

European Congress of Radiology

ECR 2014

Vienna

March 6–10

PRELIMINARY PROGRAMME

ONLINE

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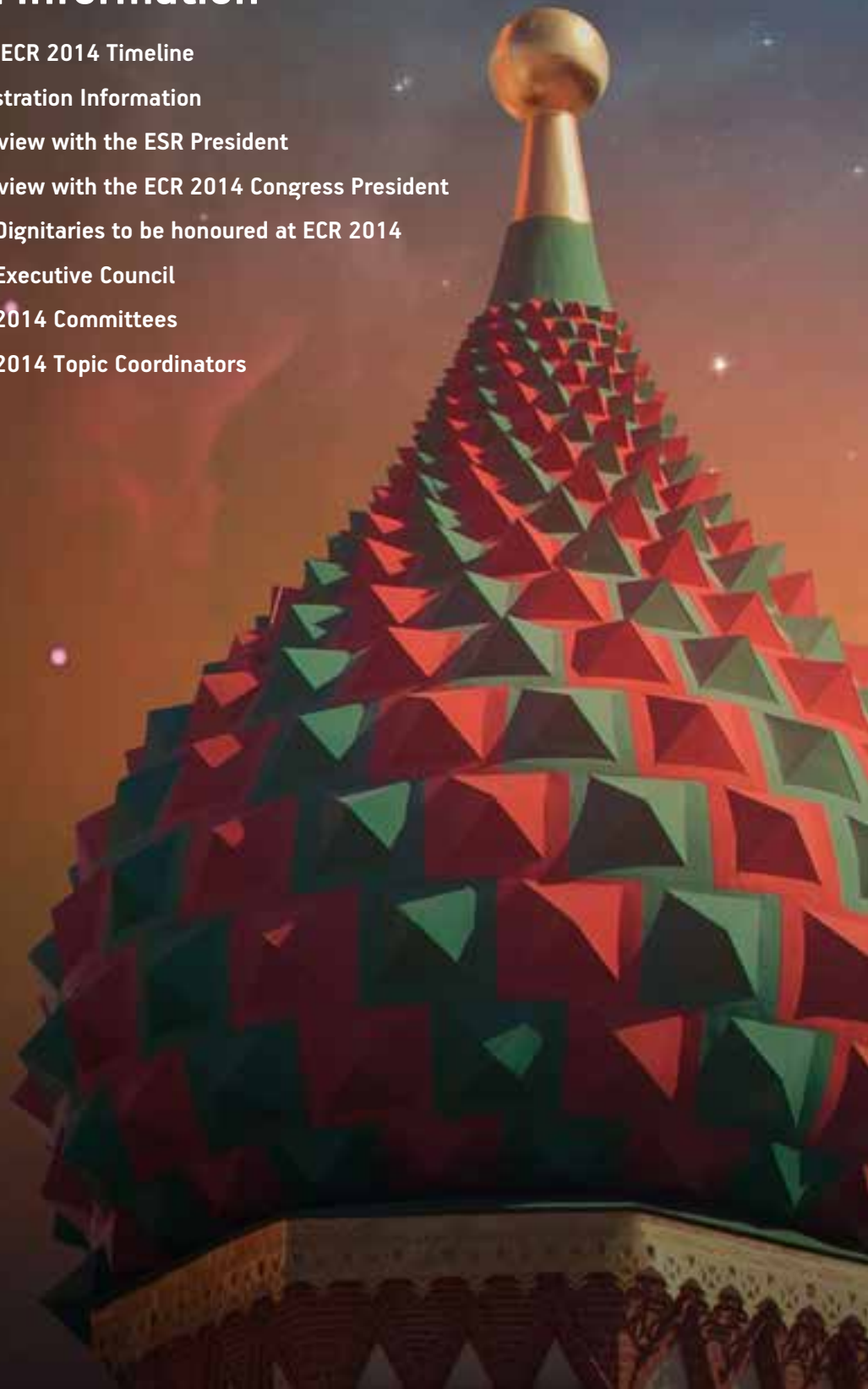


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Please note that sessions are marked with a logo to indicate their classification according to the European Training Curriculum.

LEVEL I First three years of training

LEVEL II Fourth and fifth years of training
(general radiologist standard)

LEVEL III Subspecialty training standard



European Radiology

The official journal of the European Society of Radiology

ESR

Top radiologists read more than just images

Your ECR 2014 Timeline

July 5 – September 18, 2013	Abstract Submission Scientific Papers
July 5 – September 18, 2013	Student Abstract Submission Scientific Papers
July 5 – September 18, 2013	Invest in the Youth Programme – Application Open
July 5 – December 1, 2013	Poster Abstract Submission to EPOS™ (Electronic Presentation Online System)
July 2013 – January 2, 2014	Online Submission of Accepted Exhibits to EPOS™
August 28, 2013	ESR Membership Application Deadline
August 29, 2013	Online Registration Open
November 2013	Notification of Paper Abstract Acceptance (Oral Presentations)
March 6–10, 2014	ECR 2014

Congress Venue

Austria Center Vienna
Bruno Kreisky Platz 1
1220 Vienna, Austria

Congress Language

English

CME Accreditation

An application will be made to the EACCME for CME accreditation of this event. The EACCME is an institution of the UEMS (www.uems.net). The number of credit hours of European external CME credits will be announced on the ESR website and in the Final Programme. Each ECR delegate will receive a confirmation of all activities attended.

The ECR 2013 was accredited with a maximum of 27 CME credits.

Facts & Figures 2013

- 20,098 Participants
- 3,000 registered ECR Live viewers
- 101 Countries
- 274 Scientific and Educational Sessions
- 3,000 Scientific and Educational Exhibits
- 1,020 Scientific Papers
- 580 Invited Lectures
- Fully Electronic Scientific Exhibition
- Industrial Exhibition
244 exhibitors from 37 countries
26,000 m²

Scientific and Educational Programme

- 3 Honorary Lectures
- 1 Opening Lecture
- 4 ESR meets Sessions
- 1 EFRS meets Session
- 2 Image Interpretation Quizzes
- 3 New Horizons Sessions
- 3 State of the Art Symposia
- 18 Special Focus Sessions
- 5 Professional Challenges Sessions
- 3 Multidisciplinary Sessions: Managing Patients with Cancer
- 3 Categorical Courses (18 Sessions)
- 4 Mini Courses (17 Sessions)
- 75 Refresher Courses
 - 1 Foundation Course: Breast Imaging (6 Sessions)
- 14 Interactive Teaching Sessions
 - 1 e-Learning Centre with Self Assessment Tests
 - 1 RTF – Radiology Trainees Forum:
Highlighted Lectures
 - 1 EFOMP Workshop
 - 1 ESOR Session
 - 1 ESR Radiation Protection Session
 - 1 EDiR Session
 - 1 Joint Session of the ESR and the EFSUMB
 - 1 Joint Session of the ESR and the ESMRMB
 - 1 Joint Session of the ESR/ESMOFIR and ESMI
 - 1 MIR @ ECR Session
- 12 Multimedia Classroom Sessions
 - Satellite Symposia & Industry Workshops

Let's celebrate together!



INTERNATIONAL DAY OF RADIOLOGY

THEME: LUNG IMAGING
NOVEMBER 8, 2013

WWW.IDOR2013.COM

AN INITIATIVE OF THE ESR, ACR AND RSNA



Registration Information

REGISTRATION FEES (including 20% VAT):

	Early Fee	Middle Fee	Late Fee
Full Fee Non-Member	€ 760	€ 880	€ 990
ESR Full Member	€ 460	€ 540	€ 690
ESR Allied Science Member	€ 560	€ 660	€ 890
ESR Corresponding Member	€ 560	€ 660	€ 890
Resident Non-Member	€ 350	€ 430	€ 590
Resident Member	€ 290	€ 360	€ 490
Hospital Manager	€ 560	€ 660	€ 890
Nurse**	€ 200	€ 300	€ 450
Radiographer Non-Member	€ 300	€ 400	€ 550
Radiographer Member	€ 200	€ 300	€ 450
Participate from home**	-----	€ 330	€ 330
Oral Presenter Member	€ 250	€ 250	-----
Single Day Ticket	onsite only	onsite only	€ 300
Student@ECR*	€ 40	€ 40	€ 40

REGISTRATION AS MEMBER

In order to qualify for reduced member registration fees for ECR 2014, ESR Membership for the year 2013 must have been settled and approved by August 28, 2013. All other participants must register as non-members.

*Students under the age of 30, who do not yet have an academic degree, can register for just € 40.

**PARTICIPATE FROM HOME

The registration category 'present from home' has been created for individuals who are NOT able to attend the congress in person but would still like their EPOS poster to be shown during and after the congress.

ECR REGISTRATION DEADLINES

Middle Fee: November 13 – December 18, 2013

Late Fee: from December 19, 2013 onwards

CANCELLATION INSURANCE

The ESR offers all pre-registered participants the option of taking out a cancellation policy with our partner 'Europäische Reiseversicherung'. The insurance fee depends on the ticket selected and can **only be booked during online registration**. After completion of registration and/or payment, insurance can no longer be selected. The ESR itself will not refund any registration fees.

For further information please visit www.myESR.org/registration2014 or contact registration@myESR.org



Professor Guy Frija is head of the imaging department at the Georges Pompidou European Hospital (Hôpital Européen Georges Pompidou, H.E.G.P.) in Paris.

ESR set to tackle personalised medicine and face economic realities

By Mélisande Rouger

In an interview with *ECR Today*, the daily congress newspaper, conducted in March this year, ESR President, Professor **Guy Frija** explained how the ESR should address the challenges raised by the explosion of 'omics' data and the advent of personalised medicine, as well as how it should assess the impact of the financial crisis on the specialty.

ECR Today: What are your plans and ambitions regarding your presidency?

Guy Frija: The development of the ESR since its establishment in 2005 has been amazing: the ESR is now the biggest radiological society in the world, and its annual meeting, the European Congress of Radiology (ECR), is one of the best radiology congresses worldwide. All of this is the result of intense activity in several fields, such as education, research, professional challenges and publications, for the development of which the role of my predecessors was instrumental, along with the dedication of many of our colleagues. Therefore my first goal is to keep up this momentum and run the society appropriately, in accordance with its new statutes. However, life is challenging, and we will have to face many new issues in the coming year. The explosion of 'omics' (such as metabolomics, proteomics, genomics) data is changing the face of medicine so considerably and rapidly that, if we don't pay enough attention, our specialty could be threatened. Personalised medicine is not just a dream, but an actual reality, and we have to adapt our specialty to this new paradigm. This year, DNA sequencing could become available for less than €750 (US\$1,000), and in the UK, the Prime Minister David Cameron has launched a programme for the development of personalised medicine. The development of personalised imaging, which has already begun in oncology, should be taken further, and we have to appreciate its impact on education. I will ask two or three subspecialties to reconsider their training charters in light of these new developments. The data explosion related to these changes raises not only the problem of their management, but also of their interpretation in an integrated way: the imaging parameters should be included in this new data knowledge organisation, where knowledge modelling will become a major challenge. The establishment of imaging biobanks should be promoted along with adapted data privacy regulation.

I would say that we are facing huge scientific challenges, and I will propose to the ESR Executive Council that a scientific advisory board be set up in order to help better define ESR policy.

Apart from this, we can't ignore the fact that several European countries are facing a severe economic crisis which we hadn't considered until now; I will ask the Executive Council to set up a working group on economics, in order to estimate the impact of the crisis on our specialty. The national societies will be solicited for this task.

As you can see, if our specialty needs to take a new scientific approach in order to prepare for the future, then we also have to look at the situation in our specialty across Europe.

ECRT: The ESR launched the International Day of Radiology on November 8, 2012, to build awareness about the benefits brought about by imaging. What do you think of this initiative?

GF: The International Day of Radiology was very successful; the ESR played a key role and has to be congratulated. I think that this day has to be considered as a first step on the path towards awareness. Talking about the benefits is certainly important; but we also have to promote better use of imaging, not only for safety reasons, but also, and very simply, for improving quality of care. Previous campaigns conducted in America have shown their usefulness, and I think we have to learn from these experiences. The development of such public campaigns in Europe could be beneficial; however we have to consider European diversity and adapt campaigns.

ECRT: You are a former chairman of the National Societies Committee of the ESR. Do you think the level of cooperation between the ESR and these societies has been good enough? How could it be improved?

GF: An important characteristic of the ESR is its institutional membership, i.e. the national societies, subspecialties and allied sciences societies. Let me first remind you that the foundation of the ESR was the result of the political action of five national societies in 2002. Institutional Member Societies represent the political pillar of the society, and therefore should be considered in accordance. The relationship with national societies can be described as rather good, but it is a fact that it should be improved. I will invite some of them to the leadership meetings, and set up an e-newsletter specifically dedicated to Institutional Member Societies. I also hope that the economics working group will help improve our relations.

ECRT: One of your interests is IT, and the H.E.G.P. is the most advanced hospital in France in this field. Do you think there is sufficient investment in IT services in European hospitals today?

GF: I think that IT is the backbone of the development of quality and safe practices, and it is also key to improving efficiency. Even if I don't have the figures for IT in Europe, I am quite sure that its distribution varies across different countries. In addition, IT technological advances have been extremely important in recent years and probably haven't been widely integrated yet. IT should serve the patient; the development of the electronic health record (EHR) is crucial

but still slow, and imaging's place is not well defined in terms of content and architecture. Patient radiation protection management is often limited to dose recording, while other key aspects would have to be included. Finally, eLearning needs to be structured and developed. All of the above mentioned issues will be highlighted during my presidency.

ECRT: What are the remaining issues faced by teleradiology in Europe?

GF: The ESR has always stated that teleradiology is a medical act, which should comply with the quality and safety requirements of face-to-face practice. I hope that teleradiology will not only be developed to decrease costs, but also to improve quality of care. There are several examples of its useful application, such as in stroke. I think that the development of teleradiology is inevitable, and that radiologists should shape its development by including it in their practice and management.

ECRT: How would you encourage medical students to choose radiology as their specialty? Why is radiology an interesting field?

GF: This is a very critical issue. The best approach is probably through the early introduction of imaging into medical training. Focused public campaigns using social networks should also be used. Invitations for students to attend national society annual meetings could also be useful. Finally, showing that radiology is not only a full clinical specialty, but also a key specialty for diagnosis and treatment through interventional techniques should be used to promote our specialty. In my country, radiology is chosen by the best residents, so I am not worried about the future.



ECR 2014 Congress President Valentin Sinitsyn from Moscow, Russia.

ECR 2014

will be Russian Affair

By Mélisande Rouger, Michael Crean

In March of this year, *ECR Today*, the daily congress newspaper, spoke with ECR 2014 Congress President, Professor **Valentin Sinitsyn**.

ECR Today: What will be the main highlights of ECR 2014's scientific programme?

Valentin Sinitsyn: People are increasingly interested in interactive sessions to assess what they have learned from a lecture. The ECR has been developing interactive sessions for several years now, but we want to increase that. Today, you can find a lot of information on the internet and many people might not think it is necessary to travel to a congress. We want to create something attractive and show that it is worth coming here. Nothing can replace shaking hands with your colleagues from other countries. I would be very sad if the ECR were entirely online. This is why we are making live meetings more interactive.

