



European Congress of Radiology

ECR 2017

VIENNA
MARCH 1-5

THE FLOWER GARDENS
of RADIOLOGY

PRELIMINARY PROGRAMME

the annual meeting of

ESRF
EUROPEAN SOCIETY
OF RADIOLOGY



ECR 2017 will be a green meeting designed to meet environmental sustainability criteria set by the *Österreichisches Umweltzeichen* (Austria's national eco-friendly certificate).

The ECR is the annual meeting of the European Society of Radiology (ESR).

Thanks to the collaboration with the European Federation of Radiographer Societies (EFRS), the ECR can also be considered the annual meeting of radiographers in Europe.

COORDINATION

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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



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SUBMIT YOUR ABSTRACT

**Abstract Submission
Scientific Papers**

JULY 4–OCTOBER 15, 2016

**Poster Abstract Submission to EPOS™
(Electronic Presentation Online System)**

JULY 4–OCTOBER 15, 2016

**Student Abstract Submission
Scientific Papers**

JULY 4–OCTOBER 15, 2016

**Abstract Submission
Clinical Trials in Radiology**

JULY 4–DECEMBER 18, 2016

myESR.org

ECR 2017 TIMELINE

July 4 – October 15, 2016	Abstract Submission Scientific Papers
July 4 – October 15, 2016	Poster Abstract Submission to EPOS™ (Electronic Presentation Online System)
July 4 – October 15, 2016	Student Abstract Submission Scientific Papers
July 4 – October 15, 2016	Invest in the Youth Programme Application Open
July 4 – December 18, 2016	Abstract Submission Clinical Trials in Radiology
July 22 – December 12, 2016	MSK Manifestations of Systemic Disease (Case-Based Diagnosis Training) Submission
September 1, 2016	Online Registration Opens
August 16 – December 16, 2016	Poster Upload to EPOS™ (for Accepted Abstracts)
November 30, 2016	ESR Membership 2016 Final Application Deadline
December 2016	Notification of Paper Abstract Acceptance (Oral Presentations)
March 1–5, 2017	ECR 2017 (Wednesday to Sunday)

CONGRESS VENUE

Austria Center Vienna
Bruno Kreisky Platz 1
1220 Vienna, Austria

CONGRESS LANGUAGE

English

CME ACCREDITATION

Each ECR delegate has access to confirmation of all activities attended (CME confirmation and record of attendance). The maximum number of CME points will differ depending on your national jurisdiction.

For further information, please contact the ECR CME Support at cme@myESR.org

FACTS & FIGURES ECR 2016

- 25,998 Participants
- 5,927 registered ECR Live viewers
- 133 Countries
- 374 Scientific and Educational Sessions
- 2,763 Scientific and Educational Exhibits
- 1,393 Scientific Papers
- 320 Voice of EPOS Presentations
- 856 Invited Lectures
- Fully Electronic Scientific Exhibition
- 300 exhibitors, including national, international and subspecialty societies
- 26,000m² exhibition space

SCIENTIFIC AND EDUCATIONAL PROGRAMME

3 Honorary Lectures
4 ESR/EFRS meets Sessions
2 Image Interpretation Quizzes
3 New Horizons Sessions
3 State of the Art Symposia
19 Special Focus Sessions
10 Professional Challenges Sessions
4 Multidisciplinary Sessions
Joint Course of the ESR and RSNA
E³ - European Excellence in Education
E³ - Rising Stars Programme (for Residents & Students)
Basic Sessions & Joint Sessions with ESOR
(*European School of Radiology*)
Student Sessions
EFRS Radiographers' Basic Session
Case-Based Diagnosis Training
E³ - European Diploma Prep Sessions
E³ - The Beauty of Basic Knowledge
E³ - ECR Academies
E³ - ECR Master Classes
Pros & Cons Session
The Voice of EPOS Sessions
Clinical Trials in Radiology Sessions
Refresher Courses & Scientific Sessions
Radiology Trainees Forum - Highlighted Lectures
RTF Quiz
EIBIR Sessions (*European Institute for Biomedical Imaging Research*)
ESOR Session (*European School of Radiology*)
ESR Audit and Standards Subcommittee Session
ESR Patient Advisory Group Sessions
ESR Working Group on Ultrasound Sessions
ESR Working Group on Ultrasound and EFSUMB Session (*European Federation of Societies for Ultrasound in Medicine and Biology*)
European Radiology 25th Anniversary Session
EuroSafe Imaging Sessions
PIER Sessions (*Professional Issues and Economics in Radiology*)
ESHI Session (*European Society for Hybrid Medical Imaging*)
Joint Sessions with related societies
(EANM, EORTC, ERS, ESMRMB, ESTRO, UEMS)
EFOMP Workshop (*European Federation of Organisations for Medical Physics*)
EFRS Workshop (*European Federation of Radiographer Societies*)
Satellite Symposia & Industry Workshops

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REGISTER NOW!

myESR.org

REGISTRATION INFORMATION

REGISTRATION FEES (INCLUDING 10% VAT):

	Early Fee	Middle Fee	Late Fee
ESR Full Member	€470	€570	€695
ESR Allied Science Member	€590	€700	€910
ESR Corresponding Member	€590	€700	€910
Full Fee Non-Member	€790	€920	€995
Young Trainee Member	€295	€380	€500
Young Trainee Non-Member	€360	€450	€610
Radiographer Member	€220	€320	€460
Radiographer Non-Member	€320	€420	€570
Hospital Manager	€710	€860	€960
Nurse/Nurse Practitioner	€220	€320	€460
Student@ECR*	€50	€50	€50
Oral Presenter Member	-	€250	-
Participate from home**	-	€330	€330
Single Day Ticket (onsite only)	onsite only	onsite only	€315

REGISTRATION AS MEMBER

In order to qualify for reduced member registration fees for ECR 2017, ESR Membership for the year 2016 must have been settled and approved by August 31, 2016.

