, March 2, 14:00–15:30, Room A**

**SS 611a: Interventional neuroradiology [B-0380–B-0389]**

**Moderators:** B. Gómez-Ansón; Barcelona/ES
S. Puchner; Vienna/AT

**Friday, March 2, 14:00–15:30, Room C**

**SS 611b: Functional MRI, resting state and DTI [B-0400–B-0409]**

**Moderators:** N. Bargalló; Barcelona/ES
M. Smits; Rotterdam/NL

**Saturday, March 3, 10:30–12:00, Room A**

**SS 911: Stroke diagnosis [B-0500–B-0509]**

**Moderators:** D.R. Hadizadeh; Bonn/DE
M. Mechl; Brno/CZ

**Saturday, March 3, 16:00–17:30, Room G/H**

**RC 1111: Neuro paediatrics: imaging of the paediatric brain**

**Moderator:** N. Girard; Marseille/FR

**A. Systemised approach to inherited white matter disease in children [A-294]**
A. Rossi; Genoa/IT

**B. Malformation of the posterior fossa [A-295]**
C. Hoffmann; Tel Hashomer/IL

**C. Phakomatosis [A-296]**
P.D. Griffiths; Sheffield/UK

**Sunday, March 4, 10:30–12:00, Room Q**

**SS 1311: Tumours [B-0729–B-0738]**

**Moderators:** E. Avdagic; Sarajevo/BA
F.W. Cartes-Zumelzu; Innsbruck/AT

**Sunday, March 4, 14:00–15:30, Room G/H**

**RC 1411: Angioplasty and stenting of extra and intracranial arteries**

- **Chairman’s introduction [A-412]**
P. Vilela; Almada/PT

- **A. Critical appraisal of the literature [A-413]**
J. Fiehler; Hamburg/DE

- **B. PTA and stenting of extracranial arteries [A-414]**
M. Söderman; Stockholm/SE

- **C. PTA and stenting of intracranial arteries [A-415]**
V. Pereira; Geneva/CH

- **Panel discussion: What will be the fate of extracranial and intracranial angioplasty and stenting procedures?**

**Sunday, March 4, 16:00–17:30, Room G/H**

**RC 1511: Advanced techniques: diffusion tensor imaging (DTI) in clinical practice**

**Moderator:** P.C. Maly Sundgren; Lund/SE

**A. DTI technique, sequences, software and post processing [A-465]**
W. Van Hecke; Antwerp/BE

**B. DTI in brain tumours [A-466]**
M. Essig; Erlangen/DE

**C. DTI in paediatric diseases [A-467]**
P.E. Grant; Boston, MA/US

**Monday, March 5, 08:30–10:00, Room G/H**

**RC 1611: Spine: update on spinal disorders**

**Moderator:** M. Sasiadek; Wroclaw/PL

**A. Imaging algorithm for degenerative spinal disease and spondyloarthropathies in 2012 [A-511]**
J. Van Goethem; Antwerp/BE

**B. Myelitis, myelopathy and spinal cord tumours [A-512]**
M.M. Thurnher; Vienna/AT

**C. Percutaneous treatment of spinal diseases [A-513]**
M. Muto; Naples/IT

**Monday, March 5, 10:30–12:00, Room G/H**

**SS 1711: Vascular and perfusion imaging [B-0741–B-0747]**

**Moderators:** H. Aronen; Turku/FI
J. Frühwald-Pallamar; Vienna/AT

**Monday, March 5, 14:00–15:30, Room D1**

**SS 1811: New fields and developments [B-0887–B-0896]**

**Moderators:** S.J. Bakke; Oslo/NO
J. Ramalho; Lisbon/PT

**Monday, March 5, 16:00–17:30, Room G/H**

**RC 1911: How I report**

**Moderator:** M. Mechl; Brno/CZ

**A. MRI in microvascular and inflammatory diseases [A-557]**
P. Vilela; Almada/PT

**B. MRI in common neurodegenerative diseases [A-558]**
F. Barkhof; Amsterdam/NL

**C. Neuroimaging in the acutely ill/ICU patient [A-559]**
M. Gallucci; L’Aquila/IT

**Thursday, March 1, 10:30–12:00, Room B**

**SS 111a: Neurovascular – MRI [B-0001–B-0010]**

**Moderators:** G. Guarnieri; Naples/IT
Z. Merhemic; Sarajevo/BA

**Thursday, March 1, 10:30–12:00, Room G/H**

**SS 111b: White matter diseases [B-0081–B-0090]**

**Moderators:** C. Auger Acosta; Barcelona/ES
M.P. Wattjes; Amsterdam/NL

**Friday, March 2, 08:30–10:00, Room G/H**

**RC 411: General neuroradiology: introduction to the brain**

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**C. Differential diagnosis of multiple brain lesions: tumour and tumour-like lesions [A-091]**
A. Rovira-Cañellas; Barcelona/ES

**Friday, March 2, 10:30–12:00, Room G/H**

**SS 511: Ageing, degenerative disorders and epilepsy [B-0320–B-0329]**

**Moderators:** T. Stosic-Opincal; Belgrade/RS
T. Tourdias; Bordeaux/FR

**Friday, March 2, 14:00–15:30, Room A**

**SS 611a: Interventional neuroradiology [B-0380–B-0389]**

**Moderators:** B. Gómez-Ansón; Barcelona/ES
S. Puchner; Vienna/AT

**Friday, March 2, 14:00–15:30, Room C**

**SS 611b: Functional MRI, resting state and DTI [B-0400–B-0409]**

**Moderators:** N. Bargalló; Barcelona/ES
M. Smits; Rotterdam/NL

**Saturday, March 3, 10:30–12:00, Room A**

**SS 911: Stroke diagnosis [B-0500–B-0509]**

**Moderators:** D.R. Hadizadeh; Bonn/DE
M. Mechl; Brno/CZ

**Saturday, March 3, 16:00–17:30, Room G/H**

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**Moderator:** N. Girard; Marseille/FR

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**B. Malformation of the posterior fossa [A-295]**
C. Hoffmann; Tel Hashomer/IL

**C. Phakomatosis [A-296]**
P.D. Griffiths; Sheffield/UK

**Sunday, March 4, 10:30–12:00, Room Q**

**SS 1311: Tumours [B-0729–B-0738]**

**Moderators:** E. Avdagic; Sarajevo/BA
F.W. Cartes-Zumelzu; Innsbruck/AT
Refresher Courses / Scientific Sessions

Paediatric

Saturday, March 3, 08:30–10:00, Room Q
RC 812: Imaging the paediatric spine
Moderator: E. Vázquez; Barcelona/ES
A. Congenital malformations and neonatal spinal imaging [A-234]
I. Gassner; Innsbruck/AT
B. Inflammation, infection and tumours: the role of imaging [A-235]
M.I. Argyropoulou; Ioannina/GR
C. Imaging spinal trauma in childhood [A-236]
M. Maas; Amsterdam/NL

Saturday, March 3, 10:30–12:00, Room Q
SS 912: Heart and chest [B-0589–B-0598]
Moderators: C. Balassy; Vienna/AT
C. Owens; London/UK

Sunday, March 4, 08:30–10:00, Room Q
RC 1212: Oncologic imaging: how to image, follow up and report
• Chairman’s introduction [A-361]
R.R. van Rijn; Amsterdam/NL
A. Renal and adrenal tumours in children [A-362]
A.M.J.B. Smets; Amsterdam/NL
B. Paediatric liver malignancies [A-363]
D. Roebuck; London/UK
C. Oncologic imaging in the paediatric brain [A-364]
G. Hahn; Dresden/DE
• Panel discussion: How far the radiologist can go in suggesting tumour recurrence or post-treatment complications

Sunday, March 4, 14:00–15:30, Room Q
RC 1412: Children’s bones and joints
Moderator: O.E. Olsen; London/UK
A. Imaging of sports injuries [A-429]
M. Alison; Paris/FR
B. Hip dysplasia: US techniques and recommendations [A-430]
K. Rosendahl; Bergen/NO
C. Imaging of juvenile idiopathic arthritis [A-431]
M. Valle; Genoa/IT

Sunday, March 4, 16:00–17:30, Room Q
RC 1512: Abdominal emergencies in children
Moderator: F.E. Avni; Brussels/BE
A. Non-traumatic abdominal emergencies in childhood [A-482]
P. Tomà; Rome/IT
M. Riccabona; Graz/AT
C. Abdominal trauma in children [A-484]
M.P. García-Peña; Barcelona/ES

Monday, March 5, 10:30–12:00, Room Q
SS 1712: Body and bones [B-0858–B-0867]
Moderators: A.D. Calder; London/UK
H.-J. Mentzel; Jena/DE

Monday, March 5, 14:00–15:30, Room E2
SS 1812: Neuro and fetal imaging [B-0917–B-0926]
Moderators: J.-F. Chateil; Bordeaux/FR
J. Geiger; Freiburg/DE

Monday, March 5, 16:00–17:30, Room Q
RC 1912: Chest imaging: what to use and when to use it
Moderator: W. Hirsch; Leipzig/DE
A. Thoracic trauma and foreign body inhalation [A-570]
M.L. Lobo; Lisbon/PT
B. Infiltrative diseases of the chest [A-571]
G. Staatz; Mainz/DE
C. Imaging of neonatal chest emergencies [A-572]
A. Paterson; Belfast/UK
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<td>F. Schick; Tübingen/DE</td>
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<td>B. A complicated solution to a complicated problem:</td>
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<td>transmit array [A-302]</td>
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<tr>
<td>Sunday, March 4</td>
<td>08:30–10:00</td>
<td>Room L/M</td>
<td>RC 1213: Diagnostic radiology and pregnancy</td>
<td>H. Ringertz; Linköping/SE</td>
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<td>W.J.M. van der Putten; Galway/IE</td>
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<td>A. Conceptus doses and risks from maternal diagnostic x-ray examinations [A-351]</td>
<td>J. Damilakis; Iraklion/GR</td>
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<td>B. X-ray imaging and pregnancy: justification and optimisation of exposure [A-352]</td>
<td>P. Vock; Berne/CH</td>
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<td>Monday, March 5</td>
<td>10:30–12:00</td>
<td>Room P</td>
<td>SS 1713: Dose optimisation and assessment in CT [B-0848–B-0857]</td>
<td>K. Bacher; Gent/BE</td>
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<td>J. Geleijns; Leiden/NL</td>
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<td>14:00–15:30</td>
<td>Room P</td>
<td>SS 1813: New technologies and algorithms [B-0987–B-0996]</td>
<td>O. Ciraj-Bjelac; Belgrade/RS</td>
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<td>J.N. Vassileva; Sofia/BG</td>
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<td>Monday, March 5</td>
<td>08:30–10:00</td>
<td>Room P</td>
<td>RC 1613: Simulations help us understand x-ray imaging</td>
<td>H. Bosmans; Leuven/BE</td>
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<td>A. Persson; Linköping/SE</td>
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<td>B. Monte Carlo simulations of virtual patients (anthropomorphic phantoms) [A-527]</td>
<td>M. Zankl; Neuherberg/DE</td>
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<td>C. Monte Carlo simulations of x-ray detectors and x-ray images [A-528]</td>
<td>N. Marshall; Leuven/BE</td>
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<td>Monday, March 5</td>
<td>16:00–17:30</td>
<td>Room L/M</td>
<td>RC 1513: Novel developments in CT and impact on dose</td>
<td>M. Kachelrieß; Heidelberg/DE</td>
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<td>J. Vlahos; London/UK</td>
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<td>A. Patient dose assessment in CT [A-472]</td>
<td>P.C. Shrimpton; Didcot/UK</td>
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<td>Sunday, March 4</td>
<td>08:30–10:00</td>
<td>Room P</td>
<td>RC 1413: Hybrid imaging systems</td>
<td>A.A. Lammertsma; Amsterdam/NL</td>
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<td>J. Votrubová; Prague/CZ</td>
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<td>A. Clinical SPECT/CT and PET/CT [A-420]</td>
<td>T. Beyer; Zurich/CH</td>
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<td>B. Clinical PET/MRI [A-421]</td>
<td>G. Antoch; Düsseldorf/DE</td>
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<td>C. Pre-clinical hybrid imaging [A-422]</td>
<td>N. Belcarli; Pisa/IT</td>
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Refresher Courses / Scientific Sessions

Radiographers

**Friday, March 2, 14:00–15:30, Room P**

**SS 614: Experiencing the complexity of the radiographers’ role** [B-0490–B-0499]

*Modерators:* W. Heindel; Münster/DE  
K. Németh; Budapest/HU

**Saturday, March 3, 08:30–10:00, Room P**

**RC 814: Challenges and solutions for radiographers in MRI: high field and imaging under patient motion**

*Modерators:* L. Abernethy; Liverpool/UK  
C. Malamateniou; London/UK

A. Advantages of high field MRI: a radiographer’s perspective [A-231]  
E. Lavdas; Athens/GR

B. Artefacts at high field MRI: clinical applications and technical solutions [A-232]  
S. Brandao; Porto/PT

C. Reducing motion artefacts in foetal MRI: the contribution of the radiographer [A-233]  
C. Malamateniou; London/UK

**Saturday, March 3, 10:30–12:00, Room P**

**SS 914: Dose and technique optimisation from the radiographer’s perspective** [B-0579–B-0588]

*Modерators:* P. Blackburn Andersen; Kolding/DK  
D. Tack; Baudour/BE

**Saturday, March 3, 16:00–17:30, Room P**

**RC 1114: Radiographers’ impact on dose optimisation and radiation protection: the essential link in the chain**

*Modерators:* A.B. Aslaksen; Bergen/NO  
A. Henner; Oulu/FI

A. Dose optimisation – what more is there to be done? The role of the radiographer [A-308]  
S. Mc Fadden; Newtownabbey/UK

B. From screen-film to digital systems: how to implement an optimisation process [A-309]  
J. Santos; Coimbra/PT

C. The importance of education and training in the development of the role of the radiographer in quality assurance and radiation protection [A-310]  
M.-L. Butler; Dublin/IE

**Sunday, March 4, 08:30–10:00, Room P**

**RC 1214: Changing era of radiography education in Europe: new perspectives for students and staff**

*Modерators:* G. Paulo; Coimbra/PT  
H.M. Zonderland; Amsterdam/NL

A. The change from diploma to bachelor’s degree: new perspectives for students and staff [A-358]  
M. Rosenblattl; Wiener Neustadt/AT

B. Strengthening radiography education through European networks [A-359]  
V. Challen; Lancaster/UK

C. Exploring the benefits of European radiography networks: a personal and professional perspective of the Erasmus radiography group [A-360]  
J. Portelli; Msida/MT

**Sunday, March 4, 10:30–12:00, Room P**

**SS 1314: Radiographers in the clinical setting** [B-0720–B-0728]

*Modерators:* H.H. Hjemly; Oslo/NO  
W. Hruby; Vienna/AT

**Sunday, March 4, 14:00–15:30, Room P**

**RC 1414: Promoting best practice in forensic imaging**

*Modерators:* C. Vandulek; Kapossvari/HU  
P. Vock; Bern/CH

A. Forensic imaging: another important growing field [A-426]  
P. Vock; Bern/CH

B. The role of radiographers in forensic imaging [A-427]  
J. McNulty; Dublin/IE

C. The importance of standards in education and training in forensic imaging [A-428]  
E. Faircloth; Devon/UK

**Sunday, March 4, 16:00–17:30, Room P**

**RC 1514: Breast screening programmes: roles and issues for radiographers**

*Modерators:* G. Forrai; Budapest/HU  
K. Haller; Wiener Neustadt/AT

A. Establishing competencies of radiographers in national screening programmes [A-479]  
J. Hammond; Dublin/IE

B. Quality control and quality assurance of breast screening programmes from the radiographers viewpoint [A-480]  
A. Kost iov; Ljubljana/SI

C. The radiographer’s role in optimisation of dose and image quality in mammography [A-481]  
D. O’Leary; Dublin/IE
Thursday, March 1, 10:30–12:00, Room N/O
SS 115: Thoracic and abdominal aorta
[B-0111–B-0120]
Moderators: A. Mishra; New Delhi/IN
I.P. Vulev; Bratislava/SK

Thursday, March 1, 14:00–15:30, Room N/O
SS 215: New aspects in vascular imaging
[B-0250–B-0259]
Moderators: V. Cantisani; Rome/IT
P. Vilares Morgado; Porto/PT

Thursday, March 1, 16:00–17:30, Room P
RC 315: How I report

Friday, March 2, 10:30–12:00, Room N/O
SS 515: Imaging in vascular diseases
[B-0340–B-0349]
Moderators: H.K. Ahlström; Uppsala/SE
O. Pellerin; Paris/FR

Friday, March 2, 16:00–17:30, Room Z
RC 715: Vascular imaging: diabetes and vascular occlusive disease
Moderator: M.W. de Haan; Maastricht/NL
A. Metabolic syndrome, diabetes and vascular disease: what do we need to know? [A-182]
E. Minar; Vienna/AT
B. Imaging strategies in diabetic foot syndrome [A-183]
R. Iezzi; Rome/IT
C. Imaging prior to revascularisation: US, CTA, MRA or DSA? [A-184]
S.O. Schönberg; Mannheim/DE

Saturday, March 3, 08:30–10:00, Room L/M
RC 815: Vascular imaging in ischaemic stroke
Moderator: J. Barkhausen; Lübeck/DE
A. Extracranial and intracranial atherosclerotic disease of carotid arteries [A-225]
C. Catalano; Rome/IT
B. Vertebobasilar atherosclerotic arterial disease [A-226]
L. Valvassori; Milan/IT
C. Dissection and vasculitis of intracranial and extracranial arteries [A-227]
H.R. Jäger; London/UK

Sunday, March 4, 10:30–12:00, Room N/O
SS 1315: Peripheral and renal arteries
[B-0709–B-0718]
Moderators: G. Carrafiello; Varese/IT
K. Katsanos; Patras/GR

Monday, March 5, 14:00–15:30, Room N/O
SS 1815: Carotid arteries [B-0977–B-0986]
Moderators: E. Esteban; Alzira/ES
A. Spinelli; Rome/IT

Monday, March 5, 16:00–17:30, Room P
RC 1915: Non-traumatic acute aortic dissection

- Chairman's introduction [A-566]
A.-M. Belli; London/UK
A. Etiology, clinical signs and prognosis of acute non-traumatic aortic dissection [A-567]
V. Bérczi; Budapest/HU
B. Acute aortic dissections: imaging and image-based classification [A-568]
J. Lammer; Vienna/AT
C. Acute aortic dissections: imaging of complications [A-569]
M.H.K. Hoffmann; Ulm/DE
- Panel discussion: Which imaging modality is best for planning of endovascular management?
## Refresher Courses / Scientific Sessions

### Oncologic Imaging

### Thursday, March 1, 10:30–12:00, Room C

**SS 116: Tumour biology, response and prognosis [B-0011–B-0020]**

**Moderators:** G. Brown; Sutton/UK  
N. Power; Waterford/IE

### Thursday, March 1, 14:00–15:30, Room C

**SS 216: Colorectal cancer: assessing tumour behaviour [B-0151–B-0160]**

**Moderators:** R.G.H. Beets-Tan; Maastricht/NL  
P.A. Bonaffini; Monza/IT

### Saturday, March 3, 10:30–12:00, Room F1

**SS 916: New applications for US and CT in evaluating patients with cancer [B-0539–B-0548]**

**Moderators:** T. Bäuerle; Heidelberg/DE  
M. Bellomi; Milan/IT

### Sunday, March 4, 08:30–10:00, Room E2

**RC 1216: Lymph node imaging: where are we now?**

- **Chairman’s introduction** [A-333]  
  R.G.H. Beets-Tan; Maastricht/NL
- **A. The current criteria for nodal involvement on CT/MRI** [A-334]  
  W. Schima; Vienna/AT
- **B. MRI techniques: what do they contribute?** [A-335]  
  H.C. Thoeny; Berne/CH
- **C. Nuclear medicine: PET and other techniques** [A-336]  
  W. Weber; Freiburg/DE
  - **Panel discussion:** When and how will imaging make diagnostic biopsy unnecessary?

### Sunday, March 4, 10:30–12:00, Room A

**SS 1316: Whole body MRI in cancer patients [B-0609–B-0618]**

**Moderators:** M. Mayerhöfer; Vienna/AT  
H.-P. Schlemmer; Heidelberg/DE

### Sunday, March 4, 14:00–15:30, Room E2

**RC 1416: Monitoring response: the essential guide for all radiologists**

- **Chairman’s introduction** [A-400]  
  H.-P. Schlemmer; Heidelberg/DE
- **A. RECIST made easy** [A-401]  
  A.G. Rockall; London/UK
- **B. Response measurement in ’difficult’ tumours** [A-402]  
  L. Ollivier; Paris/FR
- **C. Assessment of response using functional imaging: the essentials** [A-403]  
  A.E. Sundin; Stockholm/SE
  - **Panel discussion:** When and how will functional imaging overcome morphological assessment?

### Monday, March 5, 08:30–10:00, Room E2

**RC 1616: Imaging the complications of cancer treatment**

- **Chairman’s introduction** [A-504]  
  P. Brader; Vienna/AT
- **A. Pulmonary complications of the treatment of malignancy** [A-505]  
  S. Diederich; Düsseldorf/DE
- **B. Imaging the effects of cancer treatment in the abdomen and pelvis** [A-506]  
  P. Hulse; Manchester/UK
- **C. Complications of treatment in the CNS** [A-507]  
  P. Demaerel; Leuven/BE
  - **Panel discussion:** How can the radiologist make sure not to miss complications of cancer treatment?

### Monday, March 5, 10:30–12:00, Room E2

**SS 1716: PET for cancer patient management [B-0778–B-0787]**

**Moderators:** J. Grimm; New York, NY/US  
D. Miletić; Rijeka/HR

### Monday, March 5, 14:00–15:30, Room C

**SS 1816: CE-MRI and DWI-MRI for cancer evaluation [B-0877–B-0886]**

**Moderators:** S. Delorme; Heidelberg/DE  
R. Girometti; Udine/IT
**Refresher Courses / Scientific Sessions**

**Emergency Radiology**

**Friday, March 2, 08:30–10:00, Room E1**

**RC 417: ER: basic principles**

**Moderator:** O. Chan; London/UK

A. Logistics, ergonomics and organisation of an emergency radiology department [A-076]
   - I. Arkhipova; Moscow/RU

B. Advanced trauma life support: ABCDE from a radiological point of view [A-077]
   - D.R. Kool; Nijmegen/NL

C. Mechanism of injury and MDCT protocols: choosing the right protocol for the patient [A-078]
   - M. Stajgis; Poznan/PL

**Friday, March 2, 14:00–15:30, Room N/O**

**SS 617: Trauma and chest pain [B-0480–B-0489]**

**Moderators:** R. Polverosi; Padua/IT
   - H. Ringl; Vienna/AT

**Sunday, March 4, 16:00–17:30, Room E1**

**RC 1517: Polytrauma: redefining imaging issues for management priorities**

**Moderator:** P.-A. Poletti; Geneva/CH

A. Vascular trauma [A-451]
   - G. Schueller; Vienna/AT

B. Chest and abdomen [A-452]
   - M. Scaglione; Castel Volturno/IT

C. Extremities [A-453]
   - U. Linsenmaier; Munich/DE

**Monday, March 5, 10:30–12:00, Room N/O**

**SS 1717: Acute abdomen [B-0838–B-0847]**

**Moderators:** J.M. Artigas; Zaragoza/ES
   - V. Vieth; Münster/DE
EFOMP Workshop

New Technology in Diagnostic Radiology: Frontiers in Interventional Radiological Imaging

Organising Committee:

Chairman: P. Sharp; Aberdeen/UK
Members: C. Leidecker; Forchheim/DE
A. Torresin; Milan/IT
W.J.M. van der Putten; Galway/IE

Saturday, March 3, 08:30–10:00, Room G/H

EF 1: Advances in technology for interventional radiology: general overview

Moderators: R. Padovani; Udine/IT
P. Sharp; Aberdeen/UK

• Welcome address [A-217]
  L. Bonomo; Rome/IT
  P. Sharp; Aberdeen/UK

• Radiologist’s point of view: physician required for the new technology [A-218]
  J.A. Reekers; Amsterdam/NL

• Rotational angiography and cone beam CT [A-219]
  M. Kachelrieß; Heidelberg/DE

• MR interventional techniques [A-220]
  J. De Wilde; Edinburgh/UK

• US interventional techniques [A-221]
  L. Solbiati; Busto Arsizio/IT

Saturday, March 3, 10:30–12:00, Room G/H

EF 2: Advances in technology for interventional radiology: technology assessment

Moderators: A. Torresin; Milan/IT
  W.J.M. van der Putten; Galway/IE

• Angiographic equipment performance assessment [A-251]
  A. Trianni; Udine/IT
  P.E. Colombo; Milan/IT

• Patient and staff radiation issues in angiography [A-252]
  E. Vaño; Madrid/ES

• Panel discussion with angiographic equipment manufacturers [A-253]
  L. Desponds; Buc/FR
  B. Hoornaert; Eindhoven/NL
  M. Lendl; Ottensoos/DE

• Final discussion
### Friday, March 2, 08:30–10:00, Room E2

#### E³ 420b: Understand recent issues in US technology

**Moderator:** M. Bachmann Nielsen; Copenhagen/DK  
**A. Recent advances in US technology** [A-079]  
M. Claudon; Vandoeuvre-les-Nancy/FR  
**B. Portable machines: the future of US?** [A-080]  
G.H. Mostbeck; Vienna/AT  
**C. How to choose your equipment** [A-081]  
J.-M. Correas; Paris/FR

### Friday, March 2, 10:30–12:00, Room E2

#### E³ 520b: Vascular imaging: Doppler and contrast-enhanced US

**Moderator:** L. Steyaert; Bruges/BE  
**A. Imaging superficial vessels** [A-115]  
P. Landwehr; Hannover/DE  
**B. Imaging deep vessels** [A-116]  
D.K. Tsetis; Iraklion/GR  
**C. The role of contrast US** [A-117]  
D.A. Clevert; Munich/DE

### Friday, March 2, 14:00–15:30, Room E2

#### E³ 620: US and contrast-enhanced US for focal lesions

**Moderator:** D.O. Cosgrove; London/UK  
**A. Evaluation of focal liver lesions** [A-125]  
T. Albrecht; Berlin/DE  
**B. Evaluation of kidney lesions** [A-126]  
C. Nicolau; Barcelona/ES  
**C. Intraoperative and therapeutic applications** [A-127]  
L. Solbiati; Busto Arsizio/IT

### Friday, March 2, 16:00–17:30, Room E2

#### E³ 720b: Emergency radiology: where does US fit in?

**Moderator:** Y. Menu; Paris/FR  
**A. Acute abdomen in adults: US vs CT** [A-155]  
L.E. Derchi; Genoa/IT  
**B. Acute abdomen in children: US vs CT** [A-156]  
R.R. van Rijn; Amsterdam/NL  
**C. Abdominal trauma: US or not US?** [A-157]  
M. Valentino; Parma/IT

### Saturday, March 3, 08:30–10:00, Room E2

#### E³ 820b: Volumetric imaging: where are we, where are we going to?

**Moderator:** P. Mildenberger; Mainz/DE  
**A. Volume imaging in obstetrics and gynaecology** [A-206]  
C.B. Benson; Boston, MA/US  
**B. Volume US: a plus or a new approach to body imaging** [A-207]  
S.T. Elliott; Newcastle upon Tyne/UK  
**C. Why volume imaging and fusion are important for diagnosis and treatment** [A-208]  
E. Leen; London/UK

### Saturday, March 3, 10:30–12:00, Room E2

#### E³ 920b: Elastography and high frequency US

**Moderator:** A.V. Zubarev; Moscow/RU  
**A. Breast: when elastography adds to conventional US** [A-248]  
G. Rizzatto; Gorizia/IT  
**B. US of the thyroid gland and the neck** [A-249]  
S.M. Dudea; Cluj-Napoca/RO  
**C. US in musculoskeletal diseases** [A-250]  
S. Bianchi; Geneva/CH

### Saturday, March 3, 12:15–13:15, EPOS Area

#### Self assessment test

**Moderator:** M. Claudon; Vandoeuvre-les-Nancy/FR  
Interactive computer evaluation of course learning
Thursday, March 1, 14:00–15:30, Room B
E³ 220: Acute abdominal inflammatory disorders
A. Colitis and enterocolitis [A-004]
C. Hohl; Siegburg/DE
B. Liver and bile ducts [A-005]
C.D. Becker; Geneva/CH

Thursday, March 1, 16:00–17:30, Room B
E³ 320: Musculoskeletal emergencies
A. Axial skeleton [A-007]
E. Llopis; Valencia/ES
B. Peripheral skeleton [A-008]
V.N. Cassar-Pullicino; Oswestry/UK

Friday, March 2, 08:30–10:00, Room B
E³ 420a: Thoracic infections: what the radiologist must report
A. Pulmonary infections [A-062]
L.R. Goodman; Milwaukee, WI/US
B. Non-pulmonary chest infections [A-063]
C.M. Schaefer-Prokop; Amersfoort/NL

Friday, March 2, 10:30–12:00, Room C
E³ 520a: Abdominal emergencies
A. Non-traumatic (acute abdomen) [A-113]
R. Basilico; Chieti/IT
B. Traumatic [A-114]
D.R. Kool; Nijmegen/NL

Friday, March 2, 16:00–17:30, Room B
E³ 720a: Neurological emergencies
A. Non-traumatic [A-138]
C. Ozdoba; Berne/CH
B. Traumatic [A-139]
M. Stajgis; Poznan/PL

Saturday, March 3, 08:30–10:00, Room C
E³ 820a: Infections of the central nervous system: what the radiologist must report
A. ‘Dangerous’ viral and prion infections [A-194]
G. Wilms; Leuven/BE
B. Bacterial and parasitic infections [A-195]
E.T. Tali; Ankara/TR

Saturday, March 3, 10:30–12:00, Room C
E³ 920a: Common radiological problems: incidental chest lesions
A. Solitary pulmonary nodule [A-246]
E. Castañer; Sabadell/ES
B. Mediastinal mass [A-247]
J. Vilar; Valencia/ES

Saturday, March 3, 16:00–17:30, Room B
E³ 1120: Malignant pancreatic tumours
A. Solid tumours [A-265]
W. Schima; Vienna/AT
B. Cystic tumours [A-266]
G. Morana; Treviso/IT

Sunday, March 4, 08:30–10:00, Room B
E³ 1220: Common radiological problems: incidental abdominal masses
A. The incidental adrenal mass [A-318]
R.H. Reznek; London/UK
B. Renal mass [A-319]
M. Prokop; Nijmegen/NL

Sunday, March 4, 14:00–15:30, Room B
E³ 1420: Lung cancer
A. Detection [A-386]
S. Diederich; Düsseldorf/DE
B. Follow-up [A-387]
F. Gleeson; Oxford/UK

Sunday, March 4, 16:00–17:30, Room B
E³ 1520: Female pelvic infections: what the radiologist must report
J.A. Spencer; Leeds/UK [A-440]
R. Forstner; Salzburg/AT

Monday, March 5, 08:30–10:00, Room B
E³ 1620: Breast cancer
A. Detection [A-489]
C.S. Balleyguier; Villejuif/FR
B. Follow-up [A-490]
G. Forrai; Budapest/HU

Monday, March 5, 10:30–12:00, Room B
E³ 1720a: Common radiological problems: cardiovascular
A. Looking at the heart in chest x-rays [A-533]
J. Andreu; Barcelona/ES
B. Looking at the heart in chest CT [A-534]
F. Laurent; Pessac/FR

Monday, March 5, 10:30–12:00, Room C
E³ 1720b: Common radiological problems: palpable lower neck mass – thyroid or not?
A. Thyroid nodule [A-535]
H. van Overhagen; Den Haag/NL
B. Outside the Thyroid [A-536]
N.J.M. Freling; Amsterdam/NL

= Interactive session with electronic voting/self assessment
Celebrating 5 years of ESOR
The first ESOR course on imaging biomarkers is aimed to deal with the following subjects:

- What are biomarkers? Why is there so much interest on them?
- Paradigm shifting from morphology to quantifying function.
- Advice on biomarker development – the actual process and at least one practical worked up example.
- Short overview of some imaging biomarkers from US, CT, MRI and PET.
- The multiparametric paradigm – combination is greater than the parts.
- Bias analysis and clinical integration of the information given by the biomarker.
- The different levels of evidence between imaging biomarker development for clinical use and medicines development.
- Each topic will illustrate which ingredients are needed, how and when those should be used, and the evidence accumulated.

The course programme will include formal lectures, complemented by case discussions on the clinical impact of biomarkers in small groups.

Target audience are board-certified radiologists and residents in the 4th or 5th year of training, interested in functional imaging and biomarkers.

**Moderator:** L. Martí-Bonmati; Valencia/ES

08:50–09:00: Welcome and introduction

09:00–09:30: Biomarkers: from morphology to quantifying function
L. Marti-Bonmati; Valencia/ES

09:30–10:00: Imaging biomarkers in diffuse liver disease
B. Van Beers; Clichy/FR

10:00–10:30: Imaging biomarkers in cancer
A. Padhani; Northwood/UK

10:30–10:50: Coffee break

10:50–13:00: Clinical impact discussion (in small groups)
L. Marti-Bonmati; Valencia/ES
B. Van Beers; Clichy/FR
A. Padhani; Northwood/UK

13:00–14:00: Lunch break

14:00–14:30: Imaging biomarkers in degenerative cartilage disease
S. Trattnig; Vienna/AT

14:30–15:00: Imaging biomarkers in diffuse kidney disease
N. Grenier; Bordeaux/FR

15:00–15:30: Imaging biomarkers in cardio-vascular disease
J.-P. Vallée; Geneva/CH

15:30–15:50: Coffee break

15:50–18:00: Clinical impact discussion (in small groups)
S. Trattnig; Vienna/AT
N. Grenier; Bordeaux/FR
J.-P. Vallée; Geneva/CH

18:00: Conclusions
18:15: Certificate of attendance

**Registration fees:** €95 for residents
€120 for non-residents

*Registration fees are exclusive 10% VAT.*

*This course is exclusively for ESR members.*
Accompanying Sessions

Pre-registration has been arranged according to the order in which applications were received. Registration will be possible onsite if seats are still available. Please note that an extra fee of €30 per participant is charged for this course.

It is recommended that non-experienced users follow the oral presentations before entering the practical training courses.

Walk-In Sessions

Saturday, March 3, 12:00–14:00
Lunch Walk-In Session
Sunday, March 4, 14:00–15:30
Walk-In Session

Friday, March 2, 12:15–13:30, Room B
5th Post Processing Face-Off Session
Chairman: A. Graser; Munich/DE
Co-chairmen: M. D’Anastasi; Munich/DE; F. Schwarz; Munich/DE

After the great success in the last four years, ECR 2011 will, for the fifth time, feature a ‘Workstation Face-Off’ session.

Continuous rapid technical advances in CT require state-of-the-art post processing tools and workstations. Currently, most solutions are based on a thin client-server architecture which significantly speeds up loading times and workflow.

In the 21st century, radiologists are required to interpret 3D datasets and to handle very large data volumes. For several clinical applications, dedicated post processing workflows are now available. All major vendors offer a variety of hardware and software, and it is often difficult to recognise the individual strengths and weaknesses of different systems. Our 5th annual Post Processing Face-Off Session will allow you to get an impression of the 3D capabilities and large data volume handling provided by the latest workstation technology.

Several workstations from different vendors (aycan, GE Healthcare, Philips Healthcare, Siemens, TeraRecon, Vital Images) will be set up on stage next to each other, and two cases provided by the ESR will be demonstrated by expert users. This year, the cases will focus on cardiac CT with myocardial perfusion and on oncologic follow up in a multi modality approach.

The aim of this session is to simulate a realistic ‘reading room’ atmosphere and to give an impression of how different workstations perform in a clinical scenario. We would like to cordially invite you to attend this exciting ‘tournament’ of post processing!

Thursday, March 1, 09:00–11:00, EIBIR IMAGINE Theatre, 2nd Level (next to Room U)
HAMAM Public Session

The EU-funded project HAMAM, coordinated by EIBIR, aimed to achieve the ambitious target of improving the early detection and accurate diagnosis of breast cancer by integrating the available multi-modal images and patient information into a single clinical workstation. The workstation could revolutionise your field of work in the near future and facilitate your daily work in diagnosis and early recognition.

ECR delegates are cordially invited to join the HAMAM Public Session. Results of the HAMAM project will be presented and the audience will have the chance to become acquainted with the workstation in detail.

Thursday, March 1 to Sunday, March 4

Novel technology that shapes radiology: EIBIR presents IMAGINE (Workshop)

Coordinator: W. Niessen; Rotterdam/NL

The IMAGINE Workshop gives research institutes, university groups and industrial companies a chance to present their novel and exciting technological developments.

The workshop setting:
• One lecture (oral presentation) per topic
• One interactive workshop session per topic: hands-on experience of the techniques and tools for registered participants
• Two walk-in sessions for all selected abstract presenters and topics (open to the public)

Programme/Schedule:
Oral presentations at the EIBIR IMAGINE Theatre

Thursday, March 1
14:00–15:30: Oncology
Chairman: M. de Bruijne; Rotterdam/NL

Friday, March 2
14:00-15:30: Cardiovascular disease
Chairman: M. Nielsen; Copenhagen/DK

Saturday, March 3
14:00-15:30: Musculoskeletal & Neurological Disease and Image Guided Interventions
Chairman: C. Barillot; Rennes/FR

Workshop (guided tour)*

Thursday March 1
15:30-17:30: Oncology

Friday March 2
15:30-17:30: Cardiovascular disease

Saturday March 3
15:30-17:30: Musculoskeletal & Neurological Disease and Image Guided Interventions

* The number of participants for each course is limited.

Thursday, March 1, 09:00–11:00, EIBIR IMAGINE Theatre, 2nd Level (next to Room U)

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The EU-funded project HAMAM, coordinated by EIBIR, aimed to achieve the ambitious target of improving the early detection and accurate diagnosis of breast cancer by integrating the available multi-modal images and patient information into a single clinical workstation. The workstation could revolutionise your field of work in the near future and facilitate your daily work in diagnosis and early recognition.

ECR delegates are cordially invited to join the HAMAM Public Session. Results of the HAMAM project will be presented and the audience will have the chance to become acquainted with the workstation in detail.

Thursday, March 1 to Sunday, March 4

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Saturday March 3
15:30-17:30: Musculoskeletal & Neurological Disease and Image Guided Interventions

* The number of participants for each course is limited.
Accompanying Sessions

Friday, March 2, 14:00–15:30, Lounge 6, 1st Level

EIBIR Session

Collaborative Initiatives in Imaging Research

No matter what the field: networking is always important. In the service of research, the European Institute for Biomedical Imaging Research (EIBIR) will present some initiatives it has carried out, in collaboration with research teams, in order to successfully put research ideas into practice, and facilitate exchange. Find out about inspirational examples of collaboration in imaging research. Which session will you attend?

Moderators: G. Krestin; Rotterdam/NL
J. Hennig; Freiburg/DE

• Introduction
G. Krestin; Rotterdam/NL

• EuroAIM – Evidence-based radiology: Who and where
F. Sardanelli; Milan/IT

• Chemistry Platform – Networking supports probe development for imaging modalities
S. Aime; Torino/IT

• Cancer Imaging Working Group – Challenges and partnership in oncology
P. Brader; Vienna/AT

• Biomedical Image Analysis – A platform to boost collaborative research and interoperability
W. Niessen; Rotterdam/NL

• EIBIR – No matter in which area: Networking is always important
J. Hennig; Freiburg/DE

• Discussion

Audience members are invited to a reception hosted by EIBIR (Sunday, March 4, 17:30, Room Z).

Visit the EIBIR Booth at the entrance level to get more information on EIBIR’s activities and services.

www.eibir.org

Friday, March 2, 16:00–17:30, Room Q

ESOR Session

Broadening the concept of radiological education

During this session, the European School of Radiology (ESOR) will give participants an insight into the variety of its training programmes and opportunities while also putting forward for discussion some crucial and evolving obstacles facing radiological education in Europe.

• Introduction
A. Palkó; Szeged/HU

• ESOR in action 2012
N. Gourtsoyiannis; Athens/GR

• Widening the vision of teaching in radiology
S. Golding; Oxford/UK

• Radiology fellowships: are they important and why?
A.K. Dixon; Cambridge/UK

• Radiology and multidisciplinary teams: structure, role, perspectives
P.A. Grenier; Paris/FR

• Awards
During the session, scholars and fellows will be awarded certificates for successfully completing the 2011 Visiting Scholarship Programmes and Exchange Programmes for Fellowships.

Saturday, March 3, 10:30–12:00, Room N/O

Standards and Audit Session

The future of radiological reporting: by whom, where, and how will it be done?

Moderator: E.J. Adam; London/UK

• Structured reporting: the benefits of uniformity of reporting world-wide [A-254]
C.E. Kahn; Milwaukee, WI/US

• Teleradiology: more disadvantages than advantages [A-255]
R. FitzGerald; Wolverhampton/UK

• Teleradiology: more advantages than disadvantages [A-256]
L. Donoso; Barcelona/ES

= Interactive session with electronic voting/self assessment
Accompanying Sessions

Saturday, March 3, 16:00–17:30, Room Z
EIBIR/EuroAIM Session
Evidence-based radiology: ongoing projects and perspectives

Evidence for the rational use of imaging technology is lacking. The European Network for the Assessment of Imaging in Medicine (EuroAIM) is carrying out multiple projects in order to:

- verify the role of radiologists in the writing of meta-analyses, guidelines and other secondary papers concerning diagnostic and interventional radiology;
- make the retrieval of secondary literature easier through a web-based system;
- promote research projects on evidence-based controversies in radiology.

Current projects and perspectives will be presented. Radiologists and residents are welcome to attend this session.

Moderators: G. Krestin; Rotterdam/NL
Sardanelli; Milan/IT

- Evidence-based radiology 2001–2010: the authorship
  F. Sardanelli; Milan/IT
- State-of-the-art in medical imaging: A dynamic overview of current evidence via modern media
  M. Hunink; Rotterdam/NL
- Preoperative Breast MRI: Multicenter International Prospective Analysis of Individual Woman Data
  R.M. Trimboli; Milan/IT
- Discussion

Sunday, March 4, 10:30–12:00, Studio 2012
Undergraduate teaching: the future of radiology

Moderator: D.E. Malone; Dublin/IE

- Why teach undergraduates radiology? [A-375]
  S.J. Golding; Oxford/UK
- The European scene: lessons from the 2010 survey [A-376]
  K. Verstraete; Gent/BE
- What and how should we teach undergraduates? [A-377]
  S. Pedraza; Girona/ES

Sunday, March 4, 14:00–15:30, Room Z
ENCITE Session at ECR 2012
Imaging highlights – Monitoring disease and therapy

In order to address the large variety of cell therapies on the disease-oriented level, the European Network for Cell Imaging and Tracking Expertise (ENCITE) is pleased to announce the development of new MR and related imaging technologies and biomarkers as well as promising approaches to monitoring disease and therapy, in vivo.

This ENCITE programme should be of particular interest to those who want to keep up with the latest developments in MR and multimodal imaging technology, and how these can be employed to monitor disease and therapy, in vivo, in preclinical models and clinical studies.

Moderator: S. Aime; Torino/IT

- Get trained on imaging cell therapies with probes and procedures developed by ENCITE
  S. Aime; Torino/IT
- Cell Tracking with 19F Magnetic Resonance Imaging
  P. Boehm-Sturm; Köln/DE
- Imaging of novel therapies in Glioblastomas using multiple biomarkers
  W. Reichardt; Freiburg/DE
- Integrated image analysis of multi-modal pre-clinical imaging studies
  B. Lelieveldt; Leiden/NL
- In vivo imaging of immune responses in cancer patients
  C. Figdor; Nijmegen/NL
- Discussion

Sunday, March 4, 16:00–17:30, Room Z
Euro-BioImaging – Support of translational imaging research by pan-European research infrastructures

This session aims to present the progress of Euro-BioImaging, the ESFRI pan-European research infrastructure for imaging technologies in biological and biomedical sciences. The synergy between Euro-BioImaging and other ESFRI research infrastructures from the life sciences, and their potential impact on translational research in imaging, will be presented.

European radiologists and residents are welcome to attend this session.

Moderator: S. Schönberg; Vienna/AT and Mannheim/DE

- Euro-BioImaging: strategy for access to innovative imaging research in Europe
  S. Schönberg; Euro-BioImaging, Vienna/AT and Mannheim/DE
- Infrafrontier: providing large-scale infrastructure for animal models
  M. Raess; Infrafrontier, Munich/DE
- ECRIN: clinical studies involving imaging for outcome-oriented research
  J. Demotes; ECRIN, Paris/FR
- Discussion

Sunday, March 4, 17:30, Room Z
Audience members are invited to a reception hosted by EIBIR (Sunday, March 4, 17:30, Room Z).

Sunday, March 4, 10:30–12:00, Studio 2012
Evidence-based radiology: ongoing projects and perspectives

Sunday, March 4, 14:00–15:30, Room Z
Euro-BioImaging – Support of translational imaging research by pan-European research infrastructures

Sunday, March 4, 17:30, Room Z
Audience members are invited to a reception hosted by EIBIR (Sunday, March 4, 17:30, Room Z).
Image-Guided Breast Biopsy: How to do it

Coordinator:
M.H. Fuchsjäger; Vienna/AT

Speakers:
M.H. Fuchsjäger; Vienna/AT
T.H. Helbich; Vienna/AT
I. Schreer; Kiel/DE

Instructors:
C.S. Balleyguier; Villejuif/FR
M. Bernathova; Vienna/AT
L. Ceugnart; Lille/FR
C. Dromain; Villejuif/FR
R. Gruber; Vienna/AT
M. Locatelli; Gorizia/IT
K. Pinker; Vienna/AT
A. Malich; Nordhausen/DE
L. Rotenberg; Neuilly-sur-Seine/FR
B. Szabo; Szeged/HU
C.F. Weismann; Salzburg/AT
M. Wiesmayr; Vienna/AT

This practical course teaches participants the fundamentals of percutaneous image-guided biopsy of breast lesions under stereotactic, ultrasound and MR imaging guidance. Percutaneous image-guided needle core biopsy is faster, less invasive and less expensive than surgical biopsy and has thus become the alternative for histopathological assessment of breast lesions. Tissue acquisition is performed with automated large-core needles or directional vacuum-assisted biopsy probes. Guidance for percutaneous biopsy is provided by stereotaxis, ultrasound and MR imaging, which plays an especially significant role in high risk patients. The choice of the respective image guidance method depends on lesion type (mass lesion, microcalcifications) as well as the visualisation through the various diagnostic imaging modalities. This practical course reviews indications, advantages, limitations and controversial issues in percutaneous image-guided biopsy of breast lesions under stereotactic, ultrasound and MR imaging guidance.

Participants will work on phantoms to learn the device-related technical aspects of the performance as well as how to choose the adequate guidance method, how to prepare the patient and percutaneous biopsy device, and how to adequately approach the lesion. Oncological as well as quality assurance aspects will be emphasised. State-of-the-art equipment is available, including different automated large-core needles and/or directional vacuum-assisted biopsy probes. The practical training courses are organised to allow time for each participant to perform interventions under expert supervision.

Learning objectives:
1. To comprehend the indications and limitations of percutaneous image-guided breast biopsy.
2. To understand how to ensure quality standards of breast biopsy under stereotactic, ultrasound and MR imaging guidance.
3. To learn how to choose the adequate imaging guidance modality and prepare the patient accordingly.
4. To be able to select the appropriate percutaneous biopsy device (automated large-core or directional vacuum-assisted biopsy probe).
5. To be able to perform breast biopsies under stereotactic, ultrasound and MR imaging guidance in accordance with international standards.

Introductory lectures:
- Indications, limitations and controversies for ultrasound-guided breast biopsy
  I. Schreer; Kiel/DE
- Indications, limitations and controversies for stereotactic-guided breast biopsy
  T.H. Helbich; Vienna/AT
- Indications, limitations and controversies for MR imaging-guided breast biopsy
  M.H. Fuchsjäger; Vienna/AT

Registration:
The number of participants for each course is limited. Pre-registration has been arranged according to the order in which applications were received. Registration will be possible onsite if seats are still available. Please register in front of room X, 20 minutes before the start of the course. Please note that an extra fee of €50 per participant is charged for this course. Attendance of the lecture session on Thursday afternoon is mandatory in order to participate in the pre-registered practical training courses.

Schedule:

**Thursday, March 1**
SK 225  14:00–15:30  Introductory Lectures
   (room P, 1st level)

**Friday, March 2**
SK 525  10:30–12:00  MR imaging guidance
SK 625  14:00–15:30  US guidance
SK 725  16:00–17:30  Stereotactic guidance

**Saturday, March 3**
SK 925  10:30–12:00  MR imaging guidance
SK 1025  14:00–15:30  US guidance
SK 1125  16:00–17:30  Stereotactic guidance

**Sunday, March 4**
SK 1325  10:30–12:00  MR imaging guidance
SK 1425  14:00–15:30  US guidance
SK 1525  16:00–17:30  Stereotactic guidance

All courses will take place in room X (1st level).
Learning objectives:
1. To understand the applications of US in these two areas.
2. To see an expert examination performed live.
3. To see examples of common pathology.
4. To have the opportunity for group and expert appraisal of the delegates’ own techniques.

Introductory lectures:
- **US of the hip and groin: anatomy and pathology**
  E.G. McNally; Oxford/UK
- **US of the hip and groin: demonstration**
  E.G. McNally; Oxford/UK
- **US of the knee and calf: anatomy and demonstration**
  C. Martinoli; Genoa/IT
- **US of the knee and calf: pathology**
  A. Klauser; Innsbruck/AT

Registration:
The number of participants for each course is limited. Pre-registration has been arranged according to the order in which applications were received. Registration may be possible onsite, if seats are still available. Please register in front of room Y, 20 minutes before the course starts. Please note that an extra fee of €50 per participant is charged for this course. Important details, including the course schedules, are indicated on the confirmation/invoice.

It is recommended that inexperienced users follow the introductory lectures on Friday morning before entering the practical training courses.

Schedule:
**Friday, March 2**
- SK 426 08:30–10:00  Introductory Lectures (room N/O, 1st level)
- SK 526 10:30–12:30  Practical training course
- SK 626 14:00–16:00  Practical training course

**Saturday, March 3**
- SK 926 10:30–12:30 Practical training course

All courses will take place in room Y (1st level).
Worauf es ankommt.

quattro.

Kraftstoffverbrauch gesamt in l/100 km: 5,0 – 10,7.
CO₂-Emission in g/km: 129 – 249.
**Thursday, March 1, 10:30–11:30, Studio 2012**

**SY 1: Satellite Symposium organised by Siemens Healthcare**

3D tomosynthesis: opportunities for breast cancer imaging

Moderator: T. Mertelmeier; Erlangen/DE

- Introduction
  T. Mertelmeier; Erlangen/DE
- 3D breast tomosynthesis – a problem solver for difficult cases in clinical routine
  J. Barkhausen; Lübeck/DE
- Breast tomosynthesis – a feasible breast cancer screening modality?
  S. Zackrisson; Malmö/SE
- 3D breast tomosynthesis and contrast enhanced dual energy: a prototype report
  T.H. Helbich; Vienna/AT
- Panel discussion

**Thursday, March 1, 12:00–13:00, Studio 2012**

**SY 3: Satellite Symposium organised by Siemens Healthcare**

Imaging for breast cancer therapy planning, execution and control

Moderator: J. Barkhausen; Lübeck/DE

- Introduction
  J. Barkhausen; Lübeck/DE
- 3D breast ultrasound: a poor man’s MRI?
  M.J.C.M. Rutten; ’s-Hertogenbosch/NL
- Potential role of digital breast tomosynthesis (DBT) in breast cancer diagnosis
  N. Uchiyama; Tokyo/JP
- Impact of imaging on staging, planning and treatment delivery in curative breast cancer radiotherapy
  S. Bodis; Aarau/CH
- From control to prediction, moving forward in the field of neoadjuvant chemotherapy
  R.M. Mann; Nijmegen/NL
- Panel discussion,

**Friday, March 2, 08:30–09:30, Room 13**

**MSY 2: Mini Satellite Symposium organised by iCAD**

Dynamic contrast enhanced breast and prostate MRI: an integrated approach in a multi-parametric MRI protocol

Moderator: S. Stevens; Boston, MA/US

- Welcome and introduction
  S. Stevens; Boston, MA/US
- Breast and prostate multi-parametric MRI: protocols
  C.S. Balleyguier; Villejuif/FR, F. Cornud; Paris/FR
- UltraFastTM Doppler: first clinical experiences
  B. Brkljačić; Zagreb/HR
- Evaluation of liver fibrosis with ShearWave™ elastography
  G. Ivanac; Zagreb/HR
- Published results of worldwide breast clinical trial with ShearWave™ elastography
  F.K.W. Schäfer; Kiel/DE
- Transrectal ShearWave™ elastography of prostate nodules: detection and characterisation of cancer
  J.-M. Correas; Paris/FR
- Thyroid elastography: the story so far
  P. Ricci; Rome/IT
- Thyroid elastography-elastoscan contrast index: a novel technology
  W. van de Vooren; Rotterdam/NL
- Technical aspects of elastoscan contrast index for thyroid
  V. Cantisani; Rome/IT
- Elastoscan contrast index for thyroid: first clinical results
  V. Cantisani; Rome/IT
- Live scan with a model with Accuvix A30
  V. Cantisani; Rome/IT
- Questions and answers
### Friday, March 2, 12:30–13:30, Room D1
#### SY 5: Satellite Symposium organised by Bayer Healthcare
**Leading the way in contrast-enhanced MR imaging**

**Moderator:** F. Sardanelli; Milan/IT

- **Choice of contrast in CNS MRI:** what is the impact?
  N. Anzalone; Milan/IT
- **More than 10 years of experience with Gadovist**
  F. Sardanelli; Milan/IT
- **VALUE of Primovist MRI vs CE-MRI and MDCT for staging of patients with liver metastases**
  C.J. Zech; Munich/DE

### Friday, March 2, 12:30–13:30, Room F2
#### SY 6: Satellite Symposium organised by GE Healthcare
**High-field MRI in a new light**

**Moderator:** A. van der Lugt; Rotterdam/NL

- **Humanising radiology**
  J. Coumans; Waukesha, WI/US
- **3T MRI: new trends in cerebral vascular imaging**
  J. Hodel; Paris/FR
- **PET/MR vs PET/CT: the clinical reality check starts**
  G.K. von Schulthess; Zurich/CH

### Friday, March 2, 12:30–13:30, Room G/H
#### SY 7: Satellite Symposium organised by Bracco
**Strategies for radiation dose reduction in contrast-enhanced CT**

**Moderator:** C. Catalano; Rome/IT

- **How to marry scanner and contrast variables to maximise radiation dose reduction**
  M. Prokop; Nijmegen/NL
- **Coronary CTA and beyond: new evidence and recommendations**
  H.-C. Becker; Munich/DE
- **Protocols for body CT: tips and tricks**
  A.J. Aschoff; Kempten/DE
- **Interactive discussion**

### Friday, March 2, 12:30–13:30, Room I/K
#### SY 8: Satellite Symposium organised by Philips Healthcare
**Meaningful innovations: advances in hybrid imaging**

**Moderator:** O. Ratib; Geneva/CH

- **Clinical experience with Time-of-Flight PET/MR – the radiology view**
  P.R. Ros; Cleveland, OH/US
- **Clinical experience with Time-of-Flight PET/MR – the nuclear medicine view**
  S. Kayander; Turku/FI
- **Improving PET lesion detection with astonished TF**
  W. Weber; Freiburg/DE

### Saturday, March 3, 10:00–11:00, Room 13
#### MSY 3: Mini Satellite Symposium organised by im3D
**Enhancing diagnosis in CT-colonography: CAD in clinical practice, screening and training**

**Moderator:** A. Laghi; Latina/IT

- **Welcome**
- **CAD-radiologist interaction in clinical diagnosis: lessons from the CADIMPACT trial**
  D. Regge; Turin/IT
- **What we know about training radiologists: current status and future directions**
  P. Lefere; Roeselare/BE
- **Mass screening with CT-colonography: towards a patient friendly, computer-assisted examination**
  G. Iussich; Turin/IT
- **Final discussion**

### Saturday, March 3, 12:30–13:45, Room D1
#### SY 9: Satellite Symposium jointly organised by Siemens Healthcare and Bayer Healthcare
**Synergies in CT – for better patient care**

**Moderator:** K.S. Lee; Seoul/KR

- **CT angio und perfusion: what you need to know**
  J.E. Wildberger; Maastricht/DE
- **Excellent and efficient – a new class in CT**
  J.-C. Steffens; Hamburg/DE
- **Opportunities in modern paediatric CT**
  J.-F. Paul; Le Plessis Robinson/FR
- **Clinical benefits of a new, fully integrated CT detector**
  J. Hausleiter; Munich/DE
### Satellite Symposia

#### Saturday, March 3, 12:30–13:30, Room E1
**SY 10: Satellite Symposium organised by Guerbet**

**Vessel and muscle in coronary heart disease**

**Moderator:** S. Plein; Leeds/UK

- **Introduction**
  S. Plein; Leeds/UK

- **Updated developments in coronary MSCT in patients with atrial fibrillation**
  M. Dewey; Berlin/DE

- **Detection of occult myocardial infarcts and coronary stenosis in asymptomatic diabetic patients**
  T.-H. Lim; Seoul/KR

- **Why not having both with cardiac hybrid imaging?**
  O. Gämperli; Zurich/CH

- **Questions and answers**
  S. Plein; Leeds/UK

#### Saturday, March 3, 12:30–13:30, Room F1
**SY 11: Satellite Symposium organised by Hitachi**

**Technology fusion from Hitachi Aloka Medical**

**Moderator:** C. Faletti; Turin/IT

- **Fusion of multi-modality imaging technologies to improve prostate cancer detection**
  T. Fischer; Berlin/DE

- **Impact of contrast-enhanced ultrasound in patients with neuroendocrine liver metastases undergoing radio-peptide therapy**
  F. Giesel; Heidelberg/DE

- **Clinical impact of ultra-high resolution technologies in musculoskeletal ultrasound**
  T. Geeritsma; Ede/NL

#### Saturday, March 3, 12:30–13:30, Room F2
**SY 12: Satellite Symposium organised by Philips Healthcare**

**Advances in magnetic resonance with the new Ingenia 1.5T and 3.0T digital MR systems**

**Moderator:** J. van den Bremer; Eindhoven/NL

- **Welcome introduction**
  D. Malhotra; Cleveland, OH/US

- **Advanced abdominal imaging with Ingenia 3.0T**
  M. Dobritz; Munich/DE

- **MultiTransmit 4D on Ingenia 3.0T: advanced cardiac imaging**
  R. Gebker; Berlin/DE

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**Saturday, March 3, 12:30–13:30, Room I/K**

**SY 13: Satellite Symposium organised by Bracco**

**The impact of contrast agent choice for oncology imaging**

**Moderator:** C.J. Herold; Vienna/AT

- **The value of high relaxivity contrast in MRI applications**
  P. Schramm; Göttingen/DE

- **Imaging of CNS tumours: key clinical evidence and the MERIT study**
  J. Vymazal; Prague/CZ

- **Performing effective breast MRI in clinical practice**
  L. Martincich; Candiolo/IT

#### Saturday, March 3, 12:30–13:30, Room L/M
**SY 14: Satellite Symposium organised by Philips Healthcare**

**Advances in radiology ultrasound using the iU22 xMatrix**

**Moderator:** E. Leen; London/UK

- **xMatrix, a new diagnostic tool for abdominal ultrasound**
  D.A. Clevert; Munich/DE

- **Advancements in musculoskeletal ultrasound**
  C. Martinoli; Genoa/IT

#### Saturday, March 3, 12:30–13:30, Room N/O
**SY 15: Satellite Symposium organised by Philips Healthcare**

**Shaping the future of breast cancer screening**

**Moderators:** M. Danielsson; Solna/SE
  H. Ringertz; Linköping/SE

- **Single-shot spectral mammography in clinical practice**
  M.G. Wallis; Cambridge/UK

- **Breast density measurement – risk assessment in screening**
  S. Molloi; Irvine, CA/US

- **Benefits of dose reduction in mammography**
  E. Pisano; Charleston, SC/US
Satellite Symposia

Saturday, March 3, 14:00–15:30, Room C
SY 17: Satellite Symposium organised by Hologic
Emerging technologies in breast cancer detection and treatment with an emphasis on breast tomosynthesis
Moderator: A. Smith; Bedford MA/US
  • The Oslo clinical tomosynthesis screening experience: an update
    P. Skaane; Oslo/NO
  • The Italian clinical tomosynthesis experience: an update
    S. Ciatto; Trento/IT
  • The value of contrast-enhanced mammography in breast cancer detection
    J. Lewin; Denver, CO/US

Saturday, March 3, 14:00–15:30, Room D1
SY 18: Satellite Symposium organised by Siemens Healthcare
Creating the future of MRI
Moderator: C.D. Claussen; Tübingen/DE
  • Introduction
    C. Zindel; Erlangen/DE
  • 3T MRI – between a luxury good and clinical necessity
    A. McKenna-Küttner; Frankfurt/DE
  • How to address workflow challenges in a broad spectrum MRI-service: first experiences with Dot
    C. Bremer; Münster/DE
  • Biograph mMR – clinical reality of simultaneous MR-PET and future realm of possibilities
    C.D. Claussen; Tübingen/DE

Saturday, March 3, 14:00–15:30, Room E1
SY 19: Satellite Symposium organised by Toshiba
Innovations in diagnostic imaging technologies
Moderator: M. Prokop; Nijmegen/NL
  • Volume navigation on interventional angiography systems
    L. Collignon; Liège/BE
  • Recent developments in cerebral vascular imaging on Toshiba MR scanners
    K. Tsuchiya; Tokyo/JP
  • Cerebrospinal fluid flow imaging in physiological and pathophysiological brain using magnetic resonance imaging with time spatial spin labeling
    S. Yamada; Kanagawa/JP
  • AIDR 3D – a promising dose reduction tool in clinical applications
    A. Blum; Nancy/FR
  • Body CT perfusion – the state of the art
    H. Schöllnast; Graz/AT

Saturday, March 3, 14:00–15:30, Room N/O
SY 20: Satellite Symposium organised by GE Healthcare
From in-vivo to in-vitro, enabling personalised cancer care
Moderator: R.C. Sigal; Velizy/FR
  • Is there any advantage of volume navigation and needle tracking techniques in the management of oncology patients?
    T. Albrecht; Berlin/DE
  • MRgFUS: a non-invasive approach to thermoablation
    A. Beck; Berlin/DE
  • The clinical role of molecular breast imaging
    E. Even-Sapir Weizer; Tel Aviv/IL

Saturday, March 3, 14:45 –16:00, Studio 2012
SY 16: Satellite Symposium organised by Bracco
Panel discussion: The evolving role of the radiologist: service provider or diagnosis decision maker?