We would also like to change the format of scientific sessions. We are currently discussing the concept of a multimedia classroom, a model which was successfully introduced during the last SIRM congress in June 2012. This multimedia classroom offered 60 work stations from different companies with 25 different cases which were discussed at the end. We are currently discussing the structure with Professor Emanuele Neri from Pisa, who was responsible for the scientific programme of that project.

Soon we are going to use smart phones for voting during audience response sessions. But wireless technology has its limits and sometimes networks crash, so it needs a lot of work. Keypads are an old technology but they are very reliable. I am sure that next year, or the year after that, everybody will be able to vote with their own iPads or tablet.

We will also increase the number of multidisciplinary sessions. This is not something we have to do just during the ECR. This year we had the Imaging Biomarker's Course the day before the congress, which was organised by the European School of Radiology. This will take place again next year with radiation oncology as the topic.

ECR 2014 will feature New Horizons Sessions on theranostics, oncology and new technology, as radiology is developing so quickly. There will also be new State of the Art Symposia on RECIST, ischaemic stroke, cardiac imaging and obesity. Special Focus Sessions will concentrate on topics as varied as image-guided biopsies in prostate cancers, orphan diseases, dental imaging, US elastography, MR elastography, paediatric abdominal emergencies, safety standards and structured reporting. Finally, Professional Challenges Sessions will be dedicated to interventional oncology, educational challenges and the role of social media in radiology.

ECRT: Will the programme reflect your interest in cardiac radiology, and if so, how?

VS: Actually, one of the major highlights at ECR 2014 will be the 'ESR meets cardiologists' sessions. We will invite the European Society of Cardiology to take part in joint sessions on cardiac imaging. The ESC has sessions on cardiac imaging during their congress.

Cooperation with cardiologists can be very tricky. Turf battles exist, for instance concerning who should perform cardiac MRI. For me, the right answer is a multidisciplinary approach. Every radiologist thinks cardiac imaging

should be done by radiologists, but in close cooperation with cardiologists. Cardiologists have very good training in diseases, and they have more contact with patients. Those hospitals where cardiologists and radiologists work together for the benefit of the patient usually have better results. In my hospital, we are friends but things could be improved. Some cardiologists think that radiologists need better training in cardiology and better knowledge of organ pathology, cardiac disease, physiology and anatomy. Our impression is that sometimes cardiologists are not fully aware of the potential of imaging, that some consider cardiac CT or MRI a toy without real benefit for the patient. But the truth is that today cardiac imaging can do a lot for patients.

ECRT: Russia will take part in the ‘ESR meets’ programme as well. Do you think this will increase Russian attendance at the ECR?

VS: Russia was a guest country of the ESR meets programme in 2006. I was involved in preparing of this meeting and it was a great experience. Participating in the ‘ESR meets’ programme is an excellent opportunity for Russia and all countries from the former Soviet Union. Language unites us, as Russian is the second language in many of them, and every radiologist in Belarus, Kazakhstan and Ukraine, to name a few, speak Russian.

Rising attendance can prove a tough nut to crack though, as our Ministry of Health limits sponsorship of congress trips in an effort to curb corruption. Still, there are other ways to increase attendance from Russia, such as more involvement with our national society. The Russian Association of Radiologists may not have been active enough in the past, but last year we were able to substantially increase ESR membership among Russian radiologists by offering them free ESR membership. So from 200 Russian members a couple of years ago, we now have about 700 active members. Of course it isn't that much for such a large population – officially there are more than 15,000 Russian radiologists. Every year about 300 to 400 Russian radiologists attend the ECR, but it should be thousands. I hope to increase this number next year. Russian radiologists must understand that there are a lot of benefits for ESR members: congress discounts, support for young radiologists, fellowships and teacher programmes through ESOR.

ECRT: What will be the focus of the ‘ESR meets Russia’ Session?

VS: It will be a multimodality session. Russia is huge, so we decided to focus on the main diseases in our country, namely: tuberculosis, lung cancer, breast cancer, liver tumours and pancreatic tumours. The biggest problems in Russia are undoubtedly breast and lung cancers. Many Russians are smokers, but this year a smoking ban in public places was introduced, and this is very good news. Serbia and Mexico will be our other guest countries.

ECRT: What do you think about the sessions held in Russian during the Satellite Symposium organised by GE Healthcare Nycomed last Saturday at the ECR? Do you think it would be a good idea to have scientific sessions in languages other than English as well, and if yes, which ones?

VS: It's a very good initiative and a good example to follow. I already spoke with Russian-based companies about it and they took it very seriously. Siemens and Bayer HealthCare will seek to do that next year.

I want to continue this over the next few years. As I said earlier, I want the number of delegates from Russia and neighbouring countries to increase in the future, and I believe this is one way of doing it. One problem is language; I always encourage my colleagues to learn English, because it is the lingua franca of modern radiology, become ESR members and attend the ECR. We are discussing the possibility of having a few scientific sessions in different languages and seeing how they go.

ECRT: The Rising Stars programme, which grants students free registration for the ECR, attracts an increasing number of students and residents each year. Last year more than 1,400 students visited the congress, making it the world's leading student meeting in medicine. What do you think of these efforts to attract young people? Will ECR 2014 include any new features to increase their participation?

VS: This is a very good initiative. Besides medical students, we are also attracting more radiographers. This year, for the first time there is a small team of Russian radiographers at the ECR, and our cooperation with the European Society of Radiographers is improving. I like these student sessions because they can have their own presentations and workshops.

Another exciting initiative is the European Diploma in Radiology (EDiR). Last year I was one of EDiR's examiners. I am glad to see it is becoming so popular, with 50% more candidates since last year. The diploma is held in different countries at national society annual meetings and I hope it comes to Russia one day.

ECRT: The Social Media Wall and ECR Live are both in their second year at ECR 2013. What value do these services add to the congress and how do you see them developing in the future?

VS: I really admire the ECR staff, especially the new media team. The ECR is so important because it's the most modern and innovative congress. People will really begin to appreciate these new services over the next few years. It reminds me of the Electronic Presentation Online System (EPOS™). When it was launched in 2003, no one fully understood how fantastic a tool it would become. Now we cannot imagine our lives as radiologists without it, and many other congresses imitate it. But there should be a balance; we don't want to see people checking their e-mails, or their mobile phones and iPads while a speaker is delivering a presentation.



ESR/EFRS Meets SESSIONS

Once again, the ESR will welcome three countries and a partner discipline to share their expertise through its dedicated 'ESR meets' programme during ECR 2014, next March in Vienna.

Mexico, Russia, Serbia and the European Society of Cardiology (ESC) will present their most recent scientific developments in joint sessions, and try to strengthen links between professionals from different countries and disciplines.

Both the ESR and the ECR warmly welcome these societies, and hope to see ECR delegates attend the sessions in large numbers!

ESR meets Sessions

Friday, March 7, 10:30–12:00

ESR meets Russia

EM 1: Crossroads of diagnostic imaging in the big country

LEVEL II

Welcome by the ESR President

G. Frija; Paris/FR

Presiding:

N. Rozhkova; Moscow/RU

V.E. Sinitsyn; Moscow/RU

I.E. Tyurin; Moscow/RU

- **Introduction: Russian radiology today**
N. Rozhkova; Moscow/RU
I.E. Tyurin; Moscow/RU
- **CT perfusion in the differential diagnosis of CNS pathology**
I.N. Pronin; Moscow/RU
- **Interlude: Development and use of web-based teleradiology in Russia**
O.S. Pinykh; Newton Highlands, MA/US
- **Tuberculosis in Russia: a challenge for a national radiological service**
I.E. Tyurin; Moscow/RU
- **Interlude: Mystery of Denisov's cave and paleoradiology**
M. Mednikova; Moscow/RU
- **Advances in imaging of pancreatic masses**
G.G. Karmazanovsky; Moscow/RU
- **Interlude: An artistic view of CT**
A.L. Yudin; Moscow/RU
- **Panel discussion:**
Future developments in Russian radiology: which path to take?

Saturday, March 8, 10:30–12:00

ESR meets Serbia

EM 2: A guided tour of radiology in Serbia

LEVEL III

Welcome by the ESR President

G. Frija; Paris/FR

Presiding:

M.A. Lucic; Sremska Kamenica/RS

V.E. Sinitsyn; Moscow/RU

- **Introduction**
M.A. Lucic; Sremska Kamenica/RS
- **Interventional treatment of varicoceles**
P.M. Bosnjakovic; Nis/RS
- **Interlude: Radiology in Serbia at a glance**
T. Stosic-Opinca; Belgrade/RS
- **MRI in non-ischaemic cardiomyopathies**
R. Maksimović; Belgrade/RS
- **Interlude: Hop-on, hop-off sightseeing tour of Serbia**
S. Stojanovic; Novi Sad/RS
- **The role of prenatal MRI in foetal central nervous system abnormalities: a case-based pictorial review**
K. Koprivsek; Sremska Kamenica/RS
- **Panel discussion:**
Radiology in Serbia: frequently asked questions

Saturday, March 8, 16:00–17:30

ESR meets ESC (European Society of Cardiology)

EM 3: The role of imaging in the cardiac patient

LEVEL III

Welcome by the ESR President

G. Frija; Paris/FR

Presiding:

V.E. Sinitsyn; Moscow/RU

P.E. Vardas; Iraklion/GR

- **Introduction**
P.E. Vardas; Iraklion/GR
- **Assessing myocardial viability**
M. Lombardi; Pisa/IT
- **Assessing acute chest pain**
N.N.
- **Assessing valvular heart disease**
J. Schwitter; Lausanne/CH
- **Assessing interventions**
V. Delgado; Leiden/NL
- **Panel discussion**

ESR/EFRS meets Sessions

Sunday, March 9, 10:30–12:00

ESR meets Mexico

EM 4: Oncology imaging in Mexico

LEVEL II

Welcome by the ESR President

G. Frija; Paris/FR

Presiding:

C. Rodríguez-Treviño; Mexico/MX

V.E. Sinitsyn; Moscow/RU

J. Tanus-Hajj; Mexico/MX

• **Introduction**

C. Rodríguez-Treviño; Mexico/MX,

J. Tanus-Hajj; Mexico/MX

• **Abdominal imaging in oncology**

L.A. Sosa-Lozano; Mexico/MX

• **Interlude: Meet Mexico**

J.L. Ramírez-Arias; Mexico/MX

• **Interventional radiology in oncologic patients**

G. Elizondo-Riojas; Monterrey/MX

• **Interlude: Origins and development of radiology in Mexico**

M.E. Stoopen-Rometti; Mexico/MX

• **Modern issues in oncologic ultrasound**

J. Tanus-Hajj; Mexico/MX

• **Panel discussion:**

Mexican requirements for international collaboration for research programmes, including requirements for visiting professor programmes

Saturday, March 8, 14:00–15:30

EFRS meets Russia

EM 5: The role of the radiographer in image acquisition and processing

Presiding:

S. Geers-van Gemeren; Utrecht/NL

S. Mamedova; Moscow/RU

• **Introduction**

S. Geers-van Gemeren; Utrecht/NL,

S. Mamedova; Moscow/RU

• **MRI safety: the radiographers' role**

V. Labutin; Chelyabinsk/RU

• **Dynamic contrast-enhanced MRI studies in cardiology**

E. Vusik; Tomsk/RU

• **Interlude: Russian art and culture**

I. Arkhipova; Moscow/RU

• **Cardiac MDCT in children with congenital heart diseases**

V. Bereznitskiy; Moscow/RU

• **MDCT in polytrauma patients: the radiographers' role**

A. Tarasenko; Krasnodar/RU

• **Panel discussion:**

The radiographers' role in image acquisition and processing



New Horizons SESSIONS

The New Horizons Sessions aim to provide practitioners with an overview of the new developments in a specific area of practice, whether it is a subspecialty, a particular technique, or certain diseases. These developments may become routine within a few years, or may indicate a new direction for research and clinical application.

Each session is 90 minutes long and features an introduction from a chairman, followed by three or four brief presentations on different aspects of the main subject, and concluded by a panel discussion that will hopefully answer some critical questions.

Places are allocated on a first-come, first-served basis.

EPOS™

Electronic Presentation Online System

ECR 2014 Abstract Submission
for electronic exhibits (EPOS™)

Deadline: December 1, 2013
www.myESR.org/epos_submission

Browse through thousands
of electronic posters from
ECR 2003–2013 and other congresses

Open access
www.myESR.org/epos

TRADEMARK OF

ESR
European Society of Radiology

New Horizons Sessions

Friday, March 7, 08:30–10:00

NH 4: Imaging the hallmarks of cancer

LEVEL II

- **Chairman's introduction: importance of cancer hallmarks for radiologists**
A.R. Padhani; Northwood/UK
- **Cell proliferation and death**
U. Haberkorn; Heidelberg/DE
- **Angiogenesis**
F.M.A. Kiessling; Aachen/DE
- **Dysregulated metabolism**
K. Brindle; Cambridge/UK
- **Panel discussion:**
cancer hallmarks as therapeutic targets

Sunday, March 9, 14:00–15:30

NH 14: Imaging in precision medicine

LEVEL III

- **Chairman's introduction**
H. Hricak; New York, NY/US
- **Radiogenomics and personalised (precision) medicine**
G.P. Krestin; Rotterdam/NL
- **Use of nanotechnology, imaging and therapy**
T. Lammers; Aachen/DE
- **Theranostics**
W. Weber; New York, NY/US
- **Panel discussion:**
Imaging in precision medicine: extracting simplicity from complexity

Friday, March 7, 16:00–17:30

**NH 7: The human connectome:
a comprehensive map
of brain connections**

LEVEL III

- **Chairman's introduction: definitions and basic imaging technique**
P. Hagmann; Lausanne/CH
- **The economics of brain networks**
E. Bullmore; Cambridge/UK
- **Connectomics in brain pathology**
M.P. van den Heuvel; Utrecht/NL
- **Linking structure and function: the role of modeling in understanding the pathophysiology**
G. Deco; Barcelona/ES
- **Panel discussion:**
What will connectomics bring to clinicians in the future?



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 given topic as a whole or on a specific aspect of the topic.

The 90-minute sessions are chaired by a moderator who will introduce three to four speakers addressing various issues within wider subjects such as anatomical regions, specific diseases, or particular techniques. The presentations will be followed by a discussion conducted by the panellists, led by the chairman.

Places are allocated on a first-come, first-served basis.

HOST YOUR COURSE, SEMINAR OR WORKSHOP IN BARCELONA

For more information including rates,
please contact learningcentre@myESR.org



State of the Art Symposia

Friday, March 7, 16:00–17:30

**SA 7: Cardiac computed tomography:
from diagnosis to prognosis**

LEVEL III

- **Chairman's introduction**
M. Dewey; Berlin/DE
- **What are the protocols with the lowest radiation dose in clinical practice?**
J.-F. Paul; Le Plessis Robinson/FR
- **How accurate and prognostically valid is coronary CT angiography?**
F. Cademartiri; Monastier di Treviso/IT
- **Incidental findings in cardiac CT: how to report and proceed**
S. Leschka; St. Gallen/CH
- **Panel discussion:**
Cardiac CT: ready to go clinical?

Saturday, March 8, 08:30–10:00

SA 8: Radiology and obesity

LEVEL II+III

- **Chairman's introduction**
S.A. Jackson; Plymouth/UK
- **Obesity: causes and consequences to the patient**
R. Batterham; London/UK
- **Imaging of modern surgical procedures and their complications**
M. Rengo; Latina/IT
- **Fat: where it shouldn't be**
V. Vilgrain; Clichy/FR
- **Panel discussion:**
How to optimise an imaging service for the obese patient?