All other participants must register as non-members.

Please note that the ESR will not refund any registration fees once registration and payment have been completed, including in cases of subsequent ticket changes or membership-related changes.

***Students** under the age of 30, who do not yet have an academic degree, can register for just €50.

****Participate from home**

The registration category 'Participate 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

Early Fee: September 1 – November 16, 2016

Middle Fee: November 17 – December 14, 2016

Late Fee: from December 15, 2016 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/registration2017 or contact registration@myESR.org

TIMETABLE

Wednesday, March 1

08:30 9:00 09:30 10:00

Special Focus Session
SF 1
Professional Challenges Session
PC 1
E³ - ECR Academies
E³ 118, E³ 121
E³ - ECR Master Classes
E³ 126a, E³ 126b
Refresher Courses (100)
E³ - Rising Stars Programme
Basic Session 1
ESR Working Group on Ultrasound 1
📍 **Satellite Symposia**

1

10:30 11:00 11:30 12:00

E³ - ECR Academies
E³ 218, E³ 221
Scientific Sessions (200)
E³ - Rising Stars Programme
Basic Session 2
📍 **Satellite Symposia**

2

12:15 13:00 13:30 14:00

Guest Lecture
Breaking News from Latin America
Maria de Fátima Vasco Aragão; BR
E³ - The Beauty of Basic Knowledge
E³ 24A, E³ 25A
Clinical Trials in Radiology 1
📍 **Satellite Symposia**

Thursday, March 2

Special Focus Sessions
SF 5a, SF 5b
State of the Art Symposium
SA 5
New Horizons Session
NH 5
E³ - ECR Academies
E³ 518, E³ 521
E³ - ECR Master Classes
E³ 526a, E³ 526b
Refresher Courses (500)
Joint Course: ESR and RSNA
MC 528
E³ - Rising Stars Programme
Basic Session 5
ESR Audit and Standards Session
ESR Working Group on Ultrasound 3
EIBIR Session 1

5

E³ - ECR Academies
E³ 618, E³ 621
Joint Course: ESR and RSNA
MC 628
Scientific Sessions (600)
E³ - Rising Stars Programme
Basic Session 6
EuroSafe Imaging Session 2

6

Wilhelm Conrad Röntgen
Honorary Lecture
Mauricio Castillo; US
E³ - The Beauty of Basic Knowledge
E³ 24B, E³ 25B
Clinical Trials in Radiology 2
RTF Quiz
Satellite Symposia

Friday, March 3

Professional Challenges Session
PC 9
Special Focus Session
SF 9
Multidisciplinary Session
MS 9
E³ - ECR Academies
E³ 919, E³ 921
E³ - ECR Master Class
E³ 926
Refresher Courses (900)
EFOMP Workshop
EF 1
E³ - Rising Stars Programme
Joint Basic Session of the ESR and ESOR 2
EIBIR Session 2
Joint Session of the ESR and ESTRO
Joint Session of the ESR Working Group on Ultrasound with EFSUMB

9

ESR meets Belgium
E³ - ECR Academy
E³ 1019
Scientific Sessions (1000)
EFOMP Workshop
EF 2
E³ - Rising Stars Programme
Student Session 2
Professional Issues and Economics in Radiology (PIER) 1

10

Josef Lissner
Honorary Lecture
Mathias Prokop; NL
10 years of ESOR
E³ - The Beauty of Basic Knowledge
E³ 24C, E³ 25C
Satellite Symposia

Saturday, March 4

Professional Challenges Session
PC 13
Special Focus Sessions
SF 13a, SF 13b
E³ - ECR Academies
E³ 1320, E³ 1321, E³ 1322
E³ - ECR Master Class
E³ 1326
E³ - European Diploma Prep Session
E³ 1323
Refresher Courses (1300)
E³ - Rising Stars Programme
Student Session 3
EFRS Radiographers' Basic Session
ESHI Session

13

ESR meets the United States of America
E³ - ECR Academies
E³ 1420, E³ 1421, E³ 1422
E³ - European Diploma Prep Session
E³ 1423
Scientific Sessions (1400)
ESR Patient Advisory Group
ESR-PAG 1
RTF Highlighted Lectures

14

Arthur de Schepper
Honorary Lecture
Fiona J. Gilbert; UK
E³ - The Beauty of Basic Knowledge
E³ 24D, E³ 25D
Junior Image Interpretation Quiz
Satellite Symposia

Sunday, March 5

Special Focus Sessions
SF 17a, SF 17b, SF 17c
E³ - ECR Academy
E³ 1721
E³ - ECR Master Classes
E³ 1726a, E³ 1726b, E³ 1726c
Refresher Courses (1700)
E³ - Rising Stars Programme
Final Student Session

17

ESR meets Peru
E³ - ECR Academy
E³ 1821
E³ - European Diploma Prep Session
E³ 1823
Scientific Sessions (1800)

18

E³ - The Beauty of Basic Knowledge
E³ 24E, E³ 25E
E³ - Rising Stars Programme
Case-Based Diagnosis Training 1