Sunday, March 4, 12:30–13:30, Room C
SY 21: Satellite Symposium organised by GE Healthcare
New paradigm in CT imaging capabilities and patient care
Moderator: J. de Mey; Brussels/BE
  • Introduction
    J. de Mey; Brussels/BE
  • Preserving diagnostic image quality with new CT reconstruction techniques and low concentration Iso-osmolar contrast media
    J.-L. Sablayrolles; St. Denis/FR
  • Dose in paediatric imaging: how low can we go?
    C. Ernst; Brussels/BE
  • New advances in cardiovascular CT to lower dose and improve diagnosis
    G. Pontone; Milan/IT
  • Questions and answers

Sunday, March 4, 12:30–13:30, Room E1
SY 22: Satellite Symposium organised by Toshiba
State of the art in ultrasound imaging – new tools and perspectives
Moderator: M. Claudon; Vandoeuvre-les-Nancy/FR
  • New diagnostic roads in abdominal and breast imaging
    T. Fischer; Berlin/DE
  • Clinical impact of new tools for interventional ultrasound applications
    J.-M. Correas; Paris/FR
  • Clinical application of advanced high frequency ultrasound techniques
    A.K.P. Lim; London/UK
**Satellite Symposia**

**Sunday, March 4, 12:30–13:30, Room L/M**

**SY 25: Satellite Symposium organised by Siemens Healthcare**

**Pioneering advances in ultrasound**

- Automated image fusion: where are we today?  
  D.A. Clevert; Munich/DE
- Advances in strain imaging and automated imaging of the breast  
  C.S. Balleyguier; Villejuif/FR
- ARFI and virtual touch quantification in the abdomen  
  F. Piscaglia; Bologna/IT

**Sunday, March 4, 12:30–13:30, Room N/O**

**SY 26: Satellite Symposium organised by Philips Healthcare**

**Advances in MR guided interventional oncology**

- Interventions in MR: clinical routine  
  J. Ricke; Magdeburg/DE

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**Sunday, March 4, 12:30–13:30, Room G/H**

**SY 23: Satellite Symposium organised by Philips Healthcare**

**Embedding novel CT technologies in daily routine**

- Cardiac CT: dose optimisation strategies  
  F. Donnelly; Belfast/UK
- Virtual colonoscopy: successful implementation in daily workflow  
  M.T. De Witte; Nijmegen/NL

**Sunday, March 4, 12:30–13:30, Room I/K**

**SY 24: Satellite Symposium organised by Bracco**

**Dynamic contrast enhanced ultrasound: an established radiation-free option for abdominal radiology**

- Introduction: 2011 and 2012, European and worldwide update of recommendations for CEUS  
  L. Solbiati; Busto Arsizio/IT
- CEUS, a solution to reduce radiation exposure in abdominal imaging  
  P.S. Sidhu; London/UK
- Vuebox™ a new quantification software tool dedicated to CEUS  
  F. Tranquart; Geneva/CH
- Advances in interventional radiology with xMatrix CEUS and fusion imaging  
  E. Leen; London/UK

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**Sunday, March 4, 12:30–13:30, Room I/K**

**SY 24: Satellite Symposium organised by Bracco**

**Dynamic contrast enhanced ultrasound: an established radiation-free option for abdominal radiology**

**Moderator:** L. Solbiati; Busto Arsizio/IT

- Cardiac CT: dose optimisation strategies  
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**Sunday, March 4, 12:30–13:30, Room G/H**

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  M.T. De Witte; Nijmegen/NL
# Industry Hands-on Workshops

**Thursday, March 1 to Sunday, March 4, Siemens Experience Lounge, Entrance Level**

Industry Hands-on Workshops organised by Siemens Healthcare

Attend the Hands-on Workshops at our Experience Lounge to discover more about innovative applications in Computed Tomography, Magnetic Resonance, Molecular Imaging, and Breast Tomosynthesis. Learn from the experience of our well known clinical speakers.

The objective of the 1.5 hour workshops is to provide an update on state-of-the-art techniques for Computed Tomography, Magnetic Resonance, Molecular Imaging, and Breast Tomosynthesis. The courses will cover topics from image acquisition to post-processing, including guided step-by-step demos. Furthermore, experience the easy and intuitive features provided by syngo and syngo.via for multimodality reading of clinical images.

The workshops at the Siemens Experience Lounge are free of charge for **registered ECR 2012 attendees**. Please note that only a limited number of seats is available on a first come – first serve basis.

**Schedule:**

**Thursday, March 1**

<table>
<thead>
<tr>
<th>Time</th>
<th>Workshop</th>
<th>Instructor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:00–15:30</td>
<td><strong>3D Breast Tomosynthesis</strong></td>
<td>C. Van Ongeval; Leuven/BE</td>
</tr>
<tr>
<td>16:00–17:30</td>
<td><strong>MRI Breast Reading and Reporting</strong></td>
<td>W.A. Kaiser; Jena/DE</td>
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**Friday, March 2**

<table>
<thead>
<tr>
<th>Time</th>
<th>Workshop</th>
<th>Instructor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30–10:00</td>
<td><strong>3D Breast Tomosynthesis</strong></td>
<td>A. Van Steen; Leuven/BE</td>
</tr>
<tr>
<td>10:30–12:00</td>
<td><strong>Advanced Reading in PET/CT</strong></td>
<td>A. Cavallaro; Erlangen/DE</td>
</tr>
<tr>
<td>12:30–14:00</td>
<td><strong>MRI/CT Modern MSK Imaging</strong></td>
<td>C. Rehnitz; Heidelberg/DE</td>
</tr>
<tr>
<td>14:30–16:00</td>
<td><strong>Advanced Reading in PET/CT</strong></td>
<td>A. Cavallaro; Erlangen/DE</td>
</tr>
<tr>
<td>16:30–18:00</td>
<td><strong>MRI in Acute Stroke</strong></td>
<td>S. Siemonsen; Hamburg/DE</td>
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</tbody>
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**Saturday, March 3**

<table>
<thead>
<tr>
<th>Time</th>
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</tr>
</thead>
<tbody>
<tr>
<td>08:30–10:00</td>
<td><strong>CT – Oncology</strong></td>
<td>A. Graser; Munich/DE</td>
</tr>
<tr>
<td>10:30–12:00</td>
<td><strong>Multimodal Prostate MRI</strong></td>
<td>M. Röthke; Heidelberg/DE</td>
</tr>
<tr>
<td>12:30–14:00</td>
<td><strong>3D Breast Tomosynthesis</strong></td>
<td>C. Van Ongeval; Leuven/BE</td>
</tr>
<tr>
<td>14:30–16:00</td>
<td><strong>CT – Dual Energy</strong></td>
<td>R. Bauer; Frankfurt/DE</td>
</tr>
<tr>
<td>16:30–18:00</td>
<td><strong>CT – Cardiology</strong></td>
<td>M. Kerl; Frankfurt/DE</td>
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</tbody>
</table>

**Sunday, March 4**

<table>
<thead>
<tr>
<th>Time</th>
<th>Workshop</th>
<th>Instructor(s)</th>
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</thead>
<tbody>
<tr>
<td>10:00–11:30</td>
<td><strong>CT – Colonography</strong></td>
<td>T. Mang; Vienna/AT</td>
</tr>
<tr>
<td>12:00–13:30</td>
<td><strong>MRI Breast Reading and Reporting</strong></td>
<td>W.A. Kaiser; Jena/DE</td>
</tr>
<tr>
<td>14:00–15:30</td>
<td><strong>Advanced Quantification in PET/CT</strong></td>
<td>A. Cavallaro; Erlangen/DE</td>
</tr>
<tr>
<td>16:00–17:30</td>
<td><strong>CT – Neurology</strong></td>
<td>P. Schramm; Göttingen/DE</td>
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**Friday, March 2 to Sunday, March 4, GE Hands-on Workshop Room, 1st Level**

Industry Hands-on Workshops organised by GE Healthcare

Interactive educational hands-on session to learn about new mammography advanced applications techniques.

**Generation Breast Imaging workshop**

- **Contrast Enhanced Spectral Mammography (SenoBright):** how to solve inconclusive cases with the use of Contrast Agent in combination of Digital Mammography.
- **Tomosynthesis:** review 3D tomo cases versus 2D.

**Schedule:**

09:00–10:30
12:30–14:00
16:00–17:30

**Instructors:** D. Kopans; Boston, MA/US
A. Quaroni; Milan/IT
K. Santi; Paris/FR
A. Talaverano; Madrid/ES
Industry Hands-on Workshops

**About OsiriX PRO**
Medical images present a steadily growing challenge. In these hands-on workshops, we introduce you to the latest state in medical image post-processing. Attendees can immediately follow the demonstrated contents on Apple Macintosh workstations at hand. OsiriX is an excellent open source software which meets this challenge and was decorated with multiple international awards. The software in use is OsiriX PRO – the only class IIb CE-labelled and class II FDA-cleared version of OsiriX.

**Topics covered:**
- OsiriX PRO basics, import/export, 2D-viewer, reviewing, Thickslab/MPR/MIP, teleradiology with iPad, volumetric analysis, 3D volume rendering, segmentation, bone removal, fusion, 3 point based registration, 4D analysis, vessel analysis

**Schedule:**

**Friday, March 2:**
- 09:30–10:30: **Basic Course**
- 11:00–12:00: **Basic Course**
- 14:00–14:45: **Mammography**
- 15:30–16:30: **Oncology**

**Saturday, March 3:**
- 10:00–12:00: **OsiriX PRO Italian Workshop**
- 13:00–14:00: **Vessel Analysis**
- 15:00–15:45: **Teleradiology**

**Sunday, March 4:**
- 10:00–12:00: **OsiriX PRO Austrian/German Workshop**
- 13:00–14:00: **Basic Course**
- 15:00–15:45: **Mammography**

**Monday, March 5:**
- 09:30–10:15: **OsiriX – Overview**
- 11:30–12:30: **Oncology**
- 13:30–14:15: **Teleradiology**
- 15:30–16:30: **Vessel Analysis**

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**About aycan**
Medical images present a steadily growing challenge. In these hands-on workshops, we introduce you to the latest state in medical image post-processing. Attendees can immediately follow the demonstrated contents on Apple Macintosh workstations at hand. OsiriX is an excellent open source software which meets this challenge and was decorated with multiple international awards. The software in use is OsiriX PRO – the only class IIb CE-labelled and class II FDA-cleared version of OsiriX.

**Topics covered:**
- OsiriX PRO basics, import/export, 2D-viewer, reviewing, Thickslab/MPR/MIP, teleradiology with iPad, volumetric analysis, 3D volume rendering, segmentation, bone removal, fusion, 3 point based registration, 4D analysis, vessel analysis

**Schedule:**

**Friday, March 2:**
- 10:00–12:00: **Basic Course**
- 12:30–14:30: **Basic Course**

**Saturday, March 3:**
- 10:00–12:00: **OsiriX PRO Italian Workshop**
- 13:00–14:00: **Vessel Analysis**
- 15:00–15:45: **Teleradiology**

**Sunday, March 4:**
- 10:00–12:00: **OsiriX PRO Austrian/German Workshop**
- 13:00–14:00: **Basic Course**
- 15:00–15:45: **Mammography**

**Monday, March 5:**
- 09:30–10:15: **OsiriX – Overview**
- 11:30–12:30: **Oncology**
- 13:30–14:15: **Teleradiology**
- 15:30–16:30: **Vessel Analysis**
Mini Industry Hands-on Workshops

Friday, March 2, Meeting Room 12, Lower Level
Mini Industry Hands-on Workshopss organised by Invivo International / Philips

At ECR 2012 Invivo arranges an MR-guided prostate biopsy workshop. The workshop features Invivo's cutting-edge products: DynaCAD and DynaTrim.

Improving patient safety and workflow efficiency in the MRI with patient monitoring systems

Schedule:
10:00–11:20
11:40–13:00

Speaker: L. Lumens; NL

Invivo Prostate MR Imaging and Intervention Workshop

Schedule:
14:00–14:30: Welcome & Introduction
14:30–15:30: Image Interpretation
16:00–17:00: Trans-rectal interventional MRI
17:00–17:30: Case Review on DynaCAD

Instructor: J.J. Fütterer; Nijmegen/NL

Saturday, March 3 and Sunday, March 4, Meeting Room 11, Lower Level
Mini Industry Hands-on Workshops organised by iCAD

Prostate MRI Case Review

Schedule:
Saturday, March 3
08:30–09:15
15:45–16:30

Instructor: F. Cornud; Paris/FR

Breast MRI Case Review

Schedule:
Sunday, March 4
08:30–09:15
15:45–16:30

Instructor: C.S. Balleyguier; Villejuif/FR
Postgraduate Educational Programme

Session numbers are prefixed by CC, E3, EF, EM, HL, MC, MS, NH, OL, PC, RC, SA, SF, TF

Presentation numbers are prefixed by the letter A

Key to Abbreviations

- **CC**  Categorical Course
- **E3**  European Excellence in Education
- **EF**  EFOMP Workshop
- **EM**  ESR meets Session
- **HL**  Honorary Lecture
- **MC**  Mini Course
- **MS**  Multidisciplinary Session
- **NH**  New Horizons Session
- **OL**  Opening Lecture
- **PC**  Professional Challenges Session
- **RC**  Refresher Course
- **SA**  State of the Art Symposium
- **SF**  Special Focus Session
- **SS**  Scientific Session
- **TF**  Radiology Trainees Forum

Presentations for which the author(s) have submitted additional material and images to EPOS™ are marked with the 🎨 icon.
12:30 – 13:30 Room Z

Molecular Imaging
MC 23A Basics in molecular imaging (1)
Moderator: S. Chatziioannou; Athens/GR

12:30
A-001 A. Introduction to molecular imaging: a challenge for radiologists?
P. Brader; Vienna/AT

Learning Objectives:
1. To learn about basic concepts, principles and strategies of molecular imaging.
2. To understand the multimodality and multidisciplinary approach of molecular imaging.
3. To become familiar with task of imaging functional and structural events at the molecular level.

12:50
A-002 B. Multiscale imaging: from in vivo to in vitro and back
B. Tavitian, A. Dubois, A. Winkeler; Orsay/FR

Learning Objectives:
1. To understand the temporal and spatial scales within living animal systems.
2. To become familiar with the temporal and spatial scales imaged by in vivo and in vitro imaging methods.
3. To learn how to bridge temporal and spatial scales between the different imaging methods.

13:10
A-003 C. PET-CT-MRI and radiotracers for MI
I. Martí-Bonmatí; Valencia/ES

Learning Objectives:
1. To understand the multimodality approach to MI based on PET-CT-MRI.
2. To learn about the different radiotracers that can be used with multimodality equipment.
3. To be informed about future developments that may potentially be used with these techniques.

14:00 – 15:30 Room B

Interactive Teaching Session

E³ 220 Acute abdominal inflammatory disorders

14:00
A-004 A. Colitis and enterocolitis
C. Hohl; Siegburg/DE

Learning Objectives:
1. To know how to choose the appropriate imaging modality.
2. To be familiar with the patterns of distribution and appearance in imaging.
3. To learn how to differentiate ischaemia from inflammation.

14:45
A-005 B. Liver and bile ducts
C.D. Becker; Geneva/CH

Learning Objectives:
1. To know the advantages of each imaging technique.
2. To be familiar with the findings in infrequent infections.
3. To learn how to study obstructive jaundice.

14:30 – 15:30 Room Z

The Beauty of Basic Knowledge: Interpretation of the Chest Radiograph
MC 27A The mediastinum

14:30
A-006 The mediastinum
D.J. Lomas; Cambridge/UK

Learning Objectives:
1. To be able to describe the basic anatomic landmarks.
2. To learn to identify mediastinal masses.
3. To be able to classify mediastinal masses according to their density.

16:00 – 17:30 Room B

Interactive Teaching Session

E³ 320 Musculoskeletal emergencies

16:00
A-007 A. Axial skeleton
E. Llopis, E. Belloch, V. Higueras; Valencia/ES

Learning Objectives:
1. To understand the principal indications for emergency spinal imaging.
2. To be able to analyse pros and cons of each imaging modality in spinal trauma: how, why, when?
3. To be familiar with MRI key findings in spinal infection, tumour cord compression and other non-traumatic spine disorders.
4. To be familiar with the main emergency complications after spine surgery.

16:45
A-008 B. Peripheral skeleton
V. Cassar-Pullicino; Oswestry/UK

Learning Objectives:
1. To learn when and how to use the different imaging modalities in acute skeletal lesions.
2. To learn the US and MRI findings in infection.
3. To understand the value of MDCT in acute MSK lesions.

16:00 – 17:30 Room C

Abdominal Viscera

RC 301 Abdominal tumour evaluation: from morphology to biology

16:00
A-009 Chairman’s introduction
D.J. Lomas; Cambridge/UK

Learning Objectives:
1. To learn about the commonly applied imaging tools in assessing neoplasm extension.
2. To know the current applied method for quantification of viable tumour tissue.
3. To go through a critical review of criteria actually used in oncologic management.
16:28
A-011 B. Perfusion: a reliable tool for tumour activity assessment
F. Berger; Munich/DE
Learning Objectives:
1. To know about perfusion imaging protocols, specific advantages and technical challenges.
2. To learn about the latest antiangiogenic/antivascular treatment strategies in oncology.
3. To understand the significance of CT or MR perfusion imaging in the management of oncologic patients.

16:51
A-012 C. Beyond vascularisation: exploring tumour biology
L. Martí-Bonmatí; Valencia/ES
Learning Objectives:
1. To become familiar with the most appropriate imaging biomarkers of tumour activity.
2. To recognise the qualitative and quantitative information of the different modalities.
3. To appreciate the clinical role of these techniques in planning therapeutic strategies.

Panel discussion:
17:14
How can you easily implement morphological and functional tools into your clinical practice?

16:00 – 17:30 Room D1
Emergencies in Neuroradiology
CC 319 Ischaemic stroke ('acute neurologic deficit')
Moderator: R.D. Brüning; Hamburg/DE

16:00
A-013 A. Early diagnosis of ischaemic stroke: CT, MRI or other?
A. van der Lugt; Rotterdam/NL
Learning Objectives:
1. To learn about the role of CT in acute stroke: advantages, limitations, early signs.
2. To learn about the role of MRI in acute stroke: advantages, limitations, early signs.
3. To understand what the role of CT or MR perfusion imaging is.
4. To become familiar with the best algorithm for the management of stroke patients.

16:30
A-014 B. Which patients are candidates for thrombolysis?
K.-O. Løvblad; Geneva/CH
Learning Objectives:
1. To understand the physiology of cerebral blood flow.
2. To be familiar with the concept of 'core infarct' and 'penumbra'.
3. To learn how we can identify the penumbra on CT perfusion imaging.
4. To learn how we can identify the penumbra on MR perfusion imaging.

17:00
A-015 C. Interventional neuroradiology for the treatment of ischaemic stroke
J. Szikora, I. Gubucz, M. Marosfoi, Z. Berentei, C. Ovary, D. Varga; Budapest/HU
Learning Objectives:
1. To learn how to select stroke patients for interventional neuroradiological treatment.
2. To be familiar with the techniques for intra-arterial thrombolysis.
3. To be familiar with the techniques for mechanical thrombectomy.
4. To understand what the advantages, disadvantages, risks and limitations of these methods are.

16:00 – 17:30 Room D2
Head and Neck
RC 308 Temporal bone imaging
Moderator: C. Czerny; Vienna/AT

16:00
A-016 A. Normal anatomy and congenital malformations of the ear
S. Kösling; Halle a.d. Saale/DE
Learning Objectives:
1. To review the normal anatomy of the temporal bone.
2. To become familiar with congenital malformations of the external and middle ear.
3. To recognise and differentiate the most frequent congenital malformations of the inner ear.

16:30
A-017 B. Cholesteatoma and chronic infection
F. Veillon; Strasbourg/FR
Learning Objectives:
1. To learn about different causes of hearing loss within the external auditory canal and middle ear.
2. To learn to differentiate cholesteatoma from chronic infection.

17:00
A-018 C. Enhancing inner ear structures
J. Casselman; Bruges/BEL
Learning Objectives:
1. To become familiar with different types of enhancing inner ear structures.
2. To learn how to differentiate enhancing inner ear structures.
3. To learn the natural behaviour of different types of enhancing inner ear structures.

16:00 – 17:30 Room E1
Special Focus Session
SF 3 Neuroimaging in neonates, infants and children: when to do what

16:00
A-019 Chairman’s introduction
A. Rossi; Genoa/IT
Session Objectives:
1. To describe the indications of US and MRI: when to use what.
2. To stress the role of DTI and tractography in the more detailed evaluation of brain pathology.
3. To discuss the role of voxel-based methods in detecting abnormalities that can be missed by even the most experienced radiological eye.

16:05
A-019 What is the potential and role of brain ultrasound in the MRI era?
M. Asimakopoulou; Ioannina/GR
Learning Objectives:
1. To learn about the role of US in diagnosing the encephalopathy of prematurity.
2. To become familiar with US patterns of periventricular leukomalacia and brain haemorrhagic disease.
3. To understand the role of US in diagnosing hypoxic-ischaemic disease in full term babies.
A-021 When is MRI of the brain indicated?
P.D. Griffiths; Sheffield/UK

Learning Objectives:
1. To understand the changes in MR signal characteristics found in the foetal, neonatal and paediatric brain as myelination progresses.
2. To understand why different approaches need to be made when performing MR imaging of the brain in those groups.
3. To appreciate the effects that myelination has on the ability to detect the more common brain malformations.

A-022 What is the role of advanced post-processing of MRI images?
P.C. Maly Sundgren; Lund/SE

Learning Objectives:
1. To become familiar with the principles of tractography and discuss advantages and limitations.
2. To appreciate the applications of susceptibility-weighted contrast-enhanced MRI.
3. To learn about the indications of voxel-based methods and the advantages over ROI techniques.

Panel discussion: Paediatric neuroimaging: what should the general radiologist know?

A-023 Chairman’s introduction
R. Manfredi; Verona/IT

Session Objectives:
1. To understand the role of a multidisciplinary approach.
2. To learn about the goal of each medical specialty in pancreatic tumours.

A-024 What the surgeon needs to know
C. Bassi; Verona/IT

Learning Objectives:
1. To understand the criteria for resectable and non-resectable pancreatic adenocarcinoma.
2. To learn about treatment planning of neuroendocrine tumours.
3. To be aware of surgical indications in cystic pancreatic tumours.

A-025 Complete or incomplete resection: the added value of the pathologist
G. Zamboni; Verona/IT

Learning Objectives:
1. To understand the pathologic features of different pancreatic neoplasms.
2. To learn about distinct histo-pathologic findings that enable tumour characterisation.
3. To be aware of histo-pathologic findings that show prognostic relevance.

A-026 Imaging of pancreatic tumours
R. Manfredi; Verona/IT

Learning Objectives:
1. To know the diagnostic imaging findings in different pancreatic neoplasms.
2. To learn about the role of imaging in surgical planning.
3. To be familiar with the strengths and weaknesses of imaging in patient management.

A-027 Case presentation and discussion
R. Manfredi; Verona/IT

A-028 A. Examination protocols for imaging the lung: CT and MRI
C.M. Schaefer-Prokop; Amersfoort/NL

Learning Objectives:
1. To understand the technical and clinical basis for appropriate protocol planning of thoracic CT and MRI examinations.
2. To learn the characteristics of diagnostically meaningful examination protocols.
3. To become familiar with the tips and tricks for appropriate contrast material administration.

A-029 B. Radiation dose in lung imaging: issues and practical solutions
D. Tack; Baudour/BE

Learning Objectives:
1. To become familiar with the clinical, technical, and epidemiological challenges of radiation delivery and dose reduction specific to lung imaging.
2. To understand the technical methods currently available for reducing dose when imaging the lung.
3. To become familiar with tailored approaches to lung imaging according to the ALARA (as low as reasonably achievable) principle.

A-030 C. Anatomy: the hinterland of normal on HRCT
S.J. Copley; London/UK

Learning Objectives:
1. To become familiar with the particular HRCT findings that occupy the gray area between unequivocal health and definite disease.
2. To become familiar with these findings, with a particular focus on the effects of cigarette smoking and ageing.
3. To understand the dilemma between the increased sensitivity of HRCT to detect preclinical disease and the potential risk of overdiagnosis.

Discussion

Breast

RC 302 Functional imaging of the breast
Moderator: K. Pinker, Vienna/AT

A-031 A. Contrast-enhanced mammography
C.H. Bellawi, S. Canale, M.-C. Mathieu, C. Dromain; Villejuif/FR

Learning Objectives:
1. To learn the underlying physical principles of CEM.
2. To understand the different protocols that have been proposed.
3. To appreciate the potential impact of CEM on everyday clinical practice.
A-032  B. Ultrasound elastography  
A. Athanasiou; Paris/FR

Learning Objectives:
1. To understand the basic principles of elastography.
2. To learn about the difference between strain and shear wave US elastography and their respective results.
3. To appreciate the additional value of US elastography to B-mode US.

A-033  C. MRI diffusion, perfusion and spectroscopy  
P.A.T. Baltzer, M. Dietzel, W.A. Kaiser; Jena/DE

Learning Objectives:
1. To understand the diagnostic value of diffusion weighted imaging (DWI) in its present clinical applications.
2. To learn about the technical basics and potential uses of MRI perfusion in the breast.
3. To understand the promise and challenges of MR spectroscopy in clinical practice.

Genitourinary

RC 307  Imaging the female pelvis  
Moderator: M. Secil; Izmir/TR

A-034  A. Imaging for pelvic pain in pregnancy  
G. Masselli; Rome/IT

Learning Objectives:
1. To become familiar with the most common causes of pelvic pain in pregnancy.
2. To understand how to diagnose non-gynaecological causes of pain in pregnancy.

A-035  B. Imaging gynaecological emergencies  
A.G. Rockall; London/UK

Learning Objectives:
1. To recognise the causes of common gynaecological emergencies.
2. To understand the diagnostic imaging of common gynaecological emergencies.

A-036  C. Imaging for non-gynaecological emergencies  
K. Nikolaou; Munich/DE

Learning Objectives:
1. To become familiar with the causes and diagnostic findings of common non-gynaecological emergencies.
2. To know how to investigate patients with reference to history and clinical findings.
3. To learn how to approach pelvic pain using multimodality imaging techniques in different clinical contexts.

Cardiac

RC 303  Cardiac imaging: the cutting edge  
Moderator: J. Vymazal; Prague/CZ

A-037  A. Cardiac MRI: high fields vs 1.5T  
B.J. Wintersperger; Toronto, ON/CA

Learning Objectives:
1. To learn about the latest technical developments in high-field cardiac MRI.
2. To know about results of clinical application of high-field cardiac MRI.
3. To become familiar with potential advantages and drawbacks of high-field cardiac MRI.

A-038  B. Cardiac CT: tubes, rows and what else?  
P.A. Kaufmann, Zurich/CH

Learning Objectives:
1. To learn about the latest technical developments in cardiac CT.
2. To understand how the technical characteristics of CT scanners influence results of cardiac CTA.
3. To know about the optimal combination of scanning parameters to get the most out of CT scanners in cardiac examinations.

A-039  C. Cardiac hybrid imaging  
P.A. Kaufmann, Zurich/CH

Learning Objectives:
1. To understand the principles of cardiac hybrid imaging.
2. To learn about the added diagnostic value of hybrid imaging.
3. To know about possible indications for performing hybrid imaging.

Professional Challenges Session

PC 3  Diagnosis of inflammatory conditions

A-040  Chairmen’s introduction  
P. Bourguet1, A. Palkó2; 1Rennes/FR, 2Szeged/HU

Session Objectives:
1. To understand the importance of functional and morphological imaging evaluation of inflammatory conditions in certain inflammatory conditions.
2. To evaluate the specific role and the proper diagnostic algorithm of nuclear medicine and radiological techniques.
3. To highlight potential avenues of future development for functional and morphological imaging in the diagnostics of these conditions.

A-041  Imaging inflammatory bowel disease: the nuclear medicine perspective  
A. Signore; Rome/IT

Learning Objectives:
1. To highlight available imaging methods, imaging techniques and diagnostic algorithms for the evaluation of inflammatory bowel lesions.
2. To learn more about the specificity of nuclear medicine techniques and their clinical role.
3. To understand the role of nuclear medicine imaging in the evaluation of disease activity and extent, therapy decision making and early therapy follow-up.

A-042  Imaging inflammatory bowel disease: the radiology perspective  
P. Bourguet1, A. Palkó2; 1Rennes/FR, 2Szeged/HU
Vascular

A-043 Vascular graft infections and inflammation: the nuclear medicine perspective
O. Israel; Haifa/IL

Learning Objectives:
1. To understand the potential value of nuclear medicine procedures in suspected vascular graft infection.
2. To understand the specific incremental role of hybrid imaging in suspected vascular graft infection.
3. To recognise patterns of true and false positive findings in infected vascular grafts and to know the referral criteria for the best utilisation of hybrid imaging in vascular graft infection.

A-044 Vascular graft infections and inflammation: the radiology perspective
A. Romero Jaramillo; Barcelona/ES

Learning Objectives:
1. To understand the importance and role of radiological imaging in the detection, evaluation and therapy planning of vascular graft infections and inflammations.
2. To know more about available imaging methods, imaging techniques and diagnostic algorithms for the evaluation of vascular graft complications.
3. To learn more about the specific imaging symptoms and differential diagnostic considerations in vascular graft infections and inflammation.

Panel discussion:
What is seen in the crystal ball: the future role of nuclear medicine and radiology in the evaluation of inflammatory conditions

Interventional Radiology

RC 309 The trauma patient

A-045 Chairman’s introduction
A. Watkinson1, D.O. Kessel2; 1Exeter/UK, 2Leeds/UK

A-046 A. Imaging modalities and logistics
D.O. Kessel; Leeds/UK

Learning Objectives:
1. To understand the appropriate triage of trauma patients to imaging.
2. To learn about the most appropriate imaging techniques.
3. To be familiar with imaging findings.

A-047 B. Management of arterial trauma
J. Urbano; Madrid/ES

Learning Objectives:
1. To understand potential treatment options and when to treat and when not to treat.
2. To be familiar with different embolisations and other treatments.
3. To learn about the results and appropriate follow-up strategies.

A-048 C. Solid organ trauma
L. Lonn; Copenhagen/DK

Learning Objectives:
1. To know about the causes and the imaging appearances of solid organ trauma.
2. To understand various methods of IR treatment.
3. To learn about the results and appropriate follow-up strategies.

Panel discussion:
Do we need IR in the ER?

Computer Applications

RC 305 Image processing and computer-aided diagnosis (CAD)

A-052 Chairman’s introduction
O. Ratib; Geneva/CH

Session Objectives:
1. To discuss what the radiologist should know about image processing and CAD.
2. To understand the intrinsic of digital image reconstruction techniques.
3. To present some basic concepts of quantitative image analysis.
4. To discuss the impact on radiological practice.

A-053 A. The link between image reconstruction and image analysis
A. Todd-Pokropek; London/UK

Learning Objectives:
1. To review the basics and updates on tomographic image reconstruction techniques.
2. To become familiar with some basic quantitative image analysis techniques.
3. To understand the link between quantitative analysis and CAD.
4. To learn about potential future applications of quantitative analysis in clinical practice.
A-054  B. Semantic web technologies for sharing and reuse of imaging-related information
B. Gibaud; Rennes/FR

Learning Objectives:
1. To learn new concepts in distributed image management.
2. To become familiar with perspectives in translational medicine.
3. To learn about semantics of imaging data.
4. To understand new concepts of medical ontology.

A-055  C. Image processing and CAD: workflow in clinical practice
E. Neri; Pisa/IT

Learning Objectives:
1. To understand the new concepts in image processing (3D, virtual navigation, image-guided interventions etc.).
2. To review the principles of current CAD systems in the detection of lung, breast and colon cancer.
3. To learn the impact of these new processing tasks in clinical practice.
4. To understand the future role of radiologists in supporting tasks beyond image interpretation.

Panel discussion:

How do image processing and CAD impact radiological daily practice?

18:30 – 18:50  Room A

Plenary Session

OL  Opening Lecture
Presiding: L. Bonomo; Rome/IT

18:30  A-056  Arcimboldo in the service of natural sciences
S. Ferino-Pagden; Vienna/AT
Postgraduate Educational Programme
New Horizons Session

NH 4  Liver imaging: reality and virtuality

08:30
A-057  Chairman’s introduction
C. Bartolozzi; Pisa/IT

Session Objectives:
1. To learn how to image and display the real liver.
2. To learn how to create virtual models.
3. To learn how to exploit these data in clinical practice.

08:33
A-058  Acquisition and display of liver ‘reality’
L. Martí-Bonmatí; Valencia/ES

Learning Objectives:
1. To review new multimodality imaging strategies.
2. To become familiar with new contrast-enhanced studies of the liver.
3. To learn about liver biomarkers.

08:51
A-059  Postprocessing and modelling
D. Caramella; Pisa/IT

Learning Objectives:
1. To be informed about advanced presentation of imaging information.
2. To review segmentation and classification.
3. To become familiar with a model-based approach to describing liver pathology.

09:09
A-060  Planning and simulation
O. Ratib; Geneva/CH

Learning Objectives:
1. To learn how to provide the interventionalist and the surgeon with necessary information before the procedure.
2. To learn how to implement environments for training interventionalists and surgeons.

09:27
A-061  Intraoperative functional imaging: visualisation and navigation for liver surgery
N. Navab, T. Wendler; Munich/DE

Learning Objectives:
1. To learn how to provide the interventionalist and the surgeon with necessary information during the procedure.
2. To learn how to implement intraoperative assistance.

Panel discussion:
09:45
The ultimate challenge: virtual technology for real medicine

08:30 – 10:00  Room C

Contrast Media

RC 406  Contrast media and tracers: always as safe as we wish?

08:30
A-064  Chairman’s introduction
S.K. Morcos; Sheffield/UK

Session Objectives:
1. To provide an understanding of the bio-distribution of extra cellular water soluble contrast agents after intravenous administration.
2. To highlight the physico-chemical properties that influence the safety of iodine-based and gadolinium-based contrast agents.
3. To provide a summary of the different adverse effects that might occur with the use of contrast agents including an approach to minimising the risk of these adverse events.

08:35
A-065  A. Iodinated CM: whether CIN is a SIN, and how to avoid it
R.W.F. Geenen; Alkmaar/NL

Learning Objectives:
1. To understand the pharmacokinetics of iodinated contrast media.
2. To understand CIN mechanisms.
3. To learn about pertinent safety issues.

08:58
A-066  B. MR contrast agents: rumble in the jungle
G. Heinz-Peer; Vienna/AU

Learning Objectives:
1. To understand the spectrum and mechanisms of MR contrast agents.
2. To understand the pathophysiology behind NSF.
3. To learn about clinical safety issues to consider beyond NSF.

09:21
A-067  C. PET tracers: established tracers and those on the horizon
B. Tavitian; Orsay/FR

Learning Objectives:
1. To understand the working mechanism and radiation of current clinical tracers.
2. To become familiar with the potential clinical indications and applications.
3. To learn about potential new tracers.

Panel discussion:
09:44
What specific precautions are mandatory in order to guarantee contrast media safety to patients and healthcare professionals?

08:30 – 10:00  Room B

Interactive Teaching Session

E³ 420a  Thoracic infections: what the radiologist must report

08:30
A-062  A. Pulmonary infections
L.R. Goodman; Milwaukee, WI/US

Learning Objective:
1. To learn how to recognise pulmonary infections in immunocompetent and immunodepressed patients.
08:30 – 10:00 Room D1

Controversies in Abdominal Imaging

**A-068**  A. Why I prefer CT  
G.A. Rollandi, E. Biscaldi; Genoa/IT

**A-069**  B. Why MRI is the best  
S. Gourtsoyianni; Athens/GR

08:30 – 10:00 Room D2

State of the Art Symposium

SA 4  Imaging during pregnancy

**A-071**  Chairman’s introduction  
M. Beksinski-Figatowska; Warsaw/PL

Session Objectives:
1. To become familiar with the risk of using radiological modalities in pregnant woman.
2. To consolidate knowledge of the pros and cons of the different imaging techniques.
3. To learn about the indications requiring the use of imaging in pregnancy.

**A-072**  What are the real risks of radiation and contrast media to the mother and the foetus?  
D. Prayer; Vienna/AU

Learning Objectives:
1. To understand indications for CM administration during pregnancy.
2. To learn about the potential use of CT.
3. To be informed about potential risks of radiation and CM for mother and fetus.

**A-073**  What are the real risks of US and MRI to the foetus?  
M. Wozniak; Lublin/PL

Learning Objectives:
1. To learn about the risks of US and MRI.
2. To become familiar with the underlying mechanisms.
3. To learn how to avoid or minimise the potential risks to the foetus.

09:00 – 10:00 Room E1

Emergency Radiology

**RC 417**  ER: basic principles  
Moderator: O. Chan; London/UK

**A-076**  A. Logistics, ergonomics and organisation of an emergency radiology department  
I. Arkhipova; Moscow/RR

Learning Objectives:
1. To understand how an emergency radiology department should be built.
2. To be familiar with the logistics of the whole organisation, from the technology to 24-hour staffing.

**A-077**  B. Advanced trauma life support: ABCDE from a radiological point of view  
D.R. Kool; Nijmegen/NL

Learning Objectives:
1. To understand the relationship between advanced trauma life support and emergency radiology.
2. To know more about the rational use of x-rays, US and MDCT according to patient priorities in the emergency settings.
3. To become familiar with the most important findings to report.

09:30 – 10:00 Room E2

Foundation Course: More About Ultrasound

**E³ 420b**  Understand recent issues in US technology  
Moderator: M. Bachmann Nielsen; Copenhagen/DK

**A-079**  A. Recent advances in US technology  
M. Claudon; Vandoeuvre-les-Nancy/FR

Learning Objectives:
1. To understand basic technical principles of sonography.
2. To appreciate advantages and limitations of diagnostic US.
3. To present the most significant advances in key fields of diagnostic US.
09:00 A-080 B. Portable machines: the future of US?
G.H. Mostbeck; Vienna/AT

Learning Objectives:
1. To learn about the technical aspects of portable machines compared to standard US equipment.
2. To consider US performed with portable machines as a problem-solving tool in cases of unclear CT and MR findings.
3. To learn about bedside applications of portable US in the ICU/IMC and trauma/emergency patient.

09:30 A-081 C. How to choose your equipment
J.-M. Correas; Paris/FR

Learning Objectives:
1. To learn how radiologists and sonographers should select a US system.
2. To recognise the main technical features that affect the choice of a US system.
3. To become familiar with the non-technical issues in the selection of a US system.

08:30 – 10:00 Room F1
Organs from A to Z: Lung

MC 422 Anatomy-based imaging review of lung disease
Moderator: N. Sverzellati; Parma/IT

08:30 A-082 A. Around and between the lungs: pleura, mediastinum, and hila
A. Oikonomou; Alexandroupolis/GR

Learning Objectives:
1. To learn about the imaging spectrum of pleural diseases.
2. To be aware of the imaging spectrum of mediastinal diseases.
3. To get more information about the imaging spectrum of hilar diseases.

08:55 A-083 B. Large airways, small airways, and alveoli
M. Remy-Jardin; Lille/FR

Learning Objectives:
1. To understand the imaging characteristics of large airways, small airways, and alveoli.
2. To understand the imaging characteristics of the pathological entities contributing to the development of the clinical COPD.
3. To be able to describe the potential continuum between these components, as clinically manifested in the spectrum of chronic obstructive pulmonary disease (COPD).

09:20 A-084 C. Pulmonary vessels
M. Remy-Jardin; Lille/FR

Learning Objectives:
1. To be able to interpret pulmonary vascular imaging studies.
2. To become familiar with the current approach to pulmonary embolic disease according to the latest guidelines and recommendations.
3. To understand the involvement of the pulmonary vasculature in non-embolic disease, including diseases of the heart.

08:30 – 10:00 Room F2
Special Focus Session
SF 4a Controversies in breast imaging

08:30 A-085 Chairman’s introduction
M.G. Wallis; Cambridge/UK

Session Objectives:
1. To appreciate that there are risks and benefits to breast imaging.
2. To learn the magnitude of these risks and benefits.
3. To become familiar with the methods to manage these risks.

08:35 A-086 Should we screen women under 50?
A. Evans; Dundee/UK

Learning Objectives:
1. To learn about the evidence for screening women under 50.
2. To understand the benefits to the population of screening under 50.
3. To appreciate the risks to individual women of offering screening to women under 50.

08:58 A-087 How to image the dense breast
C. Van Ongeval; Leuven/BE

Learning Objectives:
1. To learn about the methods of calculation of breast density and the cancer risks associated with dense breasts.
2. To understand problems related to the interpretation of dense breasts.
3. To learn about the advantages and disadvantages of other current and new imaging techniques.

09:21 A-088 What to do with false positive MR imaging
L. Martincich; Candiolo/IT

Learning Objectives:
1. To learn about the magnitude of the risks of false positive MRI.
2. To become familiar with more common findings of false positives.
3. To learn about the techniques to reduce the false positive rate and to manage the „false positive’ lesion.

Panel discussion:
How do we manage/minimise the consequences of our uncertainties?

08:30 – 10:00 Room G/H
Neuro

RC 411 General neuroradiology: introduction to the brain
Moderator: E.-M.B. Larsson; Uppsala/SE

08:30 A-089 A. Brain anatomy made easy: the language system
T.A. Yousry; London/UK

Learning Objectives:
1. To learn about the general brain cortical anatomy.
2. To be able to identify the most important cortical anatomy involved in the language system and its imaging representation.
3. To be able to recognize the most important white matter tracts involved in the language system and its imaging representation.
4. To get a glimpse into the relevant anatomical and clinical insights coming from MR microscopy.
09:00
A-090  B. Brain haemorrhage: from microbleeds to lobar haematomas
M.A. van Buchem, Groningen/NL

Learning Objectives:
1. To learn about the MR imaging features of brain haemorrhage in the different haemorrhage stages and different sequences.
2. To be able to identify and make the differential diagnosis of the most common causes of microbleeds.
3. To be able to identify and make the differential diagnosis of the most common causes of parenchymal haemorrhage.

09:30
A-091  C. Differential diagnosis of multiple brain lesions: tumour and tumour-like lesions
A. Rovira Cañellas, Barcelona/ES

Learning Objectives:
1. To become familiar with the most common causes of multiple brain lesions caused by primary and secondary brain tumours.
2. To learn about the most common causes of multiple non-neoplastic brain lesions that mimic tumours.
3. To learn the characteristic neuroimaging findings that may be useful in establishing differential diagnoses.
4. To be aware of the importance of advanced neuroimaging techniques for evaluation of multiple brain lesions.

08:30 – 10:00 Room I/K
Joint Course of ESR and RSNA
(Radiological Society of North America)

MC 428  Essentials in oncologic imaging: what radiologists need to know (part 1)
Moderator: D.M. Panicek, New York, NY/US

08:30
A-092  A. Principles of oncologic imaging and reporting
D.M. Panicek, New York, NY/US

Learning Objectives:
1. To review general principles of oncologic imaging.
2. To understand the critical importance of clinical context during interpretation of oncologic exams.
3. To evaluate ways to ensure that our reports provide added value and reflect the radiologist’s role as consultant.

08:55
A-093  B. Lung cancers (primary, metastases)
C.J. Hendriks, Vienna/AT

Learning Objectives:
1. To review the strengths and limitations of radiologic techniques suitable for detecting and characterising primary and metastatic lesions in the lungs.
2. To understand the imaging findings relevant for lung cancer T, N and M staging, and appraise the implications of the new IASLC lung cancer staging system.
3. To evaluate the imaging findings used to assess response to conventional and new therapies for lung cancers.

09:25
A-094  C. Colon cancer
R.M. Gore, Evanston, IL/US

Learning Objectives:
1. To get an overview of current recommendations for the diagnosis of colorectal cancer.
2. To understand the specific role of MDCT, MR imaging, endoscopic ultrasound, and PET/CT in the staging of colorectal cancer in optimising patient management.
3. To learn the utility of imaging in assessing tumour response to therapy and in the general follow-up of patients with colorectal cancer.

09:50 Questions

08:30 – 10:00 Room I/M
Multidisciplinary Session:
Managing Patients with Cancer
MS 4  Lymphoma

08:30
A-095  Chairman’s introduction
E. de Kerviler, Paris/FR

Session Objectives:
1. To understand what extent an optimal subtyping of lymphoma is necessary at diagnosis and relapse.
2. To become familiar with molecular analyses, beyond morphology and immunochemistry.
3. To understand why, when and how therapy efficacy should be monitored.
4. To understand why a multidisciplinary approach is mandatory in lymphomas.

08:35
A-096  The pathologist’s view point on lymphomas
J. Brière, Paris/FR

Learning Objectives:
1. To learn about the evolution of the successive classifications of lymphomas according to new molecular prognostic markers.
2. To understand the limitations of image-guided biopsies in some peculiar entities.
3. To appreciate how response can guide future therapeutics.

08:55
A-097  What the haematologist needs to know
E. de Kerviler, Paris/FR

Learning Objectives:
1. To consolidate knowledge of the use of PET and CT for evaluating therapeutic response.
2. To become familiar with molecular analyses, beyond imaging workup at diagnosis in lymphoma patients.
3. To learn about the technique of biopsy when lymphoma is suspected.

09:15
A-098  How modern imaging can influence therapy in lymphomas
E. de Kerviler, Paris/FR

Learning Objectives:
1. To become familiar with the relevant points in the imaging workup at diagnosis in lymphoma patients.
2. To understand why histological modifications during relapses of lymphomas justify re-biopsy.
3. To become familiar with the integrated PET-CT criteria for evaluating therapeutic response.
4. To appreciate how response can guide future therapeutics.

09:35
A-099  Case presentation and discussion
E. de Kerviler, Paris/FR

Session Objectives:
1. To learn about the most common causes of parenchymal haemorrhage.
2. To learn about the most common causes of microbleeds.
3. To appreciate how response can guide future therapeutics.

08:30 – 10:00 Room P
Cardiac
RC 403  How I report
Moderator: E. Mershina, Moscow/RU

08:30
A-100  A. Chest x-ray in cardiac disease
L. Natalicchio, Firenze/IT

Learning Objectives:
1. To know about major indications for performing chest x-ray in cardiac patients.
2. To be familiar with the most important chest x-ray findings that are relevant for diagnosis and treatment of cardiac diseases.
3. To learn how to write a chest x-ray report for cardiac patients.
09:00

A-101  B. Coronary CTA
H. Alkadhi; Zurich/CH

Learning Objectives:
1. To know the scope of information needed by a referring physician from a coronary CTA examination.
2. To be familiar with possible sources of mistakes in the interpretation of cardiac CT.
3. To learn how to write a report on coronary CTA.

09:30

A-102  C. Cardiac MRI in ischaemic heart disease
J. Bogaert; Leuven/BE

Learning Objectives:
1. To understand the major indications for performing cardiac MRI in ischaemic heart disease.
2. To be familiar with protocols of cardiac MRI and image processing.
3. To learn how to write a report on cardiac MRI.

08:30 – 10:00 Room Q

Special Focus Session
SF 4b Diagnosis and management of acute vascular abdominal problems

08:30

A-103  Chairman’s introduction
A. Nicholson; Leeds/UK

Session Objectives:
1. To understand the development of minimally invasive damage control.
2. To understand the requirement for 24/7 IR service.
3. To consider other options.

08:35

A-104  Acute arterial and venous ischaemia-presentation, management and outcome
L. Boyer; Clermont-Ferrand/FR

Learning Objectives:
1. To be aware of the main etiologies, the severe prognosis, and emergency case selection.
2. To learn about presentation, the imaging findings, and the key role of CT.
3. To become familiar with the role of endovascular procedures, their results and their place in the treatment algorithms.

08:58

A-105  Acute non variceal upper gastrointestinal haemorrhage: the evidence base for and role of intervention
S. McPherson; Leeds/UK

Learning Objectives:
1. To be aware of the integration of endoscopy and radiological intervention in non-variceal upper gastrointestinal haemorrhage.
2. To appreciate the different diagnostic and management pathways for primary upper gastrointestinal tract, transpapillary and post-surgical haemorrhage.
3. To understand the available evidence comparing surgical and radiological intervention when endoscopy fails to control UGI haemorrhage.
4. To learn about the patient factors that affect clinical success and mortality after embolisation.

09:21

A-106  Management of abdominal haemorrhage in the severely injured trauma patient
O.M. van Delden; J.A. Reekers; Amsterdam/NL

Learning Objectives:
1. To understand imaging algorithms and strategies for patients with abdominal trauma.
2. To learn about indications for endovascular treatment for traumatic abdominal haemorrhage.
3. To become familiar with basic techniques for endovascular treatment of traumatic abdominal haemorrhage.
4. To learn about results and complications of endovascular treatment of traumatic abdominal haemorrhage.

Panel discussion:

09:44

Is there sufficient evidence to favour image-guided intervention over open surgery in abdominal vascular emergencies and other questions?

10:30 – 12:00 Room A

ESR meets Italy

EM 1 From morphology to function
Presiding: L. Bonomo; Rome/IT, A. Rotondo; Naples/IT

10:30

A-107  Introduction: Italian Society of Radiology (SIRM) in the third millennium
A. Rotondo; Naples/IT

Session Objectives:
1. To review the current MRI and MDCT possibilities in functional imaging.
2. To consolidate knowledge of clinicians expectations of functional information.
3. To learn about the most recent MRI and MDCT applications enabling integration of morphology and function from the same examination.

10:35

A-108  Outlook and clinical perspectives of MDCT coronary angiography
M. Galia; Palermo/IT

Learning Objectives:
1. To review the performance of MDCT for diagnosis of coronary artery disease.
2. To highlight the importance of non-invasive imaging of coronary plaques.
3. To define the current and future role of MDCT for coronary artery disease and cardiac functional assessment.

10:55

A-109  Interlude: Imaging of the skeletal muscle pathology after the 2006 Winter Olympic Games
C. Faletti; Turin/IT

11:00

A-110  Experimental study with 7T-micro MRI: in vivo rat model of intestinal infarction
R. Grassi; Naples/IT

Learning Objectives:
1. To understand the chronological evolution of findings in mesenteric ischemia and infarction studying the damage either with a 7T-micro MR or by macro-microscopic observation.
2. To be able to attribute each finding to one or more of the three etiological types of mesenteric ischaemia (arterial, venous, ischaemia/reperfusion).
3. To appreciate the efficacy of MRI, as an alternative tool in the early detection of this pathology.
### Postgraduate Educational Programme

**A-111** Interlude: Reasons to come to the 45th SIRM National Congress  
C. Faletti; Turin/IT

**A-112** MR contrast agents for liver imaging  
A. Giovagnoni; Ancona/IT

**Learning Objectives:**
1. To learn about the functional aspect of hepatobiliary-specific contrast agents currently in clinical use in MRI evaluation of hepatocarcinogenesis.
2. To understand the functional aspect of hepatobiliary-specific contrast agents in MRI pre-surgical planning of liver malignancy.
3. To consolidate knowledge of use of hepatobiliary-specific contrast agents in characterisation of FLL.

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### Interactive Teaching Session

#### E³ 520a Abdominal emergencies

**A-113** A. Non-traumatic (acute abdomen)  
R. Basilico; Chieti/IT

**Learning Objectives:**
1. To understand the role of US, CT and MRI in acute abdomen.
2. To be familiar with the main differential diagnoses in acute abdomen, with reference to the site of abdominal pain.
3. To be able to recognise common and unusual findings in acute abdominal disorders.

**A-114** B. Traumatic  
D.R. Kool; Nijmegen/NL

**Learning Objectives:**
1. To understand the imaging features of liver and splenic trauma.
2. To be familiar with the imaging features of urological trauma.
3. To be familiar with the imaging features of intestinal and mesenteric trauma.

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#### Foundation Course: More About Ultrasound

#### E³ 520b Vascular imaging: Doppler and contrast-enhanced US

**A-115** A. Imaging superficial vessels  
P. Landwehr; Hannover/DE

**Learning Objectives:**
1. To become familiar with the main indications and US signs in pathology of the carotids, peripheral arterial occlusive disease and venous thrombosis.
2. To learn how to set your US system properly in superficial vessel US and to optimise your examination protocols and imaging strategy.
3. To learn about the clinical role of vascular US as a part of diagnostic work-up of vascular disease.

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**A-116** B. Imaging deep vessels  
D. Clevert; Munich/DE

**Learning Objectives:**
1. To become familiar with the use of contrast-enhanced ultrasound in abdominal aortic disorders.
2. To understand the pros and cons of different diagnostic modalities with regard to cost effectiveness.
3. To learn about risks and contraindications for EVAR and to discuss optimised imaging strategies in follow-up after EVAR.

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### Joint Course of ESR and RSNA (Radiological Society of North America)

**MC 528 Essentials in oncologic imaging: what radiologists need to know (part 2)**  
Moderator: D.M. Panicek; New York, NY/US

**A-118** A. Pancreatic cancer  
F. Caseiro-Alves; Coimbra/PT

**Learning Objectives:**
1. To understand current pathologic concepts for the classification of pancreatic tumours.
2. To learn about imaging findings used for tumour detection, staging, and restaging after adjuvant therapy.
3. To understand the role of functional and molecular information provided by PET/CT, DWI and perfusion imaging when assessing pancreatic tumours.

**A-119** B. Kidney cancer  
E.K. Fishman; Baltimore, MD/US

**Learning Objectives:**
1. To understand the diagnostic implications of minimally invasive treatments of renal cancer.
2. To review the genetic causes of renal cancer and the radiologic appearances of specific histologic subtypes.
3. To review the potential role of molecular imaging in the management of advanced renal cancer.

**A-120** C. Ovarian cancer  
H. Hricak; New York, NY/US

**Learning Objectives:**
1. To get an overview of the essential imaging findings in characterisation and staging of ovarian cancer.
2. To learn the key imaging findings that affect management of ovarian cancer.
3. To understand the changes in imaging armamentarium in ovarian cancer, and learn the best practice in proper image utilisation.
Molecular Imaging

**MC 23B Basics in molecular imaging (2)**

Moderator: J. Dijkstra; Leiden/NL

**12:30 A-121**

**A. MR contrast agents for targeted MR imaging**

S. Aime; Turin/IT

Learning Objectives:
1. To learn how to tackle the sensitivity issues of MRI probes.
2. To learn about available strategies for visualising cellular targets with MRI probes.
3. To be introduced to the use of nano-sized carriers for MR imaging-guided therapies.