Sunday, March 9, 16:00–17:30

**SA 15: Tumour response assessment in
clinical practice**

LEVEL II

- **Chairman's introduction**
E. de Kerviler; Paris/FR
- **Endpoints for therapy response assessment: the oncologist's perspective**
J. Carles; Barcelona/ES
- **Revised RECIST guidelines: principles, practical applications and pitfalls**
L.S. Fournier; Paris/FR
- **Criteria beyond RECIST: Choi, mRECIST, EASL-AASLD, PERCIST**
S. Gwyther; Redhill/UK
- **Emerging biomarkers for response assessment: pros and cons**
M.C. Roethke; Heidelberg/DE
- **Panel discussion:**
Personalised response criteria for personalised therapies?



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 approach is inappropriate for such a session, which should reflect the lecturers' forthright personal views on a developing subject. The topics of these sessions should be presented in such a way as to promote debate and 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. Session length: 90 minutes; three to four speakers.

Places are allocated on a first-come, first-served basis.

Special Focus Sessions

Thursday, March 6, 16:00–17:30

SF 3: Pitfalls in FDG PET/CT imaging

LEVEL III

- **Chairman's introduction**
K. Åhlström Riklund; Umea/SE
- **Oncology**
T.F. Hany; Zurich/CH
- **Cardiology**
J. Knuuti; Turku/FI
- **Neurology**
K. Van Laere; Leuven/BE
- **Inflammation**
J. Sorensen; Uppsala/SE
- **Panel discussion:**
Is bright always bad?

Friday, March 7, 08:30–10:00

SF 4: Right heart morphology and function

LEVEL II+III

- **Chairmen's introduction**
M. Rémy-Jardin; Lille/FR
M. Gutberlet; Leipzig/DE
- **Role of cardiac CT and MRI in assessment of RV in congenital heart disease**
A.M. Taylor; London/UK
- **Right heart failure in ischaemic and non-ischaemic cardiomyopathies**
M. Grothoff; Leipzig/DE
- **Right heart and chronic respiratory diseases: can CT be used as a one-stop-shop?**
M. Rémy-Jardin; Lille/FR
- **RV and prognosis in pulmonary thromboembolic disease**
N.J. Sreaton; Cambridge/UK
- **Panel discussion:**
What is the impact of RV function assessment on patient management?

Friday, March 7, 16:00–17:30

SF 7a: Renal artery denervation in the management of resistant hypertension

LEVEL II+III

- **Chairman's introduction**
F. Fanelli; Rome/IT
- **Resistant hypertension and sympathetic nervous system**
M. Sapoval; Paris/FR
- **Renal artery denervation: current technologies, indications and contraindications**
G. Goh; London/UK
- **Procedural technique and clinical results**
J.A. Reekers; Amsterdam/NL
- **Panel discussion:**
How do you start a service?

Friday, March 7, 16:00–17:30

SF 7b: Imaging biomarkers in cancer drug development

- **Chairman's introduction**
B.E. Van Beers; Clichy/FR
- **Qualification of imaging biomarkers in drug development**
J.C. Waterton; Manchester/UK
- **Functional imaging in cancer drug development**
N.M. deSouza; Sutton/UK
- **Quantitative nuclear medicine in drug development**
W. Weber; New York, NY/US
- **Panel discussion:**
What new imaging biomarkers are on the horizon in drug development?

Special Focus Sessions

Friday, March 7, 16:00–17:30

SF 7c: Educational challenges for radiographers

- **Chairmen's introduction (part 1)**
G. Paulo; Coimbra/PT
- **Chairmen's introduction (part 2)**
L. Bonomo; Rome/IT
- **Challenges in undergraduate education**
L.J.O.C. Lanca; Lisbon/PT
- **Innovative approaches to educational enhancement: teaching and assessment**
J. McNulty; Dublin/IE
- **Perception of changes: the radiologist's point of view**
B. Ertl-Wagner; Munich/DE
- **Panel discussion:**
Joint approaches by radiologists and radiographers: the key to success

Saturday, March 8, 08:30–10:00

SF 8: Image-guided prostate biopsies: a paradigm shift

LEVEL III

- **Chairman's introduction**
J.C. Vilanova; Girona/ES
- **MRI definition of the target: the ESUR scoring system**
T. Hambrock; Nijmegen/NL
- **A targeted-only biopsy strategy: impact on overdiagnosis and overtreatment**
N.B. Delongchamps; Paris/FR
- **MRI-guided biopsies: pros and cons**
B. Hamm; Berlin/DE
- **TRUS-guided biopsies with TRUS-MRI image fusion: pros and cons**
F. Cornud; Paris/FR
- **Panel discussion:**
Are we ready for the standardisation of MRI to manage prostate guided biopsy in routine clinical practice?

Sunday, March 9, 08:30–10:00

SF 12: Imaging of thyroid nodules

LEVEL II+III

- **Chairman's introduction**
T. Beale; London/UK
- **Management**
N.N
- **US and US elastography**
N.N
- **Fine needle biopsy of the thyroid nodule**
F. Campoy-Balbontin; Sevilla/ES
- **Panel discussion:**
What is the role of the radiologist in the management of thyroid nodules?

Sunday, March 9, 14:00–15:30

SF 14a: Assessment of brain perfusion with arterial spin labelling (ASL)

LEVEL III

- **Chairman's introduction**
X. Golay; London/UK
- **An introduction to ASL, its jargon and methods**
M. Guenther; Bremen/DE
- **The use of ASL in cerebrovascular disease**
J. Hendrikse; Utrecht/NL
- **The use of ASL in non-vascular brain diseases**
M. Smits; Rotterdam/NL
- **Panel discussion:**
How relevant is ASL in clinical practice today?

Special Focus Sessions

Sunday, March 9, 14:00–15:30

SF 14b: Treatment with MR-guided focused US (FUS)

LEVEL II+III

- **Chairman's introduction**
W.M.W. Gedroyc; London/UK
- **Description of technique**
C. Moonen; Utrecht/NL
- **Uterine fibroids and adenomyosis**
Y. Inbar; Tel Hashomer/IL
- **Transcranial FUS**
E. Martin; Zurich/CH
- **Panel discussion:**
How can this technology be spread more widely?

Sunday, March 9, 14:00–15:30

SF 14c: Dental imaging

LEVEL II

- **Chairman's introduction**
J. Frühwald-Pallamar; Vienna/AT
- **Review of dentomaxillofacial anatomy with panoramic views and cone-beam CT**
A. Suomalainen; Helsinki/FI
- **Pre-surgical and post-surgical imaging with MDCT and cone-beam CT**
A. Gahleitner; Vienna/AT
- **Dental MRI**
S. Rohde; Dortmund/DE
- **Panel discussion:**
What is the impact of radiologists in dental imaging?

Sunday, March 9, 16:00–17:30

SF 15a: Body composition: a new string to the radiologist's bow

LEVEL II+III

- **Chairman's introduction**
G. Guglielmi; Foggia/IT
- **Body composition: why and how?**
J.E. Adams; Manchester/UK
- **Computed tomography: what does it measure and how?**
J. Damilakis; Iraklion/GR
- **MRI: current and future applications**
D.C. Karampinos; Munich/DE
- **DXA: technical aspects and application**
A. Bazzocchi; Bologna/IT
- **Panel discussion:**
How to rationalise the use of body composition analysis in radiological practice

Sunday, March 9, 16:00–17:30

SF 15b: Evidence-based radiology, comparative effectiveness research, and health technology assessment

LEVEL II

- **Chairman's introduction**
M.G.M. Hunink; Rotterdam/NL
- **Evidence-based imaging**
F. Sardanelli; Milan/IT
- **State-of-the-art methods in EBR, CER, and HTA relevant to imaging**
U. Siebert; Hall i. Tirol/AT
- **Translating EBR, CER, and HTA results into imaging decisions in daily practice**
F.J. Gilbert; Cambridge/UK
- **Panel discussion:**
Can EBR, CER, and HTA results provide justification for imaging decisions and how do we implement the results?

Special Focus Sessions

Sunday, March 9, 16:00–17:30

SF 15c: Childhood abdominal emergency 2014: the dos and don'ts

LEVEL II

- **Chairman's introduction**
E. Alexopoulou; Athens/GR
- **The acute abdomen: US is the answer**
S.G.F. Robben; Maastricht/NL
- **The acute abdomen: CT is the answer**
A. Paterson; Belfast/UK
- **Abdominal trauma: US is better**
V. Miele; Rome/IT
- **Abdominal trauma: CT is better**
M. Raissaki; Iraklion/GR
- **Panel discussion:**
US or CT in paediatric abdominal emergencies?

Monday, March 10, 08:30–10:00

SF 16a: Shoulder imaging and intervention

LEVEL II

- **Chairman's introduction**
I. Beggs; Edinburgh/UK
- **US of the rotator cuff**
A. Plagou; Athens/GR
- **MRI of the rotator cuff**
S. Waldt; Munich/DE
- **US-guided interventions of the shoulder**
L.M. Sconfienza; San Donato Milanese/IT
- **Panel discussion:**
Controversies and confusion in shoulder imaging

Monday, March 10, 08:30–10:00

SF 16b: Multisystemic malignancies in organ-based radiology

LEVEL II

- **Chairmen's introduction**
I.E. Tyurin; Moscow/RU
H. von Tengg-Kobligk; Berne/CH
- **Multiple myeloma**
M.-A. Weber; Heidelberg/DE
- **Lymphoma**
A. Mikhaylov; Moscow/RU
- **Melanoma**
M.A. Fischer; Zurich/CH
- **Panel discussion:**
What is the role of imaging in the staging of malignancies?

Monday, March 10, 08:30–10:00

SF 16c: Structured reporting

LEVEL II

- **Chairman's introduction**
A. Palkó; Szeged/HU
- **Structured reporting: from clinical needs to technical challenges**
M. Fatehi; Tehran/IR
- **Structured reporting in the US**
C.E. Kahn; Milwaukee, WI/US
- **Structured reporting in Europe: the ESR initiative**
O. Ratib; Geneva/CH
- **Implications for radiological practice and decision support tools**
J.O. Barentsz; Nijmegen/NL
- **Panel discussion:**
Structured reporting in the daily practice: friend or foe?



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Special Focus Sessions

Monday, March 10, 08:30–10:00

SF 16d: Imaging follow-up of vascular interventions

LEVEL III

- **Chairman's introduction**
M. Szczerbo-Trojanowska; Lublin/PL
- **Imaging follow-up and treatment of complications of angioplasty and stenting**
R. Morgan; London/UK
- **Imaging methods for postprocedural evaluation and follow-up of EVAR**
E. Brountzos; Athens/GR
- **Imaging follow-up of oncologic patients after embolisation procedures**
J.I. Bilbao; Pamplona/ES
- **Panel discussion:**
Cost-effectiveness of imaging follow-up after endovascular interventions

Monday, March 10, 08:30–10:00

SF 16e: Elastography as a new tool

LEVEL II

- **Chairman's introduction**
A.P. Wieczorek; Lublin/PL
- **Principles of US and MR elastography**
I. Sack; Berlin/DE
- **US elastography of the prostate**
F. Aigner; Innsbruck/AT
- **MR elastography of the brain**
J.-T. Wuerfel; Göttingen/DE
- **US and MR elastography of the liver: assessment of liver stiffness with elastography techniques**
S.F. Bensamoun; Compiègne/FR
- **Panel discussion:**
Elastography - a revolutionary technique or a waste of time?



Professional Challenges SESSIONS

The idea of these sessions is to communicate and exchange information on professional issues related to radiology, such as training and education, research networking, radiological management and professional developments.

90-minute sessions; introduction by one or two chairmen; three to four lecturers; panel discussion.

Places are allocated on a first-come, first-served basis.

ECR 2014

Vienna

March 6–10

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The background of the entire page is a vibrant blue sky filled with soft, ethereal clouds and scattered white stars. In the foreground, several stylized, colorful domes are visible. Each dome is topped with a golden sphere. The domes are rendered in various colors and patterns: one is orange and green with a lattice pattern, another is purple and pink with a triangular pattern, and others are blue and white with stripes or red and green triangular patterns. The overall aesthetic is modern and artistic.

Professional Challenges Sessions

Thursday, March 6, 16:00–17:30

PC 3: Radiology: opportunities and threats

ALL LEVELS

- **Chairman's introduction**
J.A. Reekers; Amsterdam/NL
- **Where are the turf battles in diagnostic imaging?**
G.M. Bongartz; Basle/CH
- **Beating threats in Europe with radiological training**
A.K. Dixon; Cambridge/UK
- **History of ultrasound in radiology: lessons learned**
L.E. Derchi; Genoa/IT
- **Interdisciplinary cooperation without losing identity**
M.F. Reiser; Munich/DE
- **Panel discussion:**
How to stay in the driver's seat as radiologist 2.0?

Friday, March 7, 08:30–10:00

PC 4: Interventional radiology in oncology

LEVEL III

- **Chairman's introduction**
A. Adam; London/UK
- **The current scope and future challenges**
J.I. Bilbao; Pamplona/ES
- **How an oncologist works and why technology alone is not enough**
L.M. Kenny; Brisbane, QLD/AU
- **Best practice: how to organise an interventional oncology unit**
A. Gangi; Strasbourg/FR
- **Panel discussion:**
Interventional radiology as a new link between oncology and imaging

Saturday, March 8, 16:00–17:30

PC 11: The role of social media in radiology

LEVEL II

- **Chairman's introduction**
P. Pokieser; Vienna/AT
- **Major social media networks and their relationship to professional societies**
D. Caramella; Pisa/IT
- **Impact of social media on the training of radiologists**
A. Sachs; Vienna/AT
- **Social media networks in communication between radiologists, non-radiologists and patients**
O. Ratib; Geneva/CH
- **Interactions between patients and radiologists through social media**
J. Brandstätter; Wiener Neudorf/AT
- **Panel discussion:**
Social networks: hopes and fears

Sunday, March 9, 10:30–12:00

PC 13: Doing good not harm - understanding Audit and its role in reducing patient dose

- **Chairman's introduction**
P. Cavanagh; Taunton/UK

Programme to be announced





Multidisciplinary SESSIONS

The concept of these sessions is to promote a multidisciplinary approach to cancer detection and treatment, integrating radiologists, surgeons and oncologists to share their expertise.





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Multidisciplinary Sessions

Managing Patients with Cancer

Thursday, March 6, 16:00–17:30

MS 3: Multidisciplinary approach for detection and treatment of malignant primary bone tumours

LEVEL I

- **Chairman's introduction**
K. Verstraete; Ghent/BE
- **Imaging malignant primary bone tumours**
K. Verstraete; Ghent/BE
- **Oncologic approach to malignant primary bone tumours**
C. Dhooge; Ghent/BE
- **Surgical approach of malignant primary bone tumours**
G. Sys; Ghent/BE
- **Case presentation and discussion**

Friday, March 7, 08:30–10:00

MS 4: Pancreatic neuro-endocrine tumours

LEVEL III

- **Chairman's introduction**
R. Pozzi-Mucelli; Verona/IT
- **Radiologist's point of view**
R. Pozzi-Mucelli; Verona/IT
- **Surgeon's point of view**
C. Bassi; Verona/IT
- **Oncologist's point of view**
G. Tortora; Verona/IT
- **Case presentation and discussion**

Saturday, March 8, 16:00–17:30

MS 11: Characterisation and treatment of renal tumours: new paradigms

LEVEL II+III

- **Chairman's introduction**
N. Grenier; Bordeaux/FR
- **Characterising solid renal tumours in 2014: from morphology to function**
N. Grenier; Bordeaux/FR
- **New therapeutic approaches for localised renal tumours: the urologist's opinion**
J.-J. Patard; Le Kremlin-Bicêtre/FR
- **Impact of imaging in targeted therapy of metastatic renal cancer: the oncologist's opinion**
A. Ravaud; Bordeaux/FR
- **Case presentation and discussion**



Categorical COURSES

Categorical Courses are the most substantial courses at ECR, concentrating on a major radiological topic over a series of sessions and designed with the more specialised radiologist in mind, from beginners to those with advanced experience.