TIMETABLE

14:00 14:30 15:00 15:30	16:00 16:30 17:00 17:30	17:45 18:00 18:30 19:00	
<p>Professional Challenges Session PC 3 E³ - ECR Academy E³ 318</p> <p>Scientific Sessions (300) E³ - Rising Stars Programme Basic Session 3 🚫 Satellite Symposia</p> <p style="text-align: right;">3</p>	<p>Special Focus Sessions SF 4a, SF 4b Professional Challenges Session PC 4 Multidisciplinary Session MS 4 E³ - ECR Academy E³ 418 E³ - ECR Master Class E³ 426</p> <p>Refresher Courses (400) E³ - Rising Stars Programme Basic Session 4 ESR Working Group on Ultrasound 2 Joint Session of the ESR and UEMS EuroSafe Imaging Session 1 🚫 Satellite Symposia</p> <p style="text-align: right;">4</p>	<p>Opening Ceremony Presentation of Honorary Members: <i>Richard L. Baron; US</i> <i>James A. Brink; US</i> <i>Gloria Soto Giordani; CL</i></p>	Wednesday, March 1
<p>E³ - ECR Academies E³ 719, E³ 721</p> <p>Scientific Sessions (700) ESOR Session Joint Course: ESR and RSNA MC 728</p> <p>E³ - Rising Stars Programme Student Session 1 Joint Session of the ESR and ERS</p> <p style="text-align: right;">7</p>	<p>Special Focus Session SF 8 State of the Art Symposium SA 8 Professional Challenges Session PC 8 E³ - ECR Academies E³ 819, E³ 821</p> <p>Refresher Courses (800) Joint Course: ESR and RSNA MC 828</p> <p>E³ - Rising Stars Programme Joint Basic Session of the ESR and ESOR 1 EuroSafe Imaging Session 3 Joint Session of the ESR and EORTC ESR Working Group on Ultrasound 4</p> <p style="text-align: right;">8</p>		Thursday, March 2
<p>EFRS meets Belgium Image Interpretation Quiz EuroSafe Imaging Session 4 Professional Issues and Economics in Radiology (PIER) 2 Joint Session of the ESR and ESMRMB Satellite Symposia</p> <p style="text-align: right;">11</p>	<p>European Radiology 25th Anniversary Session New Horizons Session NH 12 Special Focus Sessions SF 12a, SF 12b, SF 12c Multidisciplinary Session MS 12 E³ - ECR Academy E³ 1221 Pros & Cons Session PS 1227</p> <p>Refresher Courses (1200) E³ - Rising Stars Programme Joint Basic Session of the ESR and ESOR 3 EuroSafe Imaging Session 5 Professional Issues and Economics in Radiology (PIER) 3 Joint Session of the ESR and the EANM EDIR talk</p> <p style="text-align: right;">12</p>		Friday, March 3
<p>New Horizons Session NH 15 Professional Challenges Sessions PC 15a, PC 15b Special Focus Sessions SF 15a, SF 15b E³ - ECR Academies E³ 1520, E³ 1521, E³ 1522 E³ - ECR Master Classes E³ 1526a, E³ 1526b, E³ 1526c E³ - European Diploma Prep Session E³ 1523</p> <p>Refresher Courses (1500) E³ - Rising Stars Programme Student Session 4 EIBIR Session 3</p> <p style="text-align: right;">15</p>	<p>Professional Challenges Session PC 16 Special Focus Sessions SF 16a, SF 16b State of the Art Symposium SA 16 Multidisciplinary Session MS 16 E³ - ECR Academies E³ 1620, E³ 1621, E³ 1622 E³ - ECR Master Class E³ 1626 E³ - European Diploma Prep Session E³ 1623</p> <p>Refresher Courses (1600) ESR Patient Advisory Group ESR-PAG 2 EFRS Workshop</p> <p style="text-align: right;">16</p>		Saturday, March 4
<p>E³ - European Diploma Prep Session E³ 1923</p> <p>Scientific Sessions (1900) E³ - Rising Stars Programme Case-Based Diagnosis Training 2</p> <p style="text-align: right;">19</p>			Sunday, March 5

INTERVIEW WITH THE ESR PRESIDENT

YOUTH AS A CENTRAL THEME AT ECR 2017

In March this year, *ECR Today*, the daily congress newspaper, spoke with ESR President, Professor Paul M. Parizel, from Antwerp, Belgium, to learn about his new position, his visions for the society and his ideas for next year's congress.

ECR Today: You are the first officer of the European Society of Radiology to take on the new position of combined ESR/ECR President. Could you please briefly explain to our readers how this change came about and what it means? What are your main tasks and responsibilities in this position?

Paul M. Parizel: It is a great honour, and also a huge responsibility, to assume this new position of combined ESR/ECR President. The ESR is one of the most important and prestigious international scientific societies, with more than 63,000 members [note: 64,450 as per August 31, 2016] throughout the world. The ECR is well established as the foremost congress in radiology in Europe. Until a few years ago, nominations and elections for the 'cursus honorum' of the ECR and ESR were made independently of each other. This implies that we have had brilliant presidents of our society, who never became president of the congress, and vice versa. As both the society and the congress were getting bigger, and more mature, it was decided to re-evaluate and retune the strategic plan and to change the statutes so that appointments were fully integrated, instead of running on parallel tracks, as was previously the case. Bringing the congress and the society under one and the same leadership umbrella is an efficient way to better utilise our resources (human, political and financial). I am convinced that this will improve communication with our members, enhance our international standing and facilitate relationships with other societies and with the industry.