**12:50 A-122**

**B. Sonographic and photo acoustic techniques for MI**

F.M.A. Kiessling; Aachen/DE

Learning Objectives:
1. To understand the principles of photo acoustic imaging.
2. To learn about the most common quantitative detection techniques for targeted US contrast agents.
3. To be informed about applications of functional and molecular ultrasound and photo acoustic imaging in preclinical and clinical research.

**13:10 A-123**

**C. Potential of optical imaging in vivo**

V. Ntziachristos; Munich/DE

Learning Objectives:
1. To learn about benefits and limitations of optical and fluorescence imaging.
2. To appreciate potential biological and clinical applications.
3. To become familiar with future direction for clinical photonic imaging.

**12:40 – 13:10 Room A**

**Plenary Session**

**HL 1 Josef Lissner Honorary Lecture**

Presiding: L. Bonomo; Rome/IT

**12:40 A-124**

**The pulmonary nodule: old and new challenges**

C.M. Schaefer-Prokop; Amersfoort/NL

Learning Objectives:
1. To understand options but also limitations of new computer supported tools to detect and characterise nodules in radiographs and CT.
2. To learn about study results so far and ongoing research to overcome these limitations.
3. To learn about the potential of low dose chest CT to move from nodule screening to thoracic disease screening.

**14:00 – 15:30 Room E2**

**Foundation Course: More About Ultrasound**

**E³ 620 US and contrast-enhanced US for focal lesions**

Moderator: D.O. Cosgrove; London/UK

**14:00 A-125**

**A. Evaluation of focal liver lesions**

C.M. Schaefer-Prokop; Amersfoort/NL

Learning Objectives:
1. To understand the contrast enhancement patterns of common benign and malignant focal liver lesions.
2. To realise the importance of delayed phase imaging for differentiation of benign vs malignant lesions and detection of metastases.
3. To understand the clinical role of CEUS of the liver including strengths and limitations as defined by the EFSUMB guidelines.

**14:30 A-126**

**B. Evaluation of kidney lesions**

C. Nicolau; Barcelona/ES

Learning Objectives:
1. To become familiar with the physiology and features of the US contrast uptake of the kidneys.
2. To discuss the role of US and CEUS in the diagnosis and characterisation of focal solid and cystic renal lesions.
3. To describe the role of CEUS in the differential diagnosis of true renal tumours with pseudotumours and other renal diseases.

**15:00 A-127**

**C. Intraoperative and therapeutic applications**

L. Solbiati; Busto Arsizio/IT

Learning Objectives:
1. To understand the potential and advantages of US in intraoperative and therapeutic applications.
2. To learn how to use US to guide therapeutic procedures.
3. To learn useful tricks for planning and performing treatments.

**14:00 – 15:30 Room I/K**

**Joint Course of ESR and RSNA**

**(Radiological Society of North America)**

**MC 628 Essentials in oncologic imaging: what radiologists need to know (part 3)**

Moderator: H.-U. Kauczor; Heidelberg/DE

**14:00 A-128**

**A. Oncologic imaging: terminology, definitions and buzzwords**

Y. Menu; Paris/FR

Learning Objectives:
1. To get an overview and precise explanation of current cancer-related terminology, definitions and "buzz" words used in everyday practice.
2. To understand why and how this terminology should ensure and simplify communication with all specialists involved in cancer management, including clinicians, researchers as well as other radiologists.
3. To learn common tricks and traps in providing a radiology report, illustrated with clinical cases.
A-129  B. Liver cancers (primary, metastases)
R.L. Baron; Chicago, IL/US

Learning Objectives:
1. To get an overview of the AASLD/EASL imaging criteria for noninvasive diagnosis of hepatocellular carcinoma.
2. To learn about best practice CT/MR/US imaging techniques that optimise characterisation, detection and staging of primary and metastatic liver tumours.
3. To understand the key role specific findings reported by radiologists have in determining patient treatment options for hepatocellular carcinoma.

A-130  C. Prostate cancer
J.O. Barentsz; Nijmegen/NL

Learning Objectives:
1. To learn the key clinical indications for MR imaging in prostate cancer.
2. To get an overview of essential MR imaging techniques in detection, characterisation, localisation and staging of prostate cancer.
3. To understand how MR imaging influences therapeutic decisions and how best to provide a value added MR report.

A-131  Molecular imaging: principles and potential applications
N. Grenier; Bordeaux/FR

Learning Objectives:
1. To become familiar with the basic principles of molecular imaging.
2. To become aware of its future possibilities.

A-132  Vascular ultrasound: technique and clinical applications
B. Brkljacic; Zagreb/HR

Learning Objectives:
1. To understand the technique of vascular ultrasound.
2. To know how to structurally assess vascular structures.

A-133  Chest x-ray in children
S. Ryan; Dublin/IE

Learning Objectives:
1. To comprehend the differences between paediatric and adult chest x-rays.
2. To learn the characteristics of the most important paediatric chest x-rays diagnoses.

A-134  The heart
J. Cáceres; Barcelona/ES

Learning Objectives:
1. To review the causes of an enlarged cardiac silhouette.
2. To recognise the different causes of dextrocardia.
3. To learn the significance of cardiac calcifications.
**ESR meets Radiation Oncologists**

**EM 2  Imaging and tailored radiation therapy in rectal cancer**

**Session Objectives:**
1. To become familiar with an integrated approach between radiologists and radiation oncologists in multidisciplinary tumour boards to tailor the best treatment for each individual patient with rectal cancer.
2. To understand how to evaluate the tumour response during and after treatment, as well as the early detection of tumour recurrence.
3. To appreciate the benefit for radiation oncologists in using hybrid equipment to allow continuous adaptation of radiation treatment according to the daily response of tumour, the surrounding organs and their movement.

**A-140 Chairmen’s introduction**

L. Bonomo, V. Valentini; Rome/IT

16:00

- **A-141 Treatment-oriented staging**
  G. Brown; Sutton/UK
  **Learning Objectives:**
  1. To understand precise definitions of a resection margin at risk.
  2. To learn about the prognostic relevance of nodal stage, vascular invasion and depth of extramural spread, and pelvic sidewall lymphadenopathy.
  3. To appreciate strategies for low rectal cancers and tumours beyond the TME plane.

16:23

- **A-142 Treatment tailored according to staging**
  K. Haustermans; Leuven/BE
  **Learning Objectives:**
  1. To understand that the initial staging of rectal cancer determines the treatment approach (patient tailored treatment).
  2. To understand the difference in approach between a short course of radiation and a long course of chemoradiation.
  3. To become familiar with the concept of “the good, the bad and the ugly” in rectal cancer.

16:41

- **A-143 Response evaluation by imaging**
  R.G.H. Beets-Tan; Maastricht/NL
  **Learning Objectives:**
  1. To understand the evidence based role of imaging for re-staging locally advanced rectal cancer after chemoradiotherapy.
  2. To understand the pitfalls and problems in interpreting post chemoradiation MRI and to learn about the MR protocol.
  3. To learn about potential new imaging techniques for precise selection of good responding patients for further tailoring of treatment.

16:59

- **A-144 Treatment of rectum cancer tailored according to longitudinal imaging and multifactorial predictors**
  P. Lambin1, R.G.P.M. van Stiphout1, H.J.W.L. Aerts1, J. Buijsen1, G. Lammering1, R.G. Beets-Tan1, G. Beets1, V. Valentini1, Maastricht/NL, Rome/IT
  **Learning Objectives:**
  1. To understand the concept of multifactorial predictive nomograms.
  2. To appreciate the value of longitudinal imaging.
  3. To become familiar with the concept of ‘RADIOMICS’.

17:17

Panel discussion

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**Controversies in Abdominal Imaging**

**MC 724  Liver imaging: always MR, or still a role for CT?**

**Moderator:** G. Brancatelli, Palermo/IT

**Teaser:** W. Schima, Vienna/AT

16:00

- **A-145 A. Why CT is the work horse**
  P. Rogalla; Toronto, ON/CA

16:25

- **A-146 B. Why MR is the ultimate tool**
  C. Ayuso; Barcelona/ES

16:50

- **A-147 Discussion**
  G. Brancatelli1, W. Schima2; 1 Palermo/IT, 2 Vienna/AT

16:00 – 17:30 Room D1

**Head and Neck**

**RC 708  Paranasal sinus imaging**

16:00

- **A-148 Chairman’s introduction**
  M.G. Mack; Frankfurt a. Main/DE

**Session Objectives:**
1. To discuss the epidemiology.
2. To discuss the pathophysiology.
3. To become familiar with facts concerning economic aspects.

16:05

- **A-149 A. Anatomy and anatomic variants**
  T. Beale; London/UK
  **Learning Objectives:**
  1. To become familiar with the normal anatomy.
  2. To become familiar with surgically relevant anatomic variants.
  3. To learn about the functional anatomy and patterns of disease.

16:28

- **A-150 B. Sinusitis: imaging findings before and after treatment**
  D. Farina; Brescia/IT
  **Learning Objectives:**
  1. To understand the value of different imaging techniques.
  2. To review imaging findings in acute infections and chronic inflammatory disease.
  3. To become familiar with postoperative changes.

16:51

- **A-151 C. Sinonasal tumours**
  B. Verbist; Leiden/NL
  **Learning Objectives:**
  1. To understand the value of different imaging techniques.
  2. To review imaging findings in benign and malignant disease.
  3. To become familiar with TNM staging of sinonasal neoplasms.

Panel discussion:

17:14

How do we recognise important findings?
16:00 – 17:30 Room E1

**Musculoskeletal**

RC 710 How I report  
Moderator: C. Glaser, Munich/DE

16:00  
A-152 A. Soft tissue mass: US/MR  
C. van Rijswijk; Leiden/NL

Learning Objectives:  
1. To be familiar with the strenghts/weaknesses of US/MRI in assessing soft tissue tumours.  
2. To understand the US/MRI specific findings that aid diagnosis.

16:30  
A-153 B. MR of vertebral body collapse  
R. Lalam; Oswestry/UK

Learning Objectives:  
1. To be able to differentiate benign/malignant causes.  
2. To learn about the changes of the vertebral body with time, disease progression and therapy.

17:00  
A-154 C. MR of the unstable shoulder  
M. Zanetti; Zurich/CH

Learning Objectives:  
1. To learn about the specific imaging findings of instability.  
2. To be familiar with the different types of shoulder instability.

16:00 – 17:30 Room E2

**Foundation Course: More About Ultrasound**

E³ 720b Emergency radiology: where does US fit in?  
Moderator: Y. Menu, Paris/FR

16:00  
A-155 A. Acute abdomen in adults: US vs CT  
L.E. Derchi; Genoa/IT

Learning Objectives:  
1. To know the US findings in the most common conditions leading to acute abdomen in adult patients.  
2. To learn the examination tricks that allow the diagnosis to be reached.  
3. To understand the advantages and disadvantages of US vs CT in adult patients with acute abdomen.

16:30  
A-156 B. Acute abdomen in children: US vs CT  
R.R. van Rijn; Amsterdam/NL

Learning Objectives:  
1. To understand the value of FAST in the paediatric population, in light of the current non-operative management.  
2. To learn the value of US in the child with intussusception.  
3. To understand the comparative merits of US and CT in children with acute appendicitis.

17:00  
A-157 C. Abdominal trauma: US or not US?  
M. Valentino; Parma/IT

Learning Objectives:  
1. To discuss the role of US in the unstable trauma patient.  
2. To understand the role of US in the stable trauma patient.  
3. To evaluate what to trust and what not to trust US for in trauma.

16:00 – 17:30 Room F1

**Special Focus Session**

SF 7a My most beautiful mistakes

16:00  
A-158 Chairman’s introduction  
M. Zins; Paris/FR

Session Objectives:  
1. To understand the potential pitfalls that may be encountered in interpreting imaging exams with emphasis on oncologic and emergency cases.  
2. To describe the different types of errors: technical or active errors.  
3. To learn about methods to facilitate identification of errors in order to minimise their occurrence.

16:05  
A-159 Breast  
C. Helbich; Vienna/AT

Learning Objectives:  
1. To learn about the potential pitfalls that may be encountered in interpreting breast imaging exams.  
2. To understand the technical errors in the realisation of breast imaging exams that contribute to misinterpretation.  
3. To be aware of the spectrum of factors that contribute to active errors (detection, characterisation) in interpretation of breast imaging exams.

16:28  
A-160 MSK  
B. Vande Berg; Brussels/BE

Learning Objectives:  
1. To learn about the potential pitfalls that may be encountered in interpreting MSK imaging exams.  
2. To understand the technical errors in the realisation of MSK imaging exams that contribute to misinterpretation.  
3. To be aware of the spectrum of factors that contribute to active errors (detection, characterisation) in interpretation of MSK imaging exams.

16:51  
A-161 Neuro  
P.C. Maly Sundgren; Lund/SE

Learning Objectives:  
1. To learn about the potential pitfalls that may be encountered in interpreting neuro imaging exams.  
2. To understand the technical errors in the realisation of neuro imaging exams that contribute to misinterpretation.  
3. To be aware of the spectrum of factors that contribute to active errors (detection, characterisation) in interpretation of neuro exams.

17:14  
Panel discussion: What have we learned from our mistakes?

16:00 – 17:30 Room F2

**Breast**

RC 702 Breast MRI today

16:00  
A-162 Chairman’s introduction  
M. Pasternack; Aachen/DE

16:05  
A-163 A. How to set up a high quality breast MRI unit  

Learning Objectives:  
1. To understand the necessary technical and training level prerequisites for a high quality breast MRI unit.  
2. To understand how to maintain optimal quality and performance.  
3. To appreciate the importance of auditing.
A-164 B. Beyond differential diagnosis and local staging: prognosis and distant staging

**Learning Objectives:**
1. To learn about the value of breast MRI in breast cancer prognosis.
2. To become familiar with the use of breast MRI in regional staging.
3. To consolidate knowledge of the present use and results of MRI in distant staging.

A-165 C. Evidence-based controversies

**Learning Objectives:**
1. To become familiar with current controversies in clinical applications of breast MRI.
2. To review literature on the role of MRI in breast cancer staging and screening in high risk patients.
3. To be aware of the potential impact of overdiagnosis in breast MRI.

Panel discussion:

**Do we find too many cancers with MRI?**

16:00 – 17:30 Room I/K

**Joint Course of ESR and RSNA (Radiological Society of North America)**

**MC 728 Essentials in oncologic imaging: what radiologists need to know (part 4)**

**Moderator:** H.-U. Kauczor, Heidelberg/DE

A-169 A. Lymphoma

**H. Schoder, New York, NY/US**

**Learning Objectives:**
1. To get a practical, clinically relevant summary of key imaging issues in Hodgkin and non-Hodgkin lymphoma.
2. To learn how imaging, especially PET and PET-CT can optimally assess and measure tumour treatment response, providing a value-added radiology report.

A-170 B. Musculoskeletal neoplasms

**M.F. Reiser, Munich/DE**

**Learning Objectives:**
1. To become familiar with the imaging modalities which enable to detect and differentiate benign and malignant bone neoplasms.
2. To consolidate knowledge of radiographic, CT and MRI findings which enable to classify and stage bone tumours.
3. To understand the potential role of PET-CT and whole body MRI.
4. To learn the signs indicative of favourable and poor response to preoperative chemotherapy and for recurrence of malignant bone tumours.

A-171 C. Chemo- and radiation therapy-induced toxicity

**H.-U. Kauczor, Heidelberg/DE**

**Learning Objectives:**
1. To get an overview of organ-specific toxicity and other adverse effects of chemo- and radiotherapy.
2. To review the key imaging findings of therapy-induced organ toxicity and adverse effects.
3. To understand how to differentiate inflammatory, infectious, fibrotic, and necrotic changes from tumour recurrence.

16:00 – 17:30 Room L/M

**Special Focus Session**

**SF 7b Assessing novel technology: applications, performance and quality issues**

**16:00 A-172 Chairmen’s introduction**

**C. Vandulek, M. Maas; Kaposvár/HU, Amsterdam/NL**

**Session Objectives:**
1. To appreciate the impact novel technology has on radiographers.
2. To understand the importance of continuous professional development.
3. To learn how to maintain optimal quality and performance with new technology.
A-173 The impact of radiographers on performance and quality issues arising with novel technology

Learning Objectives:
1. To consolidate knowledge of novel technologies faced by radiographers.
2. To identify quality issues radiographers have to overcome with new technologies.
3. To appreciate the radiographer’s role in providing quality imaging services.

A-174 How to keep up with new technique application: a continuous education programme for radiographers in action

Learning Objectives:
1. To become familiar with (digital) portfolio-based continuous education.
2. To learn about potential pitfalls in portfolio-based learning.
3. To understand the key factors of using learning management system.

A-175 The role of radiographers in respect to applications of novel technologies

Learning Objectives:
1. To consolidate knowledge of issues radiographers face in respect to novel technologies.
2. To appreciate the expertise expected of the next generation of radiographers.
3. To understand the multidisciplinary approach of novel technologies.

Panel discussion:
How can radiographers best face the challenge of novel technologies?

Interventional Radiology

RC 709 Evaluation and treatment of common venous disorders

Moderator: D. Ettles; Hull/UK

A-176 A. Pelvic congestion

Learning Objectives:
1. To learn about the concept of pelvic congestion and its clinical and imaging evaluation.
2. To be familiar with the techniques of interventional management.
3. To learn about the results and complications.

A-177 B. Varicose veins in the extremities

Learning Objectives:
1. To learn about imaging and clinical evaluation of varicose veins.
2. To know more about the minimally invasive treatment modalities.
3. To become familiar with the short-term and long-term results.

Cardiac

RC 703 Imaging of ischaemic heart disease

Moderator: K. Gruszczynska; Katowice/PL

A-179 A. CT: angiography, function and perfusion

Learning Objectives:
1. To learn how to perform functional CT studies: CT perfusion (CTP), CT function, combined CTA/CTP and viability exams.
2. To review the current scientific data supporting the use of CTP and to understand basic principles and pitfalls.
3. To discuss potential clinical applications and which patients benefit.

A-180 B. MR perfusion imaging: how much quantification do we need?

Learning Objectives:
1. To understand the different quantification techniques.
2. To become familiar with the strengths and limitations of the various quantification techniques.
3. To understand the current and future role of MR perfusion imaging in risk stratification of patients with CAD.

A-181 C. Imaging patients after bypass surgery

Learning Objectives:
1. To learn the indications of CTA for bypass graft assessment.
2. To understand the clinical impact of CTA in this subgroup of patients.
3. To be able to suggest possible indications for MR imaging in patients after bypass grafting.

Vascular

RC 715 Vascular imaging: diabetes and vascular occlusive disease

Moderator: M.W. de Haan; Maastricht/NL

A-182 A. Metabolic syndrome, diabetes and vascular disease: what do we need to know?

Learning Objectives:
1. To learn the principles of metabolic syndrome and diabetes.
2. To understand how both diseases affect the vascular system.
3. To learn which vascular territories are primarily affected.
16:30
**A-183 B. Imaging strategies in diabetic foot syndrome**
R. Iezzi; Rome/IT

**Learning Objectives:**
1. To become familiar with the typical lesions encountered in diabetic foot syndrome.
2. To understand the underlying pathophysiology.
3. To learn about imaging strategies for the evaluation of diabetic foot syndrome.

17:00
**A-184 C. Imaging prior to revascularisation: US, CTA, MRA or DSA?**
S.O. Schönberg; Mannheim/DE

**Learning Objectives:**
1. To learn about the appropriate imaging protocols for each modality.
2. To understand quantitative analysis of occlusive disease in peripheral arteries in order to plan revascularisation.
3. To learn about the specific pros and cons of ultrasound, MRA, CTA and DSA in diabetic foot syndrome prior to revascularisation.
Postgraduate Educational Programme
New Horizons Session

NH 8 Ablation beyond radiofrequency

08:30
A-185 Chairman’s introduction
J. Bilbao; Pamplona/ES

Session Objectives:
1. To become familiar with new techniques for ablation.
2. To know about the specific indications of each technique.
3. To know about the outcomes and complications of each technique may offer.

08:33
A-186 Microwave ablation
T. de Baère; Villejuif/FR

Learning Objectives:
1. To become familiar with the technique.
2. To know about the specific indications.
3. To know about the outcomes and complications.

08:51
A-187 Irreversible electroporation
T. Helmberger; Munich/DE

Learning Objectives:
1. To become familiar with the technique.
2. To know about the specific indications.
3. To know about the outcomes and complications.

08:54
A-188 High intensity focused ultrasound (HIFU)
F. Orsi; Milan/IT

Learning Objectives:
1. To become familiar with the technique.
2. To know about the specific indications.
3. To know about the outcomes and complications.

09:09
A-189 Stereotactic body radiation therapy (SBRT)
J. Aristu; Pamplona/ES

Learning Objectives:
1. To become familiar with the technique.
2. To know about the specific indications.
3. To know about the outcomes and complications.

Panel discussion:
Which method should then be used for tumoral ablation?

Special Focus Session

SF 8a Peritoneal carcinomatosis

08:30
A-190 Chairman’s introduction
P.K. Prassopoulos; Alexandroupolis/GR

Session Objectives:
1. To learn about the imaging strategies for the diagnosis, evaluation of disease extent and follow-up in patients with peritoneal carcinomatosis.
2. To become familiar with the evolution of new treatment options in peritoneal carcinomatosis.
3. To understand the necessity for accurate preoperative staging by means of imaging techniques.

08:35
A-191 What does the surgeon want to know?
T. de Baère; Villejuif/FR

Learning Objectives:
1. To become familiar with the principles of cytoreductive surgery followed by hyperthermic intraperitoneal chemotherapy (HIPEC).
2. To learn about intraoperative staging and surgical scoring systems.
3. To understand criteria for selecting candidates for cytoreductive surgery and HIPEC.
4. To appreciate areas of special attention during intraoperative staging.

08:55
A-192 MDCT vs MRI: advantages and drawbacks
T. Helmberger; Munich/DE

Learning Objectives:
1. To learn about CT/MR imaging patterns of malignant peritoneal dissemination.
2. To become familiar with tailored CT/MR imaging protocols in the diagnosis and evaluation of disease extent.
3. To discuss strengths and weaknesses of CT and MR imaging diagnosis.
4. To understand difficulties and pitfalls in disease assessment and preoperative staging by MDCT or MRI.

09:25
A-193 What is the added value of PET/CT?
G. Antoch; Düsseldorf/DE

Learning Objectives:
1. To become familiar with PET imaging findings in the diagnosis and evaluation of disease extent in peritoneal carcinomatosis.
2. To understand limitations and pitfalls of PET/CT in malignant peritoneal dissemination at initial presentation and disease follow up.
3. To understand the role of PET/CT in selecting candidates for cytoreductive surgery or in avoiding unnecessary surgery.

Panel discussion:
Optimised imaging algorithms in peritoneal carcinomatosis

Interactive Teaching Session

E³ 820a Infections of the central nervous system: what the radiologist must report

08:30
A-194 A. ‘Dangerous’ viral and prion infections
G. Wilms; Leuven/BE

Learning Objectives:
1. To be familiar with the imaging pattern of most common viral and prion CNS infections.
2. To learn how to recognize and differentiate between the different viral and prion CNS infections.
3. To learn how to report detected viral and prion CNS infections.
4. To improve knowledge about follow-up and treatment monitoring of viral and prion infections.

09:15
A-195 B. Bacterial and parasitic infections
E. de Bree; Eindhoven/FR

Learning Objectives:
1. To learn how to report detected and recognised bacterial and parasitic CNS infections basically.
2. To learn how to assist clinicians with the diagnosis and differential diagnosis of bacterial and parasitic CNS infections.
3. To learn what to include in the report of CNS infections for treatment planning.
4. To learn how to report follow-up and treatment monitoring of CNS infections.
08:30 – 10:00 Room D1

Controversies in Abdominal Imaging

MC 824 Abdominal emergencies: US resists CT!
Moderator: M. Laniado; Dresden/DE
Teaser: P.R. Ros; Cleveland, OH/US

08:30
A-196 A. Why bother with CT when US answers so many questions?
J.B.C.M. Puylaert; The Hague/NL

08:55
A-197 B. Why lose time with US when CT gives you all you need to know?
D. Akata; Ankara/TR

09:20
A-198 Discussion
M. Laniado1, P.R. Ros2; 1 Dresden/DE, 2 Cleveland, OH/US

08:30 – 10:00 Room D2

Urogenital Imaging

CC 821 Renal and adrenal tumours
Moderator: G.M. Villeirs; Gent/BE

08:30
A-199 A. Imaging and staging of renal parenchymal tumours
U. Mueller-Lisse; Munich/DE
Learning Objectives:
1. To know the different imaging methods for the detection and staging of renal cell carcinoma.
2. To be able to explain the role of imaging in the detection and staging of renal cell carcinoma.
3. To learn about the implications of the staging classifications for renal cell carcinoma.

09:00
A-200 B. Tumours of the renal pelvis and ureter: the revolution of CT urography
F.W. Roemer; Augsburg/DE
Learning Objectives:
1. To be able to evaluate CT urography for diagnosis of upper urinary tract urothelial cancers (UTUC).
2. To understand how to optimise CT urography for diagnosis of UTUC.
3. To be able to provide solutions to problems with CT urography for diagnosis of UTUC.

09:30
A-201 C. Adrenal tumours
F.M. Danza; Rome/IT
Learning Objectives:
1. To understand the role of different radiological techniques used for demonstration and characterisation of adrenal tissue and masses.
2. To know the major problems encountered with radiological imaging in the differential diagnosis of adrenal nodules in oncologic and non-oncologic patients.
3. To know the appearance of primary benign and malignant tumours of adrenals, either originating from the medulla or from the adrenal cortex, using different radiological techniques.

08:30 – 10:00 Room E1

Musculoskeletal

RC 810 Bone marrow oedema and bone marrow oedema-like lesions

08:30
A-202 Chairman’s introduction
B. Vande Berg; Brussels/BE

08:35
A-203 A. BME and osteoarthritis
F.W. Roemer; Augsburg/DE
Learning Objectives:
1. To learn about the basic physiopathology of OA and its relation to BME.
2. To be informed about the distribution and natural history of BME in OA.
3. To understand the differential diagnosis and relevance of BME in staging OA and as a marker of prognosis.

08:58
A-204 B. BME and early inflammatory disease
A.J. Grainger; Leeds/UK
Learning Objectives:
1. To become familiar with the imaging pattern of seronegative and rheumatoid arthritis distribution.
2. To understand the relationship between BME and early diagnosis of inflammatory disease.
3. To understand whether BME helps in patient management, diagnosis and follow-up.

09:21
A-205 C. BME and trauma
S. Dzelzite, P. Likums; Riga/LV
Learning Objectives:
1. To learn about BME physiopathology in trauma scenarios: direct and indirect mechanism.
2. To recognise BME as a footprint that allows other soft tissue injuries to be ruled out.
3. To understand whether BME can be a valuable tool for follow-up.

Panel discussion:
Can we still use the term BME or should we be more specific?

08:30 – 10:00 Room E2

Foundation Course: More About Ultrasound

E³ 820b Volumetric imaging: where are we, where are we going to?
Moderator: P. Mildenberger; Mainz/DE

08:30
A-206 A. Volume imaging in obstetrics and gynaecology
F.M. Danza; Boston, MA/US
Learning Objectives:
1. To learn how to optimise your 3D scan to best evaluate the foetal malformations.
2. To learn the benefits of using 3D to evaluate the female pelvic organs.
3. To learn how to use volume scanning to dramatically reduce scan time and improve your scanning efficiency by rescanning stored volumes of complete foetal anatomy.
09:00
A-207 B. Volume US: a plus or a new approach to body imaging
S.T. Elliott; Newcastle upon Tyne/UK

Learning Objectives:
1. To understand the basic concept and principles of volume acquisition US.
2. To learn how developments in transducer technology might change scanning techniques.
3. To understand how volume US can improve accuracy and efficiency in a general imaging department.

09:30
A-208 C. Why volume imaging and fusion are important for diagnosis and treatment
E. Leen; London/UK

Learning Objectives:
1. To understand the features of volume imaging, fusion and navigation.
2. To develop the protocol to set up the systems.
3. To learn indications and benefits of volume imaging and fusion for diagnosis and treatment.

08:30 – 10:00 Room F1

GI Tract

RC 801 Rectal cancer imaging: the next phase

08:30
A-209 Chairman’s introduction
L.C.O. Blomqvist; Stockholm/SE

08:36
A-210 A. Local and distant staging
S. Schmidt, J.-Y. Meuwly, R. Meuli; Lausanne/CH

Learning Objectives:
1. To learn about optimised MR and CT techniques for rectal cancer staging.
2. To become familiar with the role of endorectal ultrasound in rectal cancer staging.
3. To understand basic TMN staging and assessment of the CRM on imaging.
4. To become familiar with new methods for whole body staging, notably PET/CT and whole body MRI.

09:01
A-211 B. Assessing tumour response
S. Gourtsoyianni; Athens/GR

Learning Objectives:
1. To learn the rationale for follow-up of patients after neoadjuvant chemoradiation.
2. To understand conventional imaging criteria for assessing tumour response.
3. To learn about new techniques for assessing response, including diffusion MRI and PET.

09:23
A-212 C. Changes in clinical treatment paradigms: the role of radiology
R.G.H. Beets-Tan; Maastricht/NL

Learning Objectives:
1. To become familiar with the prognostic signs in imaging that may refine treatment.
2. To understand the importance of local nodal staging in patient management and review techniques to improve staging accuracy (3 Tesla, diffusion-weighted MR, lymph node specific enhanced MRI).
3. To appreciate ‘wait and watch’ treatment paradigms after neoadjuvant chemoradiation and highlight the role of imaging.
4. To understand the current role of the radiologist in the context of multidisciplinary assessment and correct treatment triage.

09:45
Panel discussion:
What will clinicians really expect from us in 2012? How should we image our patients?

08:30 – 10:00 Room F2

Special Focus Session

SF 8b Cardiac imaging: from diagnosis to prognosis

08:30
A-213 Chairman’s introduction
M.R. Rees; Gwynedd/UK

Session Objectives:
1. To understand the importance of prognosis assessment in cardiovascular diseases.
2. To learn about the widely used and most recent prognostic factors.
3. To review the role of imaging for prognosis assessment.

08:58
A-215 Coronary CT angiography to predict future events
F. Cademartiri, E. Maffei; Monastier di Treviso/IT

Learning Objectives:
1. To understand the usefulness of coronary CTA in plaque characterisation.
2. To learn about evidence-based approach to using coronary CTA for prognosis assessment.
3. To learn about current clinical recommendations to use coronary CTA for prognosis assessment.

09:21
A-216 MRI predictors in coronary artery disease
J. Bogaert; Leuven/BE

Learning Objectives:
1. To know about prognostic factors evaluated with cardiac MRI.
2. To become familiar with the prognostic value of myocardial function, perfusion and viability.
3. To learn about current clinical recommendations to use cardiac MRI for prognosis assessment.

09:44
Panel discussion:
Cardiac CT and MRI vs traditional prognostic predictors: what is the evidence?
EFOMP Workshop

New technology in diagnostic radiology: frontiers in interventional radiological imaging

EF 1 Advances in technology for interventional radiology: general overview

Moderators: R. Padovani; Udine/IT, P. Sharp; Aberdeen/UK

08:30 Welcome address
L. Bonomo1, P. Sharp2; 1 Rome/IT, 2 Aberdeen/UK

08:40 Radiologist’s point of view: physician required for the new technology
J.A. Reekers; Amsterdam/NL

Learning Objectives:
1. To comprehend how new device technology is introduced.
2. To understand the limitations of CE marking.
3. To become familiar with the limitations of the current European system to introduce new medical devices and implants.

09:00 Rotational angiography and cone beam CT
M. Kachelrieß; Heidelberg/DE

Learning Objectives:
1. To become familiar with interventional CT.
2. To understand the differences between clinical CT and c-arm CT.
3. To comprehend cone-beam image reconstruction.

09:20 MR interventional techniques
J. De Wilde; Edinburgh/UK

Learning Objectives:
1. To become familiar with the wide range MRI Interventional techniques.
2. To understand the clinical applications.
3. To understand the considerations, including patient and staff safety and patient access, for using MRI as an interventional tool.

09:40 US interventional techniques
L. Solbiati; Busto Arsizio/IT

Learning Objectives:
1. To become familiar with the large variety of interventional (diagnostic and therapeutic) procedures that can be guided by sonography.
2. To learn the most updated ultrasound facilities for guiding interventional manoeuvres.
3. To understand advantages and limitations of ultrasound as image modality to guide interventional procedures.

Chest

RC 804 How I report
Moderator: M. Escobar; Barcelona/ES

08:30 A-222 A. Bedside chest radiography
E.E.J.G. Coche; Brussels/BE

Learning Objectives:
1. To learn about the technical requirements of portable chest units.
2. To understand key imaging findings in different clinical settings.
3. To learn from side-by-side comparison of radiological patterns at bedside chest radiography and CT.
4. To improve confidence by linking pattern recognition, interpretation and diagnosis.

09:00 A-223 B. CT angiography
J.E. Wildberger; Maastricht/NL

Learning Objectives:
1. To learn more about recent improvements in CT angiography.
2. To be informed about the current clinical applications of CT angiography and how to report them.
3. To become familiar with the role of CT angiography in comparison to MR angiography.

09:30 A-224 C. PET/CT
E.J.R. van Beek; Edinburgh/UK

Learning Objectives:
1. To review the basic principles of PET/CT using FDG.
2. To become familiar with the current role of PET/CT using FDG in oncology and how to report.
3. To learn about the future role of PET/CT in oncology compared to whole body MRI.

Vascular

RC 815 Vascular imaging in ischaemic stroke
Moderator: J. Barkhausen; Lübeck/DE

08:30 A-225 A. Extracranial and intracranial atherosclerotic disease of carotid arteries
C. Catalano; Rome/IT

Learning Objectives:
1. To learn imaging signs of atherosclerotic disease of carotid arteries.
2. To learn about lesion morphology at the carotid bifurcation and intracranial arteries.
3. To become familiar with appropriate imaging protocols for all imaging modalities and the pros and cons of each modality.

09:00 A-226 B. Vertebrobasilar atherosclerotic arterial disease
L. Valvassori; Milan/IT

Learning Objectives:
1. To learn the imaging signs of atherosclerotic disease of vertebral and basilar arteries.
2. To learn about the epidemiology, symptomatology and the natural history of the vertebrobasilar atherosclerotic disease.
3. To learn about classification of lesions and indication for treatment.
09:30
A-227  C. Dissection and vasculitis of intracranial and extracranial arteries
H.R. Jäger; London/UK
Learning Objectives:
1. To learn the imaging signs of dissection and different types of vasculitis.
2. To learn about lesion morphology and hemodynamic consequences of dissection and vasculitis.
3. To learn about imaging protocols for detection of dissection and vasculitis.

08:30 – 10:00  Room N/O
Interventional Radiology
RC 809  Percutaneous drainage for general radiologists
Moderator: J.L. del Cura; Bilbao/ES

08:30
A-228  A. Pleural drainage
A. Keeling; Dublin/IE
Learning Objectives:
1. To be familiar with the indications for drainage.
2. To learn about the technical aspects of catheter drainage.
3. To appreciate the efficacy of drainage and the appropriate follow up.

09:00
A-229  B. Abdominal abscess
T.G. Vrachliotis; Athens/GR
Learning Objectives:
1. To understand imaging strategies and indications for drainage.
2. To learn about image guidance, route planning and catheter placement.
3. To appreciate the efficacy of drainage and the appropriate follow up.

09:30
A-230  C. Nephrostomy
R.H. Portugaller1, K.A. Hausegger2; 1 Graz/AT, 2 Klagenfurt/AT
Learning Objectives:
1. To understand the current indications for nephrostomy.
2. To learn the various imaging modalities for guidance and basic techniques.
3. To appreciate the efficacy of the procedure and the appropriate follow-up.

08:30 – 10:00  Room P
Radiographers
RC 814  Challenges and solutions for radiographers in MRI: high field and imaging under patient motion
Moderators: L. Abernethy; Liverpool/UK, C. Malamateniou; London/UK

08:30
A-231  A. Advantages of high field MRI: a radiographer’s perspective
E. Vázquez; Barcelona/ES
Learning Objectives:
1. To be able to identify human anatomical areas where the use of high field MRI is advantageous compared to low field MRI.
2. To be able to identify human body and brain pathologies whose depiction is facilitated by high field MRI compared to low field MRI.
3. To understand the important role of the radiographer in making the most of advanced MRI technology.

09:00
A-232  B. Artefacts at high field MRI: clinical applications and technical solutions
S. Brandão; Porto/PT
Learning Objectives:
1. To be familiar with the artefacts of high field MRI in clinical applications (brain, body).
2. To be able to suggest technical solutions to compensate for these disadvantages.
3. To understand the important role of the radiographer in making the most of advanced MRI technology, even in challenging situations.

09:30
A-233  C. Reducing motion artefacts in foetal MRI: the contribution of the radiographer
C. Malamateniou; London/UK
Learning Objectives:
1. To understand the challenges and constraints of foetal MRI.
2. To recognise common motion artefacts associated with foetal MRI.
3. To be able to suggest remedial strategies to minimise motion artefacts in foetal MRI scans.

08:30 – 10:00  Room Q
Paediatric
RC 812  Imaging the paediatric spine
Moderator: E. Vázquez; Barcelona/ES

08:30
A-234  A. Congenital malformations and neonatal spinal imaging
I. Gassner; Innsbruck/AT
Learning Objectives:
1. To become familiar with the most common congenital malformations of the spine.
2. To learn about the role of sonography, CT and MRI in the investigation.
3. To understand when additional imaging of the brain is necessary.
09:00
A-235  B. Inflammation, infection and tumours: the role of imaging
M.I. Argyropoulou; Ioannina/GR

Learning Objectives:
1. To learn about the etiologies and the imaging findings of infectious, parainfectious and autoimmune disorders.
2. To appreciate the role of spinal MRI in the differential diagnosis of MS vs MS mimics.
3. To become familiar with the imaging findings of primary and metastatic tumours.
4. To learn about the indications of whole spine MRI in presence of brain tumours.

09:30
A-236  C. Imaging spinal trauma in childhood
M. Maas; Amsterdam/NL

Learning Objectives:
1. To understand how best to investigate a child with suspected spinal trauma.
2. To appreciate the imaging findings.
3. To consolidate knowledge about the differences between the paediatric and adult spinal trauma.

09:00 – 10:00 Room Z
The Beauty of Basic Knowledge: Interpretation of the Chest Radiograph
MC 27C  Major vessels

09:00
A-237  Major vessels
J. Cáceres; Barcelona/ES

Learning Objectives:
1. To learn to recognise aortic pathology in the plain film.
2. To be able to evaluate pulmonary artery pathology.
3. To review alterations of the thoracic veins.

10:30 – 12:00 Room B
ESR meets Egypt
EM 3  Oncologic imaging and paleoradiology in Egypt: the past, present and future

10:30
A-238  Introduction
M. Abdel Wahab; Cairo/EG

Session Objectives:
1. To give an overview of imaging of the more frequent cancers in Egypt, namely, breast, liver and urinary bladder.
2. To inform the audience about imaging of urinary diversion.
3. To describe the secrets of Royal Egyptian Mummies after MDCT.
4. To explain the Egyptian experience in management of HCC.
5. To present the outcome of national screening programme for breast cancer.

10:50
A-240  Interlude: Imaging of urinary diversion
S. Hanna; Cairo/EG

10:55
A-241  MDCT of Royal Egyptian Mummies: secrets unveiled
M.I. Argyropoulou; Ioannina/GR

Learning Objectives:
1. To learn about paleoradiology and its applications.
2. To learn about methods of mummy preservation.
3. To become familiar with normal CT of mummies.
4. To appreciate the important discoveries made about Royal Egyptian mummies after MDCT scanning.

11:10
A-242  Interlude: Ancient Egyptian medicine
S. Hanna; Cairo/EG

11:15
A-243  Interventional management of HCC: Egyptian experience
A. El-Dorry; Cairo/EG

Learning Objectives:
1. To learn about the different interventional methods used for management of HCC in Egypt.
2. To recognise the difference between the Egyptian and international protocols.
3. To compare Egyptian results with international results.

11:30
A-244  Interlude: Discover Egypt’s charm
S. Hanna; Cairo/EG

11:35
A-245  Egyptian women’s health outreach programme: yesterday, today and tomorrow
D. Salem; Cairo/EG

Learning Objectives:
1. To learn about the basic requirements for implementation of a screening programme for breast cancer in limited/medium resource countries using the maximum available resources.
2. To learn how to make use of the available resources to achieve international standards.
3. To identify the challenges and hear about solutions for them.

11:50
Panel discussion
Interactive Teaching Session

E³ 920a  Common radiological problems: incidental chest lesions

10:30  A-246  A. Solitary pulmonary nodule
E. Castañer; Sabadell/ES

Learning Objectives:
1. To learn how to detect and characterise a pulmonary nodule.
2. To learn how to apply adequate protocols according to the clinical situation.

11:15  A-247  B. Mediastinal mass
J. Vilar; Valencia/ES

Learning Objectives:
1. To learn how to detect and characterise a mediastinal mass.
2. To learn how to apply adequate protocols according to the clinical situation.

Foundation Course: More About Ultrasound

E³ 920b  Elastography and high frequency US
Moderator: A.V. Zubarev; Moscow/RU

10:30  A-248  A. Breast: when elastography adds to conventional US
G. Rizzatto; Gorizia/IT

Learning Objectives:
1. To understand the basics: pathology, physics and technologies.
2. To get a comparison of the reported clinical results.
3. To become familiar with guidelines for daily clinical practice.

11:00  A-249  B. US of the thyroid gland and the neck
S.M. Dudea; Cluj-Napoca/RO

Learning Objectives:
1. To learn about US anatomy and appearance of disease of the thyroid and parathyroid glands.
2. To become familiar with the ultrasonographic differential diagnosis of neck masses.
3. To appreciate the role of neck ultrasonography in the guidance of diagnostic/therapeutic procedures and to learn about new ultrasonographic diagnostic techniques.

11:30  A-250  C. US in musculoskeletal diseases
S. Bianchi; Geneva/CH

Learning Objectives:
1. To learn the fundamental practical rules of high frequency US examination of the joints, muscles, tendons and nerves.
2. To become familiar with the basic normal and pathologic US appearance of the musculoskeletal structures.
3. To appreciate the role of high-resolution US in the clinical workup of the main disorders of the musculoskeletal system.

EFOMP Workshop

New technology in diagnostic radiology: frontiers in interventional radiological imaging

EF 2  Advances in technology for interventional radiology: technology assessment
Moderators: A. Torrens; Milan/IT,
W.J.M. van der Putten; Galway/IE

10:30  A-251  Angiographic equipment performance assessment
A. Trianni; Udine/IT

Learning Objectives:
1. To review methods in use for angiographic equipment performance assessment.
2. To understand the critical issues of image evaluation.
3. To underline the importance of a clinical oriented.

10:50  A-252  Patient and staff radiation issues in angiography
E. Vaño; Madrid/ES

Learning Objectives:
1. To comprehend the complexity of the modern interventional x-ray systems, the many imaging protocols and the involved radiation doses.
2. To understand the need to include the radiation protection aspects as part of the quality assurance program.
3. To become familiar with patient and staff doses management in angiography.

11:10  A-253  Panel discussion with angiographic equipment manufacturers
L. Desponds; Buc/FR
B. Hoornaert; Eindhoven/NL
M. Lendl; Ottensoos/DE

11:55  Final discussion

Standards and Audit Session

The future of radiological reporting: by whom, where, and how will it be done?
Moderator: E.J. Adam; London/UK

10:30  A-254  Structured reporting: the benefits of uniformity of reporting world-wide
C. Kahn; Milwaukee, WI/US

Learning Objectives:
1. To define structured reporting and its role in radiology.
2. To become familiar with current efforts for structured reporting of imaging procedures.
3. To identify how report consistency will promote the quality of radiology services.

11:00  A-255  Teleradiology: more disadvantages than advantages
R. FitzGerald; Wolverhampton/UK

Learning Objectives:
1. To understand the risks to hospital radiology services and their staff from teleradiology companies securing reporting contracts.
2. To explore the possible long term occupational health and reporting accuracy implications in the ever more competitive commoditised radiology reporting market.
3. To discuss the potential implications for patients from current inadequate medical regulation of teleradiologists.
11:30

A-256 Teleradiology: more advantages than disadvantages
L. Donoso; Barcelona/ES

Learning Objectives:
1. To become familiar with different scenarios where teleradiology can be used.
2. To anticipate the changes telemedicine will bring to radiology departments.
3. To appreciate how creating collaborative networks can improve the efficiency of radiology procedures and improve radiologists’ work/life balance.

12:15 – 12:45 Room A

Plenary Session

HL 2 Antonio Chiesa Honorary Lecture
Presiding: L. Bonomo; Rome/IT

12:30

A-257 Small is beautiful! The voyage of head and neck imaging into the future
R. Maroldi; Brescia/IT

Learning Objectives:
1. To appreciate the appealing world of analyzing those small structures that are critical for great human functions.
2. To learn about the below-100 micron imaging techniques in temporal bone and facial lesions.
3. To learn about the micro-structural and neo-angiogenesis imaging of head and neck malignant neoplasms (DWI, IVIM, DCE-CT and DCE-MR).
4. To understand the impact on clinical decision-making made possible by current imaging ultimate technology advances like MR-PET.

12:30 – 13:30 Room Z

Molecular Imaging

MC 23C Imaging tumour biology and microenvironment
Moderator: A.E. Sundin; Stockholm/SE

12:30

A-258 A. Modulation of the tumour microenvironment to optimise the response to therapies
B. Gallez; Brussels/BE

Learning Objectives:
1. To become familiar with key factors of tumour haemodynamics determining treatment response.
2. To understand how molecular imaging is able to monitor changes in tumour microenvironment.
3. To learn how molecular imaging can help in individualising treatment and optimising treatment response.

12:50

A-259 B. Molecular imaging of angiogenic characteristics of tumours
A.R. Padhani; Northwood/UK

Learning Objectives:
1. To become familiar with the biological basis, methods of data acquisition and analysis techniques for perfusion MRI methods used clinically.
2. To learn about strategies to deal with respiratory motion, importance of arterial input function and heterogeneity.
3. To appreciate the clinical roles of perfusion imaging.

16:00 – 17:30 Room A

State of the Art Symposium

SA 11 Polytrauma in the golden hour: the key role of emergency radiologists in the ED when time makes the difference

16:00

A-261 Chairman’s introduction
M. Körner; Munich/DE

Session Objectives:
1. To understand the key role of emergency radiologists in the management of patients with polytrauma.
2. To become familiar with current state-of-the-art emergency radiology services and future trends.
3. To learn about state-of-the-art logistics and the interdisciplinary approach of modern polytrauma patient care.

16:05

A-262 Ultrasound: why, when, how and by whom?
P.-A. Poletti; Geneva/CH

Learning Objectives:
1. To learn about the current use of ultrasound (US) in providing optimal management in patients with polytrauma.
2. To learn about where, when and by whom US should be performed.
3. To become familiar with US and CEUS findings associated with blunt trauma.
4. To become familiar with the limitations and pitfalls of ultrasound in assessment of blunt traumatic injuries.

16:28

A-263 Whole body MDCT for trauma: protocols and findings
M. Körner; Munich/DE

Learning Objectives:
1. To learn about protocols for whole body trauma MDCT.
2. To appreciate typical findings and pitfalls in major trauma CT.
3. To become familiar with image quality and lower patient dose.

16:51

A-264 Interventional radiology as life-saving procedure
G. Carrafiello, F. Piacentino, F. Fontana, M. Mangini, A. Ierardi, C. Fugazzola; Varese/IT

Learning Objectives:
1. To learn about different embolisation techniques for different organs (proximal and distal embolisation).
2. To become familiar with different types of embolisation materials.
3. To become familiar with the use of endovascular procedures in the management of patients with polytrauma.
4. To understand which injuries are interventionaly accessible and when diagnostic radiologists should consult interventional radiology.

Panel discussion:
Is the emergency radiologist the ‘captain of the ship’ in the management of major trauma?
Interactive Teaching Session
E³ 1120  Malignant pancreatic tumours
16:00
A-265 A. Solid tumours
W. Schima; Vienna/AT
Learning Objectives:
1. To be able to differentiate tumours from other non-tumoural pathology.
2. To know how to choose the proper imaging technology.
3. To learn how to determine extension and resectability of the tumour.

A-266 B. Cystic tumours
G. Morana; Treviso/IT
Learning Objectives:
1. To know how to choose the proper imaging modality.
2. To be able to describe the criteria of malignancy and benignity.
3. To know how to follow up lesions.

CLICK (Clinical Lessons for Imaging Core Knowledge): Common Clinical Cases
CC 1118  Palpable abdominal mass
Moderator: C. Matos; Brussels/BE
16:00
A-267 A. Clinical considerations
D. Akata; Ankara/TR
Learning Objectives:
1. To learn more about the clinical conditions that cause abdominal space-occupying lesions.
2. To be informed about the clinician's way of thinking in the process of differential diagnosis.
3. To become familiar with the potential role of imaging in the establishment of the final diagnosis and planning of therapy.

A-268 B. Imaging techniques and typical findings
M. Prokop; Nijmegen/NL
Learning Objectives:
1. To learn about the available imaging modalities to be used for the evaluation of patients with a palpable abdominal mass.
2. To become familiar with the technical imaging considerations and the proper diagnostic algorithm.
3. To know more about the typical imaging findings.

A-269 C. Interactive case discussion
A.H. Freeman; Cambridge/UK.
Learning Objectives:
1. To review typical cases illustrating the role of imaging modalities in the differential diagnosis of palpable abdominal mass cases.
2. To get involved in the diagnostic process by the use of electronic voting pads.
3. To understand the conclusion that may be drawn on the basis of the discussed cases.

Emergencies in Neuroradiology
CC 1119  Subarachnoid haemorrhage (the worst headache ever)
Moderator: P.H. Nakstad; Oslo/N
16:00
A-270 A. Diagnosis of subarachnoid haemorrhage (SAH)
M. Söderman; Stockholm/SE
Learning Objectives:
1. To understand the clinical presentation and acute findings in SAH.
2. To be familiar with imaging strategies for detecting aneurysms: CT angiography? MR angiography? Catheter angiography?
3. To appreciate the different types of aneurysms.
4. To learn how to perform non-invasive screening for cerebral aneurysms.

A-271 B. Endovascular treatment of aneurysms
M.H.J. Voormolen, T. Van der Zijden, T. Menovsky, D. d'Archambeau, H. Fransen, P.M. Parizel; Edegem/BE
Learning Objectives:
1. To learn how to select patients for endovascular treatment.
2. To become familiar with currently available techniques (coils, stents, etc).
3. To learn about the limitations and complications of these techniques.

A-272 C. Imaging after aneurysm treatment
J.-P. Pruvo; Lille/FR
Learning Objectives:
1. To become familiar with the signs of vasospasm or re-bleeding in the subacute phase.
2. To learn what is the best technique for follow-up of these patients after treatment.
3. To understand the advantages and disadvantages of CT versus MR angiography after aneurysm treatment (endovascular coiling or surgical clipping).

Urogenital Imaging
CC 1121  Paediatric genito-urinary imaging
Moderator: F. Papadopoulos; Ioannina/GR
16:00
A-273 A. Normal findings and diseases of the male and female developing genital systems
M. Lobo; Lisbon/PT
Learning Objectives:
1. To understand normal anatomy and congenital anomalies of the male and female developing genital systems.
2. To be able to recognise the most common, and uncommon disorders.
3. To appreciate the most appropriate imaging techniques and to understand the clinical relevance of imaging.

A-274 B. Imaging urogenital tumours in children: what is different from imaging in adults?
M.B. Damasio; Genoa/IT
Learning Objectives:
1. To learn about the classification and epidemiology of malignant and benign tumours.
2. To learn about the available imaging modalities.
3. To become familiar with the technical imaging considerations, adequate diagnostic algorithm and typical imaging findings.
A-275 C. Hydronephrosis and urinary tract obstruction in neonates and infants
M. Riccabona; Graz/AT
Learning Objectives:
1. To understand the work-up of neonates and infants with prenatal diagnosis of hydronephrosis.
2. To become familiar with the differential diagnosis.
3. To be aware of the tasks and restrictions of imaging in childhood obstructive uropathy.

A-276 Chairman’s introduction
A.H. Karantanas; Iraklion/GR

A-277 A. Standard MR techniques
C. Faletti; Turin/IT
Learning Objectives:
1. To learn the techniques used in standard MR.
2. To learn about the strengths/weaknesses of standard MR along with diagnostic problems related to anatomical variation.

A-278 B. CT arthrography
C.W.A. Pfirrmann; Zurich/CH
Learning Objectives:
1. To learn the techniques used in CT arthrography.
2. To learn about the strengths/weaknesses of CT arthrography.

A-279 C. MR arthrography
J. Kramer; Linz/AT
Learning Objectives:
1. To learn the techniques used in MR arthrography.
2. To learn about the strengths/weaknesses of MR arthrography.

Panel discussion:
17:14 Which imaging technique in which clinical scenario?

A-280 Chairman’s introduction
T.H. Helbich; Vienna/AT
Session Objectives:
1. To highlight the importance of multidisciplinary breast centres.
2. To introduce the EU guidelines for breast centres.
3. To introduce the ‘key disciplines’ for a multidisciplinary breast centre.

A-281 From the radiologist’s perspective
T.H. Helbich; Vienna/AT
Learning Objectives:
1. To learn about the role of different imaging modalities to detect and characterise breast lesions precisely.
2. To understand the importance of needle biopsy in the management of women with breast cancer.
3. To understand the pathologic ‘b-classifications’ and its impact on patient management.
4. To understand the role of a multidisciplinary approach based on case presentation.

A-282 From the surgeon’s perspective
M. Gnant; Vienna/AT
Learning Objectives:
1. To learn about different surgical options in the treatment of breast cancer patients.
2. To understand the rationale behind current perioperative and adjuvant treatment approaches.
3. To consolidate knowledge about individualising treatment concepts according to the biology of breast cancer.

A-283 From the oncologist’s perspective
G. Steger; Vienna/AT
Learning Objectives:
1. To learn about the current adjuvant medical treatment options and modalities.
2. To understand the indications for the neo-adjuvant treatment approach and the appropriate modalities.
3. To understand the interactions of known predictive factors, current neoadjuvant/adjuvant treatment options, and prognosis within an interdisciplinary treatment concept.

A-284 Case presentation and discussion
T.H. Helbich; Vienna/AT

A-285 Chairman’s introduction
F. Caseiro-Alves; Coimbra/PT
Session Objectives:
1. To understand the role of imaging for HCC detection and screening.
2. To became familiar with the clinical guidelines for patient management.
3. To appreciate how biomarkers can assess tumour aggressiveness.
4. To learn how to evaluate tumour response and residual tumour.

A-286 Wash-in/wash-out: what do they represent?
L. Grazioli; Brescia/IT
Learning Objectives:
1. To learn about the angiogenetic process of HCC transformation.
2. To understand how wash-in/wash-out signs correlate with pathologic findings.
3. To learn how to set up imaging protocols to assess neoangiogenesis.

A-287 Equivocal nodules: how to interpret and clinical implications
V. Vilgrain; Clichy/FR
Learning Objectives:
1. To be aware of the differential diagnosis of focal liver lesions in the cirrhotic liver in a multimodality perspective.
2. To understand the role of new strategies such as DWI, perfusion CT/MR, etc.
3. To learn about the role of hepato-specific MR contrast agents.

A-288 HCC staging and patient stratification: what’s new?
C. Ayuso; Barcelona/ES
Learning Objectives:
1. To learn about current guidelines for patient management.
2. To become familiar with imaging findings related to staging.
3. To understand the role of new biomarkers for tumour grading.
Postgraduate Educational Programme

Saturday

16:57

A-289 Residual tumour and tumour recurrence: how to evaluate?
D.J. Breen; Southampton/UK

Learning Objectives:
1. To understand the concepts of residual and recurrent HCC.
2. To become familiar with interventional radiology options, indications and limits.
3. To learn about imaging criteria used for tumour response evaluation.
4. To be able to propose strategies for patient follow-up.

Panel discussion:

17:15

How far can we go with non-invasive imaging for diagnosis and staging of HCC?

16:00 – 17:30 Room F2

Professional Challenges Session

PC 11 An epidemic spreading from West to East: medico-legal challenges for radiologists

16:00

A-290 Chairman’s introduction
E. Breatnach; Dublin/IE

Session Objectives:
1. To learn appropriate responses following a clinical radiological mistake (miss, inadvertent outcome).
2. To learn potential medico-legal dangers and responsibilities specific to paediatric radiology practice.
3. To learn appropriate responses to medico-legal issues specific to emergency radiology practice.

16:05

A-291 The correct conduct when you have just made a mistake
L. Berlin; Skokie, IL/US

Learning Objectives:
1. To understand why facing the patient and complications is always better than hiding.
2. To learn the appropriate words, recognising facts, but not responsibility.
3. To understand the difference between ‘normal’ complications and malpractice.

16:25

A-292 Medico-legal issues within paediatric practice: the history, the challenges, and the future
C. Owens; London/UK

Learning Objectives:
1. To understand historical perspectives of the law in children’s health.
2. To visit current high profile areas of litigation within paediatric imaging.
3. To contemplate the future directions.

16:45

A-293 Case-based review of medico-legal aspects in emergency radiology
A. Oikonomou; Alexandroupolis/GR

Learning Objectives:
1. To evaluate the difficult balance between emergency, safety of diagnostic procedures and patient information.
2. To learn how to inform the patients’ relatives in case of unconscious or irresponsible patient.
3. To learn the criteria for cerebral death and the necessity of appropriate communication with the clinician before information is provided to the family.

Panel discussion:

17:05

Specific case scenarios illustrating medico-legal pitfalls in communication skills, paediatric and emergency radiology

16:00 – 17:30 Room G/H

Neuro

RC 1111 Neuro paediatrics: imaging of the paediatric brain
Moderator: N. Girard; Marseille/FR

16:00

A-294 A. Systemised approach to inherited white matter disease in children
A. Rossi; Genoa/IT

Learning Objectives:
1. To become familiar with the most common inherited white matter disease in children, and to understand the most relevant clinical and laboratory features that help differential diagnosis.
2. To learn the characteristic neuroimaging findings that may be useful in establishing differential diagnosis.
3. To be aware of the importance of advanced MR imaging techniques for differential diagnosis.
4. To recognise the importance of a systemised imaging approach to the differential diagnosis of inherited white matter disease in children.