Each course is organised by a coordinator from the programme planning committee, with the subject and coordinator being chosen by the Congress President according to which topics are of particularly current relevance or have not been recently covered.

There will be three Categorical Courses at ECR 2014, divided into six 90-minute sessions, each of which is presented by three lecturers.

Two courses will include interactive case discussions.

Sessions are moderated by a chairman, and time is always allowed for an introduction and a discussion.

Places are allocated on a first-come, first-served basis.

Categorical Courses

Oncologic Imaging: Follow-up of Systemic and Local Therapies

Friday, March 7, 16:00–17:30

CC 718: Imaging after systemic therapies: the standards

LEVEL I

Moderator: M. Nadrljanski; Belgrade/RS

- A. RECIST criteria**
Y. Menu; Paris/FR
- B. PERCIST: evolving considerations for PET response criteria in solid tumours**
T.F. Hany; Zurich/CH
- C. Evaluation of brain tumours**
C. Majós; L'Hospitalet de Llobregat/ES

Saturday, March 8, 08:30–10:00

CC 818: Imaging after systemic therapies: advanced techniques

LEVEL III

Moderator: K. Brindle; Cambridge/UK

- A. What can we expect from biomarkers**
B.E. Van Beers; Clichy/FR
- B. MRI biomarkers: from acquisition to post-processing**
O. Lucidarme; Paris/FR
- C. Assessing the precision and accuracy of biomarker imaging: is it reproducible?**
D.-M. Koh; Sutton/UK

Sunday, March 9, 08:30–10:00

CC 1218: Assessing HCC response to ...

LEVEL I

Moderator: C. Bartolozzi; Pisa/IT

- A. Systemic therapies**
V. Vilgrain; Clichy/FR
- B. Endovascular therapies**
R. Lencioni; Pisa/IT
- C. Ablative therapies**
C. Ayuso; Barcelona/ES

Sunday, March 9, 14:00–15:30

CC 1418: Follow-up of thermal ablation (part I)

LEVEL I

Moderator: P. Wiggermann; Regensburg/DE

- A. The zone of cell death and collateral phenomena in cross-sectional imaging: from histopathology to the standardisation of terms**
A. Denys; Lausanne/CH
- B. PET/CT for the evaluation of ablative therapy: Who? Where? When? Does it help?**
D. Deandreis; Villejuif/FR
- C. Everyday practice: MRI and CT for evaluating response to thermal ablation**
C. Dromain; Villejuif/FR

Sunday, March 9, 16:00–17:30

CC 1518: Follow-up of thermal ablation (part II)

LEVEL I

Moderator: R. Bale; Innsbruck/AT

- A. Follow-up imaging of thermal ablative therapies for lung tumours**
T. de Baère; Villejuif/FR
- B. Follow-up imaging of percutaneous local treatment of bone tumours**
A. Gangi; Strasbourg/FR
- C. Follow-up imaging of thermal ablative therapies for kidney tumours**
D.J. Breen; Southampton/UK

Monday, March 10, 08:30–10:00

CC 1618: Follow-up of local treatments of breast cancer

LEVEL II

Moderator: M.H. Fuchsjäger; Graz/AT

- A. MRI-guided HIFU therapies in the breast**
M. Sklair-Levy; Tel Aviv/IL
- B. Pre-imaging and post-imaging appearance of breast lesion excision system (BLES) lesions**
S. Allen; Sutton/UK
- C. Common features and pitfalls in imaging the treated breast**
J. Camps Herrero; Valencia/ES

Categorical Courses

Head and Neck Imaging

Saturday, March 8, 08:30–10:00

CC 819: How to perform and read a head and neck study (part 1)

LEVEL II

Moderator: J. Olliff; Birmingham/UK

A. Cranial nerve examination made easy

J.W. Casselman; Bruges/BE

B. MRI of the lower neck - feasible?

S. Gerevini; Milan/IT

C. CT and MRI of temporal bone: user's guide

N.N.

Saturday, March 8, 16:00–17:30

CC 1119: How to perform and read a head and neck study (part 2)

LEVEL II

Moderator: S. Bisdas; Tübingen/DE

A. CT and MR perfusion study of the head and neck

N.N.

B. MR diffusion study and how to interpret it

H.C. Thoeny; Berne/CH

C. PET/CT and MR/PET: the true added value of the method

M. Becker; Geneva/CH

Sunday, March 9, 08:30–10:00

CC 1219: What do I see? Clinical radiological interaction (part 1)

LEVEL II

Moderator: S. Robinson; Vienna/AT

A. Temporal bone: conductive hearing loss and cholesteatoma

B. De Foer; Wilrijk-Antwerp/BE

F.E. Offeciers; Antwerp/BE

B. Temporal bone: sensorineural hearing loss and deafness

J.W. Casselman; Bruges/BE

F.E. Offeciers; Antwerp/BE

C. Laryngeal and hypopharyngeal cancer

R. Maroldi; Brescia/IT

P. Nicolai; Brescia/IT

Sunday, March 9, 14:00–15:30

CC 1419: What do I see? Clinical radiological interaction (part 2)

LEVEL II+III

Moderator: B. Ozgen Mocan; Ankara/TR

A. Presurgical and postsurgical imaging: free flap reconstructions

A. Trojanowska; Lublin/PL

P. Trojanowski; Lublin/PL

B. Sinonasal imaging for functional endoscopic sinus surgery (FESS)

V. Lund; London/UK

T. Beale; London/UK

C. Sinonasal tumours: key clinical questions

V. Lund; London/UK

N.J.M. Freling; Amsterdam/NL

Sunday, March 9, 16:00–17:30

CC 1519: Tailoring head and neck examinations to the clinical symptoms (part 1)

LEVEL II

Moderator: M.I. Furmanek; Warsaw/PL

A. Impaired eye movements

M.G. Mack; Munich/DE

B. Trigeminal neuralgia

A. Borges; Lisbon/PT

C. Facing problems of the face: facial pain, tics and palsy

B. Verbist; Leiden/NL

Monday, March 10, 08:30–10:00

CC 1619: Tailoring head and neck examinations to the clinical symptoms (part 2)

LEVEL II

Moderator: P.-Y. Marcy; Nice/FR

A. Horner's syndrome

D. Reede; Brooklyn, NY/US

B. Dysphagia

P. Pokieser; Vienna/AT

C. Hoarseness

F.A. Pameijer; Utrecht/NL

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Categorical Courses

Modern Imaging of the GI Tract

Saturday, March 8, 16:00–17:30

CC 1121: Perianal fistula disease: all you need to know

LEVEL II

Moderator: D. Weishaupt; Zurich/CH

A. Perianal anatomy and imaging techniques

K. Horsthuis; Amsterdam/NL

B. Perianal fistula disease: the basics

S. Halligan; London/UK

C. Perianal fistula disease: advanced

F. Maccioni; Rome/IT

D. Interactive case discussion

D. Weishaupt; Zurich/CH



Sunday, March 9, 08:30–10:00

CC 1221: Imaging the postoperative patient

LEVEL I+II

Moderator: M. Hellström; Gothenburg/SE

A. What the surgeon does: surgical procedures and normal postoperative anatomy

M.M. Maher; Cork/IE

B. Do I need to re-operate? Postoperative imaging and immediate complications

D.J.M. Tolan; Leeds/UK

C. It still hurts: follow-up imaging and long-term complications

L. Curvo-Semedo; Coimbra/PT

D. Interactive case discussion

M. Hellström; Gothenburg/SE



Sunday, March 9, 10:30–12:00

CC 1321: Inflammatory bowel disease

LEVEL II+III

Moderator: S.A. Taylor; London/UK

A. Cross-sectional imaging protocols

M.A. Patak; Zurich/CH

B. Small bowel disease

J. Stoker; Amsterdam/NL

C. Colitis

J. Rimola; Barcelona/ES

D. Interactive case discussion

S.A. Taylor; London/UK



Sunday, March 9, 14:00–15:30

CC 1421: Rectal cancer

LEVEL II+III

Moderator: L.C.O. Blomqvist; Stockholm/SE

A. Imaging protocols

S. Gourtsoyianni; London/UK

B. How to stage lymph nodes in rectal cancer

G. Brown; Sutton/UK

C. Assessment after treatment

R.G.H. Beets-Tan; Maastricht/NL

D. Interactive case discussion

L.C.O. Blomqvist; Stockholm/SE



Sunday, March 9, 16:00–17:30

CC 1521: Gastrointestinal stromal tumours (GIST)

LEVEL II+III

Moderator: M. Zins; Paris/FR

A. Pathology and treatment options

B. Seddon; London/UK

B. Disease staging and treatment planning

C. Hoeffel; Reims/FR

C. Treatment response assessment and disease follow-up

A. Graser; Munich/DE

D. Interactive case discussion

M. Zins; Paris/FR



Monday, March 10, 08:30–10:00

CC 1621: Oesophageal and gastric cancer

ALL LEVELS

Moderator: W. Schima; Vienna/AT

A. Modern imaging: an update

A. Ba-Ssalamah; Vienna/AT

B. How to provide the perfect staging report

R.M. Mendelson; Perth, WA/AU

C. Assessment after treatment

A.M. Riddell; Sutton/UK

D. Interactive case discussion

W. Schima; Vienna/AT



= Interactive session with electronic voting/self assessment



Mini COURSES

In terms of their aim, the Mini Courses are similar to Categorical Courses but on a smaller scale; focusing on anatomical regions, particular techniques, or modalities, and designed for radiologists with a specialist interest.

Places are allocated on a first-come, first-served basis.

Mini Courses

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

Friday, March 7, 08:30–10:00

MC 422: General principles: paediatric and ENT emergencies

LEVEL I

Moderators: S.E. Mirvis; Baltimore, MD/US
A. Palkó; Szeged/HU



A. General principles

U. Linsenmaier; Munich/DE

B. Challenges of imaging paediatric abdominal emergencies

S.D. John; Houston, TX/US

C. Imaging in ENT emergencies

D. Nunez; New Haven, CT/US

Friday, March 7, 16:00–17:30

MC 722: Abdominal emergencies

LEVEL I

Moderators: S.E. Mirvis; Baltimore, MD/US
A. Palkó; Szeged/HU



A. Abdominal injuries

A. Palkó; Szeged/HU

B. The enemy within: non-traumatic abdominal emergencies

R.J. Zagoria; San Francisco, CA/US

C. Interactive case discussion

A. Palkó; Szeged/HU

R.J. Zagoria; San Francisco, CA/US

Friday, March 7, 10:30–12:00

MC 522: CNS emergencies

LEVEL I

Moderators: S.E. Mirvis; Baltimore, MD/US
A. Palkó; Szeged/HU



A. CNS trauma and neurovascular injury

H.A. Rowley; Madison, WI/US

B. CNS non-traumatic emergencies

M. Smits; Rotterdam/NL

C. Interactive case discussion

H.A. Rowley; Madison, WI/US

M. Smits; Rotterdam/NL

Friday, March 7, 14:00–15:30

MC 622: Chest emergencies

LEVEL I

Moderators: S.E. Mirvis; Baltimore, MD/US
A. Palkó; Szeged/HU



A. Thoracic injuries

S.E. Mirvis; Baltimore, MD/US

B. Non-traumatic thoracic emergencies

C.M. Schaefer-Prokop; Amersfoort/NL

C. Interactive case discussion

S.E. Mirvis; Baltimore, MD/US

C.M. Schaefer-Prokop; Amersfoort/NL

 = Interactive session with electronic voting/self assessment

Mini Courses

Controversies in Chest Imaging

Friday, March 7, 08:30–10:00

MC 424: Computed tomography screening for lung cancer: is it time to implement individual lung cancer screening in clinical practice?

LEVEL III

Moderator: D.M. Hansell; London/UK

Teaser: S. Diederich; Düsseldorf/DE

A. Implications of the national lung screening trials (NLST)

D.R. Aberle; Los Angeles, CA/US

B. Implications of the European Trials

M. Prokop; Nijmegen/NL

Discussion

D.M. Hansell; London/UK, S. Diederich; Düsseldorf/DE



Friday, March 7, 16:00–17:30

MC 724: Diagnosis of pulmonary embolism when CTA is indeterminate or unfeasible

LEVEL II

Moderator: A. Perrier; Geneva/CH

Teaser: M. Rémy-Jardin; Lille/FR

A. Radiological approach: ultrasound and MR imaging

M.-P. Revel; Paris/FR

B. Nuclear medicine approach: combined ventilation-perfusion SPECT and low-dose CT

H. Gutte; Copenhagen/DK

Discussion

A. Perrier; Geneva/CH, M. Rémy-Jardin; Lille/FR



= Interactive session with electronic voting/self assessment

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Mini Courses

The Beauty of Basic Knowledge: Interventional Radiology

Moderators: M. Bezzi; Rome/IT
O.M. van Delden; Amsterdam/NL (MC 25E)

Thursday, March 6, 12:30–13:30

MC 25A: Needles and samples: a practical approach to image-guided biopsy

LEVEL II

M. Bezzi; Rome/IT

Friday, March 7, 12:30–13:30

MC 25B: Percutaneous drainages and nephrostomies

LEVEL II

R.H. Portugaller; Graz/AT

Saturday, March 8, 12:30–13:30

MC 25C: Basics of arterial PTA/stent

LEVEL II

R. Uberoi; Oxford/UK

Sunday, March 9, 12:30–13:30

MC 25D: Tumour ablation: a primer

LEVEL II

T.K. Helmberger; Munich/DE

Monday, March 10, 12:30–13:30

MC 25E: Essentials of transcatheter embolisation

LEVEL II

O.M. van Delden; Amsterdam/NL

The Beauty of Basic Knowledge: Skeletal Radiology

Moderator: V.N. Cassar-Pullicino; Oswestry/UK

Thursday, March 6, 12:30–13:30

MC 26A: Plain radiographs: analysis and interpretation

LEVEL I+II

I. McCall; Devon/UK

Friday, March 7, 12:30–13:30

MC 26B: Tumoural and pseudotumoural MSK lesions

LEVEL I+II

K. Verstraete; Ghent/BE

Saturday, March 8, 12:30–13:30

MC 26C: Inflammatory/infectious disorders

LEVEL I+II

V.N. Cassar-Pullicino; Oswestry/UK

Sunday, March 9, 12:30–13:30

MC 26D: Metabolic, endocrine and marrow disease

LEVEL I+II

B. Vande Berg; Brussels/BE

Monday, March 10, 12:30–13:30

MC 26E: Degenerative disease

LEVEL I+II

K. Bohndorf; Vienna/AT



Refresher COURSES

Refresher Courses, as the name suggests, aim to refresh knowledge, reviewing and updating the more basic subjects for those who have not kept up to speed with certain developments, or who just need a reminder – something of interest not only to young radiologists but also experienced doctors.