This combined ESR/ECR presidency is certainly a daunting task, and I admit that I am a little bit nervous. On the other hand, I can rely on the work of my predecessors and especially on the creative input and unflagging energy of my friends and colleagues of the Board of Directors, the Executive Council, the statutory committees, subcommittees, working groups, and, last but not least, the experience, professionalism and efficiency of the ESR staff. Our society is healthy, both politically and financially, and we are steering a stable and steady course.

ECRT: One of your tasks is chairing the ECR Programme Planning Committee, which means together with your team you are in charge of the scientific programme of ECR 2017. How is the Programme Planning Committee composed and how often do you meet?

PMP: The ECR Programme Planning Committee (PPC) consists of six persons: the Chairperson of the committee (who will be President at the time of the congress), the Deputy Chairperson (who will be 1st Vice-President), one Ordinary Member (president of the preceding congress), the Executive Director of the ESR, the Chairperson of the Finance and Internal Affairs Committee and the Chairperson of the Education Committee.

It has three large subdivisions: the Postgraduate Educational Programme Subcommittee (chaired by Prof. Hans-Ulrich Kauczor, and containing 12 members), the Scientific Papers Subcommittee (chaired by Prof. Boris Brkljačić, and comprising seven members), and the Section Coordinators (17 members).

INTERVIEW WITH THE ESR PRESIDENT

Our PPC for ECR 2017 is carefully constituted, with bright and talented individuals of different ages and backgrounds, representing many nationalities and specific areas of expertise and knowledge.

Of all my duties as ESR President, chairing the PPC is one of the most pleasant tasks. We first met in an inaugural session, in early December 2015. Further dedicated meetings are organised by working groups, based on the different schedule. Our meetings are true brainstorming sessions, and many innovations and new ideas are formed around the table.

I consider it a privilege and an honour to lead this group, and I often feel like the conductor of a symphonic orchestra, working together with all the musicians towards improving and fine-tuning our great symphony, which will be ECR 2017.

ECRT: What will be some of the scientific highlights of ECR 2017; and what are your own favourites?

PMP: The central theme of ECR 2017 is 'youth', and this focus on the young(er) age group shall be reflected throughout the programme of the entire meeting. The new generation of radiologists demands high-quality education, delivered in an efficient and understandable way ('customer-friendly'). We shall have more and improved interactive sessions, and I want to create a greater role for social media, giving more young people the opportunity to share their knowledge.

What will be the highlights of ECR 2017? It is hard to predict on an individual basis, because the ECR 2017 PPC is committed to bringing something for everyone. The European Excellence in Education (E³) ECR Academies will include sessions on spinal imaging (combined neuroradiological/musculoskeletal approach), abdominal imaging, ultrasound, and, last but not least, Interactive Teaching Sessions. Other E³ highlights include The Beauty of Basic Knowledge, and the European Diploma Prep Sessions.

In addition, as President, I hope that ECR 2017 will also be remembered for the grand opening ceremony, the honorary lectures, the social events, and most of all for the spirit of friendship and conviviality.



ESR President Prof. Paul M. Parizel is chairman of Antwerp University Hospital's department of radiology and full professor of radiology at the University of Antwerp's faculty of medicine.

The essence of the ECR is to provide a platform where high quality scientific and educational content goes hand in hand with professional contacts and networking.

Radiology is currently undergoing a metamorphosis, and a lot of attention has been focused on functional, biological, and genetics-related imaging. However, we should not forget that the mainstay of radiology is still 'anatomical imaging', and that one should learn to walk before one can run. This notwithstanding, we must provide information about cutting edge techniques to our colleagues, and help them to understand that they should not be afraid of innovations, but rather find a way to adopt these techniques to explore new diagnostic pathways and improve existing workflows. Radiology is not only about detecting lesions and offering a differential diagnosis, but also about understanding how the human body works, how lesions arise and behave, and how we can monitor and influence disease processes using radiological techniques and image-guided interventions.

INTERVIEW WITH THE ESR PRESIDENT

ECRT: Which countries will be invited to participate in the ESR meets programme? Do you already know anything about their plans for the sessions?

PMP: The 'ESR meets' sessions aim to provide a special opportunity to the invited country's radiological community to present one main topic, which is of special importance to the respective country and applies also to other attendees, and at the same time to provide a flavour of the invited country through interludes between the lectures. For ECR 2017, we have invited the USA, Peru and Belgium as our esteemed guest countries.

I am very excited about the meeting with the USA. This session is organised in close collaboration with the American College of Radiology (ACR) and the Radiological Society of North America (RSNA). 'ESR meets USA' will focus on clinical decision support strategies, the development of quantitative biomarkers and 'Imaging 3.0/Radiology Cares', which is a joint initiative of the ACR and RSNA.

With 'ESR meets Peru', I am inviting an important South American country, with a long history and a magnificent pre-Columbian civilisation. The session will allow us to become familiar with radiologists in Peru; in addition, our Peruvian colleagues have promised to teach us about the role of x-rays in Peruvian history research.

The session 'ESR meets Belgium' will focus on the important role of radiology in acute conditions, and I am confident that the interludes will offer a typically Belgium flavour of history, humour, food and drink. The development of these sessions is a creative process, and, if you want to be surprised, I warmly recommend that you attend these 'ESR meets' sessions, as they always have some surprises *in petto*.

ECRT: Collaboration with other specialties and partner disciplines is a major aim for the ESR, as reflected in the growing number of joint sessions at recent ECRs. Which collaborations are planned for ECR 2017?