16:30

A-295 B. Malformation of the posterior fossa
C. Hoffmann; Tel Hashomer/IL

Learning Objectives:
1. To become familiar with the most important aspects of embryological and foetal development that are essential for the understanding of the large spectrum of posterior fossa malformations.
2. To become familiar with the classification of posterior fossa malformations.
3. To learn the imaging features of the most common posterior fossa malformations in both pre and post-natal imaging.

16:00 – 17:30 Room I/K

Chest

RC 1104 Patterns in chest radiology: are there subtype patterns of ground glass opacity (GGO)?

16:00

A-297 Chairman’s introduction
A. Oikonomou; Alexandroupolis/GR

16:05

A-298 A. Ground glass opacification: why do we see it and what can it mean?
S.R. Desai; London/UK

Learning Objectives:
1. To review different physiological conditions which might cause a GGO pattern.
2. To be informed about the associations and reversibility of physiology-related GGO.

Panel discussion:

17:05

Specific case scenarios illustrating medico-legal pitfalls in communication skills, paediatric and emergency radiology
A-299 B. Inflammatory and infectious GGO
K. Marten-Eggele, Göttingen/DE

Learning Objectives:
1. To learn more about the inflammatory conditions that cause GGO.
2. To review the histopathological correlates of inflammatory and infectious GGO.
3. To attempt to differentiate GGO in autoimmune and infectious lung disease.

A-300 C. GGO in dysplasia and neoplasia
J. Goo, Seoul/KR

Learning Objectives:
1. To learn more about the dysplastic and neoplastic conditions causing GGO, e.g. semi-solid nodules.
2. To review the histopathological correlates of dysplastic and neoplastic GGO.
3. To attempt to estimate malignancy on the basis of GGO pattern.

Panel discussion:
How do we report and manage ground glass opacity?

16:00 – 17:30 Room L/M

Physics in Radiology
RC 1113 High field MRI: beyond 3T
Moderators: F. Schick, Tubingen/DE, S. Trattnig, Vienna/AT

16:00 A-301 A. Challenges of high field MR
M. Bock, Freiburg/DE

Learning Objectives:
1. To understand how increased field strength affects exposure and image quality characteristics.
2. To learn about the principles of controlling radio-frequency fields by multiple-channel transmission.
3. To become familiar with technology for specific absorption rate reduction.

16:30 A-302 B. A complicated solution to a complicated problem: transmit array
M.E. Ladd, Essen/DE

Learning Objectives:
1. To learn about the need to control radio-frequency fields, particularly at high B0.
2. To understand the technical developments that will help to overcome these barriers and allow wider clinical use of 7T.

Panel discussion:
What are the new possibilities in this classic topic?

16:00 – 17:30 Room N/O

Interventional Radiology
RC 1109 Biliary interventions

16:00 A-304 Chairman’s introduction
A.A. Hatzidakis, Iraklion/GR

16:05 A-305 A. Fistula and benign stenosis
P. Goffette, Brussels/BE

Learning Objectives:
1. To know about the etiology of fistulas and benign stenoses.
2. To be familiar with the various imaging modalities and findings in benign fistulas and stenoses.
3. To understand the techniques, results, and complications of interventional treatment.

16:28 A-306 B. Interventions after liver transplantation
P. Goffette, Brussels/BE

Learning Objectives:
1. To know about the appropriate imaging algorithm for the detection of biliary complications after liver transplantation.
2. To be familiar with the techniques of interventional treatment of biliary complications after liver transplantation.
3. To understand the results and complications in comparison with surgical management.

16:51 A-307 C. In tandem with endoscopy
S. Francis, Nottingham/UK

Learning Objectives:
1. To be aware of the indications for tandem use of percutaneous and endoscopic approaches.
2. To learn the tips and tricks of the tandem technique.
3. To learn about the results and complications of tandem treatment.

Panel discussion:
What are the new possibilities in this classic topic?

16:00 – 17:30 Room P

Radiographers
RC 1114 Radiographers’ impact on dose optimisation and radiation protection: the essential link in the chain
Moderators: A.B. Aslaksen, Bergen/NO, A. Henner, Duluth/US

16:00 A-308 A. Dose optimisation – what more is there to be done? The role of the radiographer
S. Mc Fadden, Newtownabbey/UK

Learning Objectives:
1. To understand the importance of dose optimisation as a part of the everyday work of the radiographer.
2. To consolidate knowledge in the area of dose and image quality optimisation.
3. To be informed about current and future opportunities in dose optimisation and image quality.

16:30 A-309 B. From screen-film to digital systems: how to implement an optimisation process
J. Santos, Coimbra/PT

Learning Objectives:
1. To understand the technical developments that will help to overcome these barriers and allow wider clinical use of 7T.
17:00

**A-310**  
The importance of education and training in the development of the role of the radiographer in quality assurance and radiation protection  
M.-L. Butler; Dublin/IE

**Learning Objectives:**
1. To understand the role of education in QA and radiation protection.
2. To be aware of the new perspectives in education for QA and radiation protection.

16:00 – 17:30  
**Room Z**

**EuroAIM Session**

 Evidence-based radiology: ongoing projects and perspectives  
**Moderators:** G.P. Preston, Rotterdam/NL  
F. Sardanelli, Milan/IT

16:00

**A-311**  
Evidence-based radiology 2001-2010: the authorship  
F. Sardanelli; Milan/IT

16:25

**A-312**  
State-of-the-art in medical imaging: a dynamic overview of current evidence via modern media  
M.G.M. Hunink; Rotterdam/NL

16:50

**A-313**  
Preoperative breast MRI: Multicenter International Prospective Analysis of individual woman data  
R.M. Trimboli; Milan/IT

17:15  
Discussion
GI Tract

RC 1201 CT colonography: three steps to success

08:30
A-314 Chairman’s introduction
S.A. Taylor; London/UK

08:35
A-315 A. Step 1: bowel prep and distension
A. Laghi; Latina/IT

Learning Objectives:
1. To become familiar with the options available for bowel preparation, including the use of tagging agents, and to learn three examples of a bowel preparation regimen that works.
2. To learn a step-by-step evidence-based approach to distending the colon (including spasmolytic agents, patient positioning, insufflation technique).
3. To appreciate optimum CTC acquisition parameters.
4. To become familiar with described complications (notably perforation) and how the risk may be minimised.

08:58
A-316 B. Step 2: analysis and how to avoid pitfalls
T. Mang; Vienna/AT

Learning Objectives:
1. To learn about a structured approach how to analyse CT colonography datasets, based on 2D and 3D imaging techniques.
2. To become familiar with common interpretative pitfalls and strategies to avoid them.
3. To emphasise on the role of CAD in CT colonography.
4. To learn how to create a structured CT colonography report.

09:21
A-317 C. Step 3: setting up your service
B. Schaeffer1, M. Kreis1, T. Mang2, A. Graser1; 1 Munich/DE, 2 Vienna/AT

Learning Objectives:
1. To appreciate the need for training prior to CTC and understand the role of training courses and double reporting.
2. To become familiar with ways of maximising service efficiency.
3. To appreciate the differences in approach between setting up a service for older symptomatic patients and setting up colorectal cancer screening.
4. To learn how to formulate local polyp reporting guidelines and how best to integrate the service with the needs of local clinicians.
5. To learn a basic audit framework.

Panel discussion:
What exactly do I need to do?

Interactive Teaching Session

E³ 1220 Common radiological problems: incidental abdominal masses

08:30
A-318 A. The incidental adrenal mass
R.H. Reznek; London/UK

Learning Objectives:
1. To appreciate the range of adrenal pathology that can present incidentally and recognise their imaging features.
2. To appreciate the need to characterise these lesions in the clinical context of the patient’s management.
3. To become familiar with CT and MRI for characterising an incidental adrenal mass.

Emergencies in Neuroradiology

CC 1219 Radiological management of traumatic emergencies
Moderator: D. Goldsher; Haifa/IL

08:30
A-323 A. Maxillofacial trauma
B.F. Schuknecht; Zurich/CH

Learning Objectives:
1. To learn what is the preferred imaging technique.
2. To learn how to report maxillofacial injury and fracture patterns (Le Fort fracture lines).
3. To become familiar with the different types of orbital fractures.
4. To learn how to manage foreign bodies or penetrating objects on imaging.
09:00

A-324 B. Cranio-cerebral trauma
P.M. Parizel, Antwerp/BE

Learning Objectives:
1. To become familiar with the different types of traumatic haemorrhage (epidural, subdural, intracerebral, subarachnoid).
2. To understand the difference between primary and secondary traumatic brain lesions.
3. To understand how the brain can be severely damaged in closed head injuries (deceleration trauma, diffuse axonal injuries).

09:30

A-325 C. Spine trauma
A. Cianfoni, Charleston, SC/US

Learning Objectives:
1. To learn how to image the patient with spine trauma.
2. To understand the role of plain radiographs in spine trauma patients.
3. To learn what is the role of MDCT in spine trauma.
4. To learn what is the role of MRI in spine trauma.

08:30 – 10:00 Room D2

Urogenital Imaging

CC 1221 The female pelvis
Moderator: V. Gazhonova, Moscow/RU

08:30

A-326 A. Diagnosis of endometriosis with imaging
K. Kinkel, Chêne-Bougeries/CH

Learning Objectives:
1. To appreciate the proposed mechanisms of pathogenesis of endometriosis and the relationship with the distribution of disease.
2. To be able to identify the most common imaging findings of endometriosis and to discuss the differential diagnosis.
3. To be familiar with the unusual manifestations and complications of the disease.

09:00

A-327 B. The acute female pelvis
E. Sala, Cambridge/UK

Learning Objectives:
1. To learn about the role of US as the primary imaging modality in the evaluation of the acute female pelvic.
2. To be able to recognise the added value of CT and MRI in the assessment of acute pelvic conditions in pregnant patients.

09:30

A-328 C. Imaging and image-guided therapy of uterine leiomyommas
T.J. Kloorf, Berlin/DE

Learning Objectives:
1. To understand the role of US and MRI prior to image-guided therapy of leiomyoma.
2. To learn typical and atypical MR imaging features of uterine leiomyommas.
3. To understand the basic principles of high-intensity focused US (HIFU) and uterine artery embolisation (UAE), indications and contraindications, advantages and disadvantages.
4. To learn about expected clinical and imaging outcomes after HIFU and UAE.

08:30 – 10:00 Room E1

Musculoskeletal

RC 1210 Sports injuries: US or MRI?

08:30

A-329 Chairman’s introduction
G.M. Allen, Oxford/UK

08:35

A-330 A. Muscle and US
C. Martinoli, Genoa/IT

Learning Objectives:
1. To understand the mechanism of injury of muscles in athletes.
2. To understand the role of US in the diagnosis of muscle injuries.
3. To recognise the imaging pattern of abnormalities in athletes.
4. To understand how US might be useful for diagnosis and follow-up in the management of sports injuries.

08:58

A-331 B. Tendon and US
A. Klauser, Innsbruck/AT

Learning Objectives:
1. To understand the mechanism of injury of tendons in athletes.
2. To understand the role of US in the diagnosis of tendon injuries.
3. To recognise imaging patterns of abnormalities in athletes.
4. To understand how US might be useful for diagnosis and follow-up in the management of tendon injuries.

09:21

A-332 C. Muscle and tendon by MRI
U. Aydingoz, Ankara/TR

Learning Objectives:
1. To understand the specific role of MRI in the evaluation of muscle and tendon injuries in athletes.
2. To recognise imaging patterns of tendon abnormalities in athletes: acute and over-use injuries.
3. To learn about the different mechanisms of muscle injuries: direct and indirect.
4. To understand how MRI might be used in the management of athletes.

Panel discussion:
What is the best imaging modality for diagnosing sports injuries?

09:44

08:30 – 10:00 Room E2

Oncologic Imaging

RC 1216 Lymph node imaging: where are we now?

08:30

A-333 Chairman’s introduction
R.G.H. Beets-Tan, Maastricht/NL

08:35

A-334 A. The current criteria for nodal involvement on CT/ MRI
W. Schima, Vienna/AT

Learning Objectives:
1. To be familiar with the current criteria.
2. To learn the imaging features that are highly specific to nodal disease.
3. To understand the diagnostic performance of cross-sectional imaging.
08:58  A-335  B. MRI techniques: what do they contribute?  
H.C. Thoeny; Berne/CH  
Learning Objectives:  
1. To understand the principles of DWI of nodes.  
2. To be able to recognise the imaging appearance of nodes on diffusion weighted MRI.  
3. To be introduced to the studies evaluating the diagnostic performance of diffusion weighted MRI.

09:21  A-336  C. Nuclear medicine: PET and other techniques  
W. Weber; Freiburg/DE  
Learning Objectives:  
1. To become familiar with which tumours are typically FDG-avid.  
2. To understand the factors that contribute to the diagnostic performance of FDG-PET.  
3. To be introduced to other nuclear medicine imaging techniques for lymph node imaging.

09:44  Panel discussion:  
When and how will imaging make diagnostic biopsy unnecessary?

08:30 – 10:00  Room F1  
Special Focus Session  
SF 12  Radiology on the road: working when you are away from home  
08:30  A-337  Chairman’s introduction  
L. Donoso; Barcelona/ES  
Session Objectives:  
1. To appreciate the implications of teleradiology in healthcare management.  
2. To become familiar with different scenarios where teleradiology is used.  
3. To understand the importance of proper workflow management.  
4. To learn about the e-health regulatory initiatives at the European level.

08:35  A-338  Teleradiology in 2012: growing or shrinking in importance  
E. P. Bensch; V.H. Hertogenbosch/NL  
Learning Objectives:  
1. To understand the current role of teleradiology in the diagnostic process.  
2. To review different teleradiology scenarios.  
3. To be aware of problems encountered with intensive use of teleradiology.  
4. To anticipate the changes due to telemedicine in radiology departments.

08:58  A-339  Use of PDAs and other hand held devices in radiology: beyond the head?  
O. Raff; Geneva/CH  
Learning Objectives:  
1. To become familiar with recent developments in mobile computing.  
2. To understand the technical aspects of secure data communication techniques.  
3. To be aware of the technical and workflow aspects.  
4. To review practical examples of new technical solutions.

09:21  A-340  Legal issues of teleradiology and portable reporting  
R. FitzGerald; Wolverhampton/UK  
Learning Objectives:  
1. To be updated on current European medical regulation of teleradiologists.  
2. To be prepared about changes in the next five years.  
3. To review legal precedents.  
4. To understand how to avoid litigation in teleradiology.

09:44  Panel discussion:  
How will we be viewing images in 20 years’ time?

08:30 – 10:00  Room F2  
Breast  
RC 1202  Breast interventions: from diagnosis to treatment  
Moderator: S.H. Heywang-Köbrunner; München/DE  
08:30  A-341  A. Practical tips for a successful needle biopsy procedure  
L.J. Pina Insausti; Pamplona/ES  
Learning Objectives:  
1. To consolidate knowledge of needle selection for successful biopsies.  
2. To understand the guidance technique for successful biopsies.  
3. To learn about possible solutions to increase accuracy in needle biopsies.

08:40  A-342  B. Underestimation of disease in needle biopsies  
S.C.E. Diepstraten, H.M. Verkooijen, M.A.A.J. van den Bosch; Utrecht/NL  
Learning Objectives:  
1. To realise the risk of a false negative result in needle biopsies.  
2. To understand the performance standards needed to minimise the risk of underestimation.  
3. To be aware of the importance of radiologic-pathologic correlation prior to definite diagnosis.

08:50  A-343  C. New developments: therapeutic interventional procedures  
G. Manenti; Rome/IT  
Learning Objectives:  
1. To learn about current therapeutic interventional procedures for malignant lesions.  
2. To learn about current therapeutic interventional procedures for benign lesions.  
3. To learn about the possible role of therapeutic interventions in the future.

08:30 – 10:00  Room G/H  
Genitourinary  
RC 1207  How I report  
Moderator: D. Negru; Iasi/RO  
08:30  A-344  A. Female pelvis MRI  
C. Del Frate; San Daniele del Friuli/IT  
Learning Objectives:  
1. To learn the tips for MR imaging optimisation for ultimate reporting.  
2. To learn what should be reported in uterine and cervical cancer staging.  
3. To learn what should be reported in adnexal masses.

08:40  A-345  B. Prostate MRI  
J.J. Fütterer; Nijmegen/NL  
Learning Objectives:  
1. To learn tips for MR imaging optimisation for ultimate reporting.  
2. To learn the most essential points and details to be reported in prostate cancer patients.  
3. To understand the major weaknesses of a prostate MR report.
09:30
A-346 C. CT urography
N. Cowan; Oxford/UK

**Learning Objectives:**
1. To learn how to optimise CT urography for ultimate reporting.
2. To learn how to perform and report CT urography in the clinical setting of possible urothelial cancer.
3. To learn how to perform and report CT urography in the clinical setting of haematuria.

08:30 – 10:00 Room I/K

**Chest**

RC 1204 When CT sees both the heart and the lungs

08:30  A-347 Chairman’s introduction
M. Rémy-Jardin; Lille/FR

08:35  A-348 A. Anatomic cardiac details that every radiologist should know
J. Bremerich; Basle/CH

**Learning Objectives:**
1. To learn more about cardiac anatomy and anomalies.
2. To review the clinical relevance of cardiac details: what has to be reported?
3. To become familiar with the interaction between anatomic details of heart and lung.

08:58  A-349 B. Incidental findings and their clinical relevance
J. D. Dodd; Dublin/IE

**Learning Objectives:**
1. To learn about incidental cardiac findings to be reported on a regular chest CT.
2. To review typical pulmonary findings in heart failure.
3. To review typical cardiopulmonary findings associated with smoking.

09:21  A-350 C. Pulmonary hypertension and right ventricle function
K.-F. Kreitner; Mainz/DE

**Learning Objectives:**
1. To learn about the different etiologies of pulmonary hypertension and their specific imaging findings.
2. To learn about a comprehensive concept for imaging and reporting pulmonary hypertension.
3. To become familiar with the dedicated evaluation of right heart function.

Panel discussion:
Ready for routine reporting of cardiovascular findings on CT scans of the chest?

09:30 – 10:00 Room I/M

**Physics in Radiology**

RC 1213 Diagnostic radiology and pregnancy

Moderators: H. Ringertz, Linköping/SE
W. J. M. van der Putten, Galway/IE

08:30  A-351 A. Conceptus doses and risks from maternal diagnostic x-ray examinations
J. Damilakis; Iraklion/GR

**Learning Objectives:**
1. To learn how to manage and counsel pregnant patients in case of (a) intentional and (b) accidental exposure.
2. To learn how to estimate conceptus radiation dose from diagnostic x-ray examinations.
3. To learn how to assess the radiogenic risks to the embryo/foetus from diagnostic x-ray examinations.

09:00  A-352 B. X-ray imaging and pregnancy: justification and optimisation of exposure
P. Vock; Berne/CH

**Learning Objectives:**
1. To become familiar with the radiologist’s practical approach to justification during pregnancy.
2. To learn how to optimise imaging protocols for x-ray examinations performed on pregnant patients.
3. To understand the role of imaging modalities in the evaluation of pregnant patients.

09:30  A-353 C. Pregnancy and MRI: risks to the unborn child
J. De Wilde; Edinburgh/UK

**Learning Objectives:**
1. To understand the risks to the foetus in MRI from static and time-varying magnetic fields, with particular reference to the radiofrequency field.
2. To be informed about the exposure of the foetus to noise during MRI.
3. To understand how to minimise the exposure of the foetus during MR imaging.

08:30 – 10:00 Room N/O

**Interventional Radiology**

RC 1209 Expanding the role of interventional radiology in hepatocellular carcinoma

08:30  A-354 Chairman’s introduction
G. Maleux; Leuven/BE

08:35  A-355 A. RF ablation
V. Válek; Brno/CZ

**Learning Objectives:**
1. To understand indications for RF ablation.
2. To learn about the technique and devices for RF ablation.
3. To learn about results, complications and follow-up strategies.

08:58  A-356 B. Intra-arterial procedures
F. Orsi; Milan/IT

**Learning Objectives:**
1. To be familiar with the indications for intra-arterial treatment of HCC.
2. To learn the techniques of intra-arterial treatment (TACE, DC beads TACE, radioembolisation).
3. To learn about results, complications and follow-up strategies.
Postgraduate Educational Programme

08:30 – 10:00 Room Q

Paediatric
RC 1212 Oncologic imaging: how to image, follow up and report
08:30
A-361 Chairman’s introduction
R.R. van Rijn; Amsterdam/NL

08:35
A-362 A. Renal and adrenal tumours in children
A.M.J.B. Smets; Amsterdam/NL

Learning Objectives:
1. To appreciate the role of US, CT, MRI and scintigraphy.
2. To become familiar with the imaging findings and the main differential diagnoses.
3. To learn about the imaging strategies for diagnosis and staging.

08:58
A-363 B. Paediatric liver malignancies
D. Roebuck; London/UK

Learning Objectives:
1. To understand the role of US, CT and MRI.
2. To become familiar with the imaging findings and the main differential diagnoses.
3. To learn about the imaging strategies for diagnosis and staging.

Panel discussion:
How far the radiologist can go in suggesting tumour recurrence or post treatment complications?

10:30 – 12:00 Room B

ESR meets Romania
EM 4 Oncology imaging: breast and liver
Presiding: L. Bonomo; Rome/IT, G. Iana; Bucharest/RO

10:30
A-365 Introduction: Romanian radiology today
G. Iana; Bucharest/RO

Session Objectives:
1. To underline the algorithm of diagnostic and interventional treatment in liver tumours.
2. To explain the types of interventional treatments (vascular and non-vascular) applied in liver malignant nodules.
3. To highlight the complexity of breast cancer diagnosis and imaging.

10:35
A-366 Hepatic nodules in cirrhosis
G. Iana; Bucharest/RO

Learning Objectives:
1. To understand the particularities of CT and MR imaging techniques in liver cirrhosis.
2. To consolidate knowledge of CT and MR imaging appearance of regenerative nodules, dysplastic nodules, and hepatocarcinoma in cirrhosis.
3. To become familiar with the differential diagnosis in liver cirrhotic focal lesions considering the various enhancement patterns.
4. To discuss the importance of clinical, biochemical information and follow-up of small nodules by the same imaging modality that may be helpful in differential diagnosis of these lesions.

10:55
A-367 Interlude: The beginning of Romanian radiology
M. Buruian; Targu-Mures/RO

11:00
A-368 Interventional treatment in liver malignancies
B. Popa, M. Popiel, L. Gulea; Bucharest/RO

Learning Objectives:
1. To learn about indications and limits of interventional treatment in hepatic nodules.
2. To evaluate the efficacy of different interventional methods in the liver.
3. To become familiar with the procedures used as endovascular treatment of liver tumours.
4. To know the main complications of interventional procedures in liver malignancies.

11:20
A-369 Interlude: Ten reasons to see Romania
D. Negru; Iasi/RO

11:25
A-370 Imaging and guided biopsy in breast malignancies
M. Lesaru; Bucharest/RO

Learning Objectives:
1. To appreciate the improvements in breast cancer diagnosis in Romania.
2. To discuss the experiences of major breast imaging centres in Romania concerning protocols, difficulties and practical approaches to achieving the European standards.

11:45 Panel discussion

10:30 – 12:00 Room C
CLICK (Clinical Lessons for Imaging Core Knowledge): Common Clinical Cases

CC 1318 Female pelvic pain
Moderator: V. Logager; Copenhagen/DK

10:30
A-371 A. Clinical considerations
G. Restaino; Campobasso/IT

Learning Objectives:
1. To learn more about the clinical conditions that cause pain in the female pelvis without an apparent origin.
2. To be informed about the clinician’s way of thinking in the process of differential diagnosis.
3. To become familiar with the potential role of imaging in the establishment of the final diagnosis and planning of therapy.

11:00
A-372 B. Imaging techniques and typical findings
B. Brkljacic; Zagreb/HR

Learning Objectives:
1. To learn about the available imaging modalities for the evaluation of female patients with pelvic pain.
2. To become familiar with the technical imaging considerations and the proper diagnostic algorithm.
3. To know more about the typical imaging findings.

11:30
A-373 C. Interactive case discussion
A. G. Rockall; London/UK

Learning Objectives:
1. To review typical cases illustrating the role of imaging modalities in the differential diagnosis of pelvic pain in female patients.
2. To get involved in the diagnostic process by the use of electronic voting pads.
3. To understand the conclusion that may be drawn on the basis of the discussed cases.

10:30 – 12:00 Room Studio 2012
ESR Undergraduate Working Group Session

Undergraduate teaching: the future of radiology
Moderator: D.E. Malone; Dublin/IE

10:30
A-375 Why teach undergraduates radiology?
S. J. Golding; Oxford/UK

Learning Objectives:
1. To understand the importance to radiological practice of undertaking teaching to undergraduates.
2. To understand the learning needs of newly qualified doctors as they relate to radiology.
3. To understand what aspects of a student’s learning are assisted by teaching from radiologists.
4. To understand the role of undergraduate teaching in supporting recruitment into radiology.

11:00
A-376 The European scene: lessons from the 2010 survey
K. Verstraete; Gent/Belgium

Learning Objectives:
1. To comprehend how undergraduate teaching is done in Europe.
2. To understand the heterogeneity of undergraduate teaching in Europe.
3. To understand how undergraduate teaching can be improved and students can be attracted for a radiological career.

11:30
A-377 What and how should we teach undergraduates?
S. Pedraza; Girona/Spain

Learning Objectives:
1. To comprehend the essential radiological knowledge and interpretational skills that undergraduates should achieve.
2. To understand the models of radiology curriculum during pregraduate medical education.
3. To become familiar with modern education methods.
4. To understand the clues of problem-based learning (PBL) applied to radiology.

11:00 – 12:00 Room Z
The Beauty of Basic Knowledge: Interpretation of the Chest Radiograph

MC 27D Pleura and chest wall

11:00
A-374 Pleura and chest wall
J. Cáceres; Barcelona/Spain

Learning Objectives:
1. To be able to recognise the typical and atypical appearance of pleural effusion.
2. To learn to recognise extrapleural disease.
3. To be able to identify pleural calcification and its probable causes.
Plenary Session

HL 3 Wilhelm Conrad Röntgen Honorary Lecture
Presiding: L. Bonomo, Rome/IT

12:15
A-378 In search of venous thromboembolism: the first 2,912 years
L.R. Goodman; Milwaukee, WI/US

Learning Objectives:
1. To become familiar with the evolution of our understanding of VTE – the truths, the half-truths, and the fallacies.
2. To understand our current imaging techniques and to optimise their use.
3. To comprehend the impact of imaging on the clinical understanding of VTE.
4. To highlight controversial issues and future directions.

12:30 – 13:30 Room Z

Molecular Imaging

MC 23D From inflammatory to fibrotic processes
Moderator: T.F. Massoud, Cambridge/UK

12:30
A-379 A. Imaging inflammation in organs and vessels
X. Montet; Geneva/CH

Learning Objectives:
1. To understand the benefit of a multimodal approach to imaging inflammation.
2. To learn about anti-inflammatory treatment efficacy by imaging.
3. To learn about the potential role of imaging inflammation in clinics.

12:50
A-380 B. Molecular imaging of extracellular matrix changes
M. Taupitz; Berlin/DE

Learning Objectives:
1. To learn about the components of the extracellular matrix, i.e. structural elements and enzymes.
2. To understand the role of extracellular matrix changes in diseased tissue.
3. To become familiar with some concepts of imaging extracellular matrix changes.

13:10
A-381 C. Structural and molecular imaging of fibrotic processes
B. Van Beers; Clichy/FR

Learning Objectives:
1. To understand the need for imaging biomarkers of liver fibrosis.
2. To be able to appreciate the comparative value and limitations of anatomical and functional methods to assess liver fibrosis.
3. To learn about the potential value of molecular imaging of fibrogenesis.

14:00 – 15:30 Room A

New Horizons Session

NH 14 New insight into vascular wall

14:00
A-382 Chairman’s introduction
M.F. Reiser; Munich/DE

Session Objectives:
1. To discuss new concepts of evolution of atherosclerotic plaques and mechanisms resulting in complications.
2. To give information concerning risk factors of atherosclerotic plaques in different vascular territories.
3. To understand the impact of imaging in primary and secondary prevention.

14:05
A-383 Molecular imaging of atherosclerosis: ready for prime time?
M. Schäfers; Münster/DE

Learning Objectives:
1. To learn about potential targets for molecular imaging of atherosclerosis.
2. To become acquainted with molecular imaging studies which have assessed atherosclerosis.
3. To understand the role of molecular imaging in current clinical practice and its potential role in the future.

14:28
A-384 Non-invasive imaging of the vulnerable atherosclerotic plaque
J.M. Balla, Cambridge/UK

Learning Objectives:
1. To understand the morphological components of plaque associated with risk of rupture.
2. To understand the concept of functional/cellular imaging in atherosclerosis.
3. To learn the role of macrophage-specific MR imaging in diagnosis and monitoring of atherosclerotic disease.
4. To get an outlook on future developments in assessing plaque risk using MR techniques.

14:51
A-385 Atherosclerosis: a reversible disease?
T. Saam; Munich/DE

Learning Objectives:
1. To become familiar with the imaging modalities that enable study of atherosclerosis progression and regression.
2. To consolidate knowledge of the natural history of the atherosclerotic disease process.
3. To understand factors that accelerate or decelerate plaque progression.
4. To learn how to answer the question ‘is atherosclerosis a reversible disease?’

Panel discussion:
Predictive values of imaging markers of atherosclerosis: where do we stand?

14:00 – 15:30 Room B

Interactive Teaching Session

E³ 1420 Lung cancer

14:00
A-386 A. Detection
S. Diederich; Düsseldorf/DE

Learning Objectives:
1. To know what imaging techniques are appropriate for detecting lung cancer.
2. To learn the most relevant imaging findings in lung cancer.
3. To understand the behaviour of lung cancer related to imaging.
14:45
A-387 B. Follow-up
F. Gleeson; Oxford/UK

Learning Objectives:
1. To know the common features of recurrence of lung cancer.
2. To learn how to establish follow-up protocols after treatment of lung cancer.

14:00 – 15:30 Room C

CLICK (Clinical Lessons for Imaging Core Knowledge): Common Clinical Cases

CC 1418 The vomiting infant and child
Moderator: M. Riccabona; Graz/AT

14:00 A-388 A. Clinical considerations
L.-S. Ording-Müller; Tromsø/NO

Learning Objectives:
1. To learn more about the difficulties in clinically defining a condition that causes vomiting in an infant or young child and to learn about different clinical scenarios.
2. To become familiar with important and common entities in childhood vomiting of unclear origin, and to be informed about potential underlying conditions that might be a reason for imaging.
3. To become familiar with the potential role of imaging in the establishment of the final diagnosis and planning of therapy in infants and children, particularly the different approaches to adult imaging.

14:30 A-389 B. Imaging techniques and typical findings
H.-J. Mentzel; Jena/DE

Learning Objectives:
1. To learn about useful and applicable imaging techniques, including their specific adaptations and the needs when applied in infants and children.
2. To become familiar with the respective imaging algorithms in applicable typical childhood scenarios.
3. To become familiar with the common imaging findings and their differential diagnoses and common pitfalls.

15:00 A-390 C. Interactive case discussion
R.R. van Rijn; Amsterdam/NL

Learning Objectives:
1. To review typical cases illustrating the role of imaging in infants and children.
2. To get involved in the diagnostic process by the use of electronic voting pads.
3. To understand the conclusion that may be drawn on the basis of the discussed cases.

14:00 – 15:30 Room D1

Emergencies in Neuroradiology

CC 1419 Oncologic emergencies in neuroradiology
Moderator: J. Walecki; Warsaw/PL

14:00 A-391 A. Acute paraparesis
M. Essig; Erlangen/DE

Learning Objectives:
1. To learn about the preferred examination technique in a patient with sudden onset on acute paraparesis.
2. To understand how and when to perform the examination.
3. To learn what are the signs of spinal cord compression on CT and MRI.

14:30 A-392 B. Iatrogenic emergencies in oncology patients: PRES and radiation necrosis
P.C. Maly Sundgren; Lund/SE

Learning Objectives:
1. To understand the pathophysiology and imaging findings of reversible posterior leukoencephalopathy syndrome (PRES).
2. To understand the pathophysiology and imaging findings of radiation necrosis.
3. To consolidate knowledge on how to differentiate tumour recurrence from radiation necrosis on CT, MRI and PET imaging studies.
4. To become familiar with the potential role of perfusion imaging.

15:00 A-393 C. Interventional techniques in oncologic patients
A. Gangi, X. Buy, G. Tsoumakidou, J. Garnon; Strasbourg/FR

Learning Objectives:
1. To learn what is the role of vertebroplasty in treatment of patients with metastatic spine fractures.
2. To learn if there is a role for tumour embolisation.

14:00 – 15:30 Room D2

Urogenital Imaging

CC 1421 Tumours of the female pelvis
Moderator: M.M. Otero-García; Vigo/ES

14:00 A-394 A. Imaging of the ovarian mass: is US enough?
J.A. Spencer; Leeds/UK

Learning Objectives:
1. To understand the strengths and limitations of US in assessment of an adnexal mass.
2. To be able to recognise the complementary roles of US, CT and MR in the imaging pathway.
3. To become familiar with the clinical goals of imaging of an ovarian mass.

14:30 A-395 B. Imaging and staging of endometrial tumours: putting guidelines into clinical practice
H. Hricak; New York, NY/US

Learning Objectives:
1. To learn how to adapt a standard MRI staging protocol to high imaging quality.
2. To be able to recognise the complementary roles of US, CT and MR in the imaging pathway.
3. To understand the impact of imaging results for treatment options.
4. To learn what should never be missing in the imaging report.

15:00 A-396 C. Imaging and staging of tumours of the uterine cervix: putting guidelines into clinical practice
B. Hamm; Berlin/DE

Learning Objectives:
1. To become familiar with the imaging strategies in cervical cancer.
2. To learn how to stage cervical cancer by MRI.
3. To learn how to avoid pitfalls in MR imaging of cervical cancer.
Musculoskeletal

RC 1410 Postoperative joint imaging
Moderator: G. Mantzikopoulos; Athens/GR

14:00 A-397 Shoulder
K. Wörtler; Munich/DE

Learning Objectives:
1. To understand the principles of basic surgical techniques.
2. To become familiar with technical aspects of different modalities for imaging post-surgical patients.
3. To recognise normal imaging findings after surgery and how to differentiate them from pathological ones.
4. To become familiar with the main complications after shoulder surgery.

14:30 A-398 Knee
K. Verstraete; Gent/BE

Learning Objectives:
1. To understand the principles of basic surgical techniques.
2. To become familiar with technical aspects of different modalities for imaging post-surgical patients.
3. To recognise normal imaging findings after surgery and how to differentiate them from pathological ones.
4. To become familiar with the main complications after knee surgery.

15:00 A-399 Ankle
C. Masciocchi; L’Aquila/IT

Learning Objectives:
1. To understand the principles of basic surgical techniques.
2. To become familiar with technical aspects of different modalities for imaging post-surgical patients.
3. To recognise normal imaging findings after surgery and how to differentiate them from pathological ones.
4. To become familiar with the main complications after ankle surgery.

Oncologic Imaging

RC 1416 Monitoring response: the essential guide for all radiologists

14:00 A-400 Chairman’s introduction
H. P. Schlemmer; Heidelberg/DE

14:05 A-401 RECIST made easy
A.G. Rockall; London/UK

Learning Objectives:
1. To learn the rules for recording measurable disease.
2. To learn the rules for recording non-measurable disease.
3. To be able to answer frequently asked questions.

Special Focus Session

SF 14 HIV/AIDS update 2012

14:00 A-404 Chairman’s introduction: Living with AIDS – numbers and facts
M. M. Thurnher; Vienna/AT

Session Objectives:
1. To review the current numbers and facts about HIV infection worldwide.
2. To highlight the evolution of HIV infection, novel findings in HIV pathogenesis, and the interactions of the virus with the immune system.
3. To emphasise new diagnostic imaging tools for diagnosing and monitoring the most common HIV-related diseases.

14:03 A-405 Clinical challenges in HIV and CART era
A. Rieger; Vienna/AT

Learning Objectives:
1. To learn about the developments within the global HIV epidemic.
2. To understand the complexities and controversies related to the natural history, diagnosis and management of HIV infection; antiretroviral therapy and immunotherapy.
3. To explain the synergy between basic and clinical sciences.

14:21 A-406 HIV and brain
M. M. Thurnher; Vienna/AT

Learning Objectives:
1. To review the most common CNS diseases in the HIV-positive population.
2. To learn how to use advanced imaging findings in distinguishing HIV-related brain disorders.
3. To consolidate knowledge on imaging-based therapy monitoring.

14:39 A-407 Understanding the role of immune activation and restoration in HIV infection
A. G. Osborn; Salt Lake City, UT/US

Learning Objectives:
1. To understand the pathophysiology of HIV infection of the brain.
2. To learn about the restoration of the immune function with antiretroviral therapies.
3. To become familiar with IRIS.
14:00 – 15:30 Room F2

**Breast**

**RC 1402** How I report

*Moderator: I. Leconte, Brussels/BE*

- **A-409** A. Mammography
  *F. Gilbert, Cambridge/UK*
  **Learning Objectives:**
  1. To be familiar with the basic parts of a structured report.
  2. To understand which information a clinician needs in a breast cancer patient’s report.
  3. To learn to compose a report for a patient with a BI-RADS 3 lesion.

- **A-410** B. Breast US
  *G. Rizzatto, Gorizia/IT*
  **Learning Objectives:**
  1. To be familiar with the ultrasound BI-RADS categories.
  2. To learn how to integrate clinical information and radiological findings.
  3. To know how to write a ultrasound report for a breast cancer patient.

15:00

- **A-411** C. Breast MRI
  *M. Fuchsjäger, Vienna/AT*
  **Learning Objectives:**
  1. To understand the role of MRI in the diagnosis of prostate cancer.
  2. To learn how to analyze and compare the most important MRI developments.
  3. To evaluate prostate after treatment for cancer, and evaluate the future clinical needs, namely in the evaluation of lymph nodes.

14:30

- **A-415** C. PTA and stenting of intracranial arteries
  *V. Pereira, K. Lovblad, Geneva/CH*
  **Learning Objectives:**
  1. To become familiar with the infrarenal applications of angioplasty and/or stenting in extracranial disorders.
  2. To understand the endovascular treatment strategies for extracranial vertebral artery atherosclerotic and nonatherosclerotic disease.
  3. To understand the endovascular treatment strategies for extracranial carotid artery atherosclerotic and nonatherosclerotic disease.
  4. To learn about the present and future challenges for PTA and stenting of extracranial arteries.

14:57

- **A-408** Changing spectrum of HIV-related diseases in the chest: 30 years later
  *T. Franquet, Barcelona/ES*
  **Learning Objectives:**
  1. To review pulmonary HIV-associated diseases.
  2. To learn about the morphological and kinetic information obtained and why this information should be thorough.
  3. To present future trends of MRI in prostate cancer, answering the future clinical needs, namely in the evaluation of lymph nodes.

15:15

- **A-412** A. Critical appraisal of the literature
  *J. Fiehler, Hamburg/DE*
  **Learning Objectives:**
  1. To learn how to integrate conventional (mammography and ultrasound) findings into a breast MRI report.
  2. To know how to write a complete report with all morphological and kinetic information obtained and why this information should be thorough.

14:00 – 15:30 Room I/K

**Genitourinary**

**RC 1407** MRI in prostate cancer

- **A-416** Chairman’s introduction
  *J. Venancio, Lisbon/PT*
  **Session Objectives:**
  1. To analyse and compare the most important MRI developments.
  2. To evaluate prostate after treatment for cancer, and evaluate the signal intensity changes to detect local recurrences.
  3. To present future trends of MRI in prostate cancer, answering the future clinical needs, namely in the evaluation of lymph nodes.

14:00

- **A-417** A. MRI in detection of prostate cancer
  *F. Cornud, Paris/FR*
  **Learning Objectives:**
  1. To understand the role of MRI in the diagnosis of prostate cancer.
  2. To understand the key MRI findings in prostate cancer.
  3. To learn about the role of MR spectroscopy in the diagnosis of prostate cancer.

14:28

- **A-418** B. MRI in post-treatment follow-up
  *A. Turgut, Ankara/TR*
  **Learning Objectives:**
  1. To understand the role of MRI in the follow-up of patients with prostate cancer after radical prostatectomy or radiotherapy.
  2. To learn about the MRI findings for local or distant metastasis in the post-treatment follow-up of prostate cancer.
  3. To learn about changes in signal intensity and the detectability of recurrent prostate cancer after radiotherapy.
A-419  C. New frontiers in imaging of the prostate
J.O. Barentsz; Nijmegen/NL

Learning Objectives:
1. To become familiar with new developments in MRI of prostate cancer.
2. To understand the future clinical needs, and how MRI can solve them.

Panel discussion:
What is the most appropriate radiological approach in patients with rising PSA levels and when should it be taken?

A-420  A. Clinical SPECT/CT and PET/CT
T. Beyer; Zurich/CH

Learning Objectives:
1. To understand the origins and evolution of SPECT/CT and PET/CT.
2. To understand the basic principles and general clinical applications.

A-421  B. Clinical PET/MRI
G. Antoch; Düsseldorf/DE

Learning Objectives:
1. To become acquainted with the origins and evolution of PET/MRI.
2. To be informed about the current applications.

A-422  C. Pre-clinical hybrid imaging
N. Belcari; Pisa/IT

Learning Objectives:
1. To learn about hybrid imaging tools in animal imaging/pre-clinical research.
2. To understand possible clinical applications.

A-423  A. Sinonasal CT scans
M. Becker; Geneva/CH

Learning Objectives:
1. To learn how to perform a state-of-the art CT examination of the sinuses.
2. To learn how to inject a contrast agent on CT or suggest an additional MRI exam.
3. To learn how to report on CT examinations of the sinuses.

A-424  B. Temporal bone CT and MRI scans
M.M. Lemonnier; Gent/BE

Learning Objectives:
1. To learn how to perform a state-of-the art CT examination of the temporal bone.
2. To learn how to perform a state-of-the art MR examination of the temporal bone.
3. To learn how to make a complete temporal bone report on CT and MRI.

A-425  C. CT scans of the head and neck
A. Trojanowska; Lublin/PL

Learning Objectives:
1. To learn how to scan a neck on CT: technique, contrast administration and timing.
2. To learn how to do structured reporting: „did I see it all“?
3. To learn to report abnormal lymph nodes in a structured manner.

A-426  A. Forensic imaging: another important growing field
P. Vock; Berne/CH

Learning Objectives:
1. To be informed about the history of the field of forensic imaging.
2. To understand developments in the field of forensic imaging.
3. To be informed about the impact of these developments on the work of radiologists.

A-427  B. The role of radiographers in forensic imaging
J. McNulty; Dublin/IE

Learning Objectives:
1. To understand the potential role of radiographers in forensic imaging.
2. To be aware of potential barriers and key steps in the implementation of a local forensic imaging service.
3. To become familiar with good and bad examples of a radiography-based forensic imaging service.
4. To be aware of local opportunities to develop forensic imaging services and professional development.

A-428  C. The importance of standards in education and training in forensic imaging
E. Faircloth; Devon/UK

Learning Objectives:
1. To understand the potential impact of a lack of standards in forensic imaging on forensic investigations.
2. To be informed about the role of education and training in key areas of forensic imaging practice.
3. To become familiar with examples of international best practice in forensic imaging education and training.

A-429  A. Imaging of sports injuries
M. Alston; Sèvres, Paris/FR

Learning Objectives:
1. To learn about the most common sports injuries in children.
2. To learn about the imaging protocols and algorithms.
3. To become familiar with the imaging findings in common and relevant conditions.
A-430 B. Hip dysplasia: US techniques and recommendations
K. Rosendahl; Bergen/NO
Learning Objectives:
1. To learn about the different approaches of hip sonography in neonates.
2. To understand the need for a systematic study.
3. To learn about proposed standardisation for examination and reporting.

15:00
A-431 C. Imaging of juvenile idiopathic arthritis
M. Valle, C. Martinoi, Genova/IT
Learning Objectives:
1. To learn about imaging protocols.
2. To learn about imaging findings, mimics and pitfalls.
3. To understand the importance of early imaging of clinically 'silent areas' e.g. hip and TMJ.

14:00 – 15:30 Room Z
ENCITE Session
Imaging highlights: monitoring disease and therapy
Moderator: S. Aime; Turin/IT
14:00
A-432 Get trained on imaging cell therapies with probes and procedures developed by ENCITE
S. Aime; Turin/IT
14:15
A-433 Cell tracking with 19F magnetic resonance imaging
P. Böhm-Sturm; Cologne/DE
14:30
A-434 Imaging of novel therapies in Gliblastomas using multiple biomarkers
W. Reichardt; Freiburg/DE
14:45
A-435 Integrated image analysis of multi-modal pre-clinical imaging studies
B. Lelieveldt; Leiden/NL
15:00
A-436 In vivo imaging of immune responses in cancer patients
C. Figdor; Nijmegen/NL
15:15 Discussion

16:00 – 17:30 Room B
Interactive Teaching Session
E³ 1520 Female pelvic infections: what the radiologist must report
16:00
A-440 Female pelvic infections: what the radiologist must report
J.A. Spencer, R. Forstner; Leeds/UK, Salzburg/AT
Learning Objectives:
1. To become familiar with the clinical spectrum of infection and inflammation of the female genital tract.
2. To understand their pathways of spread.
3. To recognise typical imaging findings of pelvic inflammatory disease and pelvic abscesses and the role of image-guided intervention.
4. To consider the appearances of unusual infections and the differential diagnosis of female pelvic infections.

16:00 – 17:30 Room C
CLICK (Clinical Lessons for Imaging Core Knowledge): Common Clinical Cases
CC 1518 Fever of unknown origin
Moderator: C. J. Herold; Vienna/AT
16:00
A-441 A. Clinical considerations
C. Heussel; Heidelberg/DE
Learning Objectives:
1. To learn more about the clinical conditions that cause fever without an apparent origin.
2. To be informed about the clinician's way of thinking in the process of differential diagnosis.
3. To become familiar with the potential role of imaging in the establishment of the final diagnosis and planning of therapy.

16:30
A-442 B. Imaging techniques and typical findings
G.R. Ferretti; Grenoble/FR
Learning Objectives:
1. To learn about the available imaging modalities to be used for the evaluation of patients with fever of unknown origin.
2. To become familiar with the technical imaging considerations and the proper diagnostic algorithm.
3. To know more about the typical imaging findings.
### Emergencies in Neuroradiology

**CC 1519 Acute central nervous system infections**  
**Moderator:** V. Dousset, Bordeaux/FR

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<th>Title</th>
<th>Presenter</th>
<th>Location</th>
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<tbody>
<tr>
<td>16:00</td>
<td>D1</td>
<td>A. Acute infections of the brain</td>
<td>S. Karampekios</td>
<td>Iraklion/GR</td>
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<tr>
<td>16:30</td>
<td>D2</td>
<td>B. Acute infections of the spine and spinal cord</td>
<td>M. Thurnher</td>
<td>Vienna/AT</td>
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<tr>
<td>17:00</td>
<td>D2</td>
<td>C. Acute disseminating encephalomyelitis</td>
<td>F. Barkhof</td>
<td>Amsterdam/NL</td>
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### Urological Imaging

**CC 1521 The patient with renal impairment**  
**Moderator:** P. Aspelin, Stockholm/SE

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<th>Presenter</th>
<th>Location</th>
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<tbody>
<tr>
<td>16:00</td>
<td>D2</td>
<td>A. Iodine and Gd-based contrast media in patients with renal impairment: a tale of two evils</td>
<td>S.H. Mirck</td>
<td>Sheffield/UK</td>
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### Emergency Radiology

**RC 1517 Polytrauma: redefining imaging issues for management priorities**  
**Moderator:** P.-A. Poletti, Geneva/CH

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<tr>
<td>16:00</td>
<td>E1</td>
<td>A. Vascular trauma</td>
<td>G. Schueller</td>
<td>Vienna/AT</td>
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<tr>
<td>16:30</td>
<td>E1</td>
<td>B. Chest and abdomen</td>
<td>M. Scaglione</td>
<td>Castel Volturno/IT</td>
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<tr>
<td>17:00</td>
<td>E1</td>
<td>C. Extremities</td>
<td>U. Linsenmaier</td>
<td>Munich/DE</td>
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**Learning Objectives:**

- To become familiar with the role of imaging modalities in the differential diagnosis of patients with fever of unknown origin.
- To get involved in the diagnostic process by the use of electronic voting pads.
- To understand the conclusion that may be drawn on the basis of the discussed cases.
16:00 – 17:30 Room E2

**State of the Art Symposium**

**SA 15 Imaging hip joint replacement**

16:00

A-454 Chairman’s introduction

V.V. Cassar-Pullicino; Oswestry/UK

**Session Objectives:**
1. To learn about the current state-of-the-art prostheses.
2. To be familiar with the common problems of hip replacement.
3. To define the strengths and weaknesses of the imaging modalities in assessing hip replacement.

16:05

A-455 Radiography and ultrasound: how far can you go?

S. James; Birmingham/UK

**Learning Objectives:**
1. To become familiar with the radiographic appearances of different types of prosthesis design.
2. To recognise the normal radiographic appearances following hip joint replacement.
3. To learn about the common abnormal radiographic findings following hip replacement.
4. To understand the role of ultrasound in assessing the post-operative hip.

16:28

A-456 CT: when should you do it and how?

A. Blum, S. Lecocq, M. Louis, J. Wassel, B. Osemont, G. Lux, P. Teixeira; Nancy/FR

**Learning Objectives:**
1. To learn the best parameters to optimise a CT-scan of a hip prosthesis.
2. To be familiar with the diagnostic criteria of femoro-acetabular impingement.
3. To learn about the new technical refinements of CT-scans of hip joint replacements.

16:51

A-457 MRI: can it replace the above?

S.J. Eustace; Dublin/IE

**Learning Objectives:**
1. To become familiar with metal artefact reduction techniques at MRI (MARS).
2. To review safety aspects of MR imaging of prostheses.
3. To review specific diagnoses afforded by MRI in the assessment of prostheses.

Panel discussion: Can we define an algorithm for assessment of the painful hip replacement?

16:00 – 17:30 Room F1

**Organs from A to Z: Lung**

**MC 1522 Causation-based imaging review of lung disease**

Moderator: C. Munier-Mang; Vienna/AT

16:00

A-458 A. Bacterial and viral pulmonary infections

T. Franquet; Barcelona/ES

**Learning Objectives:**
1. To be able to recognise typical and atypical imaging manifestations of common bacterial lung infections, including mycobacteria.
2. To be able to recognise typical and atypical imaging manifestations of common viral lung infections.
3. To learn about the changing patterns of pulmonary infections and emergent pathogens, and their importance for the radiologist.

16:25

A-459 B. Non-infectious inflammatory lung disease

A.A. Banker; Boston, MA/US

**Learning Objectives:**
1. To learn about the imaging findings in pulmonary fibrosis.
2. To be able to recognise the imaging findings in pulmonary sarcoidosis.
3. To learn about the imaging findings in pulmonary vasculitis.

16:50

A-460 C. Neoplastic lung disease

H.U. Kauczor; Heidelberg/DE

**Learning Objectives:**
1. To be able to stage lung neoplasms with imaging.
2. To understand the integrative role of CT, MRI, and PET in imaging and staging pulmonary neoplasms.
3. To gain practical information about lung cancer screening and pulmonary nodule follow-up according to the most recent guidelines and recommendations.

17:15 Discussion

16:00 – 17:30 Room F2

**Breast**

**RC 1502 Evaluation of the treated breast and follow-up**

16:00

A-461 Chairman’s introduction

M. Sentís; Sabadell/ES

16:05

A-462 A. Evaluation of residual disease after excisional biopsy

K.A. Frei; Hinterkappelen/CH

**Learning Objectives:**
1. To be familiar with the indications for imaging after excisional biopsy.
2. To understand the clinical needs of imaging findings in the treated breast.
3. To understand the indications of MRI in detection of residual disease.

16:28

A-463 B. Evaluation of response to neoadjuvant chemotherapy

L. Martinicci; Candiolo/IT

**Learning Objectives:**
1. To understand the principal mechanisms of tumour vascularisation and microstructure.
2. To understand the changes in tumour vascularisation and microstructure due to neoadjuvant chemotherapy.
3. To understand the accuracy and limitations of response monitoring with breast MRI.

16:51

A-464 C. Surveillance for and detection of recurrent disease after therapy

I. Schreer; Kiel/DE

**Learning Objectives:**
1. To understand the risk of recurrent disease and a second primary following the treatment of breast cancer.
2. To be familiar with the literature on surveillance mammography and other imaging methods for detection.
3. To appreciate the range of recommendations for surveillance mammography and clinical follow up.

Panel discussion: The new challenge in breast cancer: evaluation of response
Neuro

RC 1511 Advanced techniques: diffusion tensor imaging (DTI) in clinical practice
Moderator: P.C. Maly Sundgren, Lund/SE

16:00
A-465 A. DTI technique, sequences, software and post processing
W. Van Hecke; Antwerp/BE

Learning Objectives:
1. To become familiar with the physical principles and different information provided by the DTI technique/sequence.
2. To learn about the most common techniques for quantitative assessment of DTI parameters and fibre tractography data.
3. To understand the most crucial aspects of DTI post-processing.
4. To recognise some of the most important pitfalls in DTI post-processing.

16:30
A-466 B. DTI in brain tumours
M. Essig; Erlangen/DE

Learning Objectives:
1. To become familiar with the spectrum of qualitative and quantitative information provided by DTI for the evaluation of brain tumours.
2. To gain knowledge of the importance of DTI/tractography in the pretreatment assessment of brain tumours.
3. To learn the usefulness of DTI in the characterisation of tumours, peritumoral white matter tracks and in the differential diagnosis of brain tumours.

17:00
A-467 C. DTI in paediatric diseases
P.E. Grant; Boston, MA/US

Learning Objectives:
1. To recognise the specificities of DTI in the paediatric brain.
2. To gain knowledge of the importance of DTI in the assessment of brain maturation and white matter diseases.
3. To learn the DTI value in the evaluation of brain destructive lesions.

16:00 – 17:30 Room I/K

Cardiac

RC 1503 MRI and CT before cardiac interventions or surgery

16:00
A-468 Chairman’s introduction
G.P. Krestin; Rotterdam/NL

16:05
A-469 A. Can CT predict the outcome of percutaneous intervention?
C. Loewe; Vienna/AUT

Learning Objectives:
1. To understand the role of CT coronary angiography in the assessment of patients prior to percutaneous intervention.
2. To appreciate the role of myocardial imaging in patients prior to cardiac interventions.
3. To understand how to integrate coronary CT in the assessment of patients selected for cardiac interventions.

16:28
A-470 B. Can MRI predict the outcome of coronary revascularisation?
M. Francone; Rome/IT

Learning Objectives:
1. To appreciate the diagnostic value of MRI in CAD.
2. To understand the important prognostic factors that MR is able to provide.
3. To learn about the advantages of performing cardiac MR prior to coronary revascularisation.

16:51
A-471 C. The value of CT before percutaneous aortic valve replacement
R. Salgado; Antwerp/BE

Learning Objectives:
1. To understand how to optimise the imaging protocol for aortic valve imaging.
2. To learn how to report the findings and what to include in the report.
3. To understand the impact of this approach on patient management.

Panel discussion:

Improve your interaction with your colleagues

16:00 – 17:30 Room L/M

Physics in Radiology

RC 1513 Novel developments in CT and impact on dose
Moderators: M. Kachelrieß, Heidelberg/DE, J. Vlahos, London/UK

16:00
A-472 A. Patient dose assessment in CT
P.C. Shrimpton; Didcot/UK

Learning Objectives:
1. To be familiar with technical dose parameters in CT.
2. To understand how to assess patient dose.
3. To be informed about the role of diagnostic reference levels in CT.

16:30
A-473 B. New frontiers in CT: functional and spectral imaging
N. Pelc; Stanford, CA/US

Learning Objectives:
1. To learn about new developments in functional and spectral CT imaging.
2. To be able to assess their impact on patient dose.

17:00
A-474 C. New image reconstruction techniques
J. Nuyts; Leuven/BE

Learning Objectives:
1. To understand the impact of iterative reconstruction techniques in CT.
2. To learn about novel algorithms.
3. To be able to assess their impact on patient dose.
**Head and Neck**

**RC 1508** Post-treatment head and neck management: the diagnostic dilemma

**16:00**

**A-475** Chairman’s introduction

R. Maroldi; Brescia/IT

**16:05**

**A-476** A. Expected changes after treatment

A.S. McQueen; Newcastle upon Tyne/UK

**Learning Objectives:**
1. To learn about the current treatment options in head and neck cancer.
2. To understand the expected tissue changes after radiotherapy.
3. To appreciate the expected imaging findings after surgery.

**16:28**

**A-477** B. Surveillance imaging, tumour recurrence and treatment complications

F.A. Pameijer; Utrecht/NL

**Learning Objectives:**
1. To become familiar with the ideal time for follow-up.
2. To become familiar with the patterns and appearance of tumour recurrence.
3. To understand treatment complications and to differentiate them from tumour recurrence.

**16:51**

**A-478** C. Predicting outcome of radiation therapy in head and neck cancer: clinical reality?

V. Vandecaveye; Leuven/BE

**Learning Objectives:**
1. To become familiar with the prognostic significance of MR imaging-determined tumour parameters.
2. To become familiar with the prognostic significance of CT imaging-determined tumour parameters.
3. To learn what is evidence-based, including future perspectives.

**Panel discussion:**

Recurrence, inflammation, necrosis or scar: is imaging useful?

**16:00 – 17:30 Room P**

**Radiographers**

**RC 1514** Breast screening programmes: roles and issues for radiographers

**Moderators:** G. Forró; Budapest/HU, K. Haller; Wiener Neustadt/AT

**16:00**

**A-479** A. Establishing competencies of radiographers in national screening programmes

J. Hammond; Dublin/IE

**Learning Objectives:**
1. To become familiar with the concept of a breast screening programme.
2. To understand the role of the radiographer within a breast screening programme.
3. To learn about the competencies of radiographers in a breast screening programme and how these might be established.

**16:30**

**A-480** B. Quality control and quality assurance of breast screening programmes from the radiographers viewpoint

A. Kostiov; Ljubljana/SI

**Learning Objectives:**
1. To understand the importance of QC and QA of breast screening programmes.
2. To learn how to calculate and apply the MGD/AGD (mean glandular dose/average glandular dose) in practice.
3. To be aware of the effect breast positioning has on QA of breast screening programmes.
4. To become familiar with the role of radiographers in QA and QC of breast screening programmes.