The length of the course is 90 minutes (two parts of 35 minutes or three parts of 23 minutes each) leaving enough time for the introduction (5 minutes) by one of the chairmen and for discussion (15 minutes), either 5 minutes allocated at the end of each lecture, or 15 minutes for a panel discussion.

The course will be given by two or three lecturers and led by one or two moderator(s) on a defined subject of clinical imaging, imaging technique, interventional radiology and related subjects.

Places are allocated on a first-come, first-served basis.

Refresher Courses

Abdominal and Gastrointestinal

Thursday, March 6, 16:00–17:30

RC 301: Cross-sectional imaging of colitis

LEVEL II

- **Chairman's introduction**
S.A. Taylor; London/UK
- A. Which protocol to use?**
S. Schmidt; Lausanne/CH
- B. Differentiating between the causes of colitis**
B. Gallix; Montreal, QC/CA
- C. The role of cross-sectional imaging in colonic inflammatory bowel disease**
J. Rimola; Barcelona/ES
- **Panel discussion:**
The role of cross-sectional imaging in the diagnosis and follow-up of colitis

Friday, March 7, 08:30–10:00

RC 401: Misses and difficulties in abdominal imaging

LEVEL II

- **Chairman's introduction**
J. Stoker; Amsterdam/NL
- A. Mesentery and peritoneum**
D. Akata; Ankara/TR
- B. Occult GI bleeding**
A. Filippone; Chieti/IT
- C. Bowel dilatation**
E. Danse; Brussels/BE
- **Panel discussion:**
What have I learned from misses and can improvements be made to reduce misses?

Sunday, March 9, 08:30–10:00

RC 1201: The many faces of benign liver lesions

LEVEL II

- Moderator:** A. Ba-Ssalamah; Vienna/AT
- A. Vascular**
M. Karcaaltincaba; Ankara/TR
 - B. Cystic**
G. Brancatelli; Palermo/IT
 - C. Hepatocellular**
F. Caseiro-Alves; Coimbra/PT

Sunday, March 9, 16:00–17:30

RC 1501: Technical advances in liver and pancreatic imaging

LEVEL II

- Moderator:** D.J. Lomas; Cambridge/UK
- A. CEUS and elastography**
G.H. Mostbeck; Vienna/AT
 - B. Diffusion and perfusion**
M.A. Bali; Brussels/BE
 - C. Liver specific contrast agents**
B.J. Op de Beeck; Antwerp/BE

Monday, March 10, 08:30–10:00

RC 1601: Pancreatic inflammation

ALL LEVELS

- Moderator:** R.J. Méndez; Madrid/ES
- A. Acute pancreatitis**
M. Zins; Paris/FR
 - B. Chronic pancreatitis and IPMN**
C. Matos; Brussels/BE
 - C. Paraduodenal and autoimmune pancreatitis**
S.A. Jackson; Plymouth/UK

Refresher Courses

Abdominal and Gastrointestinal

Monday, March 10, 16:00–17:30

**RC 1901a: From my workstation:
difficult cases on review**

LEVEL II

- **Chairman's introduction**
A. Maier; Vienna/AT
- A. Pancreas**
C. Triantopoulou; Athens/GR
- B. Small bowel**
E. Biscaldi; Genoa/IT
- C. Rectum**
D. Lambregts; Maastricht/NL
- **Panel discussion:**
What can we learn from challenging cases?

Monday, March 10, 16:00–17:30

**RC 1901b: Colorectal cancer liver metastases:
assessing tumour response**

LEVEL III

- **Chairman's introduction**
P.R. Ros; Cleveland, OH/US
- A. Current treatment options**
T.K. Helmberger; Munich/DE
- B. Morphological biomarkers**
S. Skehan; Dublin/IE
- C. Functional biomarkers**
D.-M. Koh; Sutton/UK
- **Panel discussion:**
The 'vanishing' lesions: what should you do?

Refresher Courses

Breast

Thursday, March 6, 16:00–17:30

RC 302: Breast ultrasound

LEVEL I

Moderator: M. Müller-Schimpfle; Frankfurt a. Main/DE

A. Physics and practical aspects of high-quality hand-held

US and automated breast US

M.H. Fuchsjäger; Graz/AT

B. Complicated cysts and complex-cystic lesions:

differentiation and management

C.F. Weismann; Salzburg/AT

C. The use of ultrasound in the evaluation

of the nipple-areolar complex

R. Salvador; Barcelona/ES

Saturday, March 8, 16:00–17:30

**RC 1102: Clinical challenges
in breast MRI**

LEVEL II

• **Chairman's introduction**

F.J. Gilbert; Cambridge/UK

A. High-risk patients: establishing clinical protocols

J. Veltman; Almelo/NL

B. Non-mass like enhancement (NMLE): when to biopsy?

C.K. Kuhl; Aachen/DE

C. Monitoring response to neo-adjuvant chemotherapy

T.H. Helbich; Vienna/AT

• **Panel discussion:**

How can the specificity and sensitivity of breast MRI in these indeterminate clinical and imaging scenarios be maximised?

Sunday, March 9, 08:30–10:00

RC 1202: Multimodality breast imaging

LEVEL II

• **Chairman's introduction**

M. Lesaru; Bucharest/RO

A. Conventional, functional and interventional lymph node assessment

R.M. Pijnappel; Utrecht/NL

B. Multimodality assessment of the breast following oncoplastic surgery

M. Torres-Tabanera; Madrid/ES

C. Image-guided therapy in breast lesions: indications and techniques

R.M. Mann; Nijmegen/NL

• **Panel discussion:**

How is the evolution of multimodality breast imaging changing the nature of the multidisciplinary meeting (MDM)?

Sunday, March 9, 14:00–15:30

RC 1402: Update on BI-RADS

LEVEL I

Moderator: M.G. Wallis; Cambridge/UK

A. Mammography

U. Bick; Berlin/DE

B. Ultrasound

F. Thibault; Paris/FR

C. MRI

K. Pinker-Domenig; Vienna/AT

Monday, March 10, 16:00–17:30

**RC 1902: Emerging breast
imaging technologies**

LEVEL III

Moderator: F. Pediconi; Rome/IT

A. Digital breast tomosynthesis (DBT)

P. Skaane; Oslo/NO

B. Multiparametric high-field MRI and more

P.A.T. Baltzer; Vienna/AT

C. High-resolution radionuclide breast imaging (PEM and molecular imaging)

T. Wagner; London/UK

Refresher Courses

Cardiac

Thursday, March 6, 16:00–17:30

**RC 303: Hybrid cardiovascular imaging:
where should we go?**

LEVEL III

Moderator: K. Gruszczynska; Katowice/PL

- A. PET/CT: present state and future prospects**
M. Schwaiger; Munich/DE
- B. SPECT/CT: only the small brother of PET/CT?**
M. Hacker; Vienna/AT
- C. MR/PET: do we really need it?**
H.H. Quick; Erlangen/DE

Saturday, March 8, 08:30–10:00

**RC 803: Quantification of myocardial perfusion:
which test is the best
(PET, MRI, MDCT)?**

LEVEL III

Moderator: A. Jacquier; Marseille/FR

- A. PET for evaluation of perfusion, absolute myocardial
blood flow and coronary flow reserve**
J. Bucerius; Maastricht/NL
- B. Stress perfusion CT imaging for the detection and
quantification of relevant coronary stenosis**
F. Bamberg; Munich/DE
- C. Analysis of myocardial perfusion using MRI**
R. Manka; Zurich/CH

Sunday, March 9, 16:00–17:30

**RC 1503: Cardiac CT and MRI in difficult patients:
what to do?**

LEVEL II

- **Chairman's introduction**
M. Hamilton; Bristol/UK
- A. Coronary CTA in patients with severe arrhythmias and
high heart rate**
C. Loewe; Vienna/AT
- B. Severe coronary calcinosis and stents: tips and tricks in
image acquisition and interpretation**
F. Pugliese; London/UK
- C. Cardiac MRI: potential problems and how to avoid them**
E. Mershina; Moscow/RU
- **Panel discussion:**
When to scan and when not to?
How can we make the best of what we have?

Monday, March 10, 16:00–17:30

**RC 1903: Practical approach
to cardiovascular risk
stratification with CT and MRI**

LEVEL II

Moderator: G.I. Kirova-Nedialkova; Sofia/BG

- A. Modern views on value of coronary calcium scoring for
risk assessment**
A. Stadler; Vienna/AT
- B. Prognostic value of coronary CTA**
R. Vliegthart; Groningen/NL
- C. Added value of carotid and peripheral artery imaging for
risk assessment**
L. Natale; Sesto Fiorentino/IT

Refresher Courses

Chest

Thursday, March 6, 16:00–17:30

RC 304: Pulmonary vasculitis and systemic diseases

LEVEL II+III

Moderator: A. Persson; Linköping/SE

A. Pulmonary manifestations of systemic diseases

C. Engelke; Göttingen/DE

B. Large-vessel vasculitis

J. Vilar; Valencia/ES

C. HRCT patterns in pulmonary vasculitis

C.M. Schaefer-Prokop; Amersfoort/NL

D. Inflammation and remodeling

A.A. Bankier; Boston, MA/US

Saturday, March 8, 16:00–17:30

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

LEVEL II+III

• **Chairman's introduction**

A. Oikonomou; Alexandroupolis/GR

A. Ground-glass opacification: why do we see it and what does it mean?

S.R. Desai; London/UK

B. Inflammatory and infectious GGO

K. Marten-Engelke; Göttingen/DE

C. GGO in dysplasia and neoplasia

G.R. Ferretti; Grenoble/FR

• **Panel discussion:**

How should we report and manage ground glass opacity?

Sunday, March 9, 08:30–10:00

RC 1204: Lung cancer: staging and personalised imaging in 2014

LEVEL II+III

Moderator: E.J.R. van Beek; Edinburgh/UK

A. Lung biopsy: who, how and why

E. Laurent; Pessac/FR

B. Pre and post-treatment tumour assessment

N. Tacelli; Brussels/BE

C. The role of PET-CT and whole body MRI

E. Gleeson; Oxford/UK

Sunday, March 9, 14:00–15:30

RC 1404: Pulmonary infections: the old and the new

LEVEL I+II

Moderator: N. Sverzellati; Parma/IT

A. Mycobacterial infections

C. Beigelman; Lausanne/CH

B. Infectious disease in immuno-compromised patients

C.P. Heussel; Heidelberg/DE

C. Emerging infections

T. Franquet; Barcelona/ES

Monday, March 10, 08:30–10:00

RC 1604: Pulmonary arterial hypertension

LEVEL II+III

Moderator: A.P. Parkar; Bergen/NO

A. An overview of pulmonary artery hypertension

N.J. Screaton; Cambridge/UK

B. CT in pulmonary artery hypertension

M.-P. Revel; Paris/FR

C. MRI in pulmonary artery hypertension

J. Biederer; Heidelberg/DE

Monday, March 10, 16:00–17:30

RC 1904: Take a deep breath and hold: why and why not

LEVEL II+III

• **Chairman's introduction**

P.A. Grenier; Paris/FR

A. New insights into COPD on HRCT

N. Sverzellati; Parma/IT

B. Using inspiratory and expiratory CT

A. Devaraj; London/UK

C. Pulmonary disease assessment with MRI

H.-U. Kauczor; Heidelberg/DE

• **Panel discussion:**

Correlating imaging with lung function and pulmonary disease genotypes

Refresher Courses

Computer Applications

Thursday, March 6, 16:00–17:30

RC 305: Mobile IT in radiology

ALL LEVELS

-
- **Chairman's introduction**
E. Neri; Pisa/IT
 - A. **Tablet-computers: a technical overview**
J. Fernandez-Bayó; Sabadell/ES
 - B. **Reading DICOM images on the tablet**
O. Ratib; Geneva/CH
 - C. **Mobile teleradiology: radiological features of the tablet-computer**
E.R. Ranschaert; 's-Hertogenbosch/NL
 - **Panel discussion:**
Confidence in the use of tablets in our clinical practice

Monday, March 10, 08:30–10:00

RC 1605: Improving workflow efficiency and quality

ALL LEVELS

-
- **Chairman's introduction**
D. Caramella; Pisa/IT
 - A. **Improving the quality and efficiency of computerised order entry through decision support**
P. Mildemberger; Mainz/DE
 - B. **Improving quality and efficiency of reporting through structure and templates**
E. Neri; Pisa/IT
 - C. **Improving quality and efficiency of dose management through exchange between modalities and registries**
E. Vaño; Madrid/ES
 - **Panel discussion:**
Will novel IT tools really improve quality and efficiency in daily radiological practice?

Refresher Courses

Molecular Imaging and Contrast Media

Thursday, March 6, 16:00–17:30

**RC 306: Functional and multimodality
neuroimaging**

LEVEL II

Moderator: O. Clément; Paris/FR

A. Clinical applications of PET/CT in neurology

A.H. Jacobs; Münster/DE

B. MR/PET changes and challenges

B.J. Pichler; Tübingen/DE

C. Advanced MR neuroimaging techniques

M. Smits; Rotterdam/NL

Monday, March 10, 16:00–17:30

RC 1906: Molecular imaging in oncology

LEVEL II

Moderator: E.J. Rummeny; Munich/DE

A. New PET-tracers for oncology

W. Weber; New York, NY/US

B. Potential of MRI for molecular imaging in oncology

F.A. Gallagher; Cambridge/UK

C. Emerging molecular imaging techniques

F.M.A. Kiessling; Aachen/DE

Refresher Courses

Genitourinary

Thursday, March 6, 16:00–17:30

RC 307: Stone disease: new concepts

LEVEL II

Moderator: A. Magnusson; Uppsala/SE

A. From the Stone Age to the New Age

N.C. Cowan; Oxford/UK

B. The contribution of imaging in planning urinary stone therapy

U. Patel; London/UK

C. Imaging of stone disease in pregnancy

G. Masselli; Rome/IT

Sunday, March 9, 08:30–10:00

RC 1207: Female imaging: how I do it?

LEVEL III

Moderator: V. Panebianco; Rome/IT

A. Imaging female congenital anomalies

G. Restaino; Campobasso/IT

B. PET-CT in the female pelvis: how I do it?

A.G. Rockall; London/UK

C. How to image cystic tumours of the ovary

R. Forstner; Salzburg/AT

Friday, March 7, 16:00–17:30

RC 707: Renal and adrenal tumours

LEVEL II

Moderator: M. Moschetta; Bari/IT

A. Adrenal masses: a practical approach

G. Heinz-Peer; St. Pölten/AT

B. Staging renal cancer

M. Notohamiprodjo; Munich/DE

C. How to deal with small indeterminate renal masses

O. Hélénon; Paris/FR

Saturday, March 8, 08:30–10:00

RC 807: Contrast media safety: update

LEVEL II

• **Chairman's introduction**

P. Reimer; Karlsruhe/DE

A. Acute non-renal reactions to contrast media: new concepts

O. Clément; Paris/FR

B. Nephrogenic systemic fibrosis: from pathophysiology to recommendations

H.S. Thomsen; Herlev/DK

C. Contrast medium-induced nephropathy and new guidelines

F. Stacul; Trieste/IT

• **Panel discussion:**

What is the most appropriate radiological approach to patients with falling eGFR and when should contrast media be administered and when should it not?