PMP: For ECR 2017 we shall have a joint session with the European Union of Medical Specialists (UEMS). The purpose of this ESR/UEMS joint session is to provide information about topics such as continuing medical education (CME), accreditation and certification.

These are important subjects for young and old, for recently qualified radiologists as well as for established practitioners. Recently, the ESR has established the Accreditation Council in Imaging (ACI), in collaboration with the EACCME/UEMS; this body will be responsible for accrediting radiological events, e-learning and other relevant sources of CME in Europe.

ECRT: The ESR has been drawing an increasing number of younger delegates to its annual meeting; about one quarter of participants at recent ECRs have been students and trainees. How will this be reflected in next year's scientific programme?

PMP: As you correctly observed, the mean age of ECR participants has been decreasing steadily, and this evolution has been going on for more than ten years. Therefore, I have made it a central theme of the congress. ECR 2017 will be dedicated to YOUTH, *die Jugend, la jeunesse, la giovinezza, la juventud, молодежь*. It is my intention to bring this message to young radiologists, throughout Europe and across the world. The scientific programme will reflect this focus on a new generation in radiology: there will be more interactive sessions, a more prominent role for social media, and we will have topics that are of interest to young people, because, after all, they are the future of our profession.

ECRT: For many radiographers throughout Europe, the ECR is the main scientific meeting of the year. What will be the main issues for radiographers at the next ECR?

PMP: Much more than other disciplines and specialties in medicine, radiology is teamwork. The team consists of certified radiologists, residents/registrars in training, radiographers, nurses, physicists, technical support staff, managers, etc. The quality of our performance depends on the strength of the entire team. This is why I am so happy that the ECR collaborates closely with radiographers, and the scientific programme for 2017 will reflect this growing symbiotic relationship. A big challenge here is to make sure that we reach our target audience, because there are huge differences across Europe in the definition of the profession. There are even huge differences in the name that the practitioners of that profession have: radiographers, technologists, radiology technicians, imagers, etc.

INTERVIEW WITH THE ESR PRESIDENT

But we have developed strong and positive collaborations and you will see a bigger input in the scientific programme in ECR 2017, and in coming years.

ECRT: Since 2011, the European Diploma in Radiology (EDiR) examination has been an important constant at the ECR. Would you care to share your personal opinion about the significance of the EDiR? What are its advantages and why should young radiologists take it?

PMP: The European Diploma in Radiology (EDiR) was created to establish a 'standard of radiological knowledge' for the independent practise of general radiology. A few years ago, the ESR defined the 'body of knowledge', as laid out in the ESR European Training Curriculum for Radiology. If we want our specialty to continue to grow and blossom, such an objective test of knowledge is necessary. In this respect, the EDiR represents a significant step towards transnational harmonisation of radiological standards throughout Europe. I would strongly advise radiologists and radiology residents in their fifth year of training, to participate in this examination. Today, and even more so in the future, the EDiR will be an important element for career development and job applications. Moreover, in the context of medical migration, it will be easier for a radiologist who has successfully passed the EDiR, to use this document as proof of training, and thus hopefully facilitate procedures to apply for work in another country. Finally, and this is important, the EDiR does not replace any national board certificate, except in Poland, who have decided to consider the EDiR as equivalent to the Polish Exit Training Examination, and in Turkey where the EDiR is equivalent to the first part of the Turkish Board Examination, but should be seen as an 'added value' with an international dimension. It is a giant step forward in the European integration of our profession, and it serves as a 'quality check'.

ECRT: You have been actively involved in the creation of the poster for ECR 2017, which features a stylised skull covered in flowers. How did you choose this particular subject and what does it convey to you?

PMP: The answer to this question is simple and straightforward: the skull contains the brain, and this symbol reflects my interest in neuroradiology; the colourful flowers are a metaphor for youth, for spring, for a new dawn, and for a new generation in radiology.

With this eye-catching poster, I want to invite our colleagues to join me in exploring the beautiful and fragrant flower gardens of radiology.

Radiology is an adventure, a voyage of discovery. And radiologists are like gardeners, cultivating and creating beautiful flowers, but also pruning the plants when necessary and weeding the flowerbeds. Presented like this, the analogy with diagnostic and interventional radiology should be obvious. And, on a personal note, let me tell you that, ever since I was a child, I have always been interested in graphic design. My grandfather was a very good artist, and he introduced me to techniques such as charcoal and Chinese ink drawing, as well as oil painting. Throughout my life, I have kept this interest, and the creative process of drawing still gives me joy and pleasure.

ECRT: To finish on a personal note, what made you choose radiology over any other medical specialty? And how would you 'sell' radiology to medical students?

PMP: As a medical student, I was interested in many things: anatomy, physiology, neuroscience, computers, and, last but not least, the brain. Neuroradiology and radiology lies at the intersection of all these disciplines. It is the crystallisation of pure medicine, and if we take a look at how radiology has developed in the past decades, it has become a crossroads, a common meeting ground for almost all fields in medicine. 'E pluribus unum' ('Out of many, one') should really be the motto of our profession.

I hope that future generations of medical students and radiology residents will have the same good luck that I had, which is to be mentored by outstanding and inspiring radiologists and neuroradiologists: Prof. Arthur De Schepper at Antwerp University Hospital (he was my mentor in general radiology), Profs. Juan Taveras and Kenneth Davis at Massachusetts General Hospital (they were my mentors in neuroradiology), and Prof. Danielle Balériaux at Hôpital Erasme and Université Libre de Bruxelles (who introduced me to MRI). I admired them and wanted to become like them, and I never regretted my choice.