**17:00**

**A-481** C. The radiographer’s role in optimisation of dose and image quality in mammography

D. O’Leary; Dublin/IE

**Learning Objectives:**
1. To become familiar with dose and image quality in mammography.
2. To understand the benefits of identifying and addressing dose and image quality issues in mammography.
3. To learn how to optimise dose and image quality in mammography.

**16:00 – 17:30 Room Q**

**Paediatric**

**RC 1512** Abdominal emergencies in children

**Moderator:** F.E. Avni; Brussels/BE

**16:00**

**A-482** A. Non-traumatic abdominal emergencies in childhood

P. Tomà; Rome/IT

**Learning Objectives:**
1. To understand the role of sonography in acute digestive disease.
2. To become familiar with the specific imaging findings of intussusception and appendicitis.
3. To learn about the acute pathology of the liver, biliary tract and pancreas.

**16:30**

**A-483** B. GU emergencies in children: kidney, ovary, testis

M. Riccabona; Graz/AT

**Learning Objectives:**
1. To learn about the diagnostic imaging approach in acute urinary tract disease.
2. To become familiar with the sonographic aspects of ovarian emergencies.
3. To understand the role of sonography in acute scrotum diseases.

**17:00**

**A-484** C. Abdominal trauma in children

M.P. García-Peña; Barcelona/ES

**Learning Objectives:**
1. To learn about traumatic lesions of the abdomen in children.
2. To learn the diagnostic strategy for abdominal trauma.
3. To appreciate the improvement of diagnosis with new technology.
08:30 – 10:00 Room A

**Special Focus Session**

**SF 16a** The role of advanced imaging in musculoskeletal neoplasms

**08:30**

A-485 Chairman’s introduction
  J.C. Vilanova; Girona/ES

**Session Objectives:**
1. To learn about advanced imaging applied to skeletal tumours.
2. To learn about the role of different imaging techniques in managing musculoskeletal neoplasms.
3. To be familiar with the application and benefits of each modality.

**08:35**

A-486 Advanced MR techniques
  J.L. Bloem; Leiden/NL

**Learning Objectives:**
1. To learn how to perform an advanced clinical MR protocol.
2. To explore the potential of new MR techniques.
3. To learn if the impact of MR in tumour imaging has reached a plateau.

**08:58**

A-487 PET/CT and scintigraphy
  J.R. Garcia; Barcelona/ES

**Learning Objectives:**
1. To learn the common indications for conventional nuclear medicine tracers (99mTc-MDP, 99mTc-MIBI) in musculoskeletal tumours using hybrid imaging (SPECT/CT).
2. To be familiar with the current evidence and clinical applications of 18F-FDG PET/CT in musculoskeletal tumours.
3. To be aware of the future developments of novel PET tracers and integrated PET/MRI.
4. To learn the common indications for conventional nuclear medicine tracers.

**09:21**

A-488 Sonography: diagnostic developments
  C. Martinoli; Genoa/IT

**Learning Objectives:**
1. To learn the value of US in the diagnostic work-up of musculoskeletal tumours.
2. To be familiar with the most recent advances and trends in the development of US technology.
3. To be aware of pros and cons and potential pitfalls of US in this field.

Panel discussion:

**09:44**

The role and guidelines of the imaging techniques on the management of MSK neoplasms

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08:30 – 10:00 Room B

**Interactive Teaching Session**

**E³ 1620** Breast cancer

**08:30**

A-489 A. Detection
  C.S. Balleyguier; Villejuif/FR

**Learning Objectives:**
1. To know the respective role of each imaging technique in the diagnosis of breast cancer.
2. To learn common pitfalls in the diagnosis of breast cancer.

**09:15**

A-490 B. Follow-up
  G. Forrai; Budapest/HU

**Learning Objectives:**
1. To understand the common features of recurrent breast cancer.
2. To learn how to establish imaging follow-up protocols for breast cancer.

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08:30 – 10:00 Room C

**CLICK (Clinical Lessons for Imaging Core Knowledge): Common Clinical Cases**

**CC 1618** Surprise in the liver
  Moderator: M. Lewin; Villejuif/FR

**08:30**

A-491 A. Clinical considerations
  E. Szabó; Szeged/HU

**Learning Objectives:**
1. To learn more about the clinical conditions that may result in the appearance of focal liver lesions.
2. To be informed about the clinician’s way of thinking in the process of differential diagnosis.
3. To become familiar with the potential role of imaging in the establishment of the final diagnosis and planning of therapy.

**09:00**

A-492 B. Imaging techniques and typical findings
  G. Brancatelli; Palermo/IT

**Learning Objectives:**
1. To learn about the available imaging modalities for the evaluation of patients with incidentally detected focal liver lesions.
2. To become familiar with the technical imaging considerations and the proper diagnostic algorithm.
3. To know more about the typical imaging findings.

**09:30**

A-493 C. Interactive case discussion
  C.J. Zech; Munich/DE

**Learning Objectives:**
1. To review typical cases illustrating the role of imaging modalities in the differential diagnosis of unexpected liver lesion cases.
2. To get involved in the diagnostic process by the use of electronic voting pads.
3. To understand the conclusion that may be drawn on the basis of the discussed cases.

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08:30 – 10:00 Room D1

**Emergencies in Neuroradiology**

**CC 1619** Acute onset of cranial nerve dysfunctions
  Moderator: M.A. Papathanasiou; Athens/GR

**08:30**

A-494 A. Acute loss of vision
  S. Pedraza; Girona/ES

**Learning Objectives:**
1. To become familiar with lesions, involving the optic nerve which can cause sudden loss of vision.
2. To understand how lesions in the suprasellar/optic chiasm region can cause loss of vision.
3. To become familiar with lesions involving the optic tracts, geniculate bodies, and visual cortex.

**09:00**

A-495 B. Hearing loss
  G. Colosimo; Rome/IT

**Learning Objectives:**
1. To appreciate the imaging strategies and findings for patients with sudden onset of hearing loss.
2. To understand the choice of imaging technique: for CT scanning versus MRI.
3. To become familiar with causes of hearing loss involving the middle ear, labyrinth, internal auditory meatus, brainstem and brain.
Learning Objectives:
1. To become familiar with the anatomy of the facial and trigeminal nerves.
2. To understand the imaging strategies in patients with trigeminal neuralgia.
3. To consolidate knowledge of the difference between central and peripheral facial nerve paralysis, and how this affects imaging strategies.
4. To become familiar with the choice of imaging technique.
A-505 A. Pulmonary complications of the treatment of malignancy
S. Diederich; Düsseldorf/DE

Learning Objectives:
1. To be familiar with pulmonary complications that may arise in patients being treated for malignancy.
2. To be aware of the possible infectious aetiologies.
3. To learn the appearances of typical and atypical infections, including fungal infection.

A-506 B. Imaging the effects of cancer treatment in the abdomen and pelvis
J.A. Spencer1, P. Hulse2; 1Leeds/UK, 2Manchester/UK

Learning Objectives:
1. To be familiar with the range of complications that may arise following chemotherapy/radiotherapy.
2. To understand how these changes can simulate active disease.
3. To learn how to distinguish between these changes and active disease.

A-507 C. Complications of treatment in the CNS
P. Demaerel; Leuven/BE

Learning Objectives:
1. To be aware of the complications of chemotherapy and radiotherapy on the CNS.
2. To be able to recognise the specific imaging features of these complications.
3. To understand the optimal use of imaging techniques for evaluating these complications.

Panel discussion:
09:44 How can the radiologist make sure not to miss complications of cancer treatment?

A-508 A. How can we differentiate cystic neoplasms from pseudocysts?
H.-J. Brambs; Ulm/DE

Learning Objectives:
1. To learn the most common cystic lesions of the pancreas.
2. To know typical imaging findings of pseudocysts and cystic tumours.
3. To become familiar with imaging elements that differentiate cystic lesions.

A-509 B. IPMN: diagnostic and staging criteria
R. Manfredi; Verona/IT

Learning Objectives:
1. To know how to display the CT and MR findings of IPMN.
2. To learn the limitations and complementary roles of CT and MR.
3. To become familiar with imaging staging elements that suggest management of different lesions.

A-510 C. How to manage incidental findings
C. Triantopoulou; Athens/GR

Learning Objectives:
1. To learn how to differentiate between benign and malignant cystic lesions.
2. To know the correct management of unclassified cystic lesions at imaging.
3. To become confident with the reference imaging criteria suggesting treatment.
Postgraduate Educational Programme

A-514 – A-525
08:30 – 10:00 Room I/K

Chest

RC 1604 Patterns in chest radiology: diffuse lung diseases – what the radiologist should know

08:30
A-514 Chairman’s introduction
D.M. Hansell; London/UK

08:35
A-515 A. The glossary of terms for thoracic imaging: old and new definitions
J.A. Verschakelen; Leuven/BE

Learning Objectives:
1. To understand the importance of a glossary of terms for thoracic imaging.
2. To become familiar with the new definitions introduced in the last glossary of terms proposed by members of the Fleischner Society.

08:58
A-516 B. From pattern recognition to disease diagnosis: a practical approach (part 1)
A. Devaraj; London/UK

Learning Objectives:
1. To understand the different patterns on HRCT scans of the chest.
2. To learn about a systematic approach to differential diagnosis of diffuse lung diseases.
3. To review key imaging findings.

09:21
A-517 C. From pattern recognition to disease diagnosis: a practical approach (part 2)
N. Howarth; Chêne-Bougeries/CH

Learning Objectives:
1. To understand the different patterns on HRCT scans of the chest.
2. To learn about a systematic approach to differential diagnosis of diffuse lung diseases.
3. To review key imaging findings.

Panel discussion:
How do we report CT of diffuse lung disease?

08:30 – 10:00 Room L/M

Professional Challenges Session

PC 16 Upcoming challenges in radiation protection

08:30
A-518 Chairmen’s introduction
B. De Foer; Wilrijk-Antwerp/BE

08:35
A-519 Challenges in radiation protection for imaging: work in progress by ICRP
E. Vaño; Madrid/ES

Learning Objectives:
1. To get an insight into ongoing activities of ICRP Committee 3 (Protection in Medicine).
2. To learn about the approaches of the ICRP to new challenges.
3. To get a preview of upcoming recommendations.

09:21
A-520 To understand new challenges, such as imaging in asymptomatic individuals
K. Åhlström Riklund; Umea/SE

Learning Objectives:
1. To get an insight into imaging in diagnostic and screening purposes.
2. To review work of imaging in asymptomatic individuals.
3. To learn about the approaches of the ICRP to new challenge, imaging in asymptomatic individuals.

09:35
Panel discussion:
Optimisation vs justification: range of 1-10 mSv CT examination vs more strict selection of indications

08:30 – 10:00 Room N/O

Special Focus Session

SF 16c Paediatric head and neck imaging

08:30
A-521 Imaging of temporal bone pathology in children
B. De Foer; Wilrijk-Antwerp/BE

Learning Objectives:
1. To become familiar with congenital malformations.
2. To learn about the imaging findings of inflammatory and space occupying lesions.
3. To understand the imaging strategy.

08:58
A-524 Imaging approach for a child with a neck mass
N.J.M. Freling, A.M.J.B. Smets, E.E. Deurloo; Amsterdam/NL

Learning Objectives:
1. To learn about the most frequent neck space occupying lesions.
2. To understand diagnostic imaging protocols.
3. To become familiar with the main differential diagnosis.

09:21
A-525 Imaging of maxillofacial and sinonasal pathology in children
S. Bisdas; Tübingen/DE

Learning Objectives:
1. To learn about age-related changes that should not be misinterpreted.
2. To understand the role of x-rays, CT and MRI.
3. To become familiar with the imaging findings.

Panel discussion:
How best to image the principal head and neck abnormalities in children
08:30 – 10:00  Room P

Physics in Radiology

RC 1613  Simulations help us understand x-ray imaging

Moderators: H. Bosmans, Leuven/BE; A. Persson, Linköping/SE

08:30  A-526  A. Monte Carlo simulations of x-ray tubes and x-ray spectra
M. Koutalonis, London/UK

Learning Objectives:
1. To understand the basics of Monte Carlo simulations of x-ray tubes and x-ray spectra.
2. To learn why and how to start a Monte Carlo software platform.
3. To learn how to accelerate Monte Carlo calculations.

09:00  A-527  B. Monte Carlo simulations of virtual patients (anthropomorphic phantoms)
M. Zankl, Neuherberg/DE

Learning Objectives:
1. To learn about requirements for anthropomorphic phantoms (virtual patients).
2. To understand the value of anthropomorphic phantoms for breast imaging.
3. To be able to compare advantages and disadvantages of several types of anthropomorphic phantoms.
4. To learn how to estimate typical patient doses from simulations with virtual phantoms.

09:30  A-528  C. Monte Carlo simulations of x-ray detectors and x-ray images
N. Marshall, Leuven/BE

Learning Objectives:
1. To learn basic methods for simulating imaging detectors.
2. To learn how to simulate x-ray images.
3. To learn how to validate Monte Carlo simulations of an x-ray imaging system.

Computer Applications

RC 1605  New PACS architecture: decoupling image management from image navigation

08:30  A-529  Chairman’s introduction
H.U. Lemke, Berlin/DE

Session Objectives:
1. To introduce models of image management and workflow.
2. To present the evolution of image management outside of radiology (surgery, interventions etc.).
3. To discuss the technical requirements for better image sharing and distribution.

08:35  A-530  A. Image navigation and new PACS architecture
J. Reponen, Reahe/FR

Learning Objectives:
1. To learn about recent changes in PACS design and infrastructure.
2. To understand the role of data management in PACS architecture.
3. To become acquainted with different PACS architectures.
4. To understand technical, workflow and legal aspects of innovative technologies.
Learning Objectives:
1. To be familiar with the anatomy of the neck.
2. To be able to choose the optimal imaging technique.
3. To become familiar with the most common abnormalities in adults and children.
4. To be able to address a short list of differential diagnoses.

The Beauty of Basic Knowledge: Interpretation of the Chest Radiograph

MC 27E The diaphragm

Learning Objectives:
1. To review the most common causes of elevated hemidiaphragm.
2. To evaluate alterations in diaphragmatic contour.
3. To recognize false causes of diaphragmatic elevation.

Molecular Imaging

MC 23E Theranostics: combining imaging and treatment

Moderator: H.C. Steinert, Zurich/CH

A-538 A. MR and US-guided drug delivery

C. Moonen; Utrecht/NL

Learning Objectives:
1. To understand the role of ultrasound in local drug extravasation, intracellular uptake and release from nanocarriers.
2. To become familiar with the role of multi-modality imaging in evaluating biodistribution, pharmacokinetics and pharmacodynamics of local drug therapy.
3. To understand the potential of MR-guided focused US in local drug delivery.

A-539 B. Imaging-guided cell-based therapy

O. Clément; Paris/FR

Learning Objectives:
1. To learn about potential clinical applications of cell based biotherapies.
2. To understand how imaging can be used for therapy monitoring.
3. To become familiar with methods of labelling and tracking cells using MRI.

A-540 C. Imaging-guided gene-based therapy

M. Neeman; Rehovot/IL

Learning Objectives:
1. To understand the use of imaging to guide delivery of gene therapy.
2. To get an introduction to the use of imaging-guided activation of gene expression.
3. To become familiar with the use of reporter genes for image-guided delivery of therapy.

GI Tract

RC 1901 Crohn’s disease of the small bowel: which test when?

A-541 Chairman’s introduction

J. Stoker; Amsterdam/NL, J. Rimola; Barcelona/ES

A-542 A. Detection and classification

M.A. Patak; Zurich/CH

Learning Objectives:
1. To become familiar with the pros and cons of each of the main imaging modalities in assessing a patient with (i) suspected and (ii) newly diagnosed Crohn’s disease with emphasis placed on diagnostic accuracy, practicability and patient acceptability.
2. To learn the appearance of Crohn’s disease on each modality, with emphasis on subtle disease.
3. To learn the different disease subtypes and their relevance to subsequent disease management.

A-543 B. Disease activity assessment

F. Maccioni; Rome/IT

Learning Objectives:
1. To become familiar with the various clinical criteria for defining active disease (clinical indices, endoscopic and histological).
2. To learn the features on MRI, US and CT that reflect disease activity and become familiar with the evidence base for their use.
3. To appreciate the available techniques and learn an integrated paradigm applicable to clinical practice.
4. To become familiar with new techniques, notably diffusion and contrast-enhanced US, and understand their potential roles.

A-544 C. Complications and follow-up

L. Curvo-Semedo; Coimbra/PT

Learning Objectives:
1. To learn the common complications in Crohn’s disease and appreciate examples of each on the common imaging modalities.
2. To appreciate the available techniques and learn an integrated paradigm applicable to clinical practice.
3. To become familiar with the evidence for imaging use in assessing treatment response.

Panel discussion:
How can imaging change patient management in Crohn’s disease?

Contrast Media

RC 1906 How I optimise contrast media administration

Moderator: A.J. van der Molen, Leiden/NL

A-545 A. CT

P. Leander; Malmoe/SE

Learning Objectives:
1. To understand the pharmacokinetics of iodinated contrast media.
2. To learn about patient, contrast medium and scanning factors associated with contrast enhancement and scan timing.
3. To become familiar with protocols for optimised contrast enhancement.
16:30
A-546  B. MRI  
G.M. Bongartz; Basle/CH

Learning Objectives:
1. To understand the differences between iodinated contrast agents and gadolinium chelates and their impact on contrast medium administration.
2. To learn about injection and scanning protocols for optimised vascular and parenchymal enhancement.
3. To review the influence of tissue-specific contrast media on the injection and scanning protocols.

17:00
A-547  C. PET/CT  
X. Montet; Geneva/CH

Learning Objectives:
1. To understand the role of contrast-enhanced CT in PET/CT.
2. To understand the influence of contrast-enhanced CT on attenuation correction of PET images.
3. To learn about the injection protocol for optimised enhancement in PET/CT.

16:00 – 17:30 Room E1
Musculoskeletal
RC 1910 The knee

16:00
A-548 Chairman’s introduction  
F.M.H.M. Vanhoenacker; Antwerp/BE

16:05
A-549 A. Patterns of injury  
P. Van Dyck; Antwerp/BE

Learning Objectives:
1. To learn the imaging appearances of soft tissue injury.
2. To learn the imaging appearances of osteoarticular injury.
3. To be familiar with the patterns of bone and soft tissue injury in the knee.

16:28
A-550 B. Inflammatory disease  
A. Cotten; Lille/FR

Learning Objectives:
1. To learn the imaging appearances of soft tissue inflammation.
2. To learn the imaging appearances of osteoarticular inflammatory change.
3. To be familiar with imaging findings of specific inflammatory conditions.

16:51
A-551 C. Soft tissue tumours/tumour-like lesions  
J.C. Vilanova; Girona/ES

Learning Objectives:
1. To learn the spectrum of intra and para-articular soft tissue tumours.
2. To learn the spectrum of intra and para-articular soft tissue tumour-like lesions.
3. To be familiar with US and MRI findings of specific soft tissue lesions.

Panel discussion:
17:14
What are the remaining clinical questions that imaging cannot answer and how will we answer them in the future?

16:00 – 17:30 Room F2
Special Focus Session
SF 19  Spinal intervention

16:00
A-552 Chairman’s introduction  
T. Sabharwal; London/UK

Session Objectives:
1. To review clinical symptoms and radiological investigations of back pain.
2. To learn various techniques for spinal pathology treatment.
3. To be aware of recent and potential future advances in this field.

16:03
A-553 Herniated disk?  
X. Buy, A. Gangi; Strasbourg/FR

Learning Objectives:
1. To understand the clinical and radiological investigations. 
2. To learn the radiological management for herniated disk.
3. To learn how to avoid potential complications.

16:21
A-554 Vertebroplasty  
A.D. Kelekis; Athens/GR

Learning Objectives:
1. To understand the indications for vertebroplasty.
2. To learn the technique for vertebroplasty.
3. To understand the recent advances.

16:39
A-555 Treatment of neoplasm  
A. Gangi, X. Buy, G. Tsoumanidou, J. Garnon, Strasbourg/FR

Learning Objectives:
1. To learn the imaging criteria and advances for planning cases.
2. To learn different treatment options in tackling bone neoplasms.
3. To understand complications and limitations.

16:57
A-556 Facet pathology  
N. Karunanithy; London/UK

Learning Objectives:
1. To learn about the clinical symptoms of back pain.
2. To become familiar with the anatomy and related technique.
3. To be informed about potential advances in this field.

Panel discussion:
17:15
What are the new advances in the above fields that may change current practice?

16:00 – 17:30 Room G/H
Neuro
RC 1911 How I report  
Moderator: M. Mechl; Brno/CZ

16:00
A-557 A. MRI in microvascular and inflammatory diseases  
P. Vilela; Almada/PT

Learning Objectives:
1. To be aware of the epidemiology and clinical manifestations of the most common microvascular, vasculitis and inflammatory diseases in the immune competent adult patient.
2. To learn about imaging patterns of microvascular diseases.
3. To learn about imaging patterns of vasculitis, autoimmune and inflammatory diseases.
A-558 – A-568

16:30
A-558 B. MRI in common neurodegenerative diseases
F. Barkhof; Amsterdam/NL

Learning Objectives:
1. To be aware of the epidemiology and clinical manifestations of the most common adult neurodegenerative diseases.
2. To learn about imaging patterns of dementias.
3. To learn about imaging patterns of movement disorders.
4. To be aware of some specific imaging features of rare neurodegenerative disorders.

17:00
A-559 C. Neuroimaging in the acute ill/ICU patient
M. Gallucci; M. Anselmi; L’Aquila/IT

Learning Objectives:
1. To learn about the most common neuroimaging findings in the acute ill/ICU patient.
2. To comprehend the various neurological complications that can occur in the intensive care unit and to become familiar with their most typical imaging patterns.
3. To consolidate knowledge of the best neuroimaging protocols for the acute ill/ICU patient and establish the imaging protocol accordingly to the clinical setting.

16:00 – 17:30 Room N/O
Head and Neck
RC 1908 Differentiating skull base lesions
Moderator: C.R. Habermann; Hamburg/DE

16:00
A-563 A. Olfactory apparatus lesions
T.P.J. Duprez; Brussels/BE

Learning Objectives:
1. To learn how to image the olfactory apparatus.
2. To become familiar with olfactory anomalies.
3. To learn differentiating lesions in anosmic patients.

16:30
A-564 B. Cavernous sinus and pterygopalatine fossa lesions
A. Borges; Lisbon/PT

Learning Objectives:
1. To learn the anatomy of the middle cranial fossa.
2. To become familiar with different types of middle cranial fossa lesions.
3. To learn how to differentiate such lesions.

17:00
A-565 C. Jugular fossa lesions: how to differentiate?
H. Tanghe; Rotterdam/NL

Learning Objectives:
1. To learn the anatomy of the jugular fossa using CT, MRI and angiography.
2. To learn what lesions can be seen in this fossa.
3. To learn how to differentiate these lesions on a topographic basis.

16:00 – 17:30 Room P
Vascular
RC 1915 Non-traumatic acute aortic dissection

16:00
A-566 Chairman’s introduction
A.-M. Belli; London/UK

16:05
A-567 A. Etiology, clinical signs and prognosis of acute non-traumatic aortic dissection
V. Bérczi; Budapest/HU

Learning Objectives:
1. To learn about epidemiology and etiology of acute non-traumatic aortic dissections.
2. To learn the clinical signs, pathologic changes, consequences, and natural history of aortic dissection.
3. To learn the classification systems for aortic dissections.

16:28
A-568 B. Acute aortic dissections: imaging and image-based classification
J. Lammer; Vienna/AT

Learning Objectives:
1. To learn how to diagnose aortic dissection.
2. To understand the pros and cons of different imaging modalities.
3. To learn how to classify aortic dissections by use of CTA and MRA.
4. To learn the indications for treatment.
C. Acute aortic dissections: imaging of complications
M.H.K. Hoffmann; Ulm/DE

Learning Objectives:
1. To learn the most common complications of aortic dissection.
2. To learn the most appropriate imaging strategy for diagnosis of complications.
3. To understand the clinical significance and treatments of the most common complications.

Panel discussion:
Which imaging modality is best for planning of endovascular management?

Paediatric

RC 1912 Chest imaging: what to use and when to use it
Moderator: W. Hirsch; Leipzig/DE

A-570 A. Thoracic trauma and foreign body inhalation
M.L. Lobo; Lisbon/PT

Learning Objectives:
1. To become familiar with lesions observed in thoracic trauma.
2. To learn about strategies for imaging.
3. To become familiar with the classical and atypical signs of foreign body inhalation.

A-571 B. Infiltrative diseases of the chest
G. Staatz; Mainz/DE

Learning Objectives:
1. To understand the role of chest CT.
2. To learn about the typical CT findings of interstitial lung disease.
3. To become familiar with the most frequent diseases and learn about a systematic approach.

A-572 C. Imaging of neonatal chest emergencies
A. Paterson; Belfast/UK

Learning Objectives:
1. To learn about the etiologies of respiratory distress syndrome.
2. To become familiar with imaging findings.
3. To learn about the differential diagnoses.
Session numbers are prefixed by SS

Presentation numbers are prefixed by the letter B

Presentations for which the author(s) have submitted additional material and images to EPOS™ are marked with the icon.
Scientific Sessions

**Neuro**

**SS 111a  Neurovascular - MRI**

Moderators: G. Guarnieri, Naples/IT, Z Merhemic, Sarajevo/BA

10:30

**B-0001** Non-invasive CVR assessment using ASL and BOLD

A. Portelo, I. Sousa, P. Vieira, P. Fiqueiredo; Lisbon/PT

10:39

**B-0002** Acute-onset migrainous aura mimicking acute stroke: MR perfusion imaging features

D. Flessen1, MR Vosko1, F.A. Feller1, F. Gruber1, C. Ginthoer1, G. Riemann2, M. Uder1, W.G. Bradley1, C. Feller1, Linz/AT, Erlangen/DE, San Diego, CA, USA, Regensburg/DE

10:48

**B-0003** Remission of diffusion lesions in acute stroke MR imaging: a follow-up study with 176 consecutive patients

D. Flessen1, C. Ginthoer, R. Wunn, F.A. Feller, Linz/AT

10:57

**B-0004** Arterial hypertension is associated with rostral ventrolateral medulla neurovascular compression

M. Hartl1, M. Wojcik2, M. Rudzińska2, A. Szczudlik2, E. Kluczewska3, Zabrze/PL, Krakow/PL, Katowice/PL

11:06

**B-0005** Carotid atherosclerotic plaque morphology and ischaemic vascular brain disease on MRI

Q.J.A. van den Bouwhuijsen1, M.W. Vernooij1, G.P. Krestin1, W.J. Niessen1, Rotterdam/NL, Essen/DE, Dortmund/DE

11:15

**B-0006** Progression of the multiple hypointense vessel sign on the susceptibility weighted images after recanalisation in patients with hyperacute ischaemic stroke

Y.-W. Kim, S. Baik, J.-Y. Jang, S. Ahn; Yangsan/KR

11:24

**B-0007** Utility of susceptibility-weighted imaging for detection of carotid cavernous fistula: a case control study

H.J. Hamblet1, R. Basti, C.J. Kesavadas, B.J. Thomas; Mannheim/DE

11:33

**B-0008** Preserved regulation of intracranial pressure in patients with cerebral arteriovenous malformations

F.G. Meinl1, J. Fischer1, N. Wohrle1, I. Korte1, D. Steffinger1, R.P. Laubender1, M.F. Reiser1, N. Alperin2, B. Ertl-Wagner1; Munich/DE, Miami/FL, US

11:42

**B-0009** Intracranial pressure across the life-span: a study with phase-contrast imaging

I. Korte1, A. Flessen1, R.P. Laubender1, D. Steffinger1, F. Heinen1, M.F. Reiser1, N. Alperin2, B. Ertl-Wagner1; Munich/DE, Miami/FL, US

**B-0011** Diffusion-weighted imaging: an imperfect biomarker for the malignancy of breast tumours

H. Busken1, P. Pirkner-Domenig1, W. Bogner1, S. Gruber1, M. Weber1, T. Helbich1; Vienna/AT

10:49

**B-0012** A new diffusion-weighted MR imaging approach for evaluating response to sorafenib treatment in advanced hepatocellular carcinoma

M. Lewis1, L. Fariouk1, A. Vojvodic1, L. Arrive1, Y. Menu1, D. Rosmonduc2; Villejuif/FR, Paris/FR, Saint-Orens/FR

11:05

**B-0013** Multi-zone tumour model exposed by multiparametric, dynamic contrast-enhanced and diffusion-weighted MR imaging

P. Polasek1, C. Genzer1, M. Settler1, S. Loefenm1, A.J. Beer1, E.J. Rummeny1; M. Metz1, Munich/DE

11:15

**B-0014** Perfusion CT sub-classesifies FDG-PET metabolic responders in oesophagogastric adenocarcinoma

Y.S. Hsia1, H. Petty1, M. Barr1, A. Dens1, A. Welsch1, V. Cunningham1, L. Schweiger1, F. Gilbert1; Aberdeen/UK

11:16

**B-0015** Intravoxel incoherent motion (IVIM) analysis of breast carcinomas: a pilot study

A.M. Chow1, V. Ai1, P.S.Y. Cheung1, A.M. Chan1, S.K. Yu1, G.G. Lai1; Happy Valley/HK

11:24

**B-0016** Early assessment of tumour response to sorafenib in uveal melanoma with liver metastases using semi-quantitative DCE-MRI

F. Menon1, T. Stolz1, B. Nople1, B. Thirzing1, H.-G. Lonsdorf2, M. Forsting1, M. Scheulen1, J. Kalkmann1; Essen/DE, Dortmund/DE

11:33

**B-0017** Combined qualitative and quantitative analysis of DWI in early assessment of poor responders after chemoradiation therapy: preliminary results in locally advanced rectal cancer

E. Minnici1, D. Ippolito1, C. Capraro1, C. Talei-Franzesi1, S. Galimberti1, S. Sironi1; Monza/IT

11:42

**B-0018** Assessment of tumor heterogeneity: CT texture as a biomarker of overall survival in primary colorectal cancer

F.K.H. Bac1, B. Ganeshan1, K. Mihalci1, V. Goh2, V. Goht1; Northwood/UK, London/UK

11:51

**B-0019** Evaluation of radiological prognostic factors of hepatic metastases in patients with pancreatic neuroendocrine neoplasms

C. Ihm1, A. Bauer1, C. Dinlertime1, P. Figueiredo1; Lisbon/PT

12:00

**B-0020** CT-based response assessment of advanced gastrointestinal stromal tumour: is dual energy CT a more predictive imaging biomarker of response than RECIST or Choi criteria?

M. Meyer1, P. Apfaltrer1, T. Henzler1, D.J. Dinter1, P. Hohenberger1; Berlin/DE, Katowice/PL, Mannheim/DE, Mannheim/DE, Waterford/IE

12:15

**Oncologic Imaging**

**SS 116  Tumour biology, response and prognosis**

Moderators: G. Brown; Sutton/UK, N. Power; Waterford/IE

10:30

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H. Busken1, P. Pirkner-Domenig1, W. Bogner1, S. Gruber1, M. Weber1, T. Helbich1; Vienna/AT

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M. Meyer1, P. Apfaltrer1, T. Henzler1, D.J. Dinter1, P. Hohenberger1; Berlin/DE, Katowice/PL, Mannheim/DE, Mannheim/DE, Waterford/IE

12:00
**Chest**

**SS 104** Neoplasms: staging, risk and surgery

**B-0021** The presurgical T staging of non-small cell lung cancer: efficacy comparison of 64-MSCT versus 3.0T MR imaging


**XX Xu** Beijing/China

**10:39**

**B-0022** Single source dual energy CT improving differentiation between atelectasis and tumour in central lung cancer: clinical practice of a novel technique

**Y. Chen, L. Tang, X.-T. Li, L.-P. Qi, Y.-L. Li, X.-Y. Zhang, Y. Cai, Y.-S. Sun**

**X.-P. Zhang** Beijing/China

**10:48**

**B-0023** Predictive features of FDG-PET/CT and CT in diagnosing nodal metastasis of T1 non-small cell lung cancers manifesting as part-solid nodules


**Seoul/Korea**

**10:57**

**B-0024** Prevalence, clinical significance and diagnostic value of extrapleural and cardio-phrenic lymph nodes

**C. Marinos, B. Feragalli, N. Civitareale, R. Polverosi, A. Tartaro, A. Cotroneo**

**Creteil/France**

**11:06**

**B-0025** Diffusion-weighted imaging adds diagnostic value to MRI in differentiating thoraco-mediastinetic lesions: comparison with PET-CT

**F. Buemi, F. Tondo, G. Stromboli, A. Stecco, A. Carriero**

**Novara/Italy**

**11:15**

**B-0026** Do pleural plaques carry an excess of risk of lung cancer in asbestos-exposed workers?


**Lyon/France**

**11:24**

**B-0027** Incidental findings in a study screening asbestos exposed workers for lung cancer and mesothelioma using low-dose computed tomography (LDCT): what you can find when you are not looking

**F. Gourlet, H. Roberts**, M. de Perrot, B. Osullivan, G. Done, N.S. Paul, D. Patios

**Kingston, ON/Canada**

**11:33**

**B-0028** Lung cancer screening by morphological MRI in comparison to low-dose CT

**F. Eisenmenger, M. Puderbach, B. Stieltjes, M. Eichinger, H.-P. Schlemmer**

**Heidelberg/DE**

**11:42**

**B-0029** Lung volume in patients with pectus excavatum: quantifying the pulmonary involvement?

**E. Tarulli**, J. Vallejos, C. Capunay, P. Carrascosa, M. Martinez Ferro, J. Carrascosa

**Valladolid/Spain**

**11:51**

**B-0030** Prediction of postoperative pulmonary function by single-breath dual energy xenon CT: a preliminary report

**H. Tanapala, W. Watanabe, Y. Shimizu, T. Okada, H. Ohno, H. Ogawa, N. Honda, M. Nakayama**

**Kawagoe Saitama/Japan**

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**Interventional Radiology**

**SS 109** Genitourinary, gastrointestinal and biliary interventions

**Moderators:** M. Given; Dublin/IE, T. Jargiello; Lublin/PL

**10:30**

**B-0031** Uterine artery embolisation: pre-interventional prediction of the best tube angle obliquity for visualisation of the uterine artery origin using 3D reconstructed contrast-enhanced MR angiography

**N.N. Rappo**, N.-E.A. Novo-Elenin, B. Schell, T. Graber-Rohf, T. Lehniert, T.J. Wolf

**Frankfurt a. Main/DE**

**10:39**

**B-0032** Advantages of the brachial approach in uterine arteries embolisation

**P.R. Nechifor**, B. Dorobat

**Bucharest/RO**

**10:48**

**B-0033** Arterial embolisation for cervical leiomyoma: should we treat it as adenomyosis?


**Seoul/Korea**

**10:57**

**B-0034** Transcatheter pelvic arterial embolisation for control of obstetric haemorrhage

**M. Ferrer-Portalt, I. Lapisce, J. Esteban, J. Campi**, M. Edo

**Vandoeuvre-les-Nancy/FR**

**11:06**

**B-0035** A novel technique of percutaneous closure of enterocutaneous fistula

**B. Sekercioglu**, L. Cintarad Suputur, Spil/HR

**11:15**

**B-0036** Fluoroscopically guided dilatations of oesophageal strictures due to epidermolysis bullosa dystrophica: long-term results from a single centre study


**11:24**

**B-0037** Effectiveness of percutaneous biliary stone removal as primary treatment compared with endoscopic retrograde technique: in cases of IHBD stones, ≥15mm bile duct stones, history of GI bypass surgery

**S. Hsu**, T. Han, S. Lee, H. Yu

**Jeonju-si/Korea**

**11:33**

**B-0038** The comparison of visualisation among balloon-occluded retrograde transvenous venography using iodine contrast and carbon dioxide gas, and the subsequent obliteration by foam sclerotherapy for gastric varices under DSA


**11:42**

**B-0039** Retrievable covered stent in the treatment of benign biliary strictures: intermediate-term outcomes


**Seoul/Korea**

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## Musculoskeletal

**SS 110  Osteoporosis and bone marrow**  
**Moderators:** E. Adams, Manchester/UK, M. Wychou, Larissa/GR

### 10:30 - 12:00  Room E1

#### B-0040
**Percutaneous Y-configured covered stent placement for malignant hilar biliary obstruction: a prospective pilot study**  

#### B-0041
**Impact of exercise on bone mineral density**  
I. Abbas, H. Eleghwabi, W. Younan, A. Sabour, M. Gobrial, Cairo/EG

#### B-0042
**Quantitative ultrasound at the phalanges in a cohort of twins of different ages**  
G. Galeotti, F. De Tellizzi, A. Canini, R. Minageldi, F. Brancati, Foggia/IT, “Carpi/IT, Rome/IT

#### B-0043
**Bariatric surgery and radiologists: besides complications, an important role in the evaluation of treatment efficacy and effects**  

#### B-0044
**Fat fraction and T2* values of vertebral bone marrow utilising a new fat separation MR technique in peri-menopausal women: comparison with bone mineral density**  

#### B-0045
**Scaling relations between trabecular bone mass and 3D microstructure in two locations of the human femur**  

#### B-0046
**Quantitative analysis of perfusion parameters in osteoprotic patients with acute vertebral fracture using dynamic contrast-enhanced MRI**  
G.P. Schmidt, A.L. Faggioni, I. Caroni, L. Sinibaldi, P.M. Reiser, S. Weckbach, Munich/DE

#### B-0047
**Role of diffusion-weighted whole body MRI with background body signal suppression (DWIBS) for disease detection in patients with multiple myeloma: preliminary results**  
P.A. Benigno, D. Ippolito, I. Marchi, F. Rossini, A. Di Leio, S. Sironi, Monza/IT

#### B-0048
**Diagnostic value of whole body low-dose computed tomography (WBLDCT) in the staging of patients with multiple myeloma**  
V. Bassotti, D. Ippolito, M. Civitelli, E.M. Pozziani, A. Di Leio, S. Sironi, Milan/IT, Monza/IT

### GI Tract

**SS 101a  Crohn’s disease and intestinal inflammation**  
**Moderators:** A. Gupta, London/UK, S. Romano, Naples/IT

#### 10:30 - 12:00  Room E2

#### B-0050
**Quantitative assessment of perfusion and permeability in osteochondritis dissecans lesions: feasibility and initial results**  
A.P. Arnold, M. Inglesby, S. Utschneider, M.F. Reiser, S. Weckbach, Munich/DE

#### B-0051
**MR perfusion of normal small bowel**  

#### B-0052
**Dark lumen bowel MR in patients with Crohn’s disease: two-step whole intestinal preparation with polietilenglicol**  
I. Sansoni, C.L. Piccolo, F. Pitocco, R. Del Vescovo, M. Gicca, B. Beomonte Zobel, Rome/IT

#### B-0053
**Diffusion-weighted MR imaging of acute appendicitis in paediatric patients: comparison with conventional MRI and surgical findings**  
U. Bayraktutan, M. Kantarci, Erzurum/IR

#### B-0054
**MRI-derived small bowel motility as a marker of disease activity in Crohn’s disease using a histopathological standard of reference**  
A. Menys, D. Atkinson, S. Punwani, I. Proctor, M. Novelli, G. Battista, A. Bazzocchi, Foggia/IT

#### B-0055
**Proposal of a qualitative MRI activity index for Crohn’s disease**  
P. Maccioni, V. Buonocore, I. Staltari, A. Pino, G. Bella, V. De Marco, M. Manni, Rome/IT

#### B-0056
**MR activity assessment in Crohn’s disease of the terminal ileum: free-breathing diffusion-weighted imaging (DWI) and dynamic motility evaluation as a possible alternative to MR with intravenous contrast agent**  
I. Sansoni, C.L. Piccolo, F. Pitocco, R. Del Vescovo, M. Gicca, B. Beomonte Zobel, Rome/IT

#### B-0057
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I. Sansoni, C.L. Piccolo, F. Pitocco, R. Del Vescovo, M. Gicca, B. Beomonte Zobel, Rome/IT

#### B-0058
**Magnetic resonance imaging is correlated with faecal calprotectin level in the evaluation of small bowel and colonic Crohn’s disease**  
11:42
B-0059 The diagnostic value of small bowel wall vascularity after sulphur hexafluoride-filled microbubble injection in the differentiation of inflammatory and fibrotic stenoses in patients with Crohn’s disease
E. Quaia, L. De Paoli, B. Cabibbo, F. Degrassi, M. Cova; Trieste/IT

11:51
B-0060 Low-dose CT in initial evaluation of Crohn’s disease in the emergency setting: Toward replacing the PFA

10:30 - 12:00 Room F1
Genitourinary
SS 107 Prostate MR imaging
Moderators: J.J. Fütterer, Nijmegen/NL, J. Richenberg, Brighton/UK

10:30
B-0061 Functional prostate MRI: evaluation of a scoring system
S. Roehlen, C. Arsov, D. Blondin, J. Klasen, R. Lanzman, G. Antoch, P. Albers, M. Quentin; Düsseldorf/DE

10:39
B-0062 Prostate cancer screening: the role of pre-biopsy MRI of the prostate in ruling out prostate cancer
T. Franiel1, H.A. Vargas2, Y. Mazaheri1, S. Bishehmer1, H. Hricak2, D. Alken2, D. Beyersdorff1; 1 Berlin/DE, 2 New York, NY/US

10:48
B-0063 Prostate cancer: role of pretreatment multiparametric MRI in predicting biochemical recurrence following radical prostatectomy

10:57
B-0064 Assessment of aggressiveness and tumour volume of prostate cancer: correlation of ADC with histologic grade and pathological tumour volume
G. Khoury, D. Eiss, F. Beuvon, N.B. Delongchamps, F. Cornud; Paris/FR

11:06
B-0065 Multi-parametric MR imaging for detection and localisation of transition zone prostate cancer

11:15
B-0066 Retrospective correlation between pathological specimens and multiparametric MRI for detection of prostate cancer
F. Pediconi, M. Luciani, F. Vasselli, V. Casali, E. Miglio, C. Catalano; Rome/IT

11:24
B-0067 Is it possible to model the risk of malignancy of focal abnormalities found at prostate multiparametric MRI?
Q. Monzani, A. Schull, N.B. Delongchamps, F. Beuvon, P. Legmann, F. Cornud; Paris/FR

11:33
B-0068 Accuracy of ultrahigh b values (b2000) to differentiate benign from malignant prostatic nodules on endorectal diffusion-weighted imaging
Q. Monzani, A. Schull, N.B. Delongchamps, F. Beuvon, P. Legmann, F. Cornud; Paris/FR

11:42
B-0069 Feasibility and reliability of MR-guided biopsy of the prostate gland: comparison to histopathological outcome
A. Malin, A. Kett, A. Ulrich, J. Fefer, R. Grometti; Nordhausen/DE

11:51
B-0070 MRI and ultrasound-guided prostate biopsy using real time soft image fusion (Koelis®): a pilot study
B. Boci, O. Boci, O. Blitz, A. Svindland, H.B. Eggemo, Oslo/NL

10:30 - 12:00 Room F2
Breast
SS 102 MRI: 3T, unenhanced and more
Moderators: A. Linda, Udine/IT, C. Loo, Amsterdam/NL

10:30
B-0071 The influence of hormonal fluctuations on quantitative diffusion-weighted magnetic resonance imaging (DW-MRI) of the glandular breast tissue in healthy premenopausal participants at 3T
N.M.M.R. AlRashidi, G. Waiter, T. Ahearn, F.J. Gilbert, T.W. Redpath; Aberdeen/UK

10:39
B-0072 Effects of inhomogeneous radiofrequency power deposition on the apparent diffusion coefficient of the normal breast at 3.0T
R. Girometti, M. Maieron, M. Bazzocchi, R. Padovani, C. Zuan, Udine/IT

10:48
B-0073 Accuracy of 3T magnetic resonance imaging with a high-relaxivity contrast agent in assessing treatment response in patients undergoing neoadjuvant chemotherapy
M. Telesca, F. Pediconi, M. Luciani, F. Vasselli, V. Casali, E. Miglio, C. Catalano; Rome/IT

10:57
B-0074 MR-mammography at 3T in clinical practice: prospective single centre experience

11:06
B-0075 Back to the future: non-contrast breast MRI (nc-BMRI) using a combination of T1-weighted, diffusion-weighted and STIR imaging
K.M. Trimboli1, N. Verardi1, L.A. Carbonaro1, F. Cartia1, G. Di Leo2, F. Sardanelli1; 1 San Donato Milanese/IT, 2 Corunna/IT

11:15
B-0076 Breast MRI at 3T: a pilot study estimating sensitivity and specificity of unenhanced MRI (DWI combined with T2 IDEAL sequence) vs CE-MRI in the assessment of response to neoadjuvant chemotherapy
F. Pediconi, M. Telesca, M. Luciani, F. Vasselli, V. Casali, E. Miglio, C. Catalano; Rome/IT

11:24
B-0077 To contrast or not to contrast? A new approach to unenhanced MR mammography
M. Lorenzon, C. Zuani, A. Linda, S. De Stefani, M. Maieron, R. Girometti, M. Bazzocchi, Udine/IT
B-0078 A comparison between FAST technique and standard breast MRI: are we ready for MR screening?
C. Caboni, C. Losio, P. Panizza, E. Venturini, F. De Cobelli, A. Del Maschio; Milan/IT

B-0079 Subgroup analysis of the final results of the Austrian screening trial for familial breast cancer
C.C. Riedl, N. Luft, C.B. Bernhart, G. Heinz-Peer, K. Pinker, T.H. Helbich; Vienna/AT

B-0080 Treatment of invasive breast cancer: initial clinical experience using high intensity focused ultrasound therapy with 3T magnetic resonance guidance
A. Napoli, F. Pediconi, M. Anzidei, L. Di Mare, G. Cartocci, L. Bertaccini, F. Boni, V. Noce, C. Catalano; Rome/IT

B-0081 Comparison of 1.5T and 3T scanners for evaluating myelination in neonatal brains
D. Tortora, V. Panara, S. Salice, P.A. Mattei, C. Briganti, A.R. Cotroneo, A. Tartaro, M. Caulo; Chieti/IT

B-0082 Imaging of multiple sclerosis at 3T: increased diagnostic yield using subtraction imaging
S. Langner, R. Seipel, B. Mensel, S. Otto, A. Dressel, N. Hosten, M. Kirsch; Greifswald/DE

B-0083 Value of DIR MR sequences in comparison to FLAIR and DP/T2 when identifying cortical and juxtacortical lesions in patients with multiple sclerosis
M. Vera Cartas, V. Schonstedt Geldres, C. Auger Acosta, R. Mitjana Penella, A. Rovira-Cañellas; Barcelona/ES

B-0084 Infratentorial lesions in multiple sclerosis: improved detection with T2 TIRM MR imaging at 1.5T magnet
P. Kitas, K. Tskias, G. Noutsos, G. Kintsis; Athens/GR

B-0085 Vein density in patients with multiple sclerosis at 7T: a pilot study

B-0086 Ultra-high-field MRI detected iron accumulation in multiple sclerosis plaques: a pilot study

B-0087 Disrupted white matter structural networks in clinically isolated syndromes suggestive of MS
Y. Li, N. Shu, Y. Duan, Y. He, P. Li, Beijing/CN

B-0088 Revised McDonald’s criteria for dissemination in space; accuracy in diagnosis of multiple sclerosis from Neurobehcet’s disease
S. Sefidbakht, M. Babainezhad, A. Borhani Haghighi, R. Jalli, Z. Zare; Shiraz/IR

B-0089 Evaluation of metabolic, perfusion and microstructural cerebral alterations in patients with systemic lupus erythematosus using MR spectroscopy, perfusion and diffusion tensor imaging
P. Szewczyk, A. Zimny, J. Bladowska, M. Szmyrka-Kaczmarek, M. Sasiadek, Wroclaw/PL

B-0090 Early and progressive signs on MRI in patients with progressive multifocal leukoencephalopathy
M. Sato, K. Nakashiri, Y. Tomita, Y. Yamashita, K. Kuniyama; Osaka/JP

B-0091 Gadoxetic acid-enhanced T1-weighted MR cholangiography in primary sclerosing cholangitis

B-0092 Biliary-enteric anastomoses: usefulness of Gd-EOB-DTPA-enhanced MR cholangiography
P. Boraschi, F. Donati, S. Salente, R. Gigoni, C. Bartolozzi, F. Falaschi; Pisa/IT

B-0093 Characterisation and staging of hilar cholangiocarcinoma (Klatskin Tumour): evaluation of the hepatocyte-specific contrast agent gadoxetate disodium

B-0094 Relationship between biliary complications and hepatic arterial buffer response after liver transplantation, based on ultrasound data
P. Rusza, E. Hartmann, A. Nemeth, Y. Kissma, A.P. Deak, S. Kudrnova, J. Fazakas, L. Kobori; Budapest/HU

B-0095 Steady state free precession sequences can add valuable diagnostic details to conventional MR cholangiography
A. Rozich, E. Tiberiu, Macerata/IT

B-0096 Functional imaging using Gadoxetate disodium-enhanced 3.0-T MR cholangiography versus conventional 3.0-T MR cholangiography: comparison with ERCP in patients with primary sclerotic cholangitis
10:30 - 12:00 Room L/M

Molecular Imaging

SS 106 Advanced topics

Moderators: I. Cambi; Barcelona/ES, T.O. Henning; Cologne/DE

10:30
B-0101 In vivo molecular MRI of the estrogen receptor in breast cancer using a targeted contrast agent

A. Pautz, R. Mangalitza, E.B. Berton, A. Yosepovitch, H. Doppman, I. Keren; Rehovot/IL, Tel Hasomer/IL

10:39
B-0102 PET imaging of therapy-induced prostate cancer cell death by targeting the internal epitope of prostate-specific membrane antigen

A. Bastrup, J.P. Holland, T. Hudolin, J.S. Lewis, J. Grimm, M. Strohmeier; Rotterdam/NL, New York/NY/US

10:48
B-0103 Molecular imaging of apoptosis in the early course after myocardial infarction using hybrid fluorescence molecular tomography/x-ray computed tomography FMT-XCT targeting Annexin V

M. Wildgruber, A. Ale, K. Kasimake, E.J. Rummeny, V. Nitschritos, Hamburg/DE

10:57
B-0104 First parallel, specific visualisation of inflammatory activity and consecutive demyelination in experimental multiple sclerosis (MS) in-vivo using dual-channel optical molecular imaging

M. Koskenkari, T. Alek, C. Lachmann, W. Hanke, H. Sultmann, L. Wachsmuth, T. Vogl; Munich/DE

11:06
B-0105 Can molecular imaging of breast tumours with high-field multiperametric MRI obviate unnecessary breast biopsies?


11:15
B-0106 Effect of cyclopamine on 18F-FDG-uptake of pancreatic cancer xenografts in nude mice: evaluation by clinically implemented high-resolution PET-CT

H. Heide, P. Meyer, B. Kraenelin, N. Gretz, C. Fink, S.D. Schönberg, M. Sadick; Mannheim/DE

11:24
B-0107 Impact of normal tissue uptake using 68Ga DOTATOC-PET/CT in patients with neuroendocrine tumour - a follow-up study


11:33
B-0108 Pre-clinical assessment of antiangiogenic effects on mice with mammary carcinoma using dynamic contrast-enhanced micro-CT


11:42
B-0109 Comparison of ADC measurements and USPIO uptake into different xenograft human xenotumour models at 7T MRI

N. Baeke, T. Ernst, M. Hene, S.C. Salmen, M. Kaul, C. Habermann, G. Adam; Homberg, Hamburg/DE

11:51
B-0110 Comparison of consecutive bolus tracking and flash replenishment measurements for the assessment of tissue haemodynamics using contrast-enhanced ultrasound (CEUS) in an experimental squamous cell carcinoma model

P.M. Fähig, A. Yosepovitch, P. Zengel, C.C. Cyran, K. Nikolaid, M.F. Reiser, D.A. Ernst, PA/UA/DE

10:30 - 12:00 Room N/O

Vascular

SS 115 Thoracic and abdominal aorta

Moderators: A. Mishra; New Delhi/IN, I.P. Vulec; Bratislava/SK

10:30
B-0111 Triphasic multidetector CT for the assessment of intramural haematoma of the aorta and the pulmonary artery

M. Simon, F. Drueschler, A. Kovacs, P. Hunold, K. May, J. Barkhausen, F. Voigt, Lübeck/DE

10:39
B-0112 Measuring aortic and pulmonary trunk diameters in epidemiologic research: do we need gadolinium and orthogonal slices?

B. Menzel, J.P. Kühn, S. Langner, R. Puls; Greifswald/DE

10:48
B-0113 Intraobserver and interobserver variability of CT-based volumetry and diameter measurements of abdominal aortic aneurysms after endovascular aneurysm repair

W.H. Sechser, M. Haack, F. Meinel, M.F. Reiser, R. Weidenhagen; Hannover/DE

10:57
B-0114 Screening for aortic root aneurysms in patients with suspected or known Marfan syndrome: intraindividual comparison of enhanced and unenhanced MR angiography with echocardiography

B-0115 Feasibility of time-resolved MR angiography with interleaved stochastic trajectories (TWIST) for the diagnosis of thoracic outlet syndrome
T.C. Lauterburg, L. Uermuli, A. Fischer, C. Pixeles, A. Quist, S. Kinner, Essen/DE

B-0116 Quantification of microvascular vessel wall characteristics of abdominal aortic aneurysms with MRI: feasibility, reproducibility and initial experience

B-0117 Using engineering, mathematical models and CT 4D imaging to understand the haemodynamic after aortic prosthesis insertion
L.V. Fedorowicz, M. Damman, C. Verheugen, B. Barbers, Milan/IT, 2Amersfoort/NL

B-0118 Dynamic (dCTA) versus static (sCTA) computed tomography angiography after abdominal aortic endovascular aneurysm repair (EVAR): influence of enhancement patterns and optimal bolus timing on endoleak detection

B-0119 One year after endovascular abdominal aortic aneurysm repair (EVAR) one third of the aneurysm sac still consists of unorganised thrombus in patients with and without detectable endoleak

B-0120 Validation of radially undersampled 5-point-encoded 4D flow MR (PC-VIPR) in thoracic aorta and main pulmonary artery

B-0121 Model-dependent differences in tumour perfusion CT

B-0122 Reduced time CT perfusion acquisitions are sufficient to measure the permeability surface area product with a deconvolution method
M.A. Mazzei, E. Sani, S. Guerrini, N. Coffi Squitieri, E. Federa, C. de Mauro, F.G. Mazzei, L. Wittermann, Geneva/CH, Florence/IT

B-0123 Improving image quality of volumetric helical perfusion CT at 100kV using spatiotemporal filtering: a strategy for dose reduction

B-0124 Improved imaging quality of volumetric helical perfusion CT at 100kV using spatiotemporal filtering: a strategy for dose reduction

B-0125 Functional imaging on an interventional C-arm flat detector CT system

B-0126 Virtual non-contrast in second-generation, dual energy computed tomography: reliability of attenuation values

B-0127 Characterisation of the biograph mMR

B-0128 Comparison of SPACE and 3D-TSE-MRCP regarding image quality and diagnostic certainty in patients in a routine clinical setting
F. Sehsba, L. Unger, G. Bonapart, J. Hohmann, B. Basler, Ot, London/UK

B-0129 Development of a tissue-equivalent phantom for standardisation of diffusion-weighted MRI
G. Wolf, M. Lamiote, N. Abolmaali, T. Paulus, Dresden/DE

B-0130 Towards standardisation of diffusion-weighted MRI: status survey across instruments using a tissue-equivalent phantom

B-0131 Sensitivity of cardiac magnetic resonance varies with clinical presentation of biopsy-proven acute myocarditis
G. Frusciante, M. Francione, I. Iampieri, B. Comi, A. Frustaci, C. Catalano, Rome/IT

B-0132 Hybrid PET/MRI in the assessment of cardiac viability: added value compared to PET/CT
B-0133 Is angiographic perfusion score assessed in patients with acute myocardial infarction correlated with cardiac magnetic resonance infarct size and N-terminal pro-brain natriuretic peptide in 6-month follow-up
A.A. Broniszewska-Czarnes, A. Urbanik, T. Rakowski, Krakow/PL

B-0134 In vivo MRI characterisation of the myocardium with a diffusion-weighted sequence in 3T
A. Al-Streich-Bayat1, A. Uiber, J. Sanchez-Gonzalez2, R. Sanz-Requena1, S. Costa1, L. Martin-Bonmati1, *Santiago de Chile/CL*, *Madrid/ES*

B-0135 Acute coronary syndrome with normal coronary arteries and positive enzymes; differential diagnosis with cardiac-MRI
M. Panku, S. Sbarbati, G. Camasta, N. Aladi, F. Marconi, S.W. Della Sala, *Rome/IT*

B-0136 Improved agreement between experienced and inexperienced observers using a standardised evaluation protocol for cardiac volumetry and infarct size measurement

B-0137 Magnetic resonance T1-mapping in acute myocardial infarction: from core to periphery

B-0138 Right ventricular involvement in acute left ventricular myocardial infarction: prognostic implications of cardiac MRI findings
S. Dueber, K.-F. Kreitner1, K. Oberholzer, T. Muenzel, T. Schlosser, C. Jensen, O. Bruder, K. Nassenstein, *Essen/DE*

B-0139 Value of cardiac magnetic resonance imaging in the normal myocardium: comparison of gadopentetate dimeglumine and gadobenate dimeglumine
A. Alberich-Bayarri1, S. Uribe2, J. Sanchez-Gonzalez3, R. Sanz-Requena1, *Valencia/ES*, *Santiago de Chile/CL*

B-0140 Partition coefficient for gadolinium chelates

B-0141 Automated detection and volumetric segmentation of the spleen in CT scans of patients with malignant lymphoma
M. Hammon, R. Janka, S. Selbert, M. Mariner, M. Uiber, A. Cavallaro, *Essen/DE*

B-0142 Assessment of a new 3D visualisation technique in CT colonography, the Funnel view, compared to standard interpretation strategies and other recent 3D rendering technologies
F. Chandelier1, L. Sterri1, T. Sabre,4, *Granda, QC/CA*, *Montreal, QC/CA*

B-0143 CT coronary angiography with 100kV tube voltage and a low noise reconstruction filter in non-obese patients: evaluation of radiation dose and diagnostic quality of 2D and 3D image reconstructions using open source software (OsiriX)
L. Chandelier1, M. Bianchi, P. Marracini, L. D’Erico, E. Neri, D. Caramella, C. Bartolozzi, *Pisa/IT*

B-0144 Image registration beyond PET/CT - advanced registration of x-ray - and MR-mammograms is feasible and provides morphological and functional information at a glance
M. Panku1, T. Hopp1, N.V. Ruter1, W.A. Kaiser1, P.A.T. Baltzer1, *Jena/DE*, *Karlsruhe/DE*

B-0145 Trabecular direction and deformation distribution in lung transplant patients with severe osteoporosis risk
L. Fischl1, J. Patsch1, A. Valentinitsch2, C. Schuebler-Weidemann3, B. Zwylicki1, F. Hamburger1, G. Lango2, *Vienna/AT*, *San Francisco, CA/US*

B-0146 Does JPEG lossy compression disguise cranial fractures?
M.F. M. Edwards1, T. Novikovskiy1, R. Boume1, M. Pietrzyk1, M. Evanov2, P. Brennan1, P. Fay1, *Sydney/AU*, *Tucson, AZ/US*

B-0147 Intra-operator variability of liver segment volumetry using vessel-based and plane-based techniques
I. Mateka1, A. Urbanik, T. Rakowski, A. Rovero1, A. Perenyi1, Z. Berenyi, A.A. Brzozowska-Czarnek, *Krakow/PL*

B-0148 Fast automatic computation of path proposals for CT-guided radiofrequency (RF) ablation of malignant liver tumours: initial clinical experience
D. Schmidt1, J. Bieberstein2, C. Schumann2, C. Trumm3, S. Clasen4, R. Courouce5, *Bremen/DE*, *Zurich/CH*, *Montreal, QC/CA*

B-0149 Evaluation of hepatic fatty infiltration with dual energy spectral CT
P. Liu1, H. Liu1, J. Liu1, J. Gao1, M. Ke2, *Zhengzhou/CH*, *Shanghai/CH*, *Beijing/CH*

B-0150 Impact of robust image processing to reduce error in computational haemodynamics
A.J. Jean, A.M. Garnaruto, A. Sequeira, *Lisbon/PT*
14:00 - 15:30  Room C

**Oncologic Imaging**

**SS 216  Colorectal cancer: assessing tumour behaviour**

Moderators: R.G.H. Beets-Tan, Maastricht/NL, P.A. Bonaffini, Monza/IT

14:00  B-0151  Rectal cancer: assessment of response to neoadjuvant chemoradiation by dynamic contrast-enhanced MR imaging


14:09  B-0152  Accuracy of gadofosveset-enhanced 3D T1W MRI for selection of ypT1-2 after chemoradiation for rectal cancer


14:18  B-0153  Rectal cancer: dynamic contrast-enhanced MRI correlates with lymph node status, distant metastases and EGFR expression


14:27  B-0154  High-b-value diffusion-weighted imaging with background body signal suppression: a pivotal role for the evaluation of complete response to neoadjuvant treatments in rectal cancer

L. Monguzzi, D. Ippolito, M. Colombo, P.A. Bonaffini, S. Sironi, Monza/IT

14:36  B-0155  Long-term outcome of MRI-based individualised treatment for rectal cancer: a multicentre study


14:45  B-0156  Diffusion-weighted MR imaging for prediction of early response of locally advanced rectal cancer to chemoradiation therapy


14:54  B-0157  Vascular mapping using an MRI blood pool contrast agent reveals vascular asymmetry and chemoradiotherapy-induced vascular remodelling in the mesorectum of rectal cancer patients


15:03  B-0158  Assessment of preoperative radio-chemo therapy (pCRT): a novel numerical semi-quantitative DCE-MRI parameter compared with morphologic MRI (mMRI) and qualitative time intensity curves (tMRI)

M. Petrillo, R. Fusco, V. Granata, G. Esposito, A. Tartaro, A.R. Cotroneo, Chieti/IT

15:12  B-0159  Treatment monitoring in LARC: role of diffusion-weighted imaging and 18-FDG-PET-CT in evaluation of tumour regression grade during and after CRT

L. Monguzzi, D. Ippolito, L. Guerra, E. De Ponti, C. Messa, S. Sironi, Monza/IT

15:21  B-0160  Lymph node staging in colorectal cancer by contrast-enhanced CT: development of a new reporting model for higher diagnostic accuracy

A. Bartels, E. G çevirmann, S. Hoffmann, J.H. Manksen, F.M. Voigt, A. Kovacs, P. Hunold, Lübeck/DE

14:00 - 15:30  Room D1

**SS 204  Pulmonary nodules**

Moderators: M. Das, Maastricht/NL, B. Feragalli, Chieti/IT

14:00  B-0161  Iodine uptake ratio (IUR): a novel approach to differentiate between malignant and benign lung lesions


14:09  B-0162  Newly developed mathematical model for perfusion CT using 320-detector row CT in patients with pulmonary nodules: comparison of diagnostic capability with previously utilised models for first-pass perfusion CT and FDG-PET/CT


14:18  B-0163  Evaluation of adaptive iterative dose reduction (AIDR) for lung nodule detection in ultra-low-dose thoracic CT

N.S. Paul, H. Mehrizi, M. Hashemi, A. Alhumayyd, G. Murphy, R. Cobbold, Toronto, ON/CA

14:27  B-0164  Small pulmonary nodules less than 7mm: how to distinguish malignancy and benignity?