Refresher Courses

Head and Neck

Thursday, March 6, 16:00–17:30

RC 308: Head and neck emergency: for the general radiologist or the patient?

LEVEL II

Moderator: A. Trojanowska; Lublin/PL

- A. Pseudolesions mimicking disease**
C.Z. Karaman; Aydin/TR
- B. Where medical history and previous images help to rule out tumour**
D. Farina; Brescia/IT
- C. Findings that can't wait for follow-up**
M.G. Mack; Munich/DE

Friday, March 7, 16:00–17:30

RC 708: The orbit: you can't see what you haven't learnt

LEVEL II+III

Moderator: U.Y. Ayaz; Mersin/TR

- A. Anatomy and commonly encountered postoperative findings**
N. Hosten; Greifswald/DE
- B. Congenital and inflammatory disease**
T.A. Ferreira; Leiden/NL
- C. Benign and malignant neoplastic tumours**
W. Müller-Forell; Mainz/DE

Saturday, March 8, 16:00–17:30

RC 1108: Skull base lesions: imaging studies and differential diagnosis

LEVEL II+III

Moderator: S. Kösling; Halle a.d. Saale/DE

- A. Anterior cranial fossa with special emphasis on olfactory apparatus lesions**
T.P.J. Duprez; Brussels/BE
- B. Middle cranial fossa pathologies**
A. Borges; Lisbon/PT
- C. Posterior cranial fossa pathologies**
H. Tanghe; Rotterdam/NL

Monday, March 10, 16:00–17:30

RC 1908: Imaging laryngeal cancer

LEVEL II+III

Moderator: B. Banko; Belgrade/RS

- A. What matters in staging laryngeal cancer**
R. Maroldi; Brescia/IT
- B. How to evaluate the post treatment larynx: clinical and histological alterations after initial treatment**
P. Zbären; Berne/CH
- C. Can we rule out cancer recurrence?**
F.A. Pameijer; Utrecht/NL

Refresher Courses

Interventional Radiology

Friday, March 7, 08:30–10:00

RC 409: Endovascular treatment of acute thoracic aorta syndrome

LEVEL III

- **Chairman's introduction**
T. Pfammatter; Zurich/CH
- A. Pre-therapeutic radiological evaluation**
J. Ferda; Plzen/CZ
- B. EVAR techniques and results**
F. Fanelli; Rome/IT
- C. Imaging follow-up and complications**
R. Morgan; London/UK
- **Panel discussion:**
What are the best imaging methods for follow-up?

Friday, March 7, 16:00–17:30

RC 709: The diabetic foot: contribution of interventional radiology

LEVEL III

- **Chairman's introduction**
J. Lammer; Vienna/AT
- A. Pathophysiology of the diabetic foot**
V. Bérczi; Budapest/HU
- B. Imaging and angiosom concept**
A. Basile; Catania/IT
- C. Special techniques for crural endovascular revascularisation**
S.D. Qanadli; Lausanne/CH
- **Panel discussion:**
Is there a role for pretherapeutic imaging besides catheterisation angiography?

Saturday, March 8, 08:30–10:00

RC 809: Percutaneous treatment of chronic back pain and sciatica

LEVEL I

- **Chairman's introduction**
A. Gangi; Strasbourg/FR
- A. Sacroiliac joint syndrome**
D.J. Wilson; Oxford/UK
- B. Facet joint syndrome**
A.D. Kelekis; Athens/GR
- C. Intervertebral disc syndrome**
N. Amoretti; Nice/FR
- **Panel discussion:**
How can imaging methods separate candidates for percutaneous therapy and surgery?

Saturday, March 8, 16:00–17:30

RC 1109: Gynaecological and obstetrical haemorrhagic emergencies

LEVEL III

- **Chairman's introduction**
A.-M. Belli; London/UK
- A. Etiology and treatment of benign and malignant gynaecological causes of massive bleeding**
O. Pellerin; Paris/FR
- B. Can we prevent post-partum haemorrhage**
J. Gupta; Birmingham/UK
- C. Treatment of post-partum haemorrhage**
A. Krajina; Hradec Králové/CZ
- **Panel discussion:**
How can radiation doses be reduced during treatment?

Sunday, March 9, 08:30–10:00

RC 1209: Thoracic nonvascular interventions

LEVEL II

- **Chairman's introduction**
O. Akhan; Ankara/TR
- A. Lung biopsy**
T. Sabharwal; London/UK
- B. Percutaneous drainage of thoracic fluid collections**
I. Vollmer; Barcelona/ES
- C. RFA of lung tumours**
P.L. Pereira; Heilbronn/DE
- **Panel discussion:**
Is there a role for other imaging modalities besides CT?

Refresher Courses

Musculoskeletal

Friday, March 7, 16:00–17:30

**RC 710: Trauma to the
paediatric skeleton**

LEVEL II

Moderator: M. Padrón; Madrid/ES

A. Pelvis/hips

N. Boutry; Lille/FR

B. Elbow

K.J. Johnson; Birmingham/UK

C. Spine

L.B.O. Jans; Ghent/BE

Saturday, March 8, 16:00–17:30

RC 1110: The ankle and foot

LEVEL II

Moderator: S.J. Ostlere; Oxford/UK

A. Ankle sprain: patterns of injury

J.L.M.A. Gielen; Antwerp/BE

B. Inflammatory disorders

R. Lalam; Oswestry/UK

C. Tumours and tumour-like lesions

I.-M. Noebauer-Huhmann; Vienna/AT

Sunday, March 9, 08:30–10:00

**RC 1210: Peripheral nerve imaging:
MRI and US**

LEVEL III

Moderator: M. Maas; Amsterdam/NL

A. Anatomy and pathology of the brachial plexus

S. Gerevini; Milan/IT

B. Upper limb nerve entrapment

D. Weishaupt; Zurich/CH

C. Lower limb nerve entrapment

C. Martinoli; Genoa/IT

Sunday, March 9, 14:00–15:30

RC 1410: How I do and report

LEVEL II

Moderator: F. Kainberger; Vienna/AT

A. MRI of the hip

J. Teh; Oxford/UK

B. MRI of the spine and sacroiliac joints

A. Feydy; Paris/FR

C. MRI of the hand

C. Schüller-Weidekamm; Vienna/AT

Monday, March 10, 16:00–17:30

RC 1910: The hand and wrist

LEVEL II

Moderator: S. Bianchi; Geneva/CH

A. Patterns of injury

A. Navas Canete; Leiden/NL

B. Inflammatory disorders

H. Guerini; Paris/FR

C. Tumours and tumour-like lesions

E. Llopis; Valencia/ES

Refresher Courses

Neuro

Friday, March 7, 08:30–10:00

**RC 411: The paediatric brain:
not just a small brain**

LEVEL II

Moderator: N. Girard; Marseille/FR

- A. Neurocutaneous syndromes: more than neurofibromatosis**
B. Ertl-Wagner; Munich/DE
- B. Patterns of white matter disease in children**
A. Rossi; Genoa/IT
- C. Paediatric brain tumours**
M. Bekiesinska-Figatowska; Warsaw/PL

Saturday, March 8, 16:00–17:30

**RC 1111: Brain tumours:
the central role of radiology**

LEVEL III

- **Chairman's introduction**
M.A. Lucic; Sremska Kamenica/RS
- A. Differential diagnosis and pseudo-tumoural lesions**
H.R. Jäger; London/UK
- B. Grading and prognosis: role of perfusion imaging**
Y. Özsunar; Aydın/TR
- C. Monitoring treatment: real or pseudo progression?**
P.C. Maly Sundgren; Lund/SE
- **Panel discussion:**
What is the optimal role of radiology in a tumour board session?

Sunday, March 9, 08:30–10:00

**RC 1211: Stroke: diagnosis,
mimics and treatment**

LEVEL II

- **Chairman's introduction**
B.F. Schuknecht; Zurich/CH
- A. Imaging acute stroke: value of CTA and perfusion**
P.M. Parizel; Antwerp/BE
- B. Stroke mimickers and pitfalls**
P. Vilela; Almada/PT
- C. Treatment: only intravenous?**
L. Pierot; Reims/FR
- **Panel discussion:**
What is the future of stroke prevention and treatment?

Sunday, March 9, 16:00–17:30

RC 1511: Spine, cord and intervention

LEVEL I

Moderator: C. Hoffmann; Tel Hashomer/IL

- A. Intramedullary pathology**
M.M. Thurnher; Vienna/AT
- B. Spondylodiscitis, degenerative or tumoural?**
G. Lycklama à Nijeholt; The Hague/NL
- C. Percutaneous treatment of spinal diseases**
M. Muto; Naples/IT

Monday, March 10, 08:30–10:00

RC 1611: Neuroimaging in dementia

LEVEL II

- **Chairman's introduction**
F. Barkhof; Amsterdam/NL
- A. Anatomy of the limbic system**
T.A. Yousry; London/UK
- B. Structural MRI and CT: beyond exclusion**
M.P. Wattjes; Amsterdam/NL
- C. Molecular imaging: when is it needed?**
H. Urbach; Freiburg/DE
- **Panel discussion:**
How to integrate imaging, clinical and CSF findings into a dementia clinic?

Monday, March 10, 16:00–17:30

**RC 1911: Ruling out disease:
a radiologist's headache?**

LEVEL I

Moderator: P. Demaerel; Leuven/BE

- A. Vasculo-ischaemic lesions: inappropriate for age?**
S. Haller; Geneva/CH
- B. Radiologically isolated syndrome: silent MS?**
A. Rovira-Cañellas; Barcelona/ES
- C. Incidental findings: what to report and what not to report?**
A. van der Lugt; Rotterdam/NL

Refresher Courses

Paediatric

Saturday, March 8, 08:30–10:00

RC 812: Autoimmune disorders in children

LEVEL II

Moderator: M.P. García-Peña; Barcelona/ES

- A. The joints in juvenile idiopathic arthritis**
L.-S. Ording Müller; Oslo/NO
- B. The digestive tract**
E. Alexopoulou; Athens/GR
- C. Multiple sclerosis in children**
C. Adamsbaum; Le Kremlin Bicêtre/FR

Sunday, March 9, 08:30–10:00

RC 1212: Paediatric emergencies

LEVEL I

Moderator: J.-P. Van Nieuwenhuysse; Luxembourg/LU

- A. The acute non-traumatic neurological patient: CT or MRI?**
E. Vázquez; Barcelona/ES
- B. Imaging of acute chest pain and distress in children**
C.E. de Lange; Oslo/NO
- C. The role of the interventional radiologist in paediatric trauma**
J.B. Karani; London/UK

Sunday, March 9, 14:00–15:30

RC 1412: Normal variants in paediatric imaging: not to be confused with disease

LEVEL II

Moderator: M. Raissaki; Iraklion/GR

- A. Brain**
A. Rossi; Genoa/IT
- B. Chest and abdomen**
S.G.F. Robben; Maastricht/NL
- C. Musculoskeletal**
E. Saez; Barakaldo/ES

Sunday, March 9, 16:00–17:30

RC 1512: Paediatric MSK radiology: what is important?

LEVEL II

Moderator: R.A.J. Nivelstein; Utrecht/NL

- A. Scoliosis: what the radiologist needs to know**
A. Geoffray; Nice/FR
- B. Benign bone tumours and pseudotumours in children: the pitfalls**
D. Dumitriu; Brussels/BE
- C. Congenital bone dysplasias**
A.C. Offiah; Sheffield/UK

Monday, March 10, 16:00–17:30

RC 1912: Imaging the head and skull base

LEVEL III

Moderator: J.F. Schneider; Basle/CH

- A. Faciocraniosynostoses revisited**
F. DiRocco; Paris/FR
- B. All about the paediatric pituitary gland**
M.I. Argyropoulou; Ioannina/GR
- C. Imaging of the orbit: the globe and the lachrymal gland**
P.C. Maly Sundgren; Lund/SE

Refresher Courses

Physics in Radiology

Saturday, March 8, 16:00–17:30

RC 1113: Novel developments in CT and their impact on dose

LEVEL III

Moderators: W. Stiller; Heidelberg/DE
A.J. van der Molen; Leiden/NL

- A. Impact of CT on patient dose**
R. Bly; Helsinki/FI
- B. New frontiers in CT: functional and spectral imaging**
A. Persson; Linköping/SE
- C. New image reconstruction techniques**
J. Sijbers; Antwerp/BE

Sunday, March 9, 16:00–17:30

RC 1513: IT tools for dose tracking and workflow optimisation

LEVEL II

Moderators: P. Mildemberger; Mainz/DE
A. Trianni; Udine/IT

- A. DICOM and IHE standards**
D. Peck; Detroit, MI/US
- B. Patient dose tracking: a must have?**
W. Pavlicek; Scottsdale, AZ/US
- C. To identify pitfalls and support technique optimisation**
E. Vaño; Madrid/ES

Sunday, March 9, 08:30–10:00

RC 1213: Cone-beam CT

LEVEL III

Moderators: D. Bor; Ankara/TR
S.J. Golding; Oxford/UK

- A. Fundamentals of cone-beam CT**
M. Kachelrieß; Heidelberg/DE
- B. Medical applications of cone-beam CT**
M. Grass; Hamburg/DE
- C. 3D dentomaxillofacial imaging**
K. Horner; Manchester/UK

Sunday, March 9, 14:00–15:30

**RC 1413: Good radiation and bad radiation?
How to assess and communicate
radiation risk to patients and
referring physicians**

LEVEL II

Moderators: M.M. Rehani; Vienna/AT
P. Vock; Spiegel/CH

- A. Radiation risk: a patient's perspective**
N. Bedlington; Vienna/AT
- B. Radiation risks for patients and staff**
P. Gilligan; Dublin/IE
- C. Risk in MRI**
R. Peeters; Leuven/BE
- D. Communicating risks to patients and the public**
G. Gamhewage; Geneva/CH

Refresher Courses

Radiographers

Friday, March 7, 08:30–10:00

RC 414: Child protection issues: raising awareness among medical imaging professionals **LEVEL I+II**

Moderators: J. McNulty; Dublin/IE
H. Ringertz; Danderyd/SE

- **Chairman's introduction**
J. McNulty; Dublin/IE
- A. Professional responsibilities: an international perspective**
M. Davis; Dublin/IE
- B. Risk communication in paediatric examinations**
J. Portelli; Msida/MT
- C. What to do if you find yourself being called to give evidence**
M.D. Viner; London/UK
- **Panel discussion:**
Is there a need for further education and training for radiologists and radiographers?