Interview conducted by Julia Patuzzi

OPENING CEREMONY

Wednesday, March 1
17:45-19:00, Room A

PAUL M. PARIZEL

Antwerp/BE
ESR PRESIDENT

PRESENTATION OF HONORARY MEMBERSHIP

Richard L. Baron; Chicago, IL/US
James A. Brink; Boston, MA/US
Gloria Soto Giordani; Santiago/CL

WILHELM CONRAD RÖNTGEN HONORARY LECTURE

Dissatisfaction, burnout
and inequality: three major
challenges in radiology

Thursday, March 2
12:15-12:45, Room A

MAURICIO CASTILLO

Chapel Hill, NC/US

JOSEF LISSNER HONORARY LECTURE

Friday, March 3
13:00-13:30, Room A

MATHIAS PROKOP

Nijmegen/NL

ARTHUR DE SCHEPPER HONORARY LECTURE

Saturday, March 4
12:15-12:45, Room A

FIONA J. GILBERT

Cambridge/UK

HEADLINE SESSIONS

GUEST LECTURE **BREAKING NEWS FROM LATIN AMERICA**

How to recognise Zika virus infections on imaging studies

Wednesday, March 1
12:15-12:45, Room B

**MARIA DE FÁTIMA
VASCO ARAGÃO**
Recife, PE/BR

TEN YEARS OF ESOR

Friday, March 3
12:15-13:00, Room A

EUROPEAN RADIOLOGY **25TH ANNIVERSARY SESSION**

Friday, March 3
16:00-17:30, Room Z

IMAGE INTERPRETATION QUIZ

There's a patient behind every interesting case

Friday, March 3
14:00-15:30, Room A

Moderator:

J.M. GARCÍA SANTOS
Murcia/ES

JUNIOR IMAGE INTERPRETATION QUIZ

Building our youth for the future

Saturday, March 4
12:55-13:55, Room A

Moderator:

A. SNOECKX
Antwerp/BE



ESR DIGNITARIES

RICHARD L. BARON

Chicago, IL/US

HONORARY MEMBER

JAMES A. BRINK

Boston, MA/US

HONORARY MEMBER

GLORIA SOTO GIORDANI

Santiago/CL

HONORARY MEMBER

JOSÉ IGNACIO BILBAO

Pamplona/ES

GOLD MEDALLIST

GUY FRIJA

Paris/FR

GOLD MEDALLIST

STEPHEN J. GOLDING

Oxford/UK

GOLD MEDALLIST

MAURICIO CASTILLO

Chapel Hill, NC/US

HONORARY LECTURER

FIONA J. GILBERT

Cambridge/UK

HONORARY LECTURER

MATHIAS PROKOP

Nijmegen/NL

HONORARY LECTURER



ESR/EFRS MEETS SESSIONS

Once again, the ESR will welcome a number of guest countries to the ECR as part of the 'ESR meets' programme.

The national radiological societies of Belgium, Peru, and the United States of America (represented by both the ACR and the RSNA), will present their most recent scientific developments in joint sessions with the ESR, and try to strengthen links between professionals from different countries and disciplines. The European Federation of Radiographer Societies (EFRS) will also host its own 'meets' session for radiographers, in conjunction with representatives of the Association des Professionnels en Imagerie Médicale (APIM) and the Vereniging Medisch Beeldvormers (VMBv).

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

ESR/EFRS MEETS SESSIONS

3
March

Friday, March 3, 10:30–12:00, Room B

ESR meets Belgium

EM 1 Emergency radiology

LEVEL II

Presiding: D. Henroteaux; Liège/BE
P.M. Parizel; Antwerp/BE

- » **Introduction**
D. Henroteaux; Liège/BE
- » **Additional value of dual-energy CT in abdominal emergencies**
E. Danse; Brussels/BE
- » **High-end CT imaging in forensic medicine: experience after recent Brussel's terror attacks**
W. Develter; Leuven/BE
- » **Interlude: Imaging Belgian food**
K. Verstraete; Ghent/BE
- » **Imaging genetics and beyond: facial reconstruction and identification**
P. Claes; Leuven/BE
- » **Interlude: The Belgian Museum of Radiology**
R. Van Tiggelen; Brussels/BE
- » **Panel discussion: Acute pathology: emergency radiologists or organ subspecialists?**

3
March

Friday, March 3, 14:00–15:30, Room K

EFRS meets Belgium

(European Federation of Radiographer Societies)

EM 4

Presiding: H.H. Hjemly; Oslo/NO
S. Bogaert; Ghent/BE
A. Tempels; Lodelinsart/BE

Moderators: G. Alleman; Beernem/BE
J.-L. Greffe; Lodelinsart/BE

- » **Introduction**
H.H. Hjemly; Oslo/NO
S. Bogaert; Ghent/BE
A. Tempels; Lodelinsart/BE
- » **A picture of the radiographers' profession and education**
P. Van Laer; Lovendegem/BE
- » **Belgium: the beautiful 'city'**
K. Van Belle; Sint-Andries/BE
- » **Patient safety and quality improvement in Belgian radiology departments**
S. Germonpré; Brussels/BE
- » **Radiation protection in Belgium**
O. Bran; Louette-Saint-Pierre/BE
- » **Panel discussion**