K. Zhou, G. Jin, Q. Fan, J. Lee, Jeonju/KR

14:36  B-0165  Differentiating subsolid and solid pulmonary nodules on CT: inter- and intraobserver agreement among experienced thoracic radiologists


14:45  B-0166  Which solitary ground-glass opacity pulmonary lesion necessitates invasive investigation?

R. Rozenberg, I. Kogan, M. Leiderman, A. Engel, L. Guralnik, Haifa/IL

14:54  B-0167  Computer-aided detection of ground glass nodules in lung cancer screening: retrospective evaluation of potential benefit


15:03  B-0168  New gold-standard for designing a CXR CAD algorithm for lung nodules and assessing its performance

P. Sehgal, I. Schaefer, A. Manevitch, N. Bogot, R. Lederman, Happy Valley/HK

15:12  B-0169  Computer-aided lung nodule volumetry: can MDCT be replaced by highfield MRI at 3T?

Local control of focal hepatic malignancies treated with microwave ablation with a high-power applicator system in 151 patients

14:00 - 15:30 Room E1
Musculoskeletal

SS 221 MRI of ligaments, tendons and muscles
Moderators: M. Reijnierse, Leiden/NL, V. Zubler, Zurich/CH

B-0180 The use of diffusion-weighted and dynamic contrast-enhanced MRI for quantitative evaluation of the tibial tunnel after anterior cruciate ligament reconstruction with intraoperatively administered platelet-rich plasma gel

14:00

B-0182 Dedicated 0.31 T MR vs. whole body 1.5 T MR in the diagnosis of meniscal lesions with arthroscopic correlation

14:09

B-0183 Sodium (23Na) MRI of Achilles tendon disease at 7 Tesla: preliminary results

14:18

B-0184 Ankle cartilage: correlation between T2 value and ligament injury

14:27

B-0185 Rhabdomyolysis revisited: magnetic resonance (MR) imaging finding in detail

14:36

B-0186 Magnetic resonance quantitative monitoring of muscle healing through diffusion tensor imaging (DTI) and T2-mapping assessment

14:45

B-0187 Quantitative magnetic resonance imaging of the lower limb muscles in Duchenne muscular dystrophy: a new approach for monitoring the disease progression and response to therapy

15:03

B-0188 In-vivo assessment of skeletal muscle ischaemia in diabetic rats by MR angiography, MR imaging and proton MR spectroscopy

15:12
**B-0189** Quantitative assessment of fat infiltration in the rotator cuff muscles using MRI

**B-0190** Lesions of the biceps pulley: diagnostic accuracy of MR arthrography of the shoulder and evaluation of new and established diagnostic criteria

**B-0191** Dynamic MRI defecography vs. entero-coloprocysto-defecography in the evaluation of midline pelvic floor hernias in female pelvic floor disorders
G. Di Grezia, G. Gatta, R. Lieto, F. Iacobellis, L. Urciuoli, V. Parlato, R. Grassi, A. Rotondo; Naples/IT

**B-0192** Improving anorectal angle measurement reproducibility by a semi-automated method
M.A. Alkubeyyer1, B.J. Erickson2, J.G. Fletcher2; 1Riyadh/SA, 2Rochester, MN/US

**B-0193** Scattered radiation doses to operators performing fluoroscopic studies on bariatric patients
M.A. Bühler, A. Serjeot, D. Blunt, L. Morris; London/UK

**B-0194** Early MRI findings of small bowel obstruction: an experimental study
L. Tang, X.-P. Zhang, Y.-S. Sun, Z.-Y. Li, J.-F. Ji, X.-T. Li, Y.-Q. Liu, Q. Wu; Beijing/CN

**B-0195** Contrast-enhanced ultrasound for differential diagnosis of suspected GvHD in patients after allogeneic transplantation
L.M. Bende, K. Landfried, E.M. Jung, N. Platz Batista da Silva, C. Friedrich, C. Stroczczyński, A.G. Schreyer; Regensburg/DE

**B-0196** MRI sinography/fistulography is a newer and less used technique for imaging patients with sinus/fistulas when compared to conventional sinography/fistulography but more helpful and accurate without radiation
H.P. Parekh, N.U. Bahri, D.P. Vasavada; Jamnagar/IN

**B-0197** Sandwich sign of Borrmann type 4 gastric cancer on diffusion-weighted magnetic resonance imaging
L. Tang, X.-P. Zhang, Y.-S. Sun, Z.-Y. Li, J.-F. Ji, X.-T. Li, Y.-Q. Liu, Q. Wu; Beijing/CH

**B-0198** Acute mesenteric ischaemia: do different findings suggest different aetiology? TT-MRI on a rat model
D. Bentito, F. Somma, F. Iacobellis, M. Belfiore, S. Cappabianca, A. Rotondo, R. Grassi; Naples/IT

**B-0199** Early MRI findings of small bowel obstruction: an experimental study
F. Iacobellis, D. Bentito, F. Somma, M.P. Belfiore, S. Cappabianca, A. Rotondo, R. Grassi; Naples/IT

**B-0200** Contrast-enhanced ultrasound for differential diagnosis of suspected GvHD in patients after allogeneic transplantation
L.M. Bende, K. Landfried, E.M. Jung, N. Platz Batista da Silva, C. Friedrich, C. Stroczczyński, A.G. Schreyer; Regensburg/DE

**B-0201** Impact of 4th generation iterative reconstruction techniques on image quality in low-dose computed tomography of the upper urinary tract

**B-0202** CT virtual hysterosalpingography: experience in 5000 cases
J. Vallejos1, P. Carrascosa1, C. Capurrosa2, A. Vasconcellos3, M. Baronio4, S. Pápp4, V. Coaccaro5; 1Vicente Lopez/AR, 2Vicente Lopez/AR

**B-0203** Detectability of small urinary stones on virtual nonenhanced images with different slice thickness, generated at pyelographic phase dual energy CT
S. Lim, Y. Lee, S. Moon, D. Kang, S. Wee, M. Kim; Ilsan/KR

**B-0204** CT in urorolithiasis: potential of dose reduction and impact on image quality using iterative reconstruction
J. Hansmann, G.M. Schoeppler, T. Herholz, H. Haubenreisser, M. Reichert, U.T. Außenberger, S.O. Schönberg, C. Fink; Mannheim/DE

**B-0205** Dual energy split-bolus CT for the detection of urinary stone disease. One phase acquisition: threefold information
P. Stolzmann, R. Schanzer, T. Wirsching, M. Fischer, H. Alkadhi, C. Karlo; Zurich/CH

**B-0206** Can virtual non-contrast images of dual energy CT replace true non-contrast images in evaluation of renal pathologies
H.S. Teh, S.N. Shikhare, P.P.L. See, K.K. Yeow; Singapore/SG

**B-0207** Triple bolus technique with dual energy MDCT: a new perspective in CT urography
H.S. Teh, S.N. Shikhare, P.P.L. See, K.K. Yeow; Singapore/SG

**B-0208** The diagnostic accuracy of multidetector computed tomography with multiplanar reformatted imaging and virtual cystoscopy in the early detection and evaluation of bladder carcinoma
M.F. Amin, A.A. Abd El Kafy; Elminya/EG
B-0209 Evaluation of diagnostic strategies for diagnosing bladder cancer using CT urography, flexible cystoscopy and voided urine cytology: results for 778 patients

14.00 - 15.30 Room F2

Breast

SS 202a New technologies
Moderators: P. Panizza, Milan/IT, E. Szabol, Szeged/HU

14.00
B-0210 Contrast-enhanced spectral mammography versus MRI in tumour size assessment: initial results

14.09
B-0211 Differential phase contrast mammography: a new tool for breast imaging

14.18
B-0212 Pilot study for the detection of simulated lesions at a 2D resp. 3D digital full-field digital mammography system with a new developed high-resolution detector on the base of two shifts of a-Se
P. Schütte-Wendland, M. Meier-Meltinger, M. Heinz, B. Adamsmeit, M. Uder, S. Schwab, Erlangen/DE

14.27
B-0213 Digital mammography with a new needle-based detector system: clinical results after a one-year trial
C. Pfister, M. Hittinger, M. Koerner, U. Linsenmaier, M.F. Reiser, Erlangen/DE

14.36
B-0214 Mammographic texture resemblance generalises as an independent risk factor of breast cancer

14.45
B-0215 Tomosynthesis elastography: evaluation of a novel elastography technique on simulated tumours in breast-mimicking phantoms
F. Engelken, I. Simon, T. Fischer, M. Fällenberg, F. Diekmann, Munich/DE

14.54
B-0216 Functional infrared imaging of the breast: automatic breast cancer detection using multiparametric computer analysis
M. Stampaoni, T. Sella, M. Cohen, M. Rosin, T. Alwense, M. Shapoval, E. Libson, D. Tzahary, Ramirez Guri, Jerusalem/IL, Petach Tikva/IL, Tel Aviv/IL, Rehovot/IL, Yifar Sava/IL, Air Port City/IL

15.03
B-0217 Molecular breast imaging (MBI) dose lowered to match mammography: potential for screening dense breasts

15.12
B-0218 Non-invasive differentiation of small breast lesions via 3D MT imaging

15.21
B-0219 Fusion of US and FDG-PET/CT image for evaluation of loco-regional recurrence of breast cancer using real-time virtual sonography (RVS): first experience

14.00 - 15.30 Room G/H

Breast

SS 202b MRI: contrast media and clinical applications
Moderators: R.M. Mair, Nijmegen/NL, J.L. Raya Povedano, Córdoba/ES

14.00
B-0220 Influence of breast parenchyma density on malignant lesion detection with gadobenate dimeglumine-enhanced MRI compared to gadopentetate dimeglumine-enhanced MRI, mammography and ultrasound

14.09
B-0221 Intra-individual, randomised comparison of the MRI contrast agents Gadovist® 1.0 versus MultiHance® for pre-operative breast MR imaging, evaluated in a blinded read

14.18
B-0222 Does preoperative MRI in breast cancer increase the rate of mastectomy?

14.27
B-0223 The role of preoperative MRI in breast cancer: is the menopausal status of relevance?

14.36
B-0224 Impact of T-stage on lesion characteristics and overall diagnostic accuracy of breast MRI: does size really matter?

14.45
B-0225 Breast MRI and ductal carcinoma in situ: when can we expect to have no enhancement?
15:03
B-0227 Dynamic contrast enhancement MRI as a predictive and surrogate marker of pathological complete response of neoadjuvant treatment for locally advanced breast cancer
S. Pezz M. Capelain, S.-I. Choi, M. Parraian, M. Lemort, Brussels/BE

15:12
B-0228 Conventional and diffusion-weighted magnetic resonance imaging in predicting residual disease after neoadjuvant chemotherapy in patients with breast cancer
P. Petrolo, J. Raimondi, M. Filippi, M. Colleoni, E. Cassano, M. Belloni, Milan/IT

15:21
B-0229 Diffusion weighted imaging (DWI) as a mammary carcinoma characteristic: association of apparent diffusion coefficient (ADC) and pathological outcome in patients treated with neoadjuvant chemotherapy
V.H.P. Tran, M. Volmerink, A. Imholz, M. Louwen, R. van Dijk, Deventer/NL

14:00 - 15:30 Room I/K
Abdominal Viscera
SS 201b CT technique
Moderators: A. Alcalà-Galiano, Madrid/ES, S. Stojanovic, Novi Sad/RS

14:00
B-0230 Variability of CT contrast enhancement in the pancreas: a cause for concern?
L. Deprez1, P. Blanckaert1, D. Mertens2, P. Duyck1, Gent/BE, Brussels/BE

14:09
B-0231 Measurement of transplanted pancreatic volume by computed tomography: reliability by intra- and inter-observer variability
E. Lundqvist, A.-R. Biglarnia, M. Segelsjo, A. Magnusson, Uppsala/SE

14:18
B-0232 Evaluation of quantitative perfusion map, with CT-perfusion technique, as an early predictor for tumour response to radiofrequency ablation in patients with HCC lesions: initial results
D. Ippolito, P. Bonaffini, C. Capraro, M. Meloni, S. Sironi, Monza/IT

14:27
B-0233 Hypervascular liver lesion at dual energy CT: enhancement evaluation at different tube voltages
A. Colleoni, A. Scrimieri, R. Maroldi, P. Cabassa, Brescia/IT

14:36
B-0234 Multi-organ perfusion CT in the abdomen using a 320-detector row CT scanner: preliminary results of perfusion changes in the liver, spleen, and pancreas of cirrhotic patients
K. Sando, G. Molinosu, M. Moriyama, H. Sou, T. Ichikawa, T. Araki, Tsu, Mie/JP

14:45
B-0235 Influence of different iteration levels in fourth generation iterative reconstruction technique on image noise in CT examinations of the abdomen

14:54
B-0236 Reducing x-ray dose for liver perfusion on an extended coverage multi-slice CT with a relaxed temporal resolution
Y. Gu1, Z. Zhou2, T. Chen2, Y. Guo3, X. Su4, J. Li4, Zhengzhou/CH, Beijing/CH

15:03
B-0237 Abdominal CT with model based iterative reconstruction: comparison with adaptive statistical iterative and filtered back projection reconstruction

15:12
B-0238 Is it available, by iodine concentration of the active part of renal mass, for differentiation between renal angioleiomyolipoma and renal cell carcinoma?
J. Sun1, X.-T. Li2, C. Yang, X.-Y. Zhang, S.-Y. Gao, Z.-L. Wang, Y.-S. Sun, X.-P. Zhang, Beijing/CH

15:21
B-0239 Low dose unenhanced MDCT with radiation dose equivalent to abdominal radiograph in evaluation of acute flank pain
S. Goel1, A. Tandon, G. Mehrotra, S.K. Bhardwaj, S. Bhattacharya, S. Singh, New Delhi/IN

14:00 - 15:30 Room L/M
Cardiac
SS 203a Perfusion, CT and MRI
Moderators: M. Francione, Rome/IT, M. Gardansdottir, Reykjavik/IS

14:00
B-0240 Quantification of regional myocardial perfusion at different levels of coronary flow in a large animal model using dynamic perfusion CT
A. Rossi1, E. Rizzoli1, O. Merkus2, A. Uittertijt1, N.R. Mollet1, P. de Feyter1, D. Duncker1, G.P. Krestin1, Rotterdam/NL, Forchheim/DE

14:09
B-0241 Myocardial perfusion MRI at 3T using kt-BLAST in patients with coronary artery stenoses of unclear haemodynamic relevance

14:18
B-0242 Quantification of myocardial ischaemia and infarcts by adenosine stress 128-high-pitch DSCT

14:27
B-0243 Dynamic CT perfusion imaging of the myocardium using a wide detector CT scanner: first results
D. Muenzel1, P.B. Noel1, V. Renz1, B.M. Gramer1, M. Vembar2, T. De Zordo1, F. Vega-Higuera2, R.P. Goetti3, A. Plass3, F. Plank1, A. Klauser1, S. Leschka1, H. Alkadhi4, G. Feuchtner1, Innbruck/AT, St. Gallen/CH, Boston, MA/US

14:36
B-0244 Dynamic CT perfusion imaging of the myocardium: comparison of reconstructions from 180° and 360°
D. Muenzel1, P.B. Noel1, B.M. Gramer1, V. Renz1, M. Vembar2, A.A. Fingerle1, E.J. Rummeny1, A. Huber1, Munich/DE, Highland Heights, OH/US
**14:00 – 15:30 Room N/D**

**Vascular**

**SS 215** New aspects in vascular imaging
Moderators: V. Caritsani, Rome/IT, P. Vilares Morgado, Porto/PT

14:00 B-0250 Estimated radiation dose reduction for prospective electrocardiography-triggered dual source CT angiography of the thoracic aorta using iterative reconstruction: a prospective study

14:09 B-0251 Clinical evaluation and potential radiation dose reduction of the novel sinogram-affirmed iterative reconstruction technique (SAFIRE) in abdominal computed tomography angiography

14:18 B-0252 Higher iodine concentration permits dose reduction while increasing contrast-to-noise-ratio in high-pitch, wide-range CT angiography
F. Schwarz, F. Grandi, A. Arnold, W.H. Sommer, F. Bamberg, M.F. Reiser, H.-C. Becker, Munich/DE

14:45 B-0253 Low-dose multidetector-row CT angiography in the evaluation of infrarenal aorta and peripheral arterial occlusive disease
M. Berti, R. Iozzi, M. Santoro, R. Marano, C. Di Stasi, L. Bonomo, Rome/IT

14:36 B-0254 Imaging findings in a distinct lethal inherited arteriopathy syndrome associated with a novel mutation in Fibulin4 gene
R. Balenbhenkin1, K. Mahesh1, C. Kulkarni1, S. Moorthy1, K.P. Sreekumar1, A.D. paepe1, S. Nampoothiri1, Coche1, W. Gent/BE

14:45 B-0255 Perfusion system for ex-vivo investigation of human vessels
G. Edehauser, G. Erman, C. Domeng, D. Berzacy, M. Popovic, R. Borny, J. Lammer, M. Fornicos, Vienna/AT

14:54 B-0256 Interobserver agreement of whole body MR angiography for the depiction of atherosclerosis
T.C. Laenger, C. Odenhausen, A. Quinster, M. Forniss, S. Ladd, Essen/DE

15:03 B-0257 Intraindividual comparison of whole body MR angiography at 1.5 and 3 Tesla in high risk patients with hereditary hyperlipidaemia

15:12 B-0258 Pulse wave velocity measurements in 5-point velocity encoded radially undersampled 4D phase contrast MR data (PC-VIPR)
A. Tripkovac1, AL. Bentil1, P.M. Johnson2, C.J. Francois2, T.A. Grist2, O. Wieben2, Madison, WI/US, Lubeck/DE, Madison, WI/US

15:21 B-0259 Image quality and radiation dose of BMI-adjusted peripheral CT-angiography with 80/100 kVp compared to a standard protocol with 120 kV
M.M. All, M. Simon, F.M. Vojt, P. Hummel, J. Balagh-Ahman, A. Novacs, Lubek/DE

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**14:00 – 15:30 Room Q**

**Cardiac**

**SS 203b** Valvular and congenital heart diseases
Moderators: M. Oudekerk, Groningen/NL, E. Woo, Aylesbury/UK

14:00 B-0260 Aortic valve calcium scoring (AVCS) is a predictor of significant paravalvular aortic insufficiency in transapical aortic valve implantation (TAVI)
L. Schmutz1, M. Haensig1, J. Rastan1, J. Kempfert1, C. Mukherjee1, D.M. Holzhey1, M. Grothoff1, F.W. Mohr1, M. Gutberlet1, Leipzig/DE

14:09 B-0261 Morphological assessment of the aortic valve using cardiovascular computed tomography and cardiovascular magnetic resonance in patients with severe aortic stenosis: comparison with intraoperative finding

14:18 B-0262 Cardiac magnetic resonance for evaluation of bicuspid aortic valve morphology
R. Panda1, R. Schwakopf1, A. Pauline1, P. Annesio1, F. Cesareani1, G. Gandini1, Turin/IT, Asi/IT
14:27
B-0263 MR assessment of pulmonary (QP) to systemic (QS) flow using 4D phase contrast technique: comparison with conventional through-plane 2D phase contrast technique

14:36
B-0264 Computed tomography evaluation of possible intra-procedural obstruction of the coronary ostia by the aortic valve leaflets during transapical aortic valve implantation

14:45
B-0265 Right ventricular hypertrophy after atrial switch operation and its role in a systemic RV: normal adaptation process or risk factor? A cardiovascular magnetic resonance study
M. Grothoff, J. Hoffmann, M. Gutberlet, Leipzig/DE

14:54
B-0266 Cardio-vascular MSCT angiography in newborns with known or suspected congenital heart disease applying mean effective doses of 0.36 mSv
T. Klink, G. Müller, J. Weil, G. Adam, T.A. Bley, Hamburg/DE

15:03
B-0267 In-vivo imaging characteristics of a transcatheter heart valve prosthesis with multislice computed tomography

15:12
B-0268 The diagnostic value of dual source CT in complex congenital heart disease
S.-X. Ou, D.-S. Luo, G.-M. Peng, M. Qian, Guangzhou/CN

15:21
B-0269 X-ray-induced DNA double-strand breaks in lymphocytes of children undergoing cardiac flat-panel CT and angiography
M. Brand, M. Bloechler, M. Sommer, C. Einert, M. Uder, M.A. Kuefner, Erlangen/DE
B-0270 Evaluation of dual energy CT lung perfusion-maps: a correlation with V/Q scan and lung parenchymal changes

B-0271 Usefulness of vascular iodine distribution maps in the diagnosis of pulmonary embolism
J.E. Bosso, H.S. Teh, Singapore/SG

B-0272 Pseudo-embolic perfusion defects in COPD: evaluation with dual energy CT angiography (DECT) in 170 patients
F. Pontana, E. Chalayer, J.-B. Fauve, C.-F. Murphy, M. Rémy-Jardin, J. Remy, Lille/FR

B-0273 Frequency and origin of lung perfusion defects on dual energy computed tomography (DECT) in an unselected patient group
A.E. Gitto, M. Roissard, W. Vermuele, C.M. Schaefer-Proksch, I. Hadamitzky, Rotterdam/NL, 'Amsenfoort/NL

B-0274 Impact of iodine delivery rate with varying flow rates on dual energy CT image quality in patients with suspected pulmonary embolism
J. Hansmann, C. Fink, M. Meyer, P. Apfaltrer, S.O. Schönberg, T. Henzler, Mannheim/DE

B-0275 Pulmonary embolism at dual source CT angiography: do we overdose?

B-0276 80-kVp 16-MDCT to diagnose pulmonary embolism with minimised radiation dose

B-0277 Dose reduction in CT pulmonary angiography: is it safe to limit scan coverage?
J. Nakajima, P. Fedjrajt, D. Ideida, R. Mary, M. Hashemi, N.S. Paul, Toronto/CA

B-0278 Raw-data-based iterative reconstruction for chest computed tomography (CT) angiography: comparison of low-dose low-kV iterative reconstruction CT and standard-dose filtered back projection CT in 80 patients

B-0279 Image quality and radiation dose optimisation for high-resolution CT pulmonary angiography using 100kVp and automatic exposure control

B-0281 Accuracy of CT-guidance for lumbar facet blocks

B-0282 Extrapleural paravertebral CT-guided fine needle biopsy of subarcinal lymph nodes
W.M. Hutter, A.A. Beiranvand, M.A. Mohamed, E.H. El-Geneine, Cairo/EG

B-0283 Sphenopalatine ganglion alcohol neurolysis under CT guidance in the management of craniofacial pain with loop gastropexy and peel-away sheath trocar technique in amyotrophic lateral sclerosis patients

B-0284 Initial experience of a novel CT fluoroscopy-guided percutaneous gastrostomy technique in patients
M. Weininger, J. Mills, Z. Rumboldt, W. Huda, A. Cianfoni, Regensburg/DE

B-0285 Tailored interactive sequences for continuous MR-image-guided freehand biopsies of different organs in an open system at 1.0 Tesla: preliminary results
M. de Bucourt, F. Streitparth, U. Teichgräber, Berlin/DE

B-0286 Percutaneous drainage after CT-guidance of deep abscess using a blunt-tip introducer
C. de Bazelaire, F. Sabattier, A. Scemama, A. Pluvinage, Paris/FR

B-0287 Towards cardiovascular interventions guided by magnetic particle imaging (MPI): first instrument characterisation

B-0288 Percutaneous MR-guided cryoablation of prostate cancer: technical feasibility and preliminary results

B-0289 Clinical importance of CT-assisted sympatheticolysis in primary, focal plantar and palmar hyperhidrosis
SS 510 Ultrasound
Moderators: D. Mikšić, Zagreb/HR; G. Turóczy, Budapest/HU

10:30
B-0290 Sonoeastography can help in the evaluation of supraspinatus tendon degeneration
C. Martina, E. Fabbro, G. Ferrero, D. Orlandi, E. Silvestri; Genova/IT

10:39
B-0291 Clinical indications for musculoskeletal ultrasound: consensus paper of the European Society of Musculoskeletal Radiology
A. Klauser1, A. Tagliafico2, G.M. Allen3, N. Boutry4, R. Campbell5, C. Cyteval; Montpellier/FR

10:48
B-0292 Factors influencing quantitative values of contrast-enhanced ultrasound and correlations with clinical values in rheumatoid arthritis
C. Cottle; Montpellier/FR

10:57
B-0293 CEUS evaluation in the pseudarthrosis before and after treatment with autologous transplantation of bone marrow stem cells: preliminary results
S. Pozza1, A. De Marchi1, M. Petra2, I. Alo, G. Brino, C. Faletti1; Turin/IT, Pavia/IT

11:06
B-0294 Visualisation of myofascial trigger points in low back muscles by real-time sonoelastography
N.M. Abdel Razek1, O. Kattabei2, M.K. Nassif3, M. El Lithey4; Cairo/EG

11:24
B-0295 Sonographic-guided treatment of rotator cuff delamination tears using autologous blood: a one-year follow-up study assessing radiological features, pain scores and shoulder function
W.A. Bashir, D. Connell; London/UK

11:33
B-0296 Evaluation of echo-guided autologous platelet gel (APG) treatment in patients with tendinosis
S. Pozza, I. Gregori, F. Ameghino, A. La Marra, L. Zugaro, A. Barile, C. Masciocchi; Genoa/IT

11:42
B-0297 Combined ultrasound(US)-guided percutaneous treatment of epiplochitis: a randomised controlled trial
D. Orlandi1, E. Fabbro1, C. Martina1, G. Ferrero1, L.M. Sconfienza1, C. Martini1, E. Silvestri1; Genova/IT, 'San Donato Milanese'/IT, 'Pietra Ligure', SV/IT

11:51
B-0298 A new minimally invasive safe and reproducible technique for management of cervical radiculopathy: ultrasound-guided cervical transforaminal epidural nerve root injections
W.A. Bashir, D. Connell, London/UK

B-0299 Meralgia paresthetica: ultrasound-guided injection with 12-month follow-up data
R. Faschingbauer, C. Niederbrantzer, G. Feuchtner, C. Martini1, W. Jaschke, A. Klauser1; Wünsbruch/AT, Genova/IT

SS 507 Gynaecological MR imaging
Moderators: C.D. Ait; Heidelberg/DE; S. Barten; Cambridge/UK

10:30
B-0300 MR imaging of the normal endometrium: do apparent diffusion coefficient values change among the portions of the uterus and over the phases of the menstrual cycle?
F. Formico, F. Portalone, A. Bibiiedetto, N. Schio, A. Quaglia; S. Bonifacio/IT

10:39
B-0301 Scaled signal intensity of uterine fibroids in T2-weighted MR images; new objective parameter to determine the suitability for magnetic resonance-guided focused ultrasound surgery of uterine fibroids
S. Pozza, S. Kim; Daegu/KR

10:48
B-0302 Deeply infiltrating endometriosis: evaluation of retrocervical space on MRI after vaginal opacification
Y. Fiaschetti, A. Menchini, S. Cruscio, V. Cama, L. Di Vito, G. Simonetti; Rome/IT

10:57
B-0303 MRgFUS treatment of uterine leiomyomas: results of a one-year follow-up study
A. Kim, C. Kim, B. Park, S. Huh, Y. Chong, Y. Choi; Seoul/KR

11:06
B-0304 MRguided focused ultrasound surgery of uterine fibroids
B. Kwon, S. Kim, B. Rho, E. Ahn; Daegu/KR

11:15
B-0305 Combined diffusion-weighted magnetic resonance imaging and MR lymphography reliably detect and evaluate sentinel lymph node in cervical cancer
Z. Zhou, H. Yu, B. Zhu, Y. Hong; Nanjing/CN

11:24
B-0306 Evaluation of therapeutic response to concurrent chemoradiotherapy in cervical cancer using blood oxygenation level-dependent MR imaging at 3T: preliminary experience
A. Kim, C. Kim, B. Park, S. Huh; Seoul/KR

11:33
B-0307 Preoperative staging of patients with cervical carcinoma: comparison of magnetic resonance imaging and histopathologic evaluation
B. Ranko, R. Milerovic, M. Krtasovic-Dunja, G. Lilic, J. Djakic-Kovac, R. Milerovic; Belgrade/RS

11:42
B-0308 Dynamic contrast-enhanced imaging for evaluation of therapeutic response to concurrent chemoradiotherapy in cervical cancer
Y. Fiaschetti, J. Min, C. Kim, B. Park; Seoul/KR

11:47
B-0309 Correlation between tumour size and surveillance of lymph node metastasis for Ib and Ila cervical cancer by MRI
B. Kwon, S. Kim, B. Rho, A. Ahn; Daegu/KR
**Breast**

**SS 502  Ultrasound: new developments**

10:30 - B-0310 Additional breast ultrasonography (US) to negative mammography: impact on cancer detection and invasive assessment rate
V. Girardi, M. Tonegutti, E. Manfrin, F. Bonetti; Peschiera del Garda/IT

10:39 - B-0311 Diagnostic assessment of digital mammography screening: evidence on incremental breast cancer detection by bilateral ultrasound examination
S. Weigel, W. Heindel, C. Biesheuvel; Muenster/DE

10:48 - B-0312 Additional breast ultrasonography (US) in asymptomatic women with negative mammography: are there risk categories that benefit more than others?
V. Girardi, M. Tonegutti, E. Manfrin, F. Bonetti; Peschiera del Garda/IT

10:57 - B-0313 Lesion detection in 3D-US automated breast volume scans (ABVS): correlation with breast MRI
T.A. Fassaert, I.J.M. Dubelaar, M.D.F. de Jong, G.J. Jager, M.J.C.M. Rutten; Den Bosch/NL

11:06 - B-0314 Automated whole breast ultrasound: radiologists’ detection performance and interobserver variability
H. Kang, S. Kim, B. Kang; Seoul/KR

11:15 - B-0315 What is pathology underlying stiffness? Ultrasound elastography of a human breast cancer model, with pathological correlation

11:24 - B-0316 ShearWave™-elastography worldwide breast trial model - can additional SWE-features support downgrading BI-RADS 3 to BI-RADS 2?

11:33 - B-0317 Is shear wave elastography (acoustic radiation force impulse) able to improve the assessment of BI-RADS 4 breast solid lesions?
W. Benraiss, N. Canale, P. Veltri, M.-C. Mathieu, S. Delaloz, C. Balleyguier, Villejuif/FR

11:42 - B-0318 Lesion characteristics and histopathological factors affecting diagnostic performance of breast ultrasound elastography
L.C.M. Leong, E.S. Sim, S.M.C. Foo, C.-H. Ang, A.B. Jara-Lazaro, P.H. Tan; Singapore/SG

11:51 - B-0319 Utility of second-look US with real-time virtual sonography (RVS) for MRI-detected lesions of the breast

**Neuro**

**SS 511  Ageing, degenerative disorders and epilepsy**
Moderators: T. Stoica-Spinalu, Belgrade/RS, T. Tourdias, Bordeaux/FR

10:30 - B-0320 Regional cortical thickness deterioration in elderly healthy persons from AIBL MRI 3T data: a MRI study using brain surface intensity model (BSIM)

10:39 - B-0321 Arterial spin labelling perfusion magnetic resonance (MR) imaging contributes to the early diagnosis of dementia

10:48 - B-0322 1H MRS and DWI for differentiation of Parkinson’s disease (PD) from parkinsonian syndromes (PS)
Z.Z. Rozhkova, M. Shkliar; Kiev/UA

10:57 - B-0323 Test-retest reliability of resting-state networks in healthy elderly subjects and MCI patients

11:06 - B-0324 Multi-tracer PET early frames as a functional marker in Alzheimer’s disease
V. Abreu, S. Carter, A. Nordberg; Geneva/CH, Stockholm/SE

11:15 - B-0325 T2 relaxometry (on 3.0T MR) made temporal lobe epilepsy diagnosis easy
J. Blautzik, D. Keeser, A. Berman, M. Paolini, M. Persch, S. Mueller, M.F. Reiser, S. Teipel, T. Merrell; Munich/DE, Rostock/DE

11:24 - B-0326 Hippocampal malrotation: not everything is mesial sclerosis

11:33 - B-0327 Cerebellar changes in essential tremor patients detected by magnetic resonance spectroscopy
I. Latnerova, J. Keller, A. Rulseh, F. Jiru, A. Skoch, M. Hosikova, E. Rozicka, J. Vymazal; Prague/CZ

11:42 - B-0328 Diffusion tensor imaging and voxel-based morphometry in Parkinson disease
A. Efimtsev, V. Fokin, A. Trufanov, A. Pashkova, D. Khaimov; St. Petersburg/ RU

11:51 - B-0329 The relation of neuroimaging findings in carbonic anhydrase type II deficiency syndrome to cognitive disturbance and visual loss
Abdominal Viscera

SS 501  Liver (non primary lesions)

Moderators: B.J. Op de Beeck, Antwerp/BE, A. Siemianowicz, Piekary Śląskie/PL

10:30
B-0330 Paradoxical uptake of Gd-EOB-DTPA on the hepatobiliary phase in the evaluation of hepatic metastasis from breast cancer: is the “target sign” a common finding?

10:39
B-0331 Detection of colorectal hepatic metastases using Gd-EOB-DTPA MR imaging and diffusion-weighted imaging (DWI) alone and in combination in patients after chemotherapy treatment
A. Macera, M. Petracchini, A. Balbo Mussetto, A. Fornari, C. Lario, T. Gallo, S. Cirillo; Turin/IT

10:48
B-0332 Multi-center, randomised comparison study to evaluate outcomes and resource needs of imaging and treatment following Gd-EOB-DTPA-enhanced MRI of the liver in comparison to extracellular contrast media (ECCM)-enhanced MRI and contrast-enhanced multidetector computed tomography (MDCT) in patients with a history of colorectal cancer and known or suspected metastasron liver metastases: the value study
C. Zech, S. Gschwend, A. Ba-Ssalamah; Munich/DE, Berlin/DE, Vienna/AT

10:57
B-0333 Kinetics of Gd-EOB-DTPA in liver lesions suspect for metastases: a systematic comparison of raw data with arterial-input-function corrected data
P.A.T. Baltzer, M. Benndorf, W.A. Kaiser, M. Dietzel; Jena/DE

11:06
B-0334 Detection of colorectal liver metastases: sensitivity of T2-weighted and diffusion-weighted imaging using pathological examination as method of reference in a rat model
M. Wagner, L. Maggiori, M. Ronot, V. Vilgrain, Y. Panis, B.E. Van Beers; Clichy/FR

11:15
B-0335 Impact of contrast-enhanced intraoperative ultrasound on operation strategy in case of colorectal liver metastasis
A. Schulz, R. Diemagn, A. Bjinne, K. J. Bor, N. E. Qian, Oslo/NO

11:24
B-0336 Diffused-weighted MRI for quantification of liver fibrosis

Magnetic resonance assessment of functional changes in liver perfusion related to intrahepatic islets transplantation (islet-tx) and clinical outcome: preliminary results

Vascular

SS 515  Imaging in vascular diseases

Moderators: H.K. Ahlström, Uppsala/SE, O. Pellerin, Paris/FR

10:30
B-0340 Impact of cardiovascular risk factors and vessel wall inflammation on atherosclerotic disease progression: a PET/CT study

10:39
B-0341 Diagnosis of large vessel vasculitis with 18F-FDG PET/CT: single centre experience on 64 patients
U. Rozzanigo, A. Pellegrin, M. Centonze, G. Casagranda, M. Cetrulo, D. Donner; Trento/IT

10:48
B-0342 Contrast-enhanced magnetic resonance angiography in management of pulmonary arterio-venous malformations in patients with HHT (Osler disease)
D.A. Schneider, A. Maismann, A. Buecker, P. Fries, Hamburg a.d. Saar/DE

10:57
B-0343 Evaluation of acute pulmonary embolism detection using non-linear blending in dual energy computed tomography

11:06
B-0344 Imaging findings in arterial stenosis and mural involvement in Takayasu arteritis on CEMRA
A.K.S. Sharma; Noida/IN

11:15
B-0345 Usefulness of CT angiography of celiac axis prior to pancreatico-duodenectomy
M. Belgrano, B. Petronio, W. Toscano, M.A. Cova; Trieste/IT

11:24
B-0346 Vascular anomalies in a population with Turner syndrome: real adjunctive diagnostic role and clinical impact of magnetic resonance angiography (MRA) vs echocardiography (ECO)
11:33
B-0347 3D reconstructed contrast-enhanced MR angiography: 1.5 Tesla vs 3 Tesla in detection of the different branches of the internal iliac artery in females scheduled for uterine artery embolisation

11:42
B-0348 Low dose contrast-enhanced time-resolved MR angiography at 3 T: diagnostic accuracy for treatment planning and follow-up of body vascular malformations
P. Ledebur1, M. Anzidei, B. Cavallio Marincola, A. Napoli, F. Fanelli, R. Passariello; Rome/IT

11:51
B-0349 Automated Doppler angle correction in liver transplant ultrasound
O. Polak                                 1C; T.P. Gautier1, C. Cuervas1, P. Bhanjava1, L.M. Mitsujiro1, D.E. Green2, R.A. Saad3, Seattle, WA/US, Eindhoven/NL, Bothell, WA/US

10:30 - 12:00 Room P

Physics in Radiology
SS 513 Interventional radiology and mammography
Moderators: E. Atilar, Ankara/TR, Y. Kynäkou, Forchheim/DE

10:30
B-0350 Development of in-hospital x-ray radiographic system using rotating cerium anode for coronary and cerebral microangiography
H. Mori1, C. Tanaka1, Y. Ikeya1, T. Fujii, T. Shizuma, N. Fukuyama; Isehara/JP

10:39
B-0351 4D Guidance in interventional radiology: prototype development and feasibility study
J. Kuntz1, S. Sawall2, M. Socher1, W. Semmler1, M. Kachelriess2, T.J. Vogl1; Frankfurt a. Main/DE, Erlangen/DE

10:48
B-0352 4D intervention guidance: a technical feasibility consideration
J. Kuntz1, S. Sawall2, W. Semmler1, M. Kachelriess2, S. Bartling1; Heidelberg/DE, Erlangen/DE

10:57
B-0353 2D curvelet spatio-temporal filtering applied to x-ray digital flat panel detector imaging
J. Pescatore1, C. Amiot, Morang/FR

11:06
B-0354 Radiation exposure in vascular angiographic procedures
R. Kloeckner1, C. Dueber, J. Schneider, A. Bersch, C. Ruckes, MB. Pitton, Mann/DE

11:15
B-0355 A new method of real time skin dose visualisation: clinical evaluation of fluoroscopy-guided interventions
F. Bracài1, N. Clauz1, C. Jahn, M. Habashy, M. Manisor, H. Benjamel, V. Maržáňková1, L. Mertz, R. Beaujeux; Strasbourg/FR

11:24
B-0356 Study of a real-time dosimetry system and its impact on current practices in an angiography room
F. Bracài1, N. Clauz1, A. Hornbeck1, C. Jahn1, L. Mertz1, R. Beaujeux1; Strasbourg/FR, Toulouse/FR

11:33
B-0357 Quantra, BIRADS scale and breast density correlation: preliminary results
P. Cagnetti1, R. Rosasco1, M. Calabrese1, A. Tagliafico1, G. Taccini1, B. Monajerito1, G. Massian1; Genova/IT, Turin/IT

11:42
B-0358 Physical characteristics and image quality of reconstructed planes in digital breast tomosynthesis (DBT) - a system comparison
N. Rebhofer1, Bochum/DE

11:51
B-0359 Breast tomosynthesis: physical characterisation and comparison between two systems
S. Fasetti1, P. Calogero2, A. Tornesi, M. Tagliafico; Milan/IT

10:30 - 12:00 Room Q

Cardiac
SS 503 CT coronary angiography: stenosis assessment
Moderators: G. Feuchtner, Innsbruck/AT, N.-E. Kloow, Oslo/NL

10:30
B-0360 The area stenosis measurement of significant coronary artery lesions by quantitative computed tomography coronary angiography (QCTA) correlates better with quantitative invasive coronary angiography (QCA) than diameter stenosis measurement
B. Laskowski1, B. Krupinski, T. Miszalski-Jamka, B. Guzik, M. Andres, R. Bányai4, M. Urbaniczky; Zawadzka, M. Kostkiewicz, Krakow/PL

10:39
B-0361 Is there a role for 64-row MDCT in the follow-up of heart transplanted patients? A comparison study with echocardiography and MR performed on the same day
V. Silvestri1, R. Marano, G. Savino, B. Merlino, G. Verrillo, A. Meduri, L. Natale, M. Bonomo; Rome/IT

10:48
B-0362 Can segmented 3D images be used for stenosis evaluation in coronary CT angiography?

10:57
B-0363 Diagnostic accuracy of coronary CT angiography for stenosis detection according to calcium score: systematic review and meta-analysis
M.A.M. den Dekker1, R. de Smet2, G.H. de Bock1, R.A. Tio1, M. Oudkerk1, R. Vliegenthart1; Groningen/NL, Brussels/BE

11:06
B-0364 Evaluation of left main coronary in-stent restenosis by dual source CT: comparison with invasive angiography and intravascular ultrasound
T. Arka1, J. Veldkamp1, D. Zemanek, P. Cadova, V. Suchanek, L. Miksik, M. Tucek, Prague/CZ

11:15
B-0365 Coronary computed tomography angiography for detection of occult coronary artery disease in asymptomatic patients
A. Kostkiewicz1, D. Stolz1, R. Leta-Petracca1, L. Segura, S. Pujadas, F. Carreras, G. Pons-Llado; Barcelona/ES
B-0366 Utility of computed tomography coronary angiography (CTCA) in diagnosis of cardiac allograft vasculopathy (CAV)

B-0367 Impact of different levels of coronary calcium score on the prevalence of coronary artery stenosis in patients with an intermediate pre-test likelihood of coronary artery disease
H. Neubauer, N. Vogel, M. Meyer, P. Affalhofer, S. Sulztiedt, S.O. Schönb erg, C. Fink, Mannheim/DE

B-0368 Influence of intra-coronary enhancement on performance of second generation dual source CT coronary angiography
E. Maffei, C. Martin, S. Sultani, F. Cademartiri

B-0369 Role of CT coronary angiography in suspected ab- extrinsic coronary compression in patients with pulmonary hypertension

B-0370 Semi-automated segmentation and characterisation of liver and liver lesions in contrast-enhanced CT images
C. Grady, D. della Latta, I. Bernardeschi, G. Di Grolario, M. Patronelli, M. Gdamski, V. Postiglione, D. Chiappino, A. Monteleone, Massa/IT

B-0371 Automated detection and measurement of uterine peristalsis in cine MR images

B-0372 Digital perfusion phantoms and their use in perfusion validation
U.S. Panzner, Newton Highlands, MA/US

B-0373 Automated semantic navigation and synchronised alignment in baseline and follow-up full body CT scans: clinical feasibility and accuracy
P. Blanke, M. Hammon, M. Scharling, A. Tsymbal, M. Uder, A. Cavallaro

B-0374 An automated method for visualising changes in vessel wall dynamics
E. Schaefer, G. Lampe, J. Holzfeld, M. Cerny, Vienna/AT, Innsbruck/AT, Berne/CH

B-0375 Towards efficient simultaneous multi-patient annotation of 3D imaging data
W. Lang, R. Donner, Vienna/AT

B-0376 Retrieving positive findings in radiological images with the aid of textual hints in reports

11:33

B-0377 Rapid semi-automated liver segmentation using a new user-friendly, prototypic software tool: initial experience

B-0378 Image registration in a hybrid routine using Shannon-Tsallis entropy for the statistical parameteric mapping (SPM)

11:51

B-0379 Integration of diffusion and perfusion images of human breast cancer by registration and dissimilarity-based clustering
C.A. Mendoza, P. Pizzironi Ferraresi, P. Sunners, G. Petralia, M. Menegaz, Verona/IT, Milan/IT

14:00 - 15:30 Room A

Neuro

SS 611a Interventional neuroradiology

Moderators: L. Fischer, Vienna/AT, S. Puchner, Vienna/AT

14:00

B-0380 Single centre experience of intracerebral artery thrombectomy using TREVO device in 60 patients with acute ischaemic stroke
S. Romani, V. Broschi, M. Masino, A. Lopez, A. Tomasella, J. Penrose, A. Chiarini, J. Byrne, Abingdon/UK

B-0381 Endovascular reperfusion for acute ischaemic stroke (AIS). Preliminary results of a single centre retrospective study
S. Puchner, M. Fuschi, Y. Di Egidio, Teramo/IT

14:18

B-0382 Results of mechanical thrombolysis for acute ischaemic stroke: comparison with intra-arterial urokinase infusion
S. Jeon, S. Cho, South Korea

B-0383 Mechanical thrombectomy with the trevo stent device in proximal intracranial arterial occlusions

B-0384 Cerebral vasospasm (CV) after aneurysmal subarachnoid haemorrhage (SAH): intra-arterial management
E. Puchner, M. Balfie, M. Fuschi, V. Di Egidio, Monza/IT

14:45

B-0385 Angiographic outcome after endovascular treatment of intracranial aneurysms with the silk flow diverter
A. Rosengren, M. Schlamann, S. Gricke, M. Regier, M. Millan, M. Regier, M. Millan, M. Millan

B-0386 Computational fluid dynamics in patients treated with flow-diverter devices
15:03
B-0388 Silent ischaemic lesions after stent-assisted coiling
M.L. Hakenberg, M. Ho, M. Schlaermann, S. Goericke, I. Wanke, C. Moeninghoff, M. Forsting, A. Ringelstein, Essen/DE

15:12
B-0389 New ischaemic brain lesions on diffusion-weighted MRI after carotid artery stenting with protection: a single-centre study
O.A. Stepanov, M. Ilie, P. Bosnjakovic, Nis/RS

14:00 - 15:30 Room B
Cardiac
SS 603 CT and MRI: reconstruction algorithms and dose reduction
Moderators: P. Nikolacou, Munich/DE, P.K. Vanhoenacker, Aalst/BE

14:00
B-0390 Reconstructions with identical filling (RIF) of the heart: a physiological approach to image reconstruction in coronary CT angiography

14:09
B-0391 CT coronary artery calcium scoring and iterative image reconstruction techniques: reproducibility, accuracy, and potential for radiation dose reduction

14:18
B-0392 How different levels of 4th generation iterative reconstruction influence image quality in low-dose cardiac CT
P. Krestin, M. van Straten, A. Koltowska, P. Szewczyk, J. Bladowska, B. Hendrich, P. Podgorski, A. Zimny, P. Szewczyk, J. Bladowska, D.D. Stojanov, M. Ilic, P. Bosnjakovic; Nis/RS

14:27
B-0393 Iterative reconstruction (IR) improves image quality and diagnostic confidence of CT delayed enhancement imaging for the detection of myocardial infarction: preliminary results

14:36
B-0394 The effect of iterative reconstruction on computed tomography coronary artery calcium score

14:45
B-0395 Coronary CT angiography: comparison of a novel iterative reconstruction with filtered back projection for reconstruction of low-dose CT

14:54
B-0397 Stenosis quantification using different kV: a phantom study comparing volume CT to micro-CT
M. Steiner, W. Hennings, J. Bischof, H. Kocher, N.S. Paul, Toronto, ON/CA, Markham, ON/CA, Neuss/DE

15:03
B-0398 A randomised study to test the diagnostic performance of 128-slice dual source CT coronary angiography in patients with various heart rates using 3 low-dose scan protocols

15:12
B-0399 Computed tomography coronary angiography (CTCA) radiation dose: a systematic review of the application of conversion factors
M.C. Williams, D.S. Maclachlan, S. Maksad, E. Newby, N.W. Weir, Edinburgh/UK

14:00 - 15:30 Room C
Neuro
SS 611b Functional MRI, resting state and DTI
Moderators: N. Bargallo, Barcelona/ES, M. Smits, Rotterdam/NL

14:00
B-0400 Target map individualisation for thalamus neurosurgery: possible applications of diffusion tensor tractography and statistical shape models
A. Becker, R. Blanc, A. Morel, E.L. Berenyi, G. Székely, Zurch/CH, Debrecen/HU

14:09
B-0401 DTI tract-specific evaluation of the corpus callosum in patients with diagnosed systemic lupus erythematosus

14:18
B-0402 New non-linear colour look-up table to visualise fractional anisotropy changes: demonstrated on multiple system atrophy

14:27
B-0403 Assessment of the degradation of the selected projectile, commissural and association white matter tracts in asymptomatic HIV-positive nontreated, HIV-positive HAART-treated and HIV-HCV-positive patients using diffusion tensor MR imaging
I. Bartos, A. Koltowska, P. Szewczyk, A. Zimny, B. Hendrich, B. Knyaz, M. Sasade, Wroclaw/PL

14:36
B-0404 Passive range-of-motion functional MRI paradigms are useful in the pre-surgical workup of childhood epilepsies
L.R. Kozak, M. Hegyi, P. Barsi, G. Rudas, Budapest/HU

14:45
B-0405 F-MRI study of smell: perceptual, cognitive and semantic component of cortical elaboration of four familiar aromas

14:54
B-0407 Functional MRI for neurosurgical intervention planning: retrospective analysis of 87 examinations performed with our standardised language task panel
J.R. Kolek, A. Staba, S. Drif, C. Borbely, P. Bimi, G. Rudas, Budapest/HU
14:00 - 15:30 Room D1

**Chest**

**SS 604 Airway diseases**
Moderators: I. Hartmann, Rotterdam/NL, N. Sercanto, Cambridge/UK

- **B-0410 Can CT help recognise a link between left atrial volume, impacting left ventricular preload, and the severity of emphysema?**
  - P. Ciet1, P. Wielopolski1, E. van der Wiel1, G.P. Krestin1, M.H. Lequin1, M.O. Wielpuetz1, M. Puderbach1, M. Eichinger1, O. Weinheimer2, S. Ley1, L. Bonomo; Rome/IT
  - M. Amato, A. Larici, A. del Ciello, E. Devicienti, G. Corbo, S. Valente, Bangkok/TH
  - T. Suwatanapongched, P. Pornsuriyasak, W. Sukkasem, S. Rattanasiri; Bangkok/TH
  - M. Rémy-Jardin; Lille/FR

- **B-0411 Krypton ventilation imaging using dual energy CT in COPD patients: initial experience**

- **B-0412 A genome-wide association study of COPD with lung volumetry and airway measurement using MDCT**
  - L.K.Y. Lee1, K. Kim1, J. Lee1, E. Kang1, Y. Oh1, B. Je1, J. Choo1, Ansan/KR, Guro/KR, Ansan/KR

- **B-0413 The performance of CT severity scores determined to predict the severity of airflow obstruction**
  - T. Survivalapongched, P. Pomsuryask, W. Sukkasem, S. Rattanasiri, Bangkok/TH

- **B-0414 Reproducibility of automatic airway measurements with multidetector computed tomography (MDCT) in inspiratory and expiratory scans**
  - M. Amato, A. Lario, A. del Gello, E. Devicienti, G. Corbo, S. Valente, Rome/IT

- **B-0415 Automatic airway analysis on MDCT in cystic fibrosis: correlation with pulmonary function testing**
  - M.O. Wielpuetz1, M. Puderbach1, M. Eichinger1, O. Weinheimer2, S. Ley1, L. Bonomo; Rome/IT
  - M. Amato, A. Larici, A. del Ciello, E. Devicienti, G. Corbo, S. Valente, Bangkok/TH
  - T. Suwatanapongched, P. Pornsuriyasak, W. Sukkasem, S. Rattanasiri; Bangkok/TH

- **B-0416 Contrast-enhanced MRI (CE-MRI) is more sensitive to detect small airways disease than proton-MRI (MRI): a comparative study in cystic fibrosis (CF) lung disease**
  - P. Ciet1, P. Wielopolski1, E. van der Wiel1, G.P. Krestin1, M.H. Lequin1, G. Moran2, H.A.M.W. Tiddens1, Rotterdam/NL, Treviso/IT

15:03

- **B-0417 A scoring system for tomosynthesis in pulmonary cystic fibrosis**
  - P. Ciet1, I. Byrkirnar-Burtscher, P. Hugland, G. Boztovic, M. Wiklund, M. Geijer, Lund/SE

15:12

- **B-0418 Small airway and interstitial lung involvement in asymptomatic patients with antiphospholipid syndrome**

15:21

- **B-0419 MDCT evaluation of the tracheobronchial tree anomalies in children with congenital heart disease**

14:00 - 15:30 Room D2

**Interventional Radiology**

**SS 609 Vascular interventions**
Moderators: L. Maili, Athens/GR, R. Morgan, London/UK

- **B-0420 Directional atherectomy of calcified stenotic lesions of the lower limb in segments with high biomechanical stress: 3-year results**
  - P. Minko1, S. Jaquez1, B. Buercker1, M. Kotsh, Homburg a.d Saar/DE

- **B-0421 Intra-arterial infusion of allogenic mesenchymal stem cells for critical limb ischaemia and foot ulcers safety and efficacy**
  - B.J.J. Abdullah1, S.S. Dhillion1, A. Das, A.C. Rosland1, Kuala Lumpur/Malaysia

- **B-0422 DEB vs PTA for multilevel lower limb revascularisation: 6-month results from a randomised trial**
  - A. Cannavale1, F. Fanelli1, A. Bruni1, M. Allegritti1, E. Boatta1, R. Passanello1, Rome/IT

- **B-0423 Concomitant use of endovenous laser and foamed sclerosant in treatment of lower limb varicosities: 3-year follow-up results**
  - M. Bhalla1, N. Bhalla1, H. Vasavada2, Ahmedabad/IN, Jammnapuri/West Bengal/IN

- **B-0424 PTA the other way: US-guided SAFARI technique**
  - M. Ashtiani1, M. Lenderman1, R. Rezvani1, A. Aref1, A. Hafez1, Haifa/IL

- **B-0425 Silverhawk directional atherectomy in the treatment of de novo femoropopliteal atherosclerotic steno-obstructive disease: single centre experience**
  - M. Udana1, M. Reza1, L. Greco1, G.M. Varano1, A. Zolovkins1, V. David1, Rome/IT

- **B-0426 Endovascular treatment of extracranial carotid artery aneurysms**
  - P.D. Melkonian1, A. Ranft1, Dortmund/DE

- **B-0427 Type-II endoleaks after endovascular abdominal aortic aneurysm repair: fate of the aneurysm sac during long-term follow-up**
  - R. Nog2, H. Teufelsbauer1, D. Beitzke1, M. Funovics1, U. Asenbaum1, A. Wiibner1, C. Paik1, J. Lammer1, M. Schoder1, Vienna/AT
B-0428 Excimer laser atherectomy in arteries of the lower limb with TASC C and D lesions
C. Wissgott, P. Kamusella, C. Ludtke, R. Andresen, Heide/DE

14:00

B-0430 Biomechanics of human knee cartilage-loading of knee during 3T MRI
T. Shinozaki, P. Szmol, V. Jurak, S. Zbyn, S. Trautten, Vienna/AT

14:09

B-0431 Knee joint configuration: the implication of severe osteoarthritis and ACL injury
E. Kim, S. Apprich, V. Jurak, P. Szmol, V. Majerek, S. Domayer, S. Trautten, Vienna/AT

14:18

B-0432 Multi-parametric MRI of talar and tibial cartilage in cadaver ankles at 7T: correlation with immunohistochemical findings
S. Zbyn, S. Apprich, V. Jurak, P. Szmol, V. Majerek, A. Randaran, Iraklion/GR

14:27

B-0433 UCSF score: a novel quantitative assessment score for cartilage lesions in early osteoarthritis - data from the osteoarthritis initiative

14:36

B-0435 T2 relaxation time measurements are limited in monitoring advanced cartilage degeneration of the knee - longitudinal data from the osteoarthritis initiative

14:45

B-0436 Baseline mean and heterogeneity of MR knee cartilage T2 are associated with morphologic degeneration of cartilage, meniscus, and bone marrow over three years: data from the osteoarthritis initiative

14:54

B-0437 MR-based baseline T2 relaxation time predicts progression of knee osteoarthritis
L. Maderwald, T. C. Lauenstein, Essen/DE

15:03

B-0438 MRI-based and clinical long-term results of isolated osteochondral transplantation (OATS) of the knee joint

15:12

B-0439 Long-term results 8 years after autologous osteochondral transplantation: 7T gagCEST and sodium magnetic resonance imaging with morphological and clinical correlation
B. Schmidt, J. Krusche-Mardel, S. Apprich, V. Jurak, S. Trautten, Vienna/AT

14:00 - 15:30 Room F1

Abdominal Viscera

SS 601 MRI (high field)

14:00

B-0440 Optimisation of liver intravoxel incoherent motion imaging protocol at 3.0T for chronic liver diseases assessment
C. Lepen, P. Pilloul, O. Beuf, Villeurbanne/FR

14:09

B-0441 Can we differentiate infiltrative hepatocellular carcinoma and confluent fibrosis in background liver cirrhosis with Gd-EOB-DTPA-enhanced 3T MRI?