Saturday, March 8, 16:00–17:30

RC 1114: Evidence-based practice in medical imaging: a tool to improve the quality of care **LEVEL I**

Moderators: C.J. Herold; Vienna/AT
D. Katsifarakis; Athens/GR

- A. The radiographer as the interface between patient and technology: clinical judgement and professional accountability**
G. Paulo; Coimbra/PT
- B. Justification and optimisation in medical imaging**
J. Santos; Coimbra/PT
- C. Service development through evidence-based approaches**
E. Metsala; Helsinki/FI

Sunday, March 9, 08:30–10:00

RC 1214: How important are state-of-the-art displays to radiology? **LEVEL I**

Moderators: E.T. Tali; Ankara/TR
C. Vandulek; Kaposvár/HU

- **Chairman's introduction**
C. Vandulek; Kaposvár/HU
- A. Primary class displays**
W. Hummel; Leeuwarden/NL
- B. Is a smartphone all that is required?**
R. Toomey; Dublin/IE
- C. Clinical requirements for image display**
D. Pekarovic; Ljubljana/SI
- **Panel discussion:**
The pros and cons of cutting-edge display devices

Sunday, March 9, 14:00–15:30

RC 1414: Cutting-edge imaging: translating research into clinical reality **LEVEL I**

Moderators: R.W. Günther; Aachen/DE
C. Malamateniou; London/UK

- **Chairman's introduction**
C. Malamateniou; London/UK
- A. Advanced imaging of neurodegenerative disease**
E. Hughes; London/UK
- B. Advanced oncological imaging**
L. Martí-Bonmatí; Valencia/ES
- C. Advanced cardiac imaging**
M.L. Dijkshoorn; Rotterdam/NL
- **Panel discussion:**
Bridging the gap between research and clinical reality: a team approach

Sunday, March 9, 16:00–17:30

RC 1514: The interventional suite of 2014: responsibilities and challenges **LEVEL I+II**

Moderators: K. Haller; Wiener Neustadt/AT
B. Marincek; Cleveland, OH/US

- A. Today's technology: requirements for a cutting-edge interventional suite**
D. Catania; Milan/IT
- B. Radiation risk and radiation protection considerations**
A. Widmark; Østerås/NO
- C. Changing professional roles**
O. McElarney; Dublin/IE

Refresher Courses

Vascular

Thursday, March 6, 16:00–17:30

**RC 315: How to perform venous sampling
for endocrine disease**

LEVEL III

Moderator: W.R. Jaschke; Innsbruck/AT

A. Role of venous sampling in localising endocrine disease

A. Raynaud; Paris/FR

B. Adrenal venous sampling

M. Matson; London/UK

C. Inferior petrosal sinus sampling

D.K. Tsetis; Iraklion/GR

Friday, March 7, 16:00–17:30

**RC 715: Dialysis fistula:
imaging and intervention**

LEVEL II

Moderator: H.I. Manninen; Kuopio/FI

A. Assessment of vascular access malfunction

R. Uberoi; Oxford/UK

B. Treating the stenosed access

D. Henroteaux; Liège/BE

C. Treating the thrombosed access

L. Turmel-Rodrigues; Tours/FR

Saturday, March 8, 08:30–10:00

**RC 815: Imaging and intervention
in acute ischaemic stroke**

LEVEL II

Moderator: K.A. Hausegger; Klagenfurt/AT

A. Acute stroke imaging

N.N.

B. Indication for intervention

D. Vorwerk; Ingolstadt/DE

C. Mechanical revascularisation

A. Dörfler; Erlangen/DE

Monday, March 10, 08:30–10:00

**RC 1615: Venous thrombosis:
imaging and management**

LEVEL II

• **Chairman's introduction**

O. Pellerin; Paris/FR

A. Ultrasound, CT and MR venography

M. Das; Maastricht/NL

B. Epidemiology, prevention and treatment

C. Binkert; Winterthur/CH

C. IVC filters

G. O'Sullivan; Galway/IE

• **Panel discussion:**

Current indications for interventional venous thrombosis treatment

Refresher Courses

Oncologic Imaging

Friday, March 7, 08:30–10:00

RC 416: Multiparametric MRI for prostate cancer management: the essential guide for radiologists

LEVEL II

- **Chairman's introduction**
H.-P. Schlemmer; Heidelberg/DE
- A. The clinical arena: when and how to treat prostate cancer**
F.H. Schröder; Rotterdam/NL
- B. The radiologist's contribution: capabilities of multiparametric MRI in clinical routine**
H. Hricak; New York, NY/US
- C. The joint action: MR-guided, MR/TRUS-fusion biopsy**
F. Cornud; Paris/FR
- **Panel discussion:**
Is multiparametric MRI essential for the management of prostate cancer patients?

Sunday, March 9, 14:00–15:30

RC 1416: Gastro-entero-pancreatic neuro-endocrine tumours (GEP-NET): a multidisciplinary update

LEVEL II

- **Chairman's introduction**
C. Matos; Brussels/BE
- A. Tumour biology, pathogenesis and classification**
B. Wiedenmann; Berlin/DE
- B. The current role of nuclear medicine**
C. Deroose; Leuven/BE
- C. Anatomical imaging: transabdominal US, endoscopic US, MDCT and MRI: which is the most appropriate imaging approach?**
V. Vilgrain; Clichy/FR
- **Panel discussion:**
The future of hybrid imaging

Monday, March 10, 08:30–10:00

RC 1616: Management of bone metastases

LEVEL II

- **Chairman's introduction**
H. Ahlström; Uppsala/SE
- A. Diagnostic approach: the role of hybrid imaging**
K. Herrmann; Würzburg/DE
- B. Therapeutic radiological approaches: from ablation to cementoplasty**
T. de Baère; Villejuif/FR
- C. Assessment of tumour response: techniques and timing**
G. Cook; Sutton/UK
- **Panel discussion:**
How to differentiate between bone metastases and chronic inflammatory or treatment-induced changes

Monday, March 10, 16:00–17:30

RC 1916: Managing incidental findings in cancer patients

LEVEL II

- **Chairman's introduction**
C. Pfannenberger; Tübingen/DE
- A. Abdomen: common pitfalls and protocol issues**
A. Ba-Ssalamah; Vienna/AT
- B. Chest: CT follow-up and advanced techniques**
A.A. Bankier; Boston, MA/US
- C. Skeletal system: is MRI sufficient?**
F.E. Lecouvet; Brussels/BE
- **Panel discussion:**
The role of functional imaging techniques in lesion characterisation

Refresher Courses

Emergency Radiology

Friday, March 7, 08:30–10:00

**RC 417: Vascular: emergent,
not urgent!**

LEVEL II+III

- **Chairman's introduction: highlighting the benefits of minimally invasive procedures in vascular emergencies**
G. Schueller; Bülach/CH
- A. Aortic emergencies**
M. Cejna; Feldkirch/AT
- B. Visceral emergencies**
G. Goh; London/UK
- C. Peripheral emergencies**
R. Omid; Bülach/CH
- **Panel discussion:**
Cooperation with clinicians: what still needs to be done?

Friday, March 7, 16:00–17:30

**RC 717: ER: basic principles - polytrauma:
feel your own pulse first!**

LEVEL I+II

Moderator: D.R. Kool; Nijmegen/NL

- A. Logistics and management**
M. Körner; Landshut/DE
- B. Polytrauma: choosing the right protocol**
S. Wirth; Munich/DE
- C. Whole-body CT: dose reduction and data handling**
M. Rieger; Hall i. Tirol/AT

Saturday, March 8, 08:30–10:00

**RC 817: Polytrauma: redefining imaging issues
for management priorities**

LEVEL II

- **Chairman's introduction: advanced imaging, logistics and management priorities in patients after polytrauma**
H. Alkadhi; Zurich/CH
- A. Chest and abdomen**
M. Scaglione; Castel Volturno/IT
- B. Spine and pelvis**
G. Schueller; Bülach/CH
- C. Extremities**
U. Linsenmaier; Munich/DE
- **Panel discussion:**
How to speed up your diagnoses



EFOMP WORKSHOP

The workshop is organised by EFOMP
(European Federation of Organisations for Medical Physics)
in collaboration with the ESR to address the current and future
technological requirements for radiology imaging equipment.
During the two 90-minute sessions, six lectures will be presented.

Saturday, March 8, 08:30–12:00

Between diagnosis and therapy: new technology in imaging of the prostate

Organising Committee:

Chairman:

P. Sharp; Aberdeen/UK

Members:

P. Sharp; Aberdeen/UK

A. Torresin; Milan/IT

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

R. Padovani; Udine/IT

Programme to be announced



E³ – EUROPEAN EXCELLENCE IN EDUCATION

Foundation Course (E³)

This basic teaching course, which takes place under the heading of E³ – European Excellence in Education, is designed for trainees and anyone wishing to refresh their knowledge.

The motto of the programme is: ‘All you need to know in 18 easy lessons. This course answers your questions!’

The course is organised by a coordinator from the programme planning committee, with the topic and coordinator being chosen by the Congress President.

The programme will be concluded with a self-marking electronic examination, moderated by the course coordinator that will allow the participants to assess what they have learned.

Interactive Teaching Sessions (E³)

The ECR traditionally presents interactive teaching sessions dealing with specific topics of common clinical problems and imaging, establishing a two-way interaction between the presenters and the participants.

Each session is around 90 minutes long and is presented by two speakers. The sessions include a strong interactive element, with audience participation and self-assessment by means of an electronic voting system (keypads).

Places are allocated on a first-come, first-served basis.

E³ – European Excellence in Education

Foundation Course: Breast Imaging

Friday, March 7, 08:30–10:00

E³ 420b: Mammography

LEVEL I

Moderator: P. Skaane; Oslo/NO



A. Digital mammography: technique and quality assurance

M.G. Wallis; Cambridge/UK

B. Tomosynthesis and contrast-enhanced digital mammography

J. Barkhausen; Lübeck/DE

C. Screening mammography

E. Azavedo; Stockholm/SE

Friday, March 7, 16:00–17:30

E³ 720b: Image-guided breast biopsy

LEVEL I

Moderator: G. Esen; Istanbul/TR



A. US-guided biopsy of breast and axilla

L.J. Pina Insausti; Pamplona/ES

B. Stereotactic vacuum-assisted biopsy

R.M. Mann; Nijmegen/NL

C. MRI-guided biopsy

C. Smith; Dublin/IE

Friday, March 7, 10:30–12:00

E³ 520b: Breast US

LEVEL I

Moderator: S.T. Prapavesis; Thessaloniki/GR



A. Clinical US technique (2D and automated)

G. Ivanac; Zagreb/HR

B. US of the breast and axilla

C.F. Weismann; Salzburg/AT

C. Sonoelastography and ancillary modalities

C.S. Balleyguier; Villejuif/FR

Saturday, March 8, 08:30–10:00

E³ 820c: Multidisciplinary team meeting from Milan, IT

LEVEL III

Moderator: P. Panizza; Milan/IT



A. Radio-pathologic correlation/cooperation

B. Paolini; Milan/IT

B. The surgeon's point of view

R. Agresti; Milan/IT

C. Oncologist/radiotherapist's point of view

G. Bianchi; Milan/IT

L. Lozza; Milan/IT

D. MDT discussion

P. Panizza; Milan/IT

Friday, March 7, 14:00–15:30

E³ 620: MRI of the breast

LEVEL I

Moderator: F. Pediconi; Rome/IT



A. Technique and diagnosis

K. Kinkel; Chêne-Bougeries/CH

B. MRI of the postoperative breast

A. Tardivon; Paris/FR

C. MRI in the high-risk population

C.K. Kuhl; Aachen/DE

Saturday, March 8, 10:30–12:00

E³ 920b: How to report

LEVEL I

Moderator: R. Holland; Nijmegen/NL



A. Mammography

F.J. Gilbert; Cambridge/UK

B. Breast US

J. Camps Herrero; Valencia/ES

C. MRI of the breast

M.H. Fuchsjäger; Graz/AT

= Interactive session with electronic voting/self assessment

E³ – European Excellence in Education

Interactive Teaching Sessions

Thursday, March 6, 14:00–15:30

E³ 220: The treated breast: what you need to know

LEVEL II

A. Imaging after treatment of breast cancer

M.H. Fuchsjaeger; Graz/AT

B. Imaging after treatment of benign breast conditions

J. Camps Herrero; Valencia/ES



Thursday, March 6, 16:00–17:30

E³ 320: The treated liver

LEVEL III

A. Imaging of liver transplantation

N.N.

B. Imaging of treated liver tumours

I. Bargellini; Pisa/IT



Saturday, March 8, 08:30–10:00

E³ 820a: Thoracic changes after treatment

LEVEL II

A. Drug-related conditions

T. Franquet; Barcelona/ES

B. Device-related conditions

G.R. Ferretti; Grenoble/FR



Saturday, March 8, 08:30–10:00

E³ 820b: Central nervous system changes after treatment: what you need to know

LEVEL II

A. Drug-related conditions

F. Barkhof; Amsterdam/NL

B. Imaging of treated brain tumours

J. Alvarez-Linera; Madrid/ES



Friday, March 7, 08:30–10:00

E³ 420a: Pitfalls in female pelvic imaging

LEVEL II

A. Pitfalls in MRI

E. Sala; New York, NY/US

B. Pitfalls in ultrasound

K. Kinkel; Chêne-Bougeries/CH



Saturday, March 8, 10:30–12:00

E³ 920a: The treated spine and joints

LEVEL II

A. Imaging of the postoperative spine

P.N.M. Tyrrell; Oswestry/UK

B. Imaging of joint replacement

M. Zanetti; Zurich/CH



Friday, March 7, 10:30–12:00

E³ 520a: Pitfalls in abdominal imaging

LEVEL II

A. Liver

V. Vilgrain; Clichy/FR

B. Pancreas and bile ducts

R. Manfredi; Verona/IT



Saturday, March 8, 16:00–17:30

E³ 1120: What to look for after treatment of lung cancer

LEVEL II

A. Imaging of surgically treated lung cancer

C.P. Heussel; Heidelberg/DE

B. Imaging of non-surgical treatment of lung cancer

B. Ghaye; Brussels/BE



Friday, March 7, 16:00–17:30

E³ 720a: Pitfalls in head and neck imaging

LEVEL II

A. Pitfalls in neck imaging

F.A. Pameijer; Utrecht/NL

B. Pitfalls in maxillofacial and skull-base imaging

R. Hermans; Leuven/BE



Sunday, March 9, 08:30–10:00

E³ 1220: Pitfalls in brain imaging

LEVEL III

A. CT

L. van den Hauwe; Antwerp/BE

B. MRI

D. Prayer; Vienna/AT



= Interactive session with electronic voting/self assessment



Insights into Imaging

Education and strategies in European radiology



ESIR
European Society of Radiology

Education and strategies in European radiology

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E³ – European Excellence in Education

Interactive Teaching Sessions

Sunday, March 9, 14:00–15:30

E³ 1420: Common and uncommon errors in plain film and CT imaging of the chest: how to improve your performance

LEVEL II

D. Tack; Baudour/BE
N. Howarth; Chêne-Bougeries/CH



Sunday, March 9, 16:00–17:30

E³ 1520: Thoracic emergencies

LEVEL II

- A. Vascular**
E. Castañer; Sabadell/ES
- B. Pulmonary**
C.M. Schaefer-Prokop; Amersfoort/NL



Monday, March 10, 08:30–10:00

E³ 1620: Pitfalls in heart imaging

LEVEL II

A. CT
G. Bastarrika; Pamplona/ES

B. MRI
M. Francone; Rome/IT



Monday, March 10, 10:30–12:00

E³ 1720: Changes of the gastrointestinal tract after treatment

LEVEL II

- A. Gastrointestinal tumours**
A. Laghi; Latina/IT
- B. Non-tumoural intestinal diseases**
J. Rimola; Barcelona/ES



 = Interactive session with electronic voting/self assessment



Multimedia CLASSROOM

Coordinators:

E. Neri; Pisa/IT
D. Regge; Turin/IT

Background and scope:

2D and 3D image review and processing at the workstation are essential steps in the radiological workflow that lead to the final diagnosis and report. Radiologists must be trained in this task.

Aim:

The aim is to provide direct (doctor-to-doctor) training on the workstation for the interpretation of cases in CT colonography, MDCT in trauma, cardiac CT and oncologic imaging.