4
March

Saturday, March 4, 10:30–12:00, Room B

ESR meets the United States of America

EM 2 Precision imaging and patient experience

ALL LEVELS

Presiding: J.A. Brink; Boston, MA/US
R.L. Ehman; Rochester, MN/US
P.M. Parizel; Antwerp/BE

- » **Introduction**
P.M. Parizel; Antwerp/BE
J.A. Brink; Boston, MA/US
R.L. Ehman; Rochester, MN/US
- » **Clinical decision support**
K.J. Dreyer; Boston, MA/US
- » **Interlude/Commentary: Future directions in decision support**
ESR/ACR/RSNA Leaders
- » **Quantitative Imaging Biomarkers Alliance**
E.F. Jackson; Madison, WI/US
- » **Interlude/Commentary: Future directions in quantitative imaging**
ESR/ACR/RSNA Leaders
- » **Imaging 3.0/Radiology Cares**
G. McGinty; New York, NY/US
R.L. Ehman; Rochester, MN/US
- » **Interlude/Commentary: Future directions in patient experience**
ESR/ACR/RSNA Leaders

5
March

Sunday, March 5, 10:30–12:00, Room B

ESR meets Peru

EM 3 Peru in the radiological world

LEVEL I

Presiding: J.L. Guerrero Gil; Lima/PE
P.M. Parizel; Antwerp/BE

- » **Introduction: Peruvian radiology: how is it going?**
J.L. Guerrero Gil; Lima/PE
- » **MRI findings in CNS tuberculosis**
R. Marquina Diaz; Lima/PE
- » **Interlude: From Peruvian mummies to bones: use of x-rays in Peruvian archaeology (part 1)**
J.L. Guerrero Gil; Lima/PE
- » **MRI findings in non-tuberculosis infection disease of CNS**
P. Tapia Puente Arnao; Lima/PE
- » **Interlude: From Peruvian mummies to bones: use of x-rays in Peruvian archaeology (part 2)**
J.L. Guerrero Gil; Lima/PE
- » **Non-diagnosed spondyloarthritis in MRI of the spine for lower back pain**
J. Carpio; Lima/PE
- » **Panel discussion: Is MRI the gold standard in CNS infection disease?**



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.

NEW HORIZONS SESSIONS

2
March

Thursday, March 2, 08:30–10:00, Studio 2017

NH 5 Hyperpolarised MRI: imaging tissue metabolism in real time **LEVEL III**

- » **Chairman's introduction**
J.M. Gomori; Jerusalem/IL
- » **Hyperpolarised MRI in oncology**
F.A. Gallagher; Cambridge/UK
- » **Hyperpolarised MRI in cardiology**
A. Comment; Lausanne/CH
- » **Hyperpolarised MRI in respirology**
J. Vogel-Claussen; Hannover/DE
- » **Available and potential hyperpolarised molecular targets**
R. Katz-Brull; Jerusalem/IL
- » **Panel discussion: Is hyperpolarisation worth all the hype?**

3
March

Friday, March 3, 16:00–17:30, Room B

NH 12 The increasing clinical impact of MR/PET **LEVEL III**

- » **Chairman's introduction**
L. Umutlu; Essen/DE
- » **MR/PET in paediatric oncology?**
P.D. Humphries; London/UK
- » **MR/PET in cardiac imaging?**
M. Dewey; Berlin/DE
- » **MR/PET in head and neck imaging?**
M. Becker; Geneva/CH
- » **MR/PET in musculoskeletal imaging?**
G. Andreisek; Münsterlingen/CH
- » **Panel discussion: Are we ready to fully integrate MR/PET into clinical diagnostic work-up?**

4
March

Saturday, March 4, 14:00–15:30, Studio 2017

NH 15 Large cohorts: imaging biobanks **LEVEL II**

- » **Chairmen's introduction**
M.H. Fuchsjäger; Graz/AT
M. Pasterk; Graz/AT
- » **Why biobanks should include imaging data**
R.L. Vanninen; Kuopio/FI
- » **Incidental findings in large cohorts (German national cohort)**
S. Weckbach; Heidelberg/DE
- » **Analysis of big imaging data (UK Biobank)**
A. Jackson; Manchester/UK
- » **Panel discussion: What are the benefits of linking imaging and biobanks?**



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.

STATE OF THE ART SYMPOSIA

2
March

Thursday, March 2, 08:30–10:00, Room C

**SA 5 Lung cancer screening:
past, present, future** **LEVEL III**

- » **Chairman's introduction**
L. Bonomo; Rome/IT
- » **What did we know: NLST and previous trials**
S. Diederich; Düsseldorf/DE
- » **What do we know: latest insights from European trials, modelling studies and current screening programmes**
M. Prokop; Nijmegen/NL
- » **What don't we know: opportunities for future research**
A. Devaraj; London/UK
- » **Panel discussion: How to implement lung cancer screening in Europe**

2
March

Thursday, March 2, 16:00–17:30, Room G

**SA 8 Forensic and post-mortem
imaging** **LEVEL II**

- » **Chairman's introduction**
P.A.M. Hofman; Maastricht/NL
- » **Introduction to post-mortem radiology**
T. Ruder; Zurich/CH
- » **Post-mortem imaging: a pathologist's perspective**
D. Ranson; Melbourne/AU
- » **Paediatric forensic and post-mortem radiology**
R.R. van Rijn; Amsterdam/NL
- » **Post-mortem CT and MRI: imaging techniques**
A. Persson; Linköping/SE
- » **Panel discussion: What should be the focus of future research?**
- » **Chairman's closing remarks**
P.A.M. Hofman; Maastricht/NL