14:18

B-0442 Gd-EOB-DTPA-enhanced 3.0T MRI for the evaluation of hepatic metastasis from colorectal cancer: is metastasis always seen as a “defect” on the hepatobiliary phase?

14:27

B-0443 Quantification of liver fat content by 3 Tesla spectroscopy magnetic resonance (3T SRM) in nonalcoholic fatty liver disease: correlation with serum levels of alanine aminotransferase (ALT)

14:36

B-0445 Liver intravoxel incoherent motion imaging at 3.0T: comparison with conventional dual b-values method
P. Uramila, P. Pilloul, O. Beuf, Villeurbanne/FR

14:45

B-0446 Apparent diffusion coefficient values of healthy pancreas from diffusion-weighted imaging of upper abdomen at 3.0 T
L. Li, T. Pan, H. Zhang, H. Wang, J. Wang, S. Chen, J. Lu, Shanghai/CHN

14:54

B-0447 1.5 Tesla vs 3 Tesla versus 7 Tesla abdominal MRI: the more Tesla, the better?

15:03

B-0448 Implementation of dual source RF excitation techniques with 3T imaging systems allows for nearly identical ADC values in comparison to 1.5T MR scanners when imaging the abdomen

15:12

B-0449 Evaluation of T1, T2* and T2 relaxation times in young and aging rat liver at 9.4T
A. Uramila, A. Mattrus, A. Mueller, A. Buescher, P. Fries, Homburg/DE
14:00 - 15:30 Room F2

Breast

SS 602 Tomosynthesis and FFDM
Moderators: M. Michel, London/UK, E. Sopas, Bologna/IT

14:00 B-0450 Specificity: digital breast tomosynthesis versus mammography
G. Sennari1, E. Bezzon1, E. Baldan1, R. Cherevan1, C. di Maggio1, M. La Greca1, L. Pescarini1, I. Polico1, A. Pruetti1, Padua/IT, GORIZIA/IT, Aviano/IT

14:09 B-0451 MRI in the pre-operative breast cancer staging before and after the introduction of digital breast tomosynthesis (DBT): has anything changed?
J. Janssens1, M. Deleu2; 1 Eindhoven/NL, 2 Maastricht/NL

14:18 B-0452 The role of breast tomosynthesis combined with digital mammography
P. Martinez1, A. Garcia-Lallana2, R. Sainz-Mendiguren2, C. Minguillon1, 3 Pamplona/ES

14:27 B-0453 Role of breast tomosynthesis in the morphological analysis of breast lesions
P. Schrauwen, M. Rajkoshan, S. Sriramakumaran, Chennai/IN

14:36 B-0454 Does combining 3D breast tomosynthesis with digital mammography improve diagnostic accuracy?
K. Salc, N. Abol Magd, M. Mokhtar, L. Bassam, D. Salem, B. Raghavan, M. Rajmohan, G. Sivaramalingam; 2 Cairo/EG

14:45 B-0455 Dutch digital breast cancer screening: implications for breast cancer care

14:54 B-0456 Dramatic increase in stereotactic core needle biopsy rate and ductal carcinoma in-situ detection after conversion from analogue to digital screening mammography

15:03 B-0457 Conversion from analogue to digital screening mammography results in a more favorable tumour stage and tumour biology of screen-detected cancers

15:12 B-0458 What do we gain by changing from screen film to full field digital mammographic screening?

15:21 B-0459 Improving detection rates of DCIS with digital DR mammography
C.S. Maneni1, M. Maneti Filho1, A.C.P. Nazario1, 1 Vitória ES/BR, 2 Sao Paulo/BR

14:00 - 15:30 Room G/H

Head and Neck

SS 608 Oncology
Moderators: C.Z. Karaman, Aydin/TR, R. Kohler, Geneva/CH

14:00 B-0460 Incidental F-18 FDG positive focal thyroid nodules on PET/CT: evaluation and outcome
J. Stratton, S. Bethapudi, F. W. Poon, Glasgow/UK

14:09 B-0461 SPECT-CT for the depiction of sentinel lymph nodes in cutaneous head and neck tumours
T.C. Lammens1, C. Bay, T. Piepgras, I. Stoffels, T. Schadendorf, A. Bockisch, J. Pire, Essen/DE

14:18 B-0462 Dose and image quality of high-pitch dual source CT for the evaluation of cervical lymph node status: comparison to regular 128-slice single source CT

14:27 B-0463 Management of head and neck carcinoma of unknown primary: the diagnostic accuracy of F-18 FDG-PET/CT in detection of the clinically occult tumour
J. Stratton, S. Bethapudi, A. McCallum, S. Han, Glasgow/UK

14:36 B-0464 Comparison of contrast-enhanced PET-CT and MRI in patients with head and neck cancer

14:45 B-0465 Pre- and intraoperative determination of tumour extent and bone infiltration in the head-and-neck region: a comparison of multislice computed tomography (MSCT), high-resolution flat-panel volumetric CT (VCT), and histopathologic methods
E. Alexandre Laford, H. Schaaf, T. Mueller, M. Obert, H.-P. Howaldt, G. Frohmacht, E. Giezewski, Giessen/DE

14:54 B-0466 Radiochemotherapy-induced changes of local tumour blood supply estimated by DCE-CT in head and neck tumours
J. Bokisch1, J. Klode; 1 Giessen/DE

15:03 B-0467 Dynamic contrast-enhanced T1-weighted MR imaging to distinguish tumour recurrence from scar after treatment in patients with head and neck neoplasms: a pilot study
C. Leung1, R. Cormier, S. Heiland, M. Bendigs, S. Rohde, Heidelberg/DE

15:12 B-0468 Do apparent diffusion coefficient and histological characteristics of squamous cell carcinoma of the oral cavity correlate?
L. Bonelli1, L. Preza, G. Petralia, P. Summers, C. Giannitto, M. Bellomi, Milano/IT

15:21 B-0469 Macrobiopsies for head and neck cancers
J. Janssens1, M. Deleu2; 1 Hasselt/BE, 2 Vitten/BE
B-0479 – B-0489

14:00

B-0480 Whole body CT for trauma: strategies to justify radiation dose using the injury severity score (ISS)

A.A. Lemos, R. Brambilla, M. Fretto, P. Biondetti, Milan/IT

14:09

B-0481 Prospective study on immediate total body CT in severe trauma patients


14:18

B-0482 Ultrasound follow-up of polytrauma patients after initial computed tomography: an analysis of role and costs

M.H. Mayor, A. Winkler, M. Powerski, F. Elgoli, B. Hamrin, K. Roeltgen, T. Marnitz, Berlin/DE

14:27

B-0483 The value of contrast-enhanced ultrasound (CEUS) in the follow-up of post-traumatic abdominal injuries submitted to nonoperative management

F. Pinto, R. Farina, A. Pinto, C. Acampora, L. Romano, Naples/IT

14:36

B-0484 The volume of free intraperitoneal fluid influences the sensitivity of primary focused assessment with sonography in trauma (FAST), whereas radiologist’s experience does not

R.J.V. Loeke, A. Schub, S. Groven, C. Gaarder, P.A. Naess, J.B. Dormagen

14:45

B-0485 Coronary atherosclerosis in cocaine abusers presenting with acute chest pain: characterisation with coronary CT angiography


14:54

B-0486 Standard vs high-pitch CT of the chest in ventilated patients: comparison of motion artefacts, image noise and effective dose

F. Schwarz, T. Cebel, N. Kals, F. Reiser, H.-C. Becker, Frankfurt a. Main/DE

15:03

B-0487 High-pitch dual source CT pulmonary angiography with 30 cc of contrast material

J.M. Kerl, M. Larsson, T. Lehnert, T.J. Vogl, R.W. Bauer, Munich/DE

15:12

B-0488 Accuracy of multidetector computed tomography to evaluate acute aortic syndromes: 5-year experience in a cardiovascular center


15:21

B-0489 Emergency CTPA performed in one year: clinical results

C. Martino, A. Zamboni, G. Salvagno, R. Pozzi Mucelli, Verona/IT

14:00 – 15:30 Room N/0

Emergency Radiology

SS 617

Moderators: R. Polverosi, Padua/IT, H. Ringl, Vienna/AT

14:00

B-0480

14:09

B-0481

14:18

B-0482

14:27

B-0483

14:36

B-0484

14:45

B-0485

14:54

B-0486

15:03

B-0487

15:12

B-0488

15:21

B-0489
14:00  B-0490  Educational programme for radiography students at CT
K. Heggen, E. Johansen, R. Silkoset; Oslo/NO

14:09  B-0491  Impact of a radiographic positioning doll on developing skills in skeletal radiology: a study on radiography students
R. Girometti, C. Zuiani, S. Da Dalt, A. Moretti, R. Fazzin, M. Bazzocchi; Udine/IT

14:18  B-0492  Image quality system for radiographers
S. Geers-van Gemeren; Utrecht/NL

14:27  B-0493  The evaluation of patient’s anxiety levels undergoing magnetic resonance imaging examination

14:36  B-0494  Children’s and parents’ perception of a MRI examination
J. Gaardling, M. Edwinson Maareason; Lund/SE

14:45  B-0495  Information to the parents in connection with their child’s diagnostic examination
O. Muharemovic; Hvidovre/DK

14:54  B-0496  Hypnosis in the management of claustrophobic MRI patients
N. Alexandre1, M.A. Fontaine1, B. Suarez1, D. Mompoint2, J. Becchio3; 1Thiais/FR, 2Garches/FR, 3Villejuif/FR

15:03  B-0497  Practices to control infection related to chest radiography in intensive care unit
M.M.C.P. Ribeiro1, A.L. Resendes1, F.P. Rodrigues1, J.E.G. O’Neill1, J.C. Maurice2; 1Lisbon/PT, 2Tomar/PT

15:12  B-0498  Are UK radiographers more emotionally intelligent than a normative comparison group? An age- and gender-matched analysis
S.J. Mackay1, P. Hoag; G.T. Cooke1, R.I. Baker1, T. Dawkes2; 1Salford/UK, 2Chester/UK

15:21  B-0499  Radiographer’s role in teleradiology
E. Metsala1, A. Henner2; 1Helsinki/FI, 2Oulu/FI
Neuro

SS 911  Stroke diagnosis

10:30  B-0500  Distinction of antegrade flow across intravascular thrombus from retrograde collateral flow in occluded cerebral arteries: initial experience using time-resolved CT angiography
   A.M. Froelich1, R. Schramm1, E. Klüter1, M. Krauth1, P. Schramm1, Gotthardt1, Forchheim-DE

10:39  B-0501  Poor collateral status on timing-invariant CTA is a strong predictor of poor clinical outcome in acute stroke patients with large vessel occlusion
   E.J. Smit1, E. Venken1, T. van Seeters1, J.W. Dankbaar1, J.C. van der Schaaf1, E. Vethuis1, B. van Ginneken2, M. Prokop1, Utrecht/NL, Nijmegen/NL

10:48  B-0502  CT angiography “Spot Sign” predicts haematoma expansion in patients with acute spontaneous ICH
   R. van den Boom1, M.T.H. Oei1, L.J. Oostveen1, E.J. Smit2, S.J. Lafebre1, Utrecht/NL

10:57  B-0503  Dual energy CT for detection of contrast leakage within high-density haematoma in patients with intracranial haemorrhage: iodine images versus combined images
   Y. Watanabe, H. Tanaka, M. Nishizawa, Y. Kunitomi, A. Tsukabe2, S.J. Lafebre1, Ohtawa/JP

11:06  B-0504  Cerebral perfusion CT f quantifying regional functional parameters at the onset of the stroke and 24hs after intravenous thrombolytic therapy
   Z.M. Metafratzi1, E. Alexiou1, M. Fanariotis1, P.G.C. Begemann2, Larisa/GR

11:15  B-0505  Dynamic perfusion CT (PCT) imaging and alteration of blood brain barrier permeability (BBB-P) after acute ischaemic stroke (AIS), prognostic significance
   E. Frangielli, M. Belfer, M. Fuschi, V. Di Egidio, M. Monina, Trieste/IT

11:24  B-0506  CT perfusion and CT angiography: can they better predict the final infarct?
   M. Fernández-Tamanc1, C.R. Caracela Zeballos1, J.M. Garcia Benassi1, Toledo/ES

11:33  B-0507  Automated assessment of regional CT perfusion in acute ischaemic stroke
   P. Werning1, R. Krumm1, L. Fryen1, T. Niederstadt2, Hamburg/DE

11:42  B-0508  Recommendations for selecting the vascular input functions to optimise the validity in CT-perfusion imaging in 256 (or more)-slice scanners
   J. Niesten1, J. Van Der Schaaf1, A. Christe1, P. Vock1, J.E. Roos2, Utrecht/NL

11:51  B-0509  Effect of radiation exposure on quantitative evaluation of cerebral CT perfusion maps: results from a hybrid digital phantom
   R. van den Boord1, M.T.H. Gei1, L. Dostveen1, E.J. Smit1, S.J. Lafefre1, B. van Ginneken1, M. Prokop1, Utrecht/NL, Nijmegen/NL

Chest

SS 904  Image quality and dose reduction

10:30  B-0510  Improving breath hold during mobile radiography
   N. Houssine1, D. Al-azawa1, M.F. Mc Entee1, Dublin/IE, Sydney/AU

10:39  B-0511  Digital chest tomosynthesis: impact on patient management
   E. Qaza, E. Baratella, A. Losutso, F. Caggianore, V. Uliczaja, M. Cova, Trieste/IT

10:48  B-0512  Ultra-low-dose CT for the detection and characterisation of the most common CT patterns of pulmonary disease
   A. Christe1, J. Chirino Torrente1, P. Vock1, J.E. Roos2, Utrecht/NL, Winterthur/CH

10:57  B-0513  Impact of 4th generation iterative reconstruction technique on image quality in ultra-low-dose computed tomography of the lungs
   S. Saito1, T. Ishii2, H.-C. von Schulte-Zander1, D. Hammerle1, H. Nage1, G. Adam, M. Reiser1, Hamburg/DE

11:06  B-0514  Upgrading to adaptive statistical iterative reconstruction (ASIR) in 64-row computed tomography (CT) of the chest: detailed analysis of the performance of different ASIR modes and levels by intra-individual comparison of dose-reduced ASIR scans to full-dose filtered back projection series
   S. Verth1, L. Michael1, D. Maier1, Z. Deck1, M. Scherr1, U. Linsenmaier1, M.F. Reiser1, M. Korner1, Munich/DE

11:15  B-0515  Intraindividual comparison of image quality using retrospective and prospective respiratory gating for the acquisition of thin sliced 4D MDCT of the thorax
   M. Amm1, F.O. Heres1, D. Schwarz1, M. Groth1, G. Riesen1, G. Adam1, P.G.C. Begemann2, Hamburg/DE, Düsseldorf/DE

11:24  B-0516  Adaptive iterative dose reduction using three-dimensional processing (AIDR 3D) for reduced and low-dose CT examination: comparison with standard-dose CT of image quality and radiological finding assessment for patients with various pulmonary diseases
   Y. Ohtawara1, N. Sugihara2, H. Inokawa2, K. Sugimura1, Kobe/JP, Ohtawara/JP

11:33  B-0517  Model-based iterative reconstruction technique for radiation dose reduction in chest CT
   M. Katsura1, M. Katsura1, M. Akahane1, J. Sato1, H. Aka1, A. Kunimatsu1, Y. Ohtawara1, Ohtawa/JP

11:42  B-0518  Can iterative reconstruction restore image quality at 60% dose reduction? Clinical experience in 50 patients with simultaneous availability of low-dose and standard-dose images from dual source datasets
   F. Pontana1, D. Moureau1, J.-B. Faivre1, T. Flohr1, M. Rémy-Jardin1, J. Remy2, Lille/FR
10:30 - 12:00 Room D2

Interventional Radiology

SS 909  Hepatocellular carcinoma: endovascular

Moderators: G. Antoch, Düsseldorf/DE, R. Gollfert, Bologna/IT

10:30
B-0520  Predictive factors of downstaging of hepatocellular carcinoma (HCC) beyond the Milan criteria treated with intra-arterial chemoembolisation

V. Bosso, L. Maruzzelli, R. Mireajia, G.B. Vizzini, F. Tuzzolino, A. Luca, Palermo/IT

10:39
B-0521  Balloon-occluded percutaneous radio-frequency thermal ablation (RFA) plus transcatheter arterial chemoembolisation (TACE): a new combined single-step therapy for treatment of single large hepatocellular carcinoma

M. Nestola, R. Iezzi, M. Santoro, R. Dattesi, M. La Torre, L. Bonomo, Rome/IT

10:48
B-0522  Long-term recurrence rates of HCC treated with doxorubicin eluting DC bead


10:57
B-0523  Single-step balloon-occluded percutaneous radio-frequency thermal ablation (RFA) plus transcatheter arterial chemoembolisation (TACE) for treatment of “complex” unresectable hepatocellular carcinoma

M. Santoro, R. Iezzi, R. Dattesi, M.P. la Torre, M. Nestola, L. Bonomo, Rome/IT

11:06
B-0524  Radioembolisation of hepatic tumours: hepatopulmonary shunt reduction by administration of Sorafenib


11:15
B-0525  Five-year survival of HCC patients treated with doxorubicin eluting DC bead


11:24
B-0526  Blood flow redistribution: infusion strategy before radioembolisation

C. Spinelli, R. Longo, T. Morsos, E. Gelli, M. Maccuoro, R. Romito, L.F. Spiro-Benito, M. Marchiani, V. Mazzaferroni, Milan/IT

11:33
B-0527  Transarterial chemoembolisation (TACE) with mitomycin and cisplatin in hepatocellular carcinoma: curative, palliative and neoadjuvant therapy protocol


10:30 - 12:00 Room E1

Musculoskeletal

SS 910  Spine and peripheral nerves


10:30
B-0530  The assessment for the intervertebral foramen in the lumbar disk herniations using 640-slice dynamic volume CT: a pilot study

Y.-C. Jiao, G. Lei, Z. Bi, S. Li, Z. Wang, Y. Tian, Beijing/China

10:39
B-0531  Sodium imaging of the lumbar intervertebral disc at 7 Tesla: correlation with T2 mapping and modified Pfirrmann score at 3 Tesla


10:48
B-0532  MR imaging of the lumbar spine: comparison of 3D isotropic turbo spin-echo SPACE sequence versus conventional 2D sequences at 3.0 T


10:57
B-0533  Multi-echo MRI for muscle-fat quantification in patients with low back pain: comparison to spectroscopy

M.A. Heusner, R. Spiegelberger, D. Nanz, G. Andriessee, Zurich/CH

11:06
B-0534  Influence of weight-bearing and lumbar lordosis on the dural sac in patients with severe stenosis of the lumbar spinal canal


11:15
B-0535  Correlation between strength of paraspinous lumbar muscles, muscle degeneration and diffusion properties

C.C. Adati, J.D. Busch, S. Schlampp, N.D. Forkert, G. Adam, C. Bartolozzi, Pisa/Italy

11:24
B-0536  Diffusion-weighted MR imaging of the spine at 3-T: feasibility, optimization of b-value and utility to differentiate benign from pathological vertebral compression fractures

### Oncologic Imaging

**SS 916** New applications for US and CT in evaluating patients with cancer

- Moderators: T. Bauerle, Heidelberg/DE, M. Belloni, Milan/IT

**10:30 - 12:00 Room F1**

**B-0537** High-resolution magnetic resonance imaging of the brachial plexus using an isotropic-enhanced scan of 3D-STIR sequence

F. Yan, D. Liu, Y. Lv, X. Kong; Wuhan/CN

**11:42**

**B-0538** Diffusion tensor imaging of the median nerve in patients with recurrent carpal tunnel syndrome after surgical release

P. Lythbech, A. Frystyk, M.A. Maier, J.-L. Drape; Paris/FR

### Breast

**SS 902** Screening mammography and CAD

- Moderators: E.M. Fallenberg; Berlin/DE, P. Skaane; Oslo/NO

**10:30**

**B-0546** Angiogenesis in non-small cell lung cancer: early assessment of therapeutic response to antiangiogenic chemotherapy with perfusion multidetector-row CT (MDCT)

N. Tazaki; T. Santangelo, A. Scheperreel, A.-L. Hachulla, J. Remy, M. Rémy-Jardin; Lille/FR

**11:42**

**B-0547** Early diagnosis of recurrence of peritoneal carcinomatosis: MDCT correlated with serum tumour markers

M.T. Macaione, R. Basilio, E. Rodolfo, V. Calamita, A. Ferr, M. De Tursi, A.R. Cotroneo; Chieti/IT

**11:51**

**B-0548** Multimodal imaging for therapy monitoring of loco-regional alpha therapy (213Bi-DOTATOC) in patients with hepatic metastases of neuroendocrine tumours

F.L. Giesel¹, E. Zechnall¹, S. Wuffert¹, H.-U. Kauczor¹, F. Bruchertseifer¹, A. Morgenstern², U. Haberkorn², C. Kristowechl¹, F.L. Giesel¹; Heidelberg/DE, Karlsruhe/DE
B-0554 Incidence and review of interval cancers in a community biannual mammographic screening programme
L.A. Carbonaro1, B. Babaei Paskehl, G. Brambilla1, P. Malenba1, L. Menicagli1, G. Vadala1, L. Fantina1, S. Ciutti1, F. Sardanelli1; San Donato Milanese/IT, Rozzano/IT, Vizzola Predabissi/IT, Caschirella/IT, Padua/IT

11:24
B-0555 Presorting by CAD according to lesion type: increasing the reader’s awareness of mammographic lesions in a screening environment
R. Lederman, J. Leichter, M. Greenberg, Jerusalem/IL

11:33
B-0556 Can CAD be used as a preliminary reader in screening mammography?
R. Lederman, J. Leichter, M. Greenberg, Jerusalem/IL

11:42
B-0557 Standalone computer-aided detection compared to human readers for the detection of breast cancer in screening mammograms
N. Karssemeijer1, R. Huspe1, M. Samauski1, M. Lobbes2, A. den Heeten1; Nijmegen/NL, Maastricht/NL

11:51
B-0558 Retrospective comparison of the accuracy of two different computer-aided detection systems for detecting malignant lesions on mammography
M. Lobbes, K. Keijermeijer, M. Smidt, R.G. Beets-Tan, J.E. Wildberger, 1 N. Karssemeijer1, R. Hupse1, M. Samulski1, M. Lobbes2, A. den Heeten1; Nijmegen/NL, Maastricht/NL

SS 901 Abdominal Viscera

10:30 - 12:00 Room L/K

10:30
B-0559 Diffusion-weighted MRI of pancreatic cancer: comparison of free-breathing, respiratory-triggered and breath-hold sequences
M. Karssemeijer1, R. Huspe1, M. Samauski1, M. Lobbes2, A. den Heeten1; Nijmegen/NL, Maastricht/NL

10:59
B-0560 Comparison of abdominal MRI including diffusion-weighted sequences with 186Ga-DOTATATE PET/CT in detecting neuroendocrine tumours of the pancreas

11:08
B-0561 Are pancreatic calcifications predictive of impairment of pancreatic exocrine function? A retrospective study with S-MRCP and abdominal CT in patients with known or suspected pancreatic disease
C. Rostagno1, M. Mirsere1, D. D'istefano1, R. Cassale1, A. Piero1, G. Sallusto1; Campobasso/IT, Rome/IT

11:27
B-0562 Comparative performance of CT and MRI in prognostication of acute pancreatitis: correlation with clinical outcome

11:36
B-0563 CT assessment of sarcopenia in patients with pancreatic cancer and chronic pancreatitis
F. Bulanova, V. Lyadov, E. Meshchera, V.E. Simonov, Moscow/RU

11:55
B-0564 Relationship between clinicopathological factors and total lesion glycolysis in pancreatic cancer

12:04
B-0565 Timing bolus dynamic contrast-enhanced magnetic resonance imaging for characterization of solid focal pancreatic lesions
J. Liac1, F. Fung1, H. Han, T. Jiao, B. Choi, B. Keilier1; Seoul/KR, Erlangen/DE

12:13
B-0566 Quantification of pancreatic fat fraction and pancreas volume by magnetic resonance imaging
C. Zambonb, M. Ambrosetti, E. Zivelonghi, R. Pozzi Mucelli, Verona/IT

12:22
B-0567 Single energy low-voltage arterial phase scans for the detection of adenocarcinoma of the pancreas
C. Zambonb, M. Ambrosetti, E. Zivelonghi, R. Pozzi Mucelli, Verona/IT

13:32
B-0568 Preoperative CT findings predicting the recurrence of pancreatic cancer after surgical resection
Y. Lee, Y. Kim, P. Lee, Seongnam-si/KR

10:30 - 12:00 Room L/M

10:30
SS 903 Cardiomyopathies: CT, MRI, and PET

Cardiac

10:30
B-0559 Diffusion-weighted MRI of pancreatic cancer: comparison of free-breathing, respiratory-triggered and breath-hold sequences
M. Karssemeijer1, R. Huspe1, M. Samauski1, M. Lobbes2, A. den Heeten1; Nijmegen/NL, Maastricht/NL

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Y. Lee, Y. Kim, P. Lee, Seongnam-si/KR

10:30 - 12:00 Room L/M

10:30
SS 903 Cardiomyopathies: CT, MRI, and PET

Cardiac
Radiographers

SS 914 Dose and technique optimisation from the radiographer’s perspective

Moderators: P. Blackbum Andersen, Kolding/DK, B. Tadk, Baudour/BE

10:30
B-0579 Patient’s knowledge about radiation and radiological protection

10:39
B-0580 A study of the awareness of x-ray radiation doses among Norwegian student radiographers
S. Pedas, Bergen/N0

10:48
B-0581 Radiographer’s role in dose optimisation in cooperation with dentists in orthopantomography
A. Hennert, H. Piskoy, A.-R. Pietila, Oulu/PI, Haapukasvu/Pi

10:57
B-0582 Radiographic imaging: image quality and radiation dose optimisation in digital imaging
M. P. Prosadou, V. J. Oikonomou, Oulu/Pi
B-0595  Comparison of non-breathheld single phase CT and 3D reconstructed bronchoscopic images with bronchoscopy for diagnosing airway malacia in infants
H. Hong, S.-A. Im; Seoul/KR

B-0596  Chest MRI in the evaluation of pulmonary alterations detected by CT in the follow-up of paediatric patients with middle lobe syndrome (MLS): comparison with XR
G. Serra, G. Ciarlo, V. Massaccesi, A. Fiorelli, S. Liberali, M. Paoletti, C. Catalano, F. Macri, F. Fraioli; Rome/IT

B-0597  Flow-sensitive 4D MRI of aortic blood flow in patients with Marfan syndrome
J. Geiger¹, M. Markl², R. Arnold¹, B. Jung¹, D. Hirtler¹, L. Herzer¹, B. Stiller¹, M. Langer¹; ¹Freiburg/DE, ²Chicago, IL/US

B-0598  Quantitative pulmonary perfusion imaging at 3.0 T of 2-year-old children after congenital diaphragmatic hernia (CDH) repair
W. Neff, K. Zahn, T. Schabbe, S.D. Schüning, L.R. Schad, F.G. Zoellner; Mannheim/DE

Computer Applications
SS 905  Computer assisted diagnosis (CAD)
Moderators: B. Merlino; Rome/IT, R. van’t Klooster; Leiden/NL

B-0599  A simple and robust classification tree for differentiation between benign and malignant lesions in MR mammography

B-0600  "Magnetic resonance mammography has a high sensitivity but low specificity!": new thoughts and fresh data on an old mantra

B-0601  Computer-aided diagnosis (CADx) is a feasible prognostic biomarker for the noninvasive prediction of axillary lymph node metastases

B-0602  Computer-aided decision support for the characterisation of liver lesions in CT scans

B-0603  Automated detection of osteolytic thoracolumbar spine lesions in CT scans
M. Hammon, M. Wels, P. Dankerl, M. Kelm, A. Tsymbal, S. Seifert, M. Sühling, M. Uder, A. Cavallaro; Erlangen/DE

B-0604  Computed-aided stenosis detection on coronary CT angiography in chest pain patients with an intermediate pre-test likelihood for acute coronary syndrome
H. Honne, M. Meyer, P. Apfaltrer, S.D. Schönberg, C. Fink, Mannheim/DE
Sunday

10:30 - 12:00 Room A

**Oncologic Imaging**

**SS 1316 Whole body MRI in cancer patients**

Moderators: M. Mayerhöfer, Vienna/AT; H.-P. Schlemmer, Heidelberg/DE

10:30  B-0609 Bone marrow lesions in patients with myeloma: whole body DWIBS vs T1-weighted contrast-enhanced MR imaging  
E. Squillaci, F. Bolacchi, M. Antonicoli, G. Manenti, G. Simonetti; Rome/IT

10:39  B-0610 Whole body MRI for response assessment of multiple myeloma after stem cell transplantation  

10:48  B-0611 Whole body diffusion-weighted imaging at 3 Tesla field-strength for early treatment assessment and treatment prediction in lymphoma  
K.N. De Paepe, C. Bevernage, F. de Keyzer, P. Wolter, R. Oyen, G. Verheof, V. Vandecaveye; Louvain/BE

10:57  B-0612 Is whole body diffusion-weighted imaging at 3 Tesla field-strength feasible for staging lymphoma?  
K.N. De Paepe, F. De Keyzer, P. Wolter, R. Oyen, G. Verheof, V. Vandecaveye; Leuven/BE

11:06  B-0613 Whole body magnetic resonance imaging with diffusion-weighted sequences for the follow-up of stage III melanoma patients  
G. Petralia1, M. Padrenostro1, S. Alessi1, R. Di Filippi1, S. Raimondi1, L. Bonello1, J. Garcia-Bennett2, M. Bellomi1; 1 Milan/IT, 2 Reus/ES

11:15  B-0614 Whole body MRI with DWI and 3D-CE-T1w in tumour staging: comparison with PET-CT  
E. Squillaci, C. Ciccio, M. Manenti, F. Bolacchi, O. Schillaci, G. Simonetti, Rome/IT

11:24  B-0615 FDG-PET-CT and whole body MRI for early detection of tumour recurrence in asymptomatic breast cancer patients with tumour marker kinetics  

11:33  B-0616 Whole body MRI and FDG-PET-CT for triage in patients planned for radioembolisation therapy  
G.P. Schneider1, P.M. Paparrakis1, T.F. Jacobs1, R.T. Hofmann1, A. Bauer-Melnyk1, A. Haug1, M.F. Reiser1, C. Rist1; 1 Munich/DE, 2 Dresden/DE

11:42  B-0617 Diagnostic capability of whole body diffusion-weighted imaging in malignant tumours compared with whole body 18F-FDG PET-CT  
X.Y. Wang, N. Wu, Y.F. Zhao; Beijing/CN

10:30 - 12:00 Room D1

**Chest**

**SS 1304 Interaction: lung, heart and circulation**

Moderators: J. Bremerich, Basle/CH; N. Karabulut, Denizli/TR

10:30  B-0619 High-pitch dual source CT pulmonary angiography in freely breathing patients  
R.W. Bauer, B. Schell, M. Beeres, J. Wichmann, B. Bodele, T. Lehrert, T.J. Voigt; 1 Muenster, 2 Frankfurt/M

10:39  B-0620 Breath-hold at ease: a method of improving the diagnostic quality of CT pulmonary angiogram  
P.K. Lau, J. Li, N. Ardley, T. Lau; Melbourne, Victoria/AU


10:57  B-0622 ‘Stunned lung’: a novel observation of resolving pulmonary embolism on lung perfusion CT  
J.H. Reid, E. van Beek, M. Williams, M. Connell, J.T. Murchison, Edinburgh/UK

11:06  B-0623 Volume rendering reconstruction of right ventricle improves interobserver agreement and accuracy of interventricular septum bowing sign in patients with acute pulmonary embolism  
G. Szarkowska1, E. Czerniak-Chetnaw, J. Piziojalski, S. Uhlig, K. Torres, R. Maasjczyk, A. Chop, Lublin/PL

11:15  B-0624 Assessment of the correlation between CT angiographic clot load score, pulmonary perfusion defect score and global right ventricular function by dual source CT for acute pulmonary embolism  
Y.-F. Zhou, P. Liao, T. Wang, H. Shi, Wuhan/CN

11:24  B-0625 Comparison of high sensitive troponin I and quantitative CT parameters for prediction of adverse clinical events in patients with acute pulmonary embolism  
P. Apfaltrer1, F. Weilbacher1, M. Meyer1, T. Henzler1, T. Walter1, J. Grussinner1, U. Schwepf1, C. Fink1; 1 Mannheim/DE, 2 Charleston, SC/US

11:33  B-0626 Contrast-enhanced MDCT vs. time-resolved MR angiography vs contrast-enhanced perfusion MRI: assessment of treatment response by patients with chronic thromboembolic pulmonary hypertension  
T. Hara, M. Haruo, H. Koyama, T. Yoshihara, D. Takenaka, S. Matsumoto, R. Sugiura; Tokyo/JP

11:42  B-0627 Incidence and aetiology of mosaic lung attenuation (MLA) in a large cohort of patients with right heart catheter (RHC) corroborated pulmonary hypertension (PH)  
L. Reade, A. Nair, B. Patel, A. Drevnaj, B. Madden, I. Vlahos; London/UK
**Interventional Radiology**

**SS 1309**  
Special indications

10:30  
B-0629 Predictors and volume measurement of residual flow in embolised intracranial aneurysms at follow-up  
Z. Sosafin, P. Strzezmienski, W. Lasek, W. Breuth; Bydgoszcz/PL

10:39  
B-0630 Diagnostic digital-subtraction-angiography: criteria of evaluation, frequency and localisation of pathological findings  
D.K. Filipiada, A. Weissbach, C. Meyer, A. Mazioti, H.H. Schild, K.E. Wilhelm; Athens/GR, Born/DE

10:48  
B-0631 Embolisation techniques for post-traumatic splenic injury: Grenoble’s experience  

10:57  
B-0632 Nasolacrimal polyurethane stent: improving outcomes with the Wilhelm-type Wilhelm tear leader stent  
D.K. Filipiada, A. Weissbach, C. Meyer, A. Mazioti, H.H. Schild, K.E. Wilhelm; Athens/GR, Born/DE

11:06  
B-0633 The 100 classical papers of interventional radiology - the evolution of a specialty  
M.T. Crockett, O. Buckley, W. Torreggiani, R. Browne, Dublin/IE

11:15  
B-0634 Percutaneous arterio-venous shunting in patients with severe COPD: a novel interventional treatment  
T. Schlosser, M. Burbelko, M. Ulrich, G. Antoch, R. Adamus; Hamburg/DE

11:24  
B-0635 The safety and efficacy of flow diversion treatment of intracranial aneurysms: preliminary results  
D. Kabatza, B. Petralia, R. Gironetti, M. Bazzocchi; Udine/IT

11:33  
B-0636 Post-traumatic epistaxis treated with embolisation  
P. Raza, T. Jargielo, P. Trojanowski; Lublin/PL

11:42  
B-0637 Tracheobronchial stenting for malignant airway disease: long-term results from a single centre  

11:51  
B-0638 Follow-up of radiologically inserted TCVAP of the upper arm: long-term complications in 127750 catheter days  
J.D. Black, F. Heller, J. Herrmann, B.P. Schoennagel, G. Adam, C.R. Habermann
10:30 – 12:00 Room E2

GI Tract

SS 1301a Rectal and gastro-oesophageal cancer
Moderators: A. Dieguez; Buenos Aires/AR, E. Kuinna-Couserini, Vienna/AT

10:30
B-0649 Nodular restaging after chemoradiation for locally advanced rectal cancer: predictive factors
M. Maas, D.M.J. Lambrechts, M. Bierhoff, G.L. Beets, R.G.H. Beets-Tan, Maastricht/NL

10:39
B-0650 Gadofosveset-enhanced MRI for nodal staging in rectal cancer: pitfalls and learning curve

10:48
B-0651 DW-MR and D-CE-MR: evaluation of the response in rectal cancer before, during and after neoadjuvant treatment
R. Del Beem, V. de Paola, S. Balbioli, I. Sansoni, R. Grasso, B. Bosisi, Maastricht/NL

10:57
B-0652 Standardised index of shape (SIS): a novel semi-quantitative DCE-MRI parameter based on pattern analysis (PA) able to divide responder (R) by non-responder (NR) after preoperative radio-chemotherapy (pCRT) in locally advanced rectal cancer (LARC)
R. Beghi, M. Petrillo, S. Setola, M. Sansone, A. Rotondo, A. Petrillo, Naples/IT

11:06
B-0653 Reproducibility of 2D and 3D fractal analysis techniques for the assessment of spatial pattern of perfusion CT regional blood flow in rectal cancer
V.J. Ghia, D. Banerjee1, B. Sanghera, A. Khan2, I. Simcock2, J. Stirling2, R. Glynne-Jones2, London/UK, "Northwood/UK"

11:15
B-0654 Accurate identification of complete responders after CRT for rectal cancer with endoscopy and MRI

11:24
B-0655 Preoperative locoregional (T and N) staging of gastroesophageal cancers (GEC): comparison between magnetic resonance (MR) including diffusion-weighted sequences (DWI), computed tomography (CT), endoscopic ultrasound (EUS)
P. Lerride, F. De Cobelli, M. Collina, R. Nicotelli, C. Martinenghi, F. Arcidiacono, E. Orsenigo, C. Staudacher, A. Del Maschio, Milan/IT

11:33
B-0656 Apparent diffusion coefficient (ADC) modifications in assessing gastroesophageal cancer (GEC) response to neoadjuvant treatment (NT); comparison to tumour regression grade (TRG) at histology
M. Collina, F. De Cobelli, F. Gigi, L. Alabare, E. Orsenigo, D. Chiari, A. Esposito, C. Staudacher, A. Del Maschio, Milan/IT

11:42
B-0657 PET-guided prognosis: a promising role of metabolic imaging in oesophageal cancer
L. Evangelista, A. R. Cervino, R. Alffier, C. Castoro, P.C. Muzzio, F. Pomerenti, Padua/IT

11:51
B-0658 Spectral pre-saturation inversion-recovery MR imaging sequence after gadolinium injection to identify mesorectal fascia infiltration in patients with rectal carcinoma after neoadjuvant chemoradiation therapy
E. Gua, V. Ulicbaj, L. De Paoli, B. Cabibbo, E. Piantano, M. Cova, Trieste/IT

10:30 – 12:00 Room F1

Genitourinary

SS 1307 Adrenal and kidney imaging
Moderators: M. Ramalho, Almada/PT, D.H.M. Szolar, Graz/AT

10:30
B-0659 Evidence-based medicine: decision-making on renal lesions based on meta-analysis of MR diffusion-weighted imaging

10:39
B-0660 Comparison of 15-minute delayed contrast-enhanced CT and chemical shift MR in the evaluation of adrenal masses

10:48
B-0661 Evaluation of adrenal metastases from renal cell carcinoma or hepatocellular carcinoma using unenhanced and delayed contrast-enhanced CT
Y. Choi, L. Kim, B. Park, S. Park, J. Park, H. Yoon, A. Kim, Seoul/KR

10:57
B-0662 Value of functional MRI with diffusion-weighted imaging in characterisation of indeterminate adrenal lesions: comparison with chemical shift imaging
C.R. Talis Francis, D. Ippolito, L. Monuzzi, C. Carpani, A.C. Donnici, S. Sironi, Mannheim/DE

11:06
B-0663 Quantitative 23Na, and DW-imaging of the healthy human kidney for establishing norm values for the 23Na, concentrations at 3.0T
S. Hanneke, G. Konstandin, P. Rettnacher, L.R. Schad, S.O. Schonberg, H.J. Michaela, Mannheim/DE

11:15
B-0664 Tumour necrosis on magnetic resonance imaging correlates with aggressive histology and disease progression in clear cell renal cell carcinoma
P. Beddy, E. Genega, L. Ngo, N. Hindman, J. Wei, A. Bullock, R.S. Bhatt, Boston, MA/US
B-0665 Diagnostic performance of multi-detector CT for detecting renal sinus invasion in patients with renal cell carcinoma
C. Kim, H. Choi, M.-h. Kim, K.-S. Cho, Seoul/AR

B-0666 Utility of 3 Tesla diffusion-weighted magnetic resonance (DWWMR) imaging for the characterisation of small solid renal tumours
F. Agnello1, D. Del Re1, M. Raimondi1, M. Villalba2, M. Agnelli1, G. La Tona1, M. Galli1, M. Midda1, C. Royn1, Palermo/IT, Strasbourg/FR

B-0667 Central scar in renal oncocytomas: late contrast enhancement with MR imaging
Y. Le Bras, N. Grenier, Bordeaux/FR

B-0668 Study of renal iron overload by T2* MRI in a large cohort of thalassemia major patients
G. Grassedonio1, A. Meloni2, G. Resta1, G. Valeri1, L. Calabrese2, 1M.G. Wallis1, S. Cheung2, P.D. Britton1, O. Kearins2; 1Cambridge/UK, 2Mansoura/EG

B-0669 Multicentre cooperative study of the effectiveness of fine needle aspiration cytology (FNAC) of axillary lymph nodes under sonographic guidance in the pre-treatment management of breast cancer patients: results after 792 consecutive cancer cases
P. Palano, J. Del Riego1, M. Vilajo1, M. Teixido2, M. Villalba1, G.R. Giugno6, M. Lombardi2, M. Midiri1, A. Pepe1, Palermo/IT, 6Boston, MA/US

B-0670 Staging the axilla with ultrasound and biopsy: maximising diagnostic yield whilst minimising unnecessary biopsy
K.A. Zappi, M.G. Wallis, J. Foreman, P.D. Britton, Cambridge/UK

B-0671 Pre-operative staging of the axilla: UK audit of screen detected breast cancer 2008/9 and 2009/10
M. Wallis, M. Cheunue2, P.D. Britton, D. Keenins1, Cambridge/UK, Birmingham/UK

B-0672 Management of flat epithelial atypia diagnosed at vacuum-assisted breast biopsy performed on suspicious microcalcifications. Comparison between 9G and 11G devices
A. Viau, J. Doenicke, T. Rosenberg, M. Cabarese1, La Spezia/IT, Genova/IT

B-0673 Accuracy of minimal invasive breast biopsy in an incipient screening program: analysis of 2477 consecutive percutaneous interventions
A. Villa, A. Doenicke3, J. Doenicke, H. Miller, A. Hascher, S. Sedlacek, N. Hintermeier, Munich/DE

B-0674 Is image-guided biopsy always necessary in women under 30 years with solid, palpable breast masses?
A.E. Cox, D.M. Duke, N. Hambly, J.D. Cunningham, Dublin/IE

B-0675 Incidence of cancer in consecutive negative core needle breast biopsy cases submitted to surgery
P.M. Tiemloer, E. Gombor, B. Sippor, I. Fernandez, S. Radt, Milan/IT, Boston, MA/US

B-0676 US-guided 14G core needle biopsy of breast masses categorised as BI-RADS 3, 4 and 5: can the radiologist predict the adequacy of tissue sampling?
V. Londero, E. Di Gaetano, C. Zuzani, G. Graziani, C. Di Loreto, M. Bazzocchi, Udine/IT

B-0677 Stereotactically guided vacuum assisted breast biopsy: diagnostic reliability and complication rate

B-0678 Bleeding, haematoma and scar formation after vacuum-biopsy under stereotactic guidance: Mammutome® system 116/8G vs ATEC® system 126/9G

B-0679 Shear wave elastography of cervical lymph nodes: preliminary experience for detection of malignancy

B-0680 Percutaneous US-guided interstitial laser ablation of metastatic lymph node masses in the neck from papillary thyroid carcinoma following thyroidectomy and lymphadenectomy
M. Midda, L. Loia, M. Loff, I. Fernandez, G. Lomuszo, A. Baroli1, L. Piccilia1, L. Solvani2, Milan/IT, Busto Arsizio/IT, Como/IT, Rome/IT

B-0681 Comparison of the ultrasound findings of biopsy-proven tuberculosis lymphadenitis and Kikuchi disease

B-0682 Tuberculosis, Kikuchi
C. Park, J. Han, S. Yoon, Cheon-an/AR

B-0683 Dual energy CT-derived iodine content and iodine overlay for characterisation of enlarged cervical lymph nodes
A.M. Tawfeek1, N. E.A. Nour El-Din2, N.N.N. Naeqab, J. Perri1, A.A. Abdel Razek, T.J. Voog1, Mansoura/ES, Frankfurt a Main/DE
B-0684 First experience with tri-exponential analysis of DWI signal attenuation in normal cervical lymphnodes: feasibility study
M. Bavarelli, D. Farina, E. Bottini, A. Marconi, V. Mazza, R. Maroldi; Brescia/IT

B-0685 Comparative study of MDCT and CBCT of the temporal bone: anatomy-otosclerosis-superior semicircular canal dehiscence, early experience and preliminary results
D. Volders1, N. Peters, B. De Foer1, K. Bacher1, J.W. Casselman1; Brussels/BE, 1Antwerp/BE, 2Gent/BE

B-0686 Prevalence of anterior internal auditory canal “diverticulum” on CT in patients with otosclerosis
M.C. Hoeberg1, J.J. Waterval1, R.J. Stokroos1, A.A.R. Stadler; Bruges/BE, 1Antwerp/BE, 2Gent/BE

B-0687 Improved in vivo visualisation and evaluation of endolymphatic hydrops using high-field MRI in Menier’s disease and correlation with audiovestibular function
W.H. Platt1, R. Guerkov1, B.B. Ertl-Wagner1, M.F. Reiser; Munich/DE

B-0688 Middle ear cholesteatoma: compared diagnostic values of incremental MRI protocols including non-echo-planar diffusion-weighted imaging performed on 3T and 1.5T scanners
J. Lincot1, S. Rehm2, N. Babay2, J.-P. Matern2, N. Meyer2; 1Paris/FR, 2Strasbourg/FR

B-0689 Hypervascular hepatocellular carcinoma showing hyperintensity on gadoxetic acid-enhanced MR imaging: a less malignant subtype with low production of AFP and PIVKA-II
A. Biazzo1, D. Motz1, N. Yoneda1, P. Kozaka1, S. Kobayashi1, W. Koda1, T. Gábota1, Y. Nakanuma1, S. Kaneko1, Kanazawa/JP

B-0690 Comparison of contrast-enhanced US to 64-row multidetector CT for microvascularisation of malignant liver lesions
P. Liu1, A. Lui1, R. Chen1, J. Gao1, Y. Shen1; 1Zhengzhou/CHN, 2Shanghai/CHN, 3Beijing/CHN

B-0691 Spectral CT of hypervascular liver lesions in patients with HCC: investigation of image quality and sensitivity
P. Lu1, A. Lui1, R. Chen1, J. Gao1, Y. Shen1; 1Zhengzhou/CHN, 2Shanghai/CHN, 3Beijing/CHN

B-0692 HCC wash-out at contrast-enhanced ultrasonography (CEUS): isoechogenicity or hypoechogenicity? A comparison with MDCT
P. Bavarelli1, M. Bavarelli1, J. Subbotina1, R. Gandini2, R. Maroldi; 1Brescia/IT, 2Bologna/IT

B-0693 Dynamic CT perfusion technique in the evaluation of neoangiogenesis tumour-related phenomenon in diagnosis and treatment of HCC lesion in cirrhotic patients
D. Lupold1, P. Bonaffini1, C. Capraro1, F. Meloni1, R. Corso1, S. Sironi; Monza/IT

B-0694 Can contrast-enhanced MRI differentiate malignant from benign hepatocellular tumour in the non-cirrhotic liver?
M.A. Fischer1, O.A. Rades1, T.P. Donati1, S. Breitenstein1, P.-A. Clavien1, H. Alkadhi1, M.A. Patak2; Zurich/SW, 1Zurich/CH

B-0695 Comparison of prospectively triggered (PT) FLASH sequences with retrospectively self-gated (RSG) FLASH sequences for imaging of experimental liver tumours in rats at 9.4 T
P. Perez1, K. Matthes1, A. Mueller1, G. Denda1, A. Massmann1, J. Sperting1, G. Schneider1, A. Buecker1, R. Seidel1; Hamburg/DE

B-0696 Single-energy low-voltage arterial phase scanning increases conspicuity of hypertensive lesions of the liver: an intra-patient study
G.A. Zamboni1, M.C. Hoeberigs1, E. Zivelonghi1, R. Pozzi Mucelli1; Verona/IT

B-0697 Accuracy of differentiating hepatocellular carcinoma (HCC) from dysplastic nodule (DN) at gadobenate dimeglumine-enhanced hepatobiliary-phase (Gd-BOPTA) magnetic resonance imaging
A. Biazzo1, A. De Gaetano1, M. Guada1, L. Siciliani1, L. Riccardi1, F. Pizzolante1, T.M. Vecchio1, L. Bonomi1, L. Bono1; Rome/IT, 1Perugia/IT

B-0698 Intraoperative high-resolution linear contrast-enhanced ultrasound (IOUS) for detection of microvascularisation of malignant liver lesions before surgery or radiofrequency ablation
E.M. Lins1, M. Loss1, Regensburg/DE

Abdominal Viscera

SS 1301b HCC diagnosis

SS 1306 Safety and diagnostic value

Contrast Media
B-0702 Observational post-marketing study on the safety of megilumine gadoterate: interim safety analysis on 17,193 patients
B. Kress; Frankfurt a. Main/DE

B-0703 Safety and diagnostic efficacy of gadobenate dimeglumine (MultiHance) in MR imaging of paediatric patients
G. Schneider, H. Schuerholz, P. Fries, A. Buecker; Homburg a. d. Saar/DE

B-0704 Parstatin averts development of contrast-induced nephropathy in an in-vivo experimental model
A. Diamantopoulos, K. Katsanos, S. Spiliopoulos, A. Karatzas, D. Karnabatidis, N. Tsopanoglou, D. Siablis; Patra/GR

B-0705 Clinical and pathological effects and in vivo stability of all categories of gadolinium chelates on a new model of renal failure in rats

B-0706 Renal function of outpatients undergoing contrast-enhanced CT: what have we learned from universal eGFR testing?
H. Chalian, H.G. Tore, K. Ghadjar, V. Yaghmai; Chicago, IL/US

B-0709 Accuracy of dynamic contrast-enhanced ultrasound and transient arterial occlusion for diagnosis of peripheral arterial disease

B-0710 Comprehensive MR angiography of the lower limbs: comparison of performance of gadobenate dimeglumine, gadobutrol and gadofosveset trisodium
S. Chandramohan, G. Roditi; Varese/IT

B-0711 Efficacy of Dotarem®-enhanced mra in the diagnosis of peripheral artery disease compared to Gadovist®-enhanced MRA

B-0712 Peripheral MRA at 3T: intraindividual comparison between nonenhanced TOF and SSFP sequences vs contrast-enhanced MRA for the detection of clinically relevant stenosis
M. Azadbakht, A. Napoli, F. Zucca, L. Saba, G. Cartoccio, L. Bertacchi, Y. Nicè, P. Boni, C. Catalano; Rome/IT, Cagliari/IT

B-0713 How should renal artery stenoses be measured?
M. Andersson, K. Bjervell, P. Eriksson, G. Granerus, O. Smedby, Linköping/SE

B-0714 Duplex evaluation of distal renal artery to predict the presence of proximal significative acceleration: an experience of 2,200 explorations
J. Leal, R. Rodriguez, J. Periado, S. Vicente, C. Salgado, A. Flores, J. Gil, A. Orose, M. Doblas; Toledo/ES

B-0715 Non-enhanced magnetic resonance angiography (MRA) of the renal arteries: comparison with contrast enhanced MRA
D. Llama, M.G. Angeles, C. Cani, A.M. Marasca, E.A. Genovese, C. Piazzulli, Varese/IT

B-0716 Evaluation of renal artery aneurysm by non-contrast magnetic resonance angiography: a SLEEK sequence comparison with CTA
Y. Pei; Changsha/CN

B-0717 Symmetry of atherosclerotic lesions at the lower extremities arteries on magnetic resonance angiography (MRA)
V. Nardella, P. Secchi, G. Giardino, E. Resta, G. Di Leo, F. Sardanelli; Milano/IT

B-0718 Study of the left renal vein variations and inferior vena cava variations by means of spiral computed tomography
A. Diili, U.Y. Aver, B. Yekiymjouju; Çankaya/TR, Mersin/TR

B-0720 Digital mammography: training, technical/clinical practices and workflow issues
C. Reis, L. Radu, T. Sakellaris, A. Pascoal; Rio de Mouro/PT

B-0721 How to increase the participation rate among non-European immigrants in the mammography screening programme in Oslo, Norway
E. Rustad, R. Gullien, H. Linnestad; Oslo/NB

B-0722 Echoes from Estonia: introduction of sonography as a specialism for radiographers
J. Dodgeon, A. Lukken, P. Vahtramae; Salford/UK, Tartu/EE
B-0723 Evaluation of the first radiographers with additional degree in ultrasound: to what extent are the learning objectives achieved 6 months after graduation? 
K.G. Vikestad, E.N. Eikefjord, B.M. Hofmann; Oslo/NO, Bergen/NO

B-0724 Can radiologic technologists be trained to triage CT colonography for extracolonic findings? 
T.N. Boellaard, C.Y. Nio, P.M.M. Bossuyt, S. Bipat, J. Stoker; Amsterdam/NL

B-0725 Proposed CT diagnostic reference levels for Ireland 
S. Frew, M.F. McEntee, L.A. Rainford; Dublin/IE, Sydney/AU

B-0726 Comparison of automatic exposure control in CT equipment 64 slices 
M. Monteiro, J. Santos, C. Silva, N. Santos; Coimbra/PT

B-0727 Identification of sentinel nodes during radiographer performed lymphoscintigraphy prior to sentinel lymph node biopsy 
G. Camilleri, F. Zarb, K. Borg Grima; Msida/MT

B-0728 Ring-like contrast enhancement in liver metastases from rectal tumours - typical findings? 
M. Kiss, B. Lombay; Miskolc/HU

B-0729 Role of multimodal MR in brain glioma grading 
P.A. Mattei, S. Salice, D. Tortora, V. Panara, E.R. Cotroneo, M. Caulo, A. Tartaro; Chieti/IT

B-0730 DSC-MRI in glioblastomas: correlation of whole tumour histogram analysis of cerebral blood volume and vascular permeability (Ktrans) with biomarkers of tumour aggressiveness 
R. Lesser, P.L. Polani, M. Ferrara, S. Guansani, L. Buttol, M. Brugnone di Monale, R. Gasparotti; Brescia/IT

B-0731 High diagnostic accuracy of dynamic susceptibility contrast (DSC) magnetic resonance (MR) perfusion imaging to distinguish radiation necrosis from recurrent tumour in high-grade glioma patients 
R. Lesser, M. Van den Bent, M. Smit, Rotterdam/NL

B-0732 Diagnostic accuracy of multimodal MR (MRS, DWI, DTI and DSC-PWI) tumour recurrence and radionecrosis 
V. Panara, P.A. Mattei, D. Tortora, S. Salice, E.R. Cotroneo, M. Caulo, A. Tartaro; Chieti/IT

B-0733 Non-invasive differentiation of high- and low-grade glioma: a pulsed arterial spin labelling study using bolus arrival times 

B-0734 Simultaneous [18F]-FET MR/PET in patients with cerebral tumours: comparison with conventional PET/CT 

B-0735 Contribution of diffusion and perfusion-weighted magnetic resonance imaging in the differential diagnosis of sellar and paraseellar tumours: preliminary report 
J. Bladowska, A. Zimny, P. Szweczyk, M. Guzinski, P. Tabakow, M. Kozba-Gosztyla, W. Jarmundowski, M. Sasadek; Wroclaw/PL

B-0736 Isolated cerebral susceptibility artefacts in patients with malignant melanoma: metastasis or not? 