Friday, March 7

08:30–10:00 CT Colonography
10:30–12:00 MDCT in trauma
14:00–15:30 Cardiac CT
16:00–17:30 Oncologic Imaging

Saturday, March 8

08:30–10:00 CT Colonography
10:30–12:00 MDCT in trauma
14:00–15:30 Cardiac CT
16:00–17:30 Oncologic Imaging

Sunday, March 9

08:30–10:00 CT Colonography
10:30–12:00 MDCT in trauma
14:00–15:30 Cardiac CT
16:00–17:30 Oncologic Imaging

ESOR/ESTRO PRE-CONGRESS COURSE

Multidisciplinary management of cancer: the role of imaging

European School of Radiology
European Society for Radiotherapy and Oncology

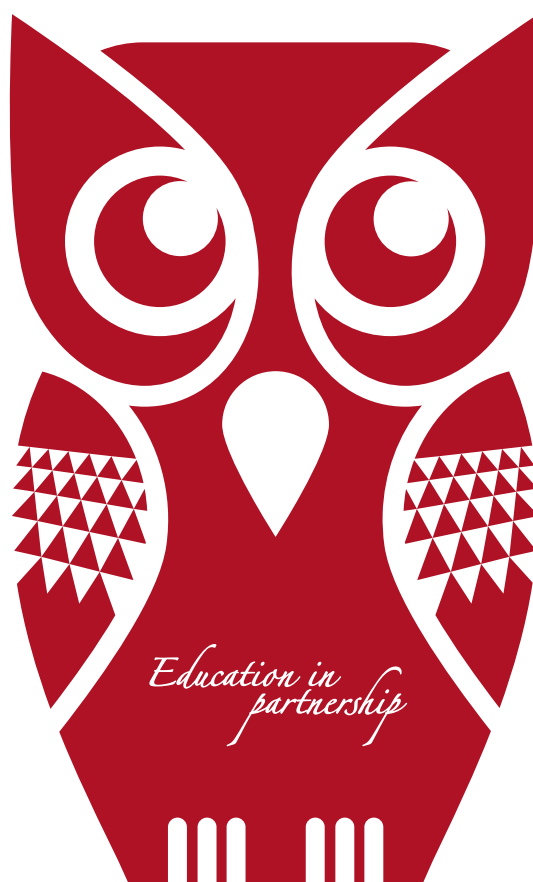


Wednesday, March 5,
11:00–19:00

This course is designed as a forum for radiologists, radiation oncologists and surgical oncologists who would like to deepen their knowledge on the use of imaging in a truly multidisciplinary environment. The course aims to provide knowledge on an integrated approach to imaging in the diagnosis and treatment of rectal, prostate, cervical and breast cancer.

The faculty consists of an expert multidisciplinary team of radiologists, radiation oncologists and surgical oncologists. The attendees will learn about diagnostic and treatment pathways according to international guidelines, and gain an understanding of the clinically relevant questions faced by radiologists. Each session is scheduled in such a way that both early and late-stage tumours will be addressed in the lectures. These lectures will be complemented by case presentations and discussions by an expert radiologist together with the clinicians.

Each session follows the format of a true multidisciplinary meeting in daily clinical practice.



10:15–11:00	Registration		
11:00–11:15	Introduction and aim of the course V. Valentini; Rome/IT; N. Gourtsoyiannis; Athens/GR		
11:15–12:45	PART I Essentials in the multidisciplinary management of rectal cancer	15:00–16:30	PART III Essentials in the multidisciplinary management of cervical cancer
Introduction	R.G.H. Beets-Tan; Maastricht/NL The surgeon: Evidence-based clinical decision-making in early stage cT1-2-T3a/b rectal cancer Clinical case I: multidisciplinary discussion The radiation oncologist: Evidence-based clinical decision-making in advanced stage cT3c/d/CRM + rectal cancer Clinical case II: multidisciplinary discussion	Introduction	R. Forstner; Salzburg/AT The gynaecologist: Evidence-based clinical decision-making of FIGO IIa/b cervical cancer Clinical case I: multidisciplinary discussion The radiation oncologist: Evidence-based clinical decision-making in FIGO IIIa/b cervical cancer Clinical case II: multidisciplinary discussion
12:45–13:30	Lunch break	16:30–17:00	Coffee break
13:30–15:00	PART II Essentials in the multidisciplinary management of prostate cancer	17:00–18:30	PART IV– Essentials in the multidisciplinary management of breast cancer
Introduction	H.-P. Schlemmer; Heidelberg/DE The Urologist: Evidence-based clinical decision-making in early stage cT2-T3a prostate cancer Clinical case I: multidisciplinary discussion The radiation oncologist: Evidence-based clinical decision-making in advanced stage cT3b prostate cancer Clinical case II: multidisciplinary discussion	Introduction	F. Sardanelli; Milan/IT The breast surgeon: Evidence-based clinical decision-making in early stage cT1-2aNO breast cancer Clinical case I: multidisciplinary discussion The radiation oncologist: Evidence-based clinical decision-making of advanced stage cT3 or N+ breast cancer Clinical case II: multidisciplinary discussion
		18:30–19:00	Conclusions

For further information on the programme and registration please visit



Accompanying SESSIONS

Accompanying Sessions

Friday, March 7, 08:30–10:00

Joint Session of the ESR and EFSUMB

(European Federation of Societies for Ultrasound in Medicine and Biology)

Advances in diagnostic ultrasound: better results through combinations

LEVEL III

Moderators: L.E. Derchi; Genoa/IT
C.F. Dietrich; Bad Mergentheim/DE

- **US/MRI fusion to guide prostate biopsies**
F.M. Drudi; Rome/IT
- **CT/US and US/MRI images: are they useful for diagnostic applications?**
C. Ewertsen; Roskilde/DK
- **Imaging tumour perfusion: CEUS compared with CT, MRI and PET**
M. Claudon; Vandoeuvre-les-Nancy/FR
- **3D/4D ultrasonography: tool or toy?**
N.N.
- **Panel discussion:**
Technical advances in ultrasonography: it is our responsibility to make them work

Friday, March 7, 10:30–12:00

ESR Radiation Protection Session

Dealing with the challenges of radiation protection

ALL LEVELS

Moderators: C. Owens; London/UK
P. Vock; Spiegel/CH

- **Image Gently Campaign**
M. Goske; Cincinnati, OH/US
- **Image Wisely Campaign**
J.A. Brink; Boston, MA/US
- **International Day of Radiology Campaign**
L.E. Derchi; Genoa/IT
- **ESR EuroSafe Imaging Campaign**
M.M. Rehani; Vienna/AT
- **Lessons from a national patient safety campaign for radiation protection**
P. Cavanagh; Taunton/UK
- **Discussion**

Friday, March 7, 14:00–15:30

ESOR Session

Mentoring in radiology

LEVEL II

Moderators: G. Frija; Paris/FR
N. Gourtsoyannis; Athens/GR

- **Introduction**
G. Frija; Paris/FR
- **ESOR in action 2014**
N. Gourtsoyannis; Athens/GR
- **Evidence-based radiology: the basics**
F. Sardanelli; Milan/IT
- **Education in research: action plan**
J. Hodler; Zurich/CH
- **Mentoring in radiology**
H.-U. Kauczor; Heidelberg/DE
- **Awards**

Saturday, March 8, 08:30–10:00

Joint Session of the ESR and ESMRMB

(European Society for Magnetic Resonance in Medicine and Biology)

Diffusion MRI: everything you always wanted to know but never dared to ask

LEVEL I+II

Moderators: E.-M.B. Larsson; Uppsala/SE
M. Smits; Rotterdam/NL

- **Diffusion MRI: the bare basics**
C.A.M. Wheeler-Kingshott; London/UK
- **Processing and analysing diffusion MRI data**
W. Van Hecke; Antwerp/BE
- **Clinical applications of diffusion MRI (neuro)**
E.-M.B. Larsson; Uppsala/SE
- **Clinical applications of diffusion MRI (body)**
H. Ahlström; Uppsala/SE
- **Panel discussion**

Accompanying Sessions

Saturday, March 8, 10:30–12:00

Joint Session of ESR/ESMOFIR

(*European Society of Molecular and Functional Imaging in Radiology*) and *ESMI* (*European Society for Molecular Imaging*)

Molecular and functional imaging methods for interventions

LEVEL II

Moderators: P. Brader; Vienna/AT
F.M.A. Kiessling; Aachen/DE

- **Interventional oncology based on molecular and functional imaging**
R. Bale; Innsbruck/AT
- **MR-guided focused ultrasound in drug delivery and gene expression**
C. Moonen; Utrecht/NL
- **Intraoperative imaging: a new dimension of imaging for radiology**
V. Ntziachristos; Munich/DE

Saturday, March 8, 13:00–17:30

MIR @ ECR

After its great success at ECR 2012 and ECR 2013, MIR (Management in Radiology), a subcommittee of the ESR Professional Organisation Committee, will again coordinate a session on core managerial issues as well as supportive methods and techniques.

Saturday, March 8, 14:00–15:30

Image Interpretation Quiz (IIQ)

Making neuroradiology easy: girls versus boys

LEVEL II+III

Moderator: A. Rossi; Genoa/IT

Panellists:

Girls:

B. Ertl-Wagner; Munich/DE
B. Gómez-Ansón; Barcelona/ES
L.C. Meiners; Groningen/NL

Boys:

H.R. Jäger; London/UK
L. van den Hauwe; Antwerp/BE
P. Vilela; Almada/PT

Saturday, March 8, 16:00–17:30

EDiR Session

European Diploma in Radiology: and the beat goes on!

LEVEL II

Chairman: Y. Menu; Paris/FR

- **Chairman's introduction: setting the scene for the European Diploma**
Y. Menu; Paris/FR
- **Who really needs a European Diploma in Radiology?**
W. Schima; Vienna/AT
- **Learn from past mistakes: lessons to improve your preparation and performance**
S. Barter; Cambridge/UK
L. McKnight; Langland/UK
- **We made it! The Turkish Board of Radiology values EDiR**
S.S. Özbek; Izmir/TR
- **I did it! Lessons from a successful candidate**
J. Muscat; Birkirkara/MT

Sunday, March 9, 10:30–12:00

Radiology Trainees Forum RTF Highlighted Lectures

Moderators: V.H. Koen; Haarlem/NL
N. Pyatigorskaya; Paris/FR

- **Imaging hepatocellular carcinoma at the era of multimodality and hybrid imaging**
A. Luciani; Créteil/FR
- **The (extra)ordinary night shift at the ER**
K. Petrović; Novi Sad/RS
- **Diagnosis and management of pancreatic cystic lesions**
R. Méndez; Madrid/ES



= Interactive session with electronic voting/self assessment



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Accompanying Sessions

Sunday, March 9, 13:00–14:00
Junior Image Interpretation Quiz (JIIQ)
Matryoshka contest

LEVEL I

Moderator: S. Gourtsoyianni; London/UK

Contributors:

C. Triantopoulou; Athens/GR
M. Raissaki; Iraklion/GR

Panellists:

M. Ciolina; Rome/IT
E. Güler Köse; Ankara/TR
O.V. Kucheruk; Moscow/RU
A.M.H. Sailer; Maastricht/NL
S. Toledano-Massiah; Paris/FR

Case-Based Diagnosis Training

Special Programme for residents and general radiologists

Monday, March 10, 12:30–13:30
Case-Based Diagnosis Training – Part I

Moderators: K.M. Friedrich; Vienna/AT
S. Robinson; Vienna/AT

- **Neuro**
D. Prayer; Vienna/AT
- **Maxillofacial**
S. Robinson; Vienna/AT
- **Musculoskeletal**
F. Kainberger; Vienna/AT
- **Liver**
L. Martí-Bonmatí; Valencia/ES
- **Breast**
M.H. Fuchsjäger; Graz/AT

Monday, March 10, 13:30–14:00
Interlude: Do you see what I see?

Moderators: W. Drahanowsky; Vienna/AT

*Presentation and award of the most stunning
submitted visual illusions*

Monday, March 10, 14:00–15:00
Case-Based Diagnosis Training – Part II

Moderators: K.M. Friedrich; Vienna/AT
S. Robinson; Vienna/AT

- **Head and neck**
C. Czerny; Vienna/AT
- **Chest**
H. Prosch; Vienna/AT
- **Spine**
K.M. Friedrich; Vienna/AT
- **Gastrointestinal**
W. Schima; Vienna/AT
- **Genitourinary**
M. Toepker; Vienna/AT



Plenary SESSIONS

Thursday, March 6, 17:45–19:15

Opening Ceremony

Presentation of Honorary Members

Sarah S. Donaldson; Stanford, CA/US

Herbert Y. Kressel; Boston, MA/US

Kazuro Sugimura; Kobe/JP

Opening Lecture

Etudes in space radiology

Oleg J. Atkov; Moscow/RU

Friday, March 7, 12:15–13:15

Presentation of the ESR Gold Medal Awards

Peter Aspelin; Stockholm/SE

Adrian K. Dixon; Cambridge/UK

Gerard D. Hurley; Dublin/IE

Josef Lissner Honorary Lecture

Research in cardiac imaging: how I do it

Albert de Roos; Leiden/NL

Saturday, March 8, 12:15–12:45

Wilhelm Conrad Röntgen Honorary Lecture

Mysteries of the human brain unveiled:

imaging of white matter microstructure and neuroplasticity

Paul M. Parizel; Antwerp/BE

Sunday, March 9, 12:15–12:45

Samuil A. Reinberg Honorary Lecture

The tempestuous genesis of MRI: credit and discredit

Morton A. Meyers; East Setauket, NY/US



Satellite SYMPOSIA

Industrial Satellite Symposia are organised by various international companies. These sessions are a chance to get an industry perspective on various scientific subjects, including technical updates, emerging trends and future innovations.

The symposia vary in length from one hour to 90 minutes, with the number of speakers also differing between companies and subjects.

Places are allocated on a first-come, first-served basis.

Satellite Symposia organised by

Bayer HealthCare; Bayer Russia; Bracco; GE Healthcare; GE Healthcare Russia; Guerbet; Hitachi Medical Systems Europe; Hologic® The Women's Health Company; Mallinckrodt Pharmaceuticals; Philips; Samsung Electronics; Siemens AG, Healthcare Sector; SuperSonic Imagine; Toshiba Medical Systems



Industry WORKSHOPS

Intensive practical sessions organised directly by a particular company or commercial vendor. Classes are conducted on their own state-of-the-art workstations with expert technical support provided by company staff.

As a registered attendee for the ECR, participation is free of charge.

Industry Workshops organised by

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Siemens AG, Healthcare Sector; Toshiba Medical Systems**

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Opening Lecturer

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Leiden/NL

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Honorary Lecturer

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Junior Image Interpretation Quiz

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Oncologic Imaging: Follow-up of Systemic and Local Therapies

T. de Baère; Villejuif/FR

Head and Neck Imaging

A. Trojanowska; Lublin/PL

Modern Imaging of the GI Tract

S.A. Taylor; London/UK

Mini Courses

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

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A. Palkó; Szeged/HU

M. Smits; Rotterdam/NL

R.J. Zagoria; San Francisco, CA/US

Controversies in Chest Imaging

P.A. Grenier; Paris/FR

The Beauty of Basic Knowledge: Interventional Radiology

M. Bezzi; Rome/IT

The Beauty of Basic Knowledge: Skeletal Radiology

V.N. Cassar-Pullicino; Oswestry/UK

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Coordination

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