B-0737 Evaluation of susceptibility weighted imaging in distinguishing of high-grade gliomas from primary central nervous system lymphomas 
D. Tao, Y. Ding, Z. Xing, J. Li, M. Xiong; Fuzhou/CN

B-0738 Subependymal nodules and giant cell tumour prevalence in genetically studied tuberous sclerosis complex patients 
C. Michelozzi, F. Galli, D. Sardanelli, F. Silva Barbosa, F. Sardanelli, O. Cornabbia; Milan/IT, ‘San Donato Milanese/IT

Neuro
SS 1311 Tumours
Moderators: E. Avdagic; Sarajevo/BA, F.W. Cartes-Zumelzu; Innsbruck/AT

B-0729 Role of multimodal MR in brain glioma grading 
P.A. Mattei, S. Salice, D. Tortora, V. Panara, E.R. Cotroneo, M. Caulo, A. Tartaro; Chieti/IT

B-0730 DSC-MRI in glioblastomas: correlation of whole tumour histogram analysis of cerebral blood volume and vascular permeability (Ktrans) with biomarkers of tumour aggressiveness 
R. Lesser, P.L. Polani, M. Ferrara, S. Guansani, L. Buttol, M. Brugnone di Monale, R. Gasparotti; Brescia/IT

B-0731 High diagnostic accuracy of dynamic susceptibility contrast (DSC) magnetic resonance (MR) perfusion imaging to distinguish radiation necrosis from recurrent tumour in high-grade glioma patients 
R. Lesser, M. Van den Bent, M. Smit, Rotterdam/NL

B-0732 Diagnostic accuracy of multimodal MR (MRS, DWI, DTI and DSC-PWI) tumour recurrence and radionecrosis 
V. Panara, P.A. Mattei, D. Tortora, S. Salice, E.R. Cotroneo, M. Caulo, A. Tartaro; Chieti/IT
### Neuro

**SS 1711 Vascular and perfusion imaging**  
Moderators: H. Aronen; Turku/FI, J. Frühwald-Pallamar, Vienna/AT

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<tr>
<th>Time</th>
<th>Session Code</th>
<th>Title</th>
<th>Authors</th>
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<tr>
<td>10:30</td>
<td>B-0740</td>
<td>Time-resolved imaging of contrast kinetics does not improve performance of follow-up MRA of embolised intracranial aneurysms</td>
<td>Z. Serafin, P. Strześniewski, W. Lasek, W. Beuth; Bydgoszcz/PL</td>
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<tr>
<td>11:06</td>
<td>B-0744</td>
<td>Asymmetry of carotid artery wall thickness between carotid arteries</td>
<td>S. Nakamura; Shimabara/JP</td>
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### Chest

**SS 1704 Tissue characterisation**  
Moderators: R. Cesar; Golinh/ST, M. Wiesbolz, Heidelberg/DE

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<th>Time</th>
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<th>Authors</th>
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<tr>
<td>10:30</td>
<td>B-0748</td>
<td>CT findings of pneumonic type adenocarcinoma: comparison between invasive mucinous adenocarcinoma and nonmucinous adenocarcinoma</td>
<td>S. Nakamura, Shimabara/JP</td>
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<td>10:48</td>
<td>B-0750</td>
<td>Conventional 18FDG/PET-CT combined with first-pass CT-perfusion technique in lung cancer patients: clinical staging and functional information in a single study</td>
<td>C. Caproni, D. Ippolito, L. Guerra, E. De Ponti, C. Messa, S. Sironi; Monza/IT</td>
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<td>10:57</td>
<td>B-0751</td>
<td>Lung cancer perfusion: can we measure pulmonary and bronchial circulation simultaneously?</td>
<td>X. Yuan, G. Ao, J. Zhang; Beijing/CH, Shanghai/CH</td>
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<td>11:42</td>
<td>B-0756</td>
<td>Clinical application of tissue permeability factor for differentiation of benign and malignant pulmonary mass on dynamic contrast material-enhanced (DCE) MRI</td>
<td>S. H. Baik, G. Y. Jin, Y. M. Han; Jeonju/KR</td>
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Interventional Radiology
SS 1709 Oncology

Moderators: F. Melchiorre, Milan/IT, T. Rand, Vienna/AT

10:30  B-0758 Segmental radioembolization using Yttrium 90 and its effect on hepatic volume changes

10:39  B-0759 Long-term survival data of patients with liver metastases of colorectal cancer after MR-guided laser-induced theromotherapy (LITT)

10:48  B-0760 MR-guided radiofrequency ablation using a wide bore 1.5 T system: clinical results of 226 treated liver tumours
H. Riepp, R. Hoffmann1, L. Wabbel1, P. Pereira1, C.D. Claussen1, S. Claussen1, Tubingen/DE, Heidelberg/DE

10:57  B-0761 New combination of mitomycin and cisplatin for transarterial chemoembolisation (TACE) of unresectable hepatocellular carcinoma: different aetiologies and local response rate

11:06  B-0762 Antiangiogenesis effect of arsenic trioxide on synergising the transarterial chemoembolisation effect in the treatment of rabbit VX2 tumours
S. Liu, K. Xu, H. Shao, Y. Chen, Q. Wang, Shenyang/CN

11:15  B-0763 Transarterial chemoembolisation (TACE) in patients with unresectable cholangiocarcinoma: results and prognostic factors

11:24  B-0764 DC-beads chemoembolisation of HCC and evaluation of the results using CEUS and MDCT: a two-year study

11:33  B-0765 Transpulmonary chemoembolisation (TPCE) as a regional oncological treatment for non-resectable lung metastases

11:42  B-0766 Trans-arterial chemoembolization (TACE) using drug-eluting bead preloaded with irinotecan (DEBIRI) in the treatment of metastases from uveal melanoma (UM) confined to the liver: preliminary assessment of tumour response and predictive value of angiographic pattern and diffusion-weighted magnetic resonance imaging (DW-MRI)
M. Venturino, G. Agostini, L. Pilla, C. Losso, S. Cappio, A. Del Maschio, Milan/IT

Musculoskeletal
SS 1710 From foot to hip

Moderators: M.P. Aparisi Gomez, Valencia/ES, F. Kainberger, Vienna/AT

10:30  B-0767 Impact of hepatic steatosis and fibrosis on segmental liver hypertrophy after pre-operative portal vein embolisation
A. Koops, E. Ramic, H. Ittrich, C. Habermann, G. Adam, Hamburg/DE

10:30 - 12:00 Room D2

11:51  B-0767 Impact of hepatic steatosis and fibrosis on segmental liver hypertrophy after pre-operative portal vein embolisation
A. Koops, E. Ramic, H. Ittrich, C. Habermann, G. Adam, Hamburg/DE

10:30 - 12:00 Room E1

11:51  B-0767 Impact of hepatic steatosis and fibrosis on segmental liver hypertrophy after pre-operative portal vein embolisation
A. Koops, E. Ramic, H. Ittrich, C. Habermann, G. Adam, Hamburg/DE
B-0776 Through-plane distortion correction and view-angle tilting for reduction of metal artefacts at MR imaging in patients with total hip arthroplasty: performance of STIR and T1 sequences

11:51
B-0777 7 Tesla hip imaging in avascular necrosis using a multi-channel transmit array and RF shimming
J.M. Thysen, J. Kraff, S. Orzada, S. Landoyneer, M.E. Ladd, T.C. Lauzenstein; Essen/DE

10:30 - 12:00 Room E2

Oncologic Imaging

SS 1716 PET for cancer patient management
Modersor: J. Grimm; New York, NY/US, D. Miletic; Rijeka/HR

10:30
B-0778 Assessment of the metabolic-flow phenotype of primary colorectal cancer: correlations with microvessel density are influenced by the histological scoring method

11:06
B-0779 Diffusion-weighted MRI and (68)Ga-DOTATOC PET for early monitoring of response to loco-regional (90)Y/(177)Lu-DOTATOC therapy in patients with neuroendocrine liver metastases

11:33
B-0780 Prognostic value of residual CT masses in HD patients with a negative FDG PET after chemotheradiotherapy
M. Mazzollini, P. Longo, M. Rodari, K. Marzo, L. Giordano, F.R. Lutman, A. Anastasia, A. Santoro, A. Chiti, Rozzato/IT

11:42
B-0781 Staging of neuroendocrine tumours: comparison to PET/CT and contrast-enhanced MRI
C. Schraml, H. Schmidt, C. Bredle, L. Klotz, M. Reiser, K. Nikolaou, H.-C. Becker; 1 Heidelberg/DE

11:51
B-0782 Comparison of lesion detection in patient with cranial meningiomas using 68Ga-DOTATOC-PET/CT and contrast-enhanced MRI

10:30
B-0783 Diagnosis of MR/PEET and PET/CT in the assessment of pulmonary masses

11:06
B-0784 Staging and restaging Hodgkin’s disease: low-dose non-enhanced FDG-PET/CT versus full-dose contrast-enhanced FDG-PET/CT
C. Capraro, D. Messina, L. Guerra, E. De Ponti, C. Messa, S. Sironi; Monza/IT

11:42
B-0785 Comparison of MR/PET and PET/CT in the assessment of pulmonary masses

11:51
B-0786 Diagnostic performance of PET/MR versus PET/CT
J.M. Thysen, O. Kraff, S. Orzada, S. Landoyneer, M.E. Ladd, T.C. Lauzenstein; Essen/DE

10:30 - 12:00 Room F1

Genitourinary

SS 1707 Transplant imaging and special topics
Modersor: P. Hölschmidt; Heidelberg/DE, J.A. Jakobsen; Oslo/NO

10:30
B-0787 The impact of acquisition time on image in whole body 18F-FDG-PET CT for cancer staging
D. Hausermann, D. Dinter, S.O. Schönberg, J. Brade, M. Sadik, K. Buesing, Mannheim/DE

10:48
B-0788 Pre-operative assessment of living renal transplant donors with computed tomography angiography versus magnetic resonance angiography in 118 patients
T. Drexler, F. Fiedensdoff, R. Heinim, G. Diederichs; Berlin/DE

11:06
B-0789 Diagnostic performance of a non-contrast-enhanced MR imaging protocol for potential living-related kidney donors

11:42
B-0790 Quantitative CT imaging of renal perfusion for assessment of transplanted kidneys at 3T

11:51
B-0791 Diffusion-tensor imaging (DTI) for functional assessment of transplanted kidneys at 3T

10:48
B-0792 High-field MRI in assessment of murine placental histology

11:06
B-0793 Comparison of diffusion-weighted MRI and histopathologic findings in kidney transplant patients with deteriorating renal function
P. Steiger, M. Ith, A. Kruse, J. Fröhlich, D. Chong, H. Thoeny; Berne/CH
B-0795 Magnetic resonance diffusion tensor imaging identifies histopathological changes in a rat model of diabetic nephropathy
K. Husner1, D. Hartung1, M. Guterlet1, F. Wacker1, H. Sann1, B. Husner1, D. Reche1, Hannover/DE, 2Bansbüttel/DE, 3Saarbrücken/DE, 4Ingelheim/DE

B-0796 MRgFUS treatment for uterine myomas: safety, effectiveness and pathogenesis
Y. Krushkiv1, A. Stepnov1, V. Bylchenko1, E. Kulabuchova1, D. Batarchina1, I. Lutjana2, Moscow/RU

B-0797 Detection of localised prostate cancer using contrast-contrast-3D-guided MRI and 11C-acetate PET/CT
I. Lambr2, R. Boira3, J. Kempfap9, V. Lepomki1, K. Dean1, P. Alanen1, M. Nurmi2, H. Minn2, Turku/FI

B-0798 Initial maximum slope of the contrast enhancement versus time curve for dynamic evaluation of breast lesions on ultrafast breast MRI
RM Meng1, R.D.M. Mus1, C. Gepert2, P.M. Frenzl2, N. Karssenmeijer1, H. Husman1, B. Platel1, 1NHGven/NL, 2Erlangen/DE

B-0799 Diagnostic performance of a dedicated breast MR system using spiral acquisitions
S. Langner1, B. Mackbaur1, S. Stein1, H. Döpp1, A. Hollingsworth1, K. Kessel1, L. Foss1, 1Fayetteville/AR, 2Miami/FL, 3Atlanta/US, 4Philadelphia/PA, 5Baltimore/MD, 6Birmingham/AL, 7Oakville/CA, 8Ann Arbor/MI, 9Worcester/MA

B-0800 Evaluation of the ability of parametric dynamic contrast-enhanced MRI and diffusion tensor imaging to detect breast malignancies
L. Pernot1, M. Fex1, S. Chateau1, N. Wittenberg1, N. Nissen1, T. Zehavi1, D. Gurdape1, E. Eyak1, H. Dogari1, 1Bnevels/IL, 2Yfkar Saba/IL

B-0801 Correlation between apparent diffusion coefficient and molecular and histological prognostic factors in breast cancer: observations in 94 patients
L. Randi1, G. Petrella1, P. Summners1, L. Preda1, S. Kamondi1, G. Renne1, G. Bardo1, G. Curigliano1, M. Bellomi1, 1Munich/DE, 2Palermo/IT, 3VivaM/IT

B-0802 Differentiating invasive and non-invasive breast carcinomas using diffusion-weighted MRI: a feasibility study
A.M. Tucker1, V. Al, P.S.Y. Cheung1, R. Lee1, S.K. Yu1, G.G. Lo1, Happy Valley/HK

B-0803 Is 3D proton spectroscopic imaging at 3 Tesla able to discriminate benign and malignant breast lesions?
B. B neutrality1, P. Pierwerk2, H. Maxmonetzchnique3, W. Buyster4, H. Bickel1, T.H. Heitzb1, S. Gruber1, Vienna/AT

B-0804 Role of proton MR spectroscopy in the high field magnet (3T) in diagnosis of indeterminate breast masses (BIRDS 394)
M. Abdel Razik1, A.O. Arab1, Dova/EG

B-0805 To compare MR spectroscopy at 3T with tumour type and grading of breast cancers
M. Lebbig1, F. Pedron1, M. Pesic2, F. Passetti3, V. Cala4, E. Maglio1, C. Catalano1, Rano/IT

B-0806 Diagnostic performance and interobserver variation in quantitative proton magnetic resonance spectroscopy of the breast at 1.5T: a prospective single-centre cross-sectional study
P.A. Jester1, J. Schelhorn1, M. Benndorf4, W.A. Kaiser2, M. Dietzel1, Jena/DE, 2Wroclaw/DE

B-0807 Ex-vivo MRI of breast specimen: an innovative technique for the management of only or better MR-detected cancer
G. Tere1, R. Apignisi2, D. Vergne, B. Valery3, C. Ferraris4, S. Bohn5, I. Mauger1, M. Carcangiu1, D. Scaramuzza1, Milan/IT

B-0808 MR microscopy of the human eye: correlation with histology
P. C. Proctor1, S. Langner1, K. Falke1, R. Gutfreuth2, D. Stache3, N. Hosten3, Geyra/Tanger2, 1Rostock/DE

B-0809 Contrast-enhanced ultrasonography (CEUS) using xenon-enhanced dual energy CT
T.R. Johnson1, S.F. Thieme1, W. Moeller2, S. Becker1, U. Schuschnig3, E.M. Jung1, A. Agha1, 1Munich/DE, 2Neuenberg/DE, 3Gräfelfing/DE

B-0810 Ventilation imaging of the paranasal sinuses using xenon-enhanced dual energy CT
T.R. Johnson1, S.F. Thieme1, W. Moeller2, U. Schuschnig1, E.M. Jung1, A. Agha1, 1Munich/DE, 2Neuenberg/DE, 3Gräfelfing/DE

B-0812 Quantification of metal artefacts on cone beam computed tomography images
M. Paavolainen1, H. Bremberg2, M. Jacoby1, P. Bogaerts5, H. Stamatakis5, K. Yukiakis6, K. Rümann6, Leuven/BE, 6Athens/GR, 1Manchester/UK

B-0813 A customised dental CT software for automatic correction of patient positioning error and detection of jaw midline
A. LaCasto1, G. Petrucco1, P. Salsa1, P. Purpura1, F. Barrella1, G. La Tona, Palermo/IT
Abdominal Viscera

SS 1701 MRI of focal liver lesions
Moderators: S. Bohata, Brno/CZ, P. Huppert, Dannstadt/DE

10:30 – 12:00 Room I/K

B-0814 Comparison of three methods of apparent diffusion coefficient evaluation in assessing solid focal liver lesions with diffusion-weighted imaging (DWI)
R. Gridelli, S. Pullini, L. Cerceser, M. Del Pin, G. Corino, M. Bazzocchi, C. Zuani, Udine/IT

11:06

B-0822 Comparison of three methods of apparent diffusion coefficient evaluation in assessing solid focal liver lesions with diffusion-weighted imaging (DWI)
R. Gridelli, S. Pullini, L. Cerceser, M. Del Pin, G. Corino, M. Bazzocchi, C. Zuani, Udine/IT

11:15

B-0823 Comparison of the apparent diffusion coefficient thresholding method vs. lesion-to-liver ADC ratio in discriminating solid benign and malignant focal liver lesions (FLLs)
S. Pullini, R. Gridelli, M. Del Pin, L. Cerceser, G. Corino, M. Bazzocchi, C. Zuani, Udine/IT

11:42

B-0826 How useful is a quantified analysis of hepatobiliary phase imaging in the characterization of focal hepatic lesions? A comparison of dynamic gadoxetic acid contrast-enhanced (Gd-EOB-DTPA) MRI versus apparent diffusion coefficient (ADC)

11:51

B-0827 Comparison of MR elastography and diffusion-weighted MR imaging for differentiating benign and malignant focal liver lesions
S.K. Venkatesh, G. Wang, K. Mathavanan, A. Wee, Singapore/SG

10:30 – 12:00 Room L/M

Cardiac

SS 1703 CT and MRI: risk stratification, prognosis and outcome
Moderators: A. Bernardini, Terni/IT, M. Pazownicz, Krakow/PL

10:30

B-0828 Gender differences in the prognostic value of cardiac CT angiography

10:57

B-0821 Sensitivity and specificity of DWI-related parameters, apparent diffusion coefficient (ADC), diffusion coefficient (D) and perfusion fraction (PF), in distinguishing among benign and malignant focal liver lesions (FLLs)
F. Beghi, F. Pasquini, C. Nardi, L. Mazzoni, G. Belli, S. Colagrande, Florence/IT, Arezzo/IT

11:06

B-0822 Comparison of three methods of apparent diffusion coefficient evaluation in assessing solid focal liver lesions with diffusion-weighted imaging (DWI)
R. Gridelli, S. Pullini, L. Cerceser, M. Del Pin, G. Corino, M. Bazzocchi, C. Zuani, Udine/IT

11:15

B-0823 Comparison of the apparent diffusion coefficient thresholding method vs. lesion-to-liver ADC ratio in discriminating solid benign and malignant focal liver lesions (FLLs)
S. Pullini, R. Gridelli, M. Del Pin, L. Cerceser, G. Corino, M. Bazzocchi, C. Zuani, Udine/IT

11:24

B-0824 Sensitivity of visual assessment vs apparent diffusion coefficient quantification in differentiating malignant and solid benign focal liver lesions with diffusion-weighted imaging
R. Gridelli, M. Del Pin, S. Pullini, L. Cerceser, G. Corino, M. Bazzocchi, C. Zuani, Udine/IT

11:33

B-0825 Is white-blood (2-min)-phase in dynamic liver MRI using hepatobiliary contrast agent (Gd-EOB-DTPA) really useless compared with black-blood (20-min)-phase? A preliminary study
S. Pullini, R. Gridelli, M. Del Pin, L. Cerceser, G. Corino, M. Bazzocchi, C. Zuani, Udine/IT

11:42

B-0826 How useful is a quantified analysis of hepatobiliary phase imaging in the characterization of focal hepatic lesions? A comparison of dynamic gadoxetic acid contrast-enhanced (Gd-EOB-DTPA) MRI versus apparent diffusion coefficient (ADC)

11:51

B-0827 Comparison of MR elastography and diffusion-weighted MR imaging for differentiating benign and malignant focal liver lesions
S.K. Venkatesh, G. Wang, K. Mathavanan, A. Wee, Singapore/SG

10:30 – 12:00 Room L/M

Cardiac
10:48
B-0830 Prognostic value CT coronary angiography in subjects with suspected CAD: focus on severity of coronary artery disease and presenting symptoms. Results from the CONFIRM Registry (coronary CT angiography evaluation for clinical outcomes: an international multicentre registry)
E. Maffei1, F. Cademartiri1, S. Seitun1, M. Hadamitzky1, P. Kaufmann1, N. Auer1, L. Shrivastava2, D. Raff2, T. Wilensky3, R. Banys4, Royal Oak, MI/US, 'Bethesda, MD/US

10:57
B-0831 Coronary computed tomography angiography in the selection and evaluation of outliers patients: results from the international multicentre CONFIRM (coronary CT angiography evaluation for clinical outcomes: an international multicentre registry)
E. Maffei1, F. Cademartiri1, S. Seitun1, J.K. Min1, M. Al-Mallah1, M.J. Budoff1, T.Q. Callister1, V. Chen2, A. Delago3, Monastier di Treviso/IT, Genoa/IT, Munich/DE, Zwick/ZH, New Haven, CT/US, Atlanta, GA/US, 'Royal Oak, MI/US, 'Bethesda, MD/US

11:06
B-0832 Increased left atrial or left atrial appendage volume: an independent risk factor for cardioembolic stroke in patients without atrial fibrillation? Cardiac computed tomography study
M. Farina, R. Vannini, M. Hedman, F. Jundt, P. Spola, Monastier di Treviso/IT

11:15
B-0833 Frequent and widespread vascular abnormalities in human STAT3 deficiency detected by whole body MR and cardiac CT scan
A.A. Ashtarte1, U. Chander1, L. Riccard1, E. Trouseau1, F. Bourguie1, Z. Malzer1, F. Fischer1, Paris/FR

11:24
B-0834 Anomalous coronary artery originating from opposite coronary sinus frequently reveals multiple high risk anatomy features
M. Prasson1, T. Murasaki-Itani1, B. Lisovetz2, B. Rigo, R. Bany1, M. Ubiarczyk-Zawadzka1, M. Krupinski1, T. Miszalski-Jamka1, B. Róg1, R. Banys1, 'Krakow/PL

11:33
B-0835 Italian cardiac CT registry: preliminary results
F. Cademartiri1, M. Francione1, L. Patanar1, L. Carbone2, G. Lupi1, L. Levato1, E. Di Cesare1, Monastier di Treviso/IT, Roma/IT, 'Riccione/IT, 'Bologna/IT, 'Modena/IT, 'Bologna/IT

11:42
B-0836 Prevalence of MRI-detected unrecognised myocardial infarction and its relation to cerebral ischaemic lesions in both genders
E. Ersland1, B. Nylind2, R. Thors1, H. Ahlstrom1, L. Lind1, E.-M.B. Larsson1, F. Cademartiri2, Monastier di Treviso/IT, 'Palermo/IT, 'Genoa/IT, 'Lusso/IT, 'Bologna/IT, 'Rome/IT

11:51
B-0837 Age- and sex-related differences in outcome based on computed coronary angiography: preliminary results from the Italian National PRORECAD Registry
E. Maffei1, F. Cademartiri1, M. Midda1, S. Seitun1, M. Rege2, V. Rossi3, M. Francione1, F. Cademartiri1, Monastier di Treviso/IT, 'Palermo/IT, 'Genoa/IT, 'Lusso/IT, 'Bologna/IT, 'Rome/IT

10:30
B-0838 Requesting radiological investigations - do junior doctors know their patients?

10:39
B-0839 Acute pancreatitis: qualitative and quantitative evaluation using DW-MRI with parallel imaging technique and multiple b gradient factor values
P. Bona1, F. Donati, R. Gaioni, F. Pacciardi, G. Gherarducci, C. Bartolozzi, F. Falaschi, Padua/IT

10:48
B-0840 Erect chest radiograph in the setting of the acute abdomen: essential tool or waste of resources and unnecessary
S. Kazi1, W. Smeenge De River1, G. Morris-Stiff1, M.H. Lewis1, London/UK, Nottingham/UK, 'Cleveland, OH/US, Llantrisant/UK

10:57
B-0841 Prediction of bowel necrosis extent basing on the degree of bowel dilatation detected by CT reconstructions
M. Manzetti1, A.A. Stabile1, A. Lorusso, M. Telega1, A. Scardapane1, G. Apostelli1, Bari/IT

11:06
B-0842 Findings of sigmoid volvulus at CT
A. Canzani1, M.-C. Julien1, M. Zita1, Paris/FR

11:15
B-0843 Abdominal CT in emergency: how to avoid the missed diagnosis of appendicitis
E. Pace1, A. Filippone1, R. Cianc1, V. Bianco1, G. Esposito1, A. Cotroneo1, Crotone/IT

11:24
B-0844 Acute bowel ischaemia: analysis of diagnostic error by primarily overlooked findings at multidetector CT angiography
M. Preti1, A.A. Lemco1, A. Maffi1, E. Contessini1, A. Avanesi1, P. Biondetti1, Modena/IT

11:33
B-0845 CT diagnosis of nature of bowel obstructions: morphological evaluation of the transitional point
M. Manzetti1, T. Cosimo1, F. Biocetti1, A. Scardapane1, A.A. Stabile1, G. Apostelli1, Bari/IT

11:42
B-0846 Abdominal paediatric trauma: radiologic findings and managing in solid viscera injury
J. Guibernau Lisitano1, J.I. Ribo2, Gerona/ES, 'Esplugues del Llobregat/ES

11:51
B-0847 CEUS usefulness in the characterisation of haemodynamic abnormalities associated with endoleak following endovascular treatment of abdominal aortic aneurysms
F. Pinto1, C. Acampora1, A. Pinto1, R. Farina1, S. Nicotra1, L. Romano1, Naples/IT
**Physics in Radiology**

**SS 1713  Dose optimisation and assessment in CT**
Moderators: R. Bacher, Gent/BE; J. Geleijnse, Leiden/NL

10:30  **B-0848** Dose reduction with automated attenuation-based tube potential selection in patients with testicular cancer
R. Ullberg3; 1 M.-A. Weber1, A.M. Nagel1, M.B. Wolf1, K. Jurkat-Rott2, W. Semmler1, J. Zizka, J. Jandura, T. Kvasnicka, J. Grepl; 1 Hradec Kralove/CZ, 2 Iraklion/GR

10:39  **B-0849** Screening CT colonography with 256-slice scanning: comparison of radiation risks and benefits
K. Persinakis1, I. Seimenis2, A.E. Papadakis3, A. Tzedakis3, J. Damlakis3, H. Ebersberger1, F. Tricarico1, P. Apfaltrer1, R. Vliegenthart2, K. Perisinakis1, I. Seimenis2, A.E. Papadakis3, A. Tzedakis3, J. Damlakis3, H. Ebersberger1, F. Tricarico1, P. Apfaltrer1, R. Vliegenthart2, 1 Athens/GR, 2 Alexandria/GR, 3 Ioannina/GR

10:48  **B-0850** Reduction of effective and organ dose to the eye lens in cerebral MDCT scans using iterative image reconstruction
J. Zöller, J. Jandura, T. Rivanszicka, J. Grepl; Hradec Kralove/CZ

10:57  **B-0851** Ultra-low radiation dose 64-row MDCT: multicentre clinical trial to assess the diagnostic feasibility of model-based iterative reconstruction (ultra-low Veo study)

11:06  **B-0852** Feasibility of 50% dose reduction in whole body lymphoma staging CT using iterative reconstruction
T. Persson1, M. Jafari2, M. Meyer, J. Shi, S.A. Klein, P. Aplfalter1; 1 Schöningen, 2 Mannheim/DE

11:15  **B-0853** CT evaluation of coronary artery stents: potential for radiation dose reduction using iterative image reconstruction techniques
H. Frangakis1, A. Vaxevanis1, K. Tsoukalas1, R. Weigert1, T. Bärnstedt1, G. Rowe2, A. Leben3, E. Hoffmann4, U. Schöpf1, 1 Charleston, SC/US, 2 Groningen/NL, 3 Forchheim/DE, 4 Munich/DE

11:24  **B-0854** DNA damage repair kinetics from ionising radiation in the range of doses experienced in CT

11:33  **B-0855** Organ dose correlation with an attenuation-based patient size metric
M. Khatonabadi1, A. Turner1, D. Zhang1, G. Chu1, A. Banola1, D. Osi1, D. Rabbett1, D. Marin2, S. Richard2, E. Samei2, T.A. Jaffe2, T.A. Jaffe2, 1 Ioannina/GR, 2 Charleston, SC/US

11:42  **B-0856** The effect of CT dose reduction on performance of a diagnostic task
D. Zhang1, M. Khatonabadi1, C.M. Judie, E. Zaragoza, H. Kim, M. Lee, D. Rabbett1, D. Marin2, S. Richard2, E. Samei2, T.A. Jaffe2, T.A. Jaffe2, 1 Ioannina/GR, 2 Charleston, SC/US, 3 Milwaukee, WI/US

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**Paediatric**

**SS 1712  Body and bones**
Moderators: A.D. Calder, London/UK; H.-J. Mentzel, Jena/DE

10:30  **B-0858** Additional value of FDG-PET in partial responders on CT: data deriving from a multicentric Italian paediatric HD study
E. Lopic1, R. Burrell1, A. Cistaro1, A. Piocardi1, L. Guerra1, A. Chiti1, P. Zucchetta1, S. Fanti1, 1 Rozzano/IT, 2 Ferrara/IT, 3 Fermo/IT, 4 Tunno/IT, 5 Gemona/IT, 6 Marcia/IT, 7 Padua/IT, 8 Bologna/IT

10:39  **B-0859** Voiding urosonography with a second generation contrast agent as a first step study for the diagnosis and grading of vesicoureteric reflux in children
A. Ntoulia1, F. Papadopoulou1, F. Papachristou2, E. Siomou1, K. Darre2; 1 Ioannina/GR, 2 Thessaloniki/GR

10:48  **B-0860** Contrast-enhanced voiding urosonography for diagnosis of vesicoureteric reflux in comparison to conventional methods: a meta-analysis
F. Papadopoulou1, F. Papachristou2, A. Ntoulia1, K. Darre2; 1 Ioannina/GR, 2 Graz/AT, 3 Philadelphia, PA/US

10:57  **B-0861** Diagnostic accuracy and clinical significance of magnetic resonance enterography of the small intestine in comparison with ileocolonoscopy in paediatric inflammatory bowel disease
U. Fagerberg1, M.R. Bashir2, R.C. Nelson2; 1 Ulm/DE, 2 Heidelberg/DE

11:06  **B-0862** Multiphase contrast-enhanced MRI for control of subacute trauma of abdomen and chest in children
A. Piotrowski1, T. Alhadow, N. Seimenis, O. Karaseva, I. Melnikov, S. Sidorn, Moscow/RU

11:15  **B-0863** The importance of advanced MRI techniques as the definitive diagnostic tool in the differentiation between osteomyelitis and osteonecrosis in children with sicklecell disease
A. Alavi, J. De La Fuente; 1 London/UK

11:24  **B-0864** Pixel-by-pixel analysis of DCE-MRI curve shapes in knees of juvenile idiopathic arthritis patients
R. Herbig1, C. Lamm1, M. van den Berg, P.M. Bolman, M. van Veenendaal, D. Schonenberg, T.W. Kuijpers, M. Maas; 1 Leiden/NL

11:33  **B-0865** Permanent muscular sodium overload and muscle oedema in Duchenne muscular dystrophy: a possible contributor of progressive muscle degeneration
M.-A. Weber1, A.M. Nagel1, M.B. Wolf1, K. Jurkat-Rott1, W. Semmler2; 1 München/DE, 2 Munich/DE
B-0866 Evaluation of a radiation dose reduction strategy for paediatric abdomen CT: comparison between automatic exposure control and weight-based mAs
Y.-W. Kim¹, J.-Y. Lee², H. Kim³, Yangsan/KR, ²Pusan/KR

B-0867 Improvement of image quality in paediatric patients by lowering the tube voltage to 40 kV at fixed effective dose in digital radiography. Simulating radiography of extremities
J. Gröne, U. Nesbit, R. Hess, R. Wolf, Berno/CH, Hamburg/DE

B-0868 Evaluation of a radiation dose reduction strategy for paediatric abdomen CT: comparison between automatic exposure control and weight-based mAs
Y.-W. Kim¹, J.-Y. Lee², H. Kim³, Yangsan/KR, ²Pusan/KR

B-0869 Potential complications at CT colonography in asymptomatic and symptomatic patients: national survey of Italy
M. Rizzi¹, S. Tartari¹, G. Cavalli¹, M. Princivalle¹, R. Righi¹, G. Anania¹, G. Benea¹, Lagosanto Ferrara/IT, Ferrara/IT

B-0870 Value of CT colonography as preliminary study prior to laparoscopic surgery in patients with colon malignancies and complicated diverticular disease
R. Rizzi¹, S. Tartari¹, G. Cavalli¹, M. Princivalle¹, R. Righi¹, G. Anania¹, G. Benea¹, Lagosanto Ferrara/IT, Ferrara/IT

B-0871 Effective radiation dose in CT colonography: did we make progress?

B-0872 Comparison of 64-slice CT colonography with conventional colonoscopy in patients with ulcerative colitis
N. Flamini, N. Kiani, O.P. Bhain, S. Rana, R. Singh, N. Khandelwal, Chandigarh/IN

B-0873 Low-dose computed tomography to detect body packing: stepwise dose reduction in an animal model

B-0874 Material decomposition of spectral CT: a new way in the prediction of response to chemotherapy in gastric carcinoma
L. Tang, X.P. Zhang, Y.-S. Sun, L.-P. Qi, Y. Cui, S.-Y. Gao, Y. Li, Beijing/CN

B-0875 The accuracy of pre-operative CT in the assessment of the acute abdomen
J. Weir-McCall, O. Christodoulou, A. Shen, A. Arora, A. Knight², D. Howlett¹, Dundee/UK, London/UK, Eastbourne/UK

B-0876 Quantitative imaging biomarkers from PET-CT as potential correlates for angiogenesis and hypoxia in colorectal cancer
B. Ganeshan¹, Z. Ziauddin¹, V.J. Koh, M. Rodriguez-Jurado¹, A. Engedal², S.A. Taylor³, S. Hallyer³, K.A. Miles³, J.M. Groves³, ¹Brighton/UK, ²London/UK, ³Brighton/UK

B-0877 Contrast enhanced MRI features of early (microscopic) extra-capsular disease in patients with known prostatic cancer
F.-Z. Li, N. Inglese, A. Ambrosino, C. Allan, A. Freeman, C. Moore, M. Timberton, J. Kelly, S. Punwani, London/UK

B-0878 MRI as an imaging surrogate to predict radiation dosimetry borders: a methodology feasibility study
A. Kovacs¹, P.O. Zinn², F.P. Schwann³, F.A. Jolesz³, I. Repa¹, R.R. Colen³, Kapossvar/HU, ¹Texas, TX/US, ²Boston, MA/US

B-0879 MRI-based liver segmentation for quantification of functional liver volume: evaluation of a threshold-based method facilitated by hepatobiliary contrast media (Gd-EOB)

B-0880 Diagnostic value of functional magnetic resonance imaging for differentiation of benign osteoporosis and multiple myeloma
M. Suniakauskaite¹, J. Hillengass¹, C. Bourillon¹, C. Badoual¹, M. Bernardini, H.-P. Schlemmer¹, H. Goldschmidt¹, S. Delorme, Heidelberg/DE

B-0881 Early prediction of histopathological response to pre-operative chemotherapy in locally advanced gastric cancer by FDG PET-CT
P. Majer, L. Leccisotti, G. Torella, R. Penniani, A. Giordano, L. Bonomo, Rome/IT

B-0882 ADC maps: differentiation of metastatic from non-metastatic lymph nodes in patients with endometrial cancer
G. Reichs, C. Galimberti, A.C. Gadonico, C. Talei Francesi, P. Perego, S. Simon, Monza/IT

B-0883 Multimodality quantification of tumour perfusion in diffusion-weighted MRI and dynamic PET in a rodent model

B-0885 MRI-based liver segmentation for quantification of functional liver volume: evaluation of a threshold-based method facilitated by hepatobiliary contrast media (Gd-EOB)
Monday, 14.00 – 15.30 Room D1

**Interventional Radiology**

**SS 1809 Experimental**

Moderaed by: J.H. Pienprap, Prague/CZ, M.A.J. van den Bosch, Utrecht/NL

14:00

B-0897 Experimental feasibility study on real-time ultrasound elastography of hepatic thermal lesions: first results

P. Hoenemann, E.-M. Jung, C. Strouczynschi, Regensburg/DE

14:09

B-0898 Radioembolisation with Y-90 glass microspheres: do we really need SPECT-CT to identify extrahepatic shunts?


14:18

B-0899 Angiographic and pathological comparison of hydrogel-coated coils and fibered coils in a sheep model


14:27

B-0900 Multipolar hepatic RFA: influence of electrode configuration on coagulation volume


14:36

B-0901 Mid-term recanalisation after embolisation using hydrocoils vs fibered coils in an animal model


14:45

B-0902 Portal vein ligation alone compared with portal vein and hepatic artery ligation in a rodent model


14:54

B-0903 Microwave ablation of the kidney: evaluation of cooled antegrade pyeloperfusion for protection of the collecting system in an in vivo porcine model


15:03

B-0904 An experimental study on multimodal visibility (angiography, CT and MRI) of embolisation particles performed in porcine kidneys


15:12

B-0905 Ablation therapy of hepatic malignancy: a comparative study between radio-frequency and microwave ablation techniques


15:21

B-0906 Microwave ablation compared with radiofrequency ablation for breast tissue in an ex vivo bovine udder model

Scientific Sessions

**Musculoskeletal**

**SS 1810a Arthrography and advanced MR technology**

 Moderators: S.G. Davies; Llantrisant/UK, M. Rupreht; Maribor/SI

**14:00**

**B-0907** MR arthrography of the shoulder: prospective tolerance evaluation of four different injection techniques

E. Perdikakis, A. Karantanas; Iraklion/GR

**14:09**

**B-0908** SLAP tears at 3.0T shoulder MR arthrography: diagnosis with a 3D isotropic VIBE sequence versus 2D standard sequences


**14:18**

**B-0909** Preoperative assessment of anterior shoulder instability, comparative study of MR arthrography and CT arthrography

S. Khedr; Jiddah/SA

**14:27**

**B-0910** CT arthrography (CTA) of the hip and shoulder: optimisation of technique and of radiation burden in vitro and in cadavers

L. Scarciolla¹, C. Maréchal², A. Tromba², M. El Hachemi³, T. Thirion², B. Beomonte Zobel¹, P. Simoni²; ¹Rome/IT, ²Liege/BE, ³Beaufays/BE

**14:36**

**B-0911** Capsular laxity of the hip: findings at MR arthrography

O. Magerkurth¹, J.A. Jacobson², Y. Morag², E.M. Caoili², D. Fessell², J. Sekiya²; ¹Basle/CH, ²Ann Arbor, MI/US

**14:45**

**B-0912** MR-traction arthrography of the hip in femoroacetabular impingement

E. Schmaranzer, M. Kogler, M. Reichkendler, P. Vavron; St. Johann/AT

**15:03**

**B-0914** The accuracy of dynamic magnetic resonance imaging in evaluation of internal derangement of the temporomandibular joint: comparison with arthroscopic findings

MF. Amin, A.M. Hassan, K.I. Barakat; Elminya/EG

**15:12**

**B-0915** Assessment of articular cartilage repair tissue after matrix-associated autologous chondrocyte transplantation or the microfracture technique in the ankle joint using diffusion-weighted imaging at 3 Tesla

S.R. Apprich¹, S. Trattnig¹, G.H. Welsch¹, I.M. Noebauer-Huhmann¹, S. Domayer¹; ¹Vienna/AT, ²Erlangen/DE

**15:21**

**B-0916** Feasibility of gagCEST imaging on a clinical 3T MRI system: initial results and comparison with sodium imaging at 7 Tesla

B. Schmitt, G.H. Welsch, S. Zbyn, S. Geed, S. Trattnig; Vienna/AT

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**Paediatric**

**SS 1812 Neuro and fetal imaging**

 Moderators: J.-P. Chateil; Bordeaux/FR, J. Geiger, Freiburg/DE

**14:00**

**B-0917** Effect of x-ray tube parameters and iodine concentration on radiation dose and image quality in paediatric and adult brain CT angiography: a phantom study

A.E. Papadakis, K. Perisinakis, M. Rassak, J. Damilakis; Iraklion/GR

**14:09**

**B-0918** Bismuth shielding and automatic tube current modulation during paediatric head CT

M. Rassak, A. Papadakis, K. Perisinakis, J. Damilakis; Iraklion/GR

**14:18**

**B-0919** A local dose survey of cranial CT in children: comparison with different European DRL levels and possibilities for dose optimisation

M. Nacar; Istanbul/TR

**14:36**

**B-0920** Evaluating the diagnostic accuracy of ultrasound in craniosynostosis among infants under 1 year

M. Nacar; Istanbul/TR

**14:45**

**B-0921** Magnetic resonance imaging of diffuse axonal injury in acute period of paediatric cranio-cerebral trauma

I. Memakhov, T. Akhadov, N. Semenova, A. Petryakina, S. Sidorenko; Moscow/RU

**14:54**

**B-0922** Impairment of the branches of the deep cerebral veins on neonatal germinal matrix haemorrhage using susceptibility-weighted imaging


**15:03**

**B-0923** Fractional anisotropy of the foetal midbrain and myelination


**15:12**

**B-0924** Role of foetal MRI in the evaluation of cerebellar morphostructure and biometry

L. Manganiello, A. Tomini, F. Fierro, S. Bernardi, V. Viano, P. Sollazzo, M.E. Sergi, E. Silvestri, M. Maini; Rome/IT

**15:21**

**B-0925** MR lung volume assessment at different times of gestation for prediction of survival, need for ECMO-therapy and development of chronic lung disease in fetuses with congenital diaphragmatic hernia


**15:26**

**B-0926** Utilisation of neonatal brain MRI: experience, variation and implications: a survey study of UK level 3 neonatal units

C. Sayer¹, L. Vitta²; ¹Brighton/UK, ²Hove/UK
Genitourinary

SS 1807 GU gems and jewels

Moderators: M.A. Cova, Thiesse/T, D. Yakar, Nijmegen/NL.

14:00 - 15:30 Room F1

B-0927 Testis cancer: MDCT staging with histopathological correlation

14:09

B-0928 Diffusion-weighted magnetic resonance imaging in patients selected for radical cystectomy: detection rate of pelvic lymph-node metastases
R. Cazzato, R. Del Vescovo, E. Faella, F. D'Agostino, R. Francesco Grasso, B. Bosambrone Zobel, Rome/IT

14:18

B-0929 Does USPIO-enhanced diffusion-weighted MRI enhance the diagnostic accuracy of lymph-node staging in normal sized lymph nodes of patients suffering prostate or bladder cancer?

14:27

B-0930 Ultrasound parameters of iron oxide-enhanced MR-imaging of ischaemic acute renal failure in a rat model on a clinical 3T scanner

14:36

B-0931 Sonoelastography in patients with endometriosis of different location

14:45

B-0932 Possibilities of real-time sonoelastography in local staging of endometrial cancer
T.S. Kurganskaya, A.V. Zubarov, Moscow/RU

14:54

B-0933 Real-time compression elastography of the peripheral zone prostatic cancer: the impact in improving the diagnostic approach
O. Zacharyros, A. Geometric, Mistras/GR

15:03

B-0934 Diagnostic role of DT perfusion in the management of patients affected by prostate cancer
M. Guelmi, D. Pellino, D. Caruso, D. Giansante, A. Laqui, Latina/IT

15:12

B-0935 Selective arterial embolisation of symptomatic giant renal angiomyolipoma: efficacy, complications and long-term outcomes
M. Alou El-Dhah, A. El-Assmy, H. Refaie, T. El-Diasty, Mansoura/EG

15:21

B-0936 Evaluation of dynamic contrast-enhanced MR-urography (DCE-MRU) for the determination of the split renal function in chronic and intermittent urinary obstruction in comparison to diuretic renal scintigraphy (DRS): results of a prospective, multicentre study

15:30

B-0944 Radiological findings in mammary autologous fat injections: a multimodality evaluation

15:45

B-0943 Are mammographic follow-up findings indeed more pronounced after intraoperative radiotherapy for breast cancer? Subgroup analysis of a randomised trial (TARGIT A)

15:54

B-0945 Breast-conserving surgery for non-palpable breast cancer: relationship of lumpectomy resection margins measurements between remote perioperative ultrasound and postoperative histopathology
C. Leclercq, I. Pros, V. Debege, L. Alami, J-F. Delabuye, R. Meul, J.-Y. Meuwly, Vandoeuvre/FR
B-0946  Tumour to breast volume ratio as measured on MRI: a possible predictor of breast conservation surgery versus mastectomy
R. Faermann, F. Sperber, S. Schneebaum, D. Barsuk; Tel Aviv/IL

14:00 - 15:30  Room G/H

Musculoskeletal

SS 1810b  Trauma and vertebroplasty
Moderators: J. Raposo; Lisbon/PT, A. Vieira; Porto/PT

14:00  B-0947  The tibiofibular syndesmotic injury in acute ankle fracture: CT evaluation
Y. Kim, Y. Choi, M. Im, K. Lee, Y. Lee, J. Kim; Seoul/KR

14:09  B-0948  Detection of bone marrow lesions with dual energy CT virtual noncalcium technique is not affected by dose reduction
G. Pache, S. Bulla, P. Blanke, T. Baumann, M. Langer; Freiburg/DE

14:18  B-0949  Cone beam CT for quantitative assessment of bone defect healing: an animal study

14:27  B-0950  Seemingly isolated greater trochanter fractures do not exist
D. Dunker1, J.H. Gothlin1, M. Geijer2; 1 Gothenburg/SE, 2 Lund/SE

14:36  B-0951  Operative management of intra-capsular femoral fracture: is the requirement for additional imaging a barrier to operating within the 48-hour target?
R.G.E. Clement, Z. Davis, F. Perks; Edinburgh/UK

14:45  B-0952  CT-guided minimally invasive musculoskeletal procedures augmented by a novel optical navigation system
Y. Appelbaum1, A. Hirschbein2, L. Appelbaum1, Y. Libson1, J. Sosna1; 1 Jerusalem/IL, 2 Ramat/IL

14:54  B-0953  Is there any preoperative MRI predictor in patients with degenerative lumbar stenosis?
R. Alicioglu1, B. Yilmaz2, N. Bulakbasi1, C. Copuroglu2, E. Yalniz2, B. Aykac2; 1 Lefkosa-North Cyprus/TR, 2 Edirne/TR

15:03  B-0954  Percutaneous vertebroplasty with 3D rotational fluoroscopy imaging versus CT with mobile C-arm fluoroscopy guidance
A. Cannavale, P. Spinnato, A. Cenni, P. Zappoli, F. Fuzzi, G. Filomena, G. Bianchi, C. Rossi; Bologna/IT, Parma/IT

15:12  B-0955  Coblation vertebroplasty as a means of treating high risk painful vertebral compression fractures
O. Vag, J. Slotta-Huspenina, U. Nitsche, R. Rosenberg, E.J. Rummeny, J. Gaa; Munich/DE

15:21  B-0956  Dual energy CT myelography in patients with spinal osteosynthesis

Abdominal Viscera

SS 1801b  Abdomen
Moderators: F.A. Arredondo; Guatemala City/GT, O. Buckley; Dublin/IE

14:00  B-0957  The amount of resected liver tissue determines velocity and completeness of liver regeneration after partial hepatectomy
P.G. Kele, M.T. De Boer1, E.J. Van der Jagt1, R.J. Porte2; 1 Groningen/NL, 2 Rotterdam/NL

14:09  B-0958  Liver iron concentration quantification by MRI: are recommended protocols accurate enough for clinical practice?
M. Blasiotto1, A. Cattarella1, J.I. Empananza1, E. Zapata2, B. Costero2, M.I. Iroz1, E. Salvador1; 1 San Sebastian/ES, 2 Mendaro/ES, 3 Alcalá de Henares/ES

14:18  B-0959  New regions of interest in body composition analysis by dual energy x-ray absorptiometry: liver „adiposity”
D. Diano, A. Andreone, G. Garzillo, G. Filomena, C. Sassi, U. Albisinni, G. Battista, E. Salizzoni, A. Bazzocchi; Bologna/IT

14:27  B-0960  Reproducibility of two-point DIXON technique for measuring hepatic fat fraction
A.M. Choe, G.O. Lo, J.K.F. Chan, S. Lau, E. Wong, S.K. Yu; Happy Valley/HK

14:36  B-0961  Body composition changes after liver transplantation
A. Bazzocchi1, P. Spinnato1, A. Cenni1, P. Zappoli1, F. Fuzzi1, G. Filomena1, G. Bianchi1, C. Rossi2; 1 Bologna/IT, 2 Parma/IT

14:45  B-0962  Early hepatic artery thrombosis after liver transplantation: the impact of onset and additional risk factors in a matched case-control study
J. Bekker1, V. Fidler2; 1 Rotterdam/NL, 2 Groningen/NL

14:54  B-0963  Preoperative lymph node staging in patients with rectal cancer using dynamic magnetic resonance imaging: initial results

15:03  B-0964  Standardised cineloop in abdominal ultrasound yields high reliability of sonographic findings
J. Dormagen, M. Gaarder, A. Drolsum; Oslo/NO

15:12  B-0965  Characterisation of adrenal masses using single-phase dual energy CT
A. Albrecht, N. Murhut, T. Johnson, M.F. Reiser, A. Graser; Munich/DE
**Contrast Media**

**SS 1806** Applications in US, CT and MRI


14:00

**B-0967** Contrast-enhanced ultrasound: errors and artefacts

M. Jedrzejczyk, K.T. Sporns; Warsaw/PL

14:09

**B-0968** Bolus versus continuous infusion of microbubble contrast agent for liver US using an automatic power injector

E. Frasa, B. Calabro, S. Pulvirenti, W. Toscano, M. Cova; Trieste/IT

14:18

**B-0969** Prospective evaluation of vascular alterations in liver transplantation by intraoperative CEUS compared to conventional Doppler US: a pilot study

N. Lee, E. Vebert, D. Gacio, L. Ricca, R. Adam, D. Castaing, M. Leven; Villepinte/FR

14:27

**B-0970** Evaluation in vitro of new polymeric contrast microbubbles using Qontrast software


**Vascular**

**SS 1815** Carotid arteries

Moderators: E. Esteban; Alzira/ES, A. Spinelli, Rome/IT

14:00

**B-0977** Characterisation of neovascularisation in carotid atherosclerotic plaques with contrast-enhanced ultrasound

D.A. Finert; A. Helck, W. Sommer, T. Saam, M.F. Reiser, Munich/DE

14:09

**B-0978** Characterisation of atherosclerotic plaque of carotid arteries: high-resolution multisequence MR imaging vs colour Doppler ultrasonography

S. Tamai, R. Rizzati, M. Prinivila, K. Capelli, G. Bena; Legnaro/IT

14:18

**B-0979** Ultra low-dose dual source computed tomography angiography of the supraaortic arteries using 100kV tube voltage, a high pitch and iterative reconstruction: preliminary results


14:27

**B-0980** Comparison of 3 different evaluation criteria of carotid artery stenosis with 64-slice CT: role of cross-sectional area versus percent diameter stenosis

A.D. Aronne; G. Pontone, A. Formenti, D. Andreis, E. Nobili, F. Besana, G. Ballestrazzi, M. Pepi, P. Montorsio; Milan/IT

14:36

**B-0981** Time-of-flight images: a viable alternative to contrast-enhanced MR angiography and fat suppressed T1w images for the diagnosis of cervical artery dissection?

E.M. Coppervath, N. Lummel, J. Linn, P. Nikolaou, M.F. Reiser, Munich/DE

14:45

**B-0983** Head-to-head comparison of CTA and 3T black-blood MRI for identification of symptomatic carotid plaques


14:54

**B-0984** Pulse pressure as risk factor for MRI-detected intraplaque haemorrhage in the carotid arteries: the Rotterdam study

M. Selwaness, M. Vernooij, A. Hofman, J.J. Wentzel, J.C.M. Witteman, A. van der Lugt; Rotterdam/NE, Lagosanto/IT

15:03

**B-0985** MRI-based quantification of adventitial contrast dynamics for the carotid artery as a marker for neovascularization in atherosclerosis: comparison of symptomatic and asymptomatic patients

14:00 - 15:30  Room P

**Physics in Radiology**

**SS 1813  New technologies and algorithms**

**Moderators:** O. Ciric-Bjelac, Belgrade/RS, J.N. Vassileva, Sofia/BG

14:00

**B-0987** CT image quality improvement using adaptive iterative dose reduction with wide-volume acquisition on 320-detector CT


14:09

**B-0988** Frequency-combined extended 3D reconstruction for multiple circular beam CT scans


14:18

**B-0989** Beam-hardening and scatter removal with empirical correction for primary modulation (ECCP)

R. Grimmer, R. Fadinger, W. Hrstchow, H. Gao, M. Kachelriess, T. Metz

14:27

**B-0990** Exposition in CT-angiography: the impact of the new OPED algorithm in CT-angiography (CTA) - a phantom study


14:36

**B-0991** Radiation dose and image quality at high-pitch CT angiography of the aorta: intra-individual and inter-individual comparison with conventional CT angiography


14:45

**B-0992** A temporal resolution improvement method for cardiac CT using 120° of projections: initial patient experience


14:54

**B-0993** Full field image reconstruction in high-pitch dual source CT


15:03

**B-0994** Detection of vascular map asymmetry in breast cancer using novel functional infrared imaging techniques


15:12

**B-0995** Low dose x-ray phase contrast computed tomography for breast cancer diagnosis


15:21

**B-0996** Human medical imaging with reformed x-ray interferometry using a practical x-ray tube: a preliminary study with normal volunteers


14:00

**B-0997** Incidental detection of coronary artery calcifications on non-gated CT: do radiologists report them?

B. Bruno, G. Mirea, F. Spinnati, Y. Russo, L. Lovato, M. Zompatori

14:09

**B-0998** Progression of coronary artery calcifications during the first year after renal transplantation


14:18

**B-0999** Sport category is an important determinant of cardiac adaptation: an MRI study


14:27

**B-1000** Fully automated assessment of right ventricular functional parameters from ECG-gated coronary CT angiography data: evaluation of prototype software


14:36

**B-1001** True real-time cardiac MRI in free breathing without ECG-synchronisation using radial k-space sampling: initial results


14:45

**B-1002** Evidence of continuous helical structure of the cardiac ventricular anatomy assessed by diffusion tensor imaging magnetic resonance multi-resolution tractography


14:54

**B-1003** Inaccuracies in cine SSFP MR LV volumetric measurements in patients with LV hypertrophy: correction applying the mass conservation principle


14:00 - 15:30  Room Q

**Cardiac**

**SS 1803  Cardiac imaging: miscellaneous**

**Moderators:** T. Leiner, Utrecht/NL, N.H. Strickland, London/UK
**Scientific Sessions**

**15:03**

**B-1004** Cardiac MRI using a new trigger method: MR compatible Doppler-ultrasound device to trigger the heart frequency in comparison to ECG

B. Schoenenga, C. Much, J. Yamamura, K. Tornquist, G. Adam, U. Wedegaertner; Hamburg/DE

**15:12**

**B-1005** Non-invasive cardiac vein mapping: role of MDCT-CA

R. Malago, A. Pezzato, C. Barbiani, U. Alfonsi, G. Sala, R. Pozzi Mucelli; Verona/IT

**15:21**

**B-1006** Accelerated cine imaging of the heart in mice at 9.4 T: comparison of retrospectively self-gated and prospectively triggered FLASH sequences

P. Fies, J. Stroeder, A. Mueller, A. Massmann, R. Seidel, G. Schneider, A. Buecker; Homburg/DE

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**14:00 - 15:30 Room Z**

**Computer Applications**

**SS 1805** Imaging informatics

Moderators: M. Fatehi, Tehran/IR, P. Mc Laughlin, Cork/IE

**14:00**

**B-1007** Combination of machine learning and computer-assisted diagnosis in breast MRI: systematic investigation identifies high potential to stratify survival outcome in primary breast cancer

M. Dietzel1, A. Dietzel2, R. Zoubi1, O. Camara1, M. Bogdan2, W.A. Kaiser1, P.A.T. Baltzer1; 1Jena/DE, 2Tübingen/DE

**14:09**

**B-1008** RIS, PACS and archiving of images services and beyond delivered from the cloud: the greater Paris area experimentation

V.A. Dussaux, P. Boiron; Paris/FR

**14:18**

**B-1009** Are you keeping up to date? Over half of important radiological research is published in non-radiological journals

Y. Kwong, K. Latief; Nottingham/UK

**14:27**

**B-1010** Evaluation of pulmonary nodules on chest CT using iPad2®: preliminary experience


**14:36**

**B-1011** An ontology of magnetic resonance imaging sequences

J. Lasbleiz, A. Burgun, R. Duvauferrier, H. Saint-Jalmes; Rennes/FR

**14:45**

**B-1012** Considerations for sharing radiology reports and images on a national level in Luxembourg

U. Rott, N. Mack, B. Schneider, H. Zimmermann; Luxembourg/LU

**14:54**

**B-1013** Dedicated workflow solution to facilitate consistent, reproducible, and efficient patient monitoring in oncological trials and routine

M. Baumhauer, M. Seitel; Heidelberg/DE

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**15:03**

**B-1014** Managing IT services in a completely digitised radiological department with an in-house departmental IT group: a 7-year follow-up experience

H. Strube, S. Wirth, M.F. Reiser, M. Treff; Munich/DE

**15:12**

**B-1015** Itemised or prose radiology reports? A survey of hospital clinicians and radiologists’ preferences

L.W. Goh, H.S. Teh; Singapore/SG

**15:21**

**B-1016** A web-based documentation system with exchange of DICOM RT data for multicenter clinical studies in particle therapy

R.A. Kessel1, N. Bocan1, C. Bohm1, D. Oetzel1, U. Engelmann1, R. Bond1, J. Debu1, S.E. Combs1; 1Heidelberg/DE, 2Dossenheim/DE, 3Heilbronn/DE
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EUROPEAN CONGRESS OF RADIOLOGY

Disclosure
Disclosure Statements

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