4
March

Saturday, March 4, 16:00–17:30, Room C

**SA 16 Detection and management
of small renal masses** **LEVEL III**

- » **Chairman's introduction**
H.C. Thoeny; Berne/CH
- » **Detection and characterisation of small renal masses**
N. Grenier; Bordeaux/FR
- » **Image-guided minimally invasive treatment**
M. Krokidis; Cambridge/UK
- » **Treatment monitoring with imaging**
G. Cardone; Milan/IT
- » **Panel discussion: What to do with small renal masses?**



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

1 March Wednesday, March 1, 08:30-10:00, Room O

- SF 1 Assessing age, based on bone maturation: scientific and ethical aspects** **LEVEL I**
- » **Chairman's introduction**
K. Rosendahl; Bergen/NO
 - » **Bone age assessment: indications and methods**
F. Dedouit; Lausanne/CH
 - » **Precision and accuracy of an automated radiographic method**
H.H. Thodberg; Holte/DK
 - » **Precision and accuracy of MRI**
S. Diaz; Stockholm/SE
 - » **Ethical and legal aspects of using bone age to determine age**
K. Chaumoitre; Marseille/FR
 - » **Panel discussion: Should bone age be used to estimate chronological age - alone or in combination with additional methods?**

1 March Wednesday, March 1, 16:00-17:30, Room F2

- SF 4a Image-guided interventions in oncology: the pieces of the jigsaw** **LEVEL III**
- » **Chairman's introduction**
J.I. Bilbao; Pamplona/ES
 - » **How molecular imaging and image fusion are shaping oncology**
E. de Kerviler; Paris/FR
 - » **Registries, trials and the evidence base**
P.L. Pereira; Heilbronn/DE
 - » **Clinical practice: why it matters and how to do it**
A. Adam; London/UK
 - » **Quality assurance: an essential development**
L.M. Kenny; Brisbane, QLD/AU
 - » **Panel discussion: What will be the future of image-guided interventions in oncology?**

1 March Wednesday, March 1, 16:00-17:30, Room M 2

- SF 4b The female pelvis** **LEVEL II**
- » **Chairman's introduction**
R.A. Kubik-Huch; Baden/CH
 - » **Acute pelvic pain**
R. Manfredi; Verona/IT
 - » **Chronic pelvic pain**
R. Forstner; Salzburg/AT
 - » **Pain in pregnant women**
M. Weston; Leeds/UK
 - » **Panel discussion: The management of pelvic pain: is imaging always needed?**

2 March Thursday, March 2, 08:30-10:00, Room E2

- SF 5a Stroke, beyond the usual suspects** **LEVEL II**
- » **Chairman's introduction**
O. Jansen; Kiel/DE
 - » **Understanding watershed infarcts**
P. Mordasini; Berne/CH
 - » **Reversible cerebral vasoconstriction syndrome**
J. Linn; Munich/DE
 - » **Thrombosis of cerebral veins and dural sinuses**
V. Costalat; Montpellier/FR
 - » **Panel discussion: Rational imaging in patients with acute stroke symptoms**

2 March Thursday, March 2, 08:30-10:00, Room G

- SF 5b Diffusion-weighted imaging (DWI): from physics to practice** **LEVEL III**
- » **Chairman's introduction**
N. Papanikolaou; Lisbon/PT
 - » **The physics behind the images: diffusion in oncology**
T. Scheenen; Nijmegen/NL
 - » **Diffusion in the brain**
A. Radbruch; Heidelberg/DE
 - » **Whole-body diffusion**
A.R. Padhani; London/UK
 - » **Panel discussion: What's new in diffusion-weighted imaging?**

2 March Thursday, March 2, 16:00-17:30, Room B

- SF 8 The postoperative abdomen: lost in translation?** **LEVEL II**
- » **Chairman's introduction: Presentation of a challenging case**
Y. Menu; Paris/FR
 - » **Inflammatory complications (peritonitis, abscess)**
Z. Tarján; Budapest/HU
 - » **Vascular complications (bleeding, thrombosis, ischemia)**
R. Nolz; Vienna/AT
 - » **Post-operative obstruction**
A. Palkó; Szeged/HU
 - » **Complications of weight-loss surgery**
M. Rengo; Latina/IT
 - » **Panel discussion: Where can we go wrong and how can we avoid it?**

SPECIAL FOCUS SESSIONS

3
March

Friday, March 3, 08:30–10:00, Room F2

SF 9 The revival of lymphangiography **LEVEL III**

- » **Chairman's introduction**
B.A. Radeleff; Heidelberg/DE
- » **"Theranostic" lymphangiography**
E. Santos Martín; New York, NY/US
- » **MR lymphangiography**
L. Arrivé; Paris/FR
- » **Thoracic duct embolisation**
H.H. Schild; Bonn/DE
- » **Panel discussion: Lymphangiography, are you convinced?**

3
March

Friday, March 3, 16:00–17:30, Room N

SF 12a My most scary head and neck mistakes **LEVEL II**

- » **Chairman's introduction: Misses, misinterpretations and mistakes**
A. Borges; Lisbon/PT
- » **What I missed and why**
M.G. Mack; Munich/DE
- » **What I misinterpreted and why**
L. Ginsberg; Houston, TX/US
- » **How to deal with mistakes: the report, the radiologist and the department**
S.J. Golding; Oxford/UK
- » **Panel discussion: Mistakes - can they be avoided and how?**

3
March

Friday, March 3, 16:00–17:30, Room E1

SF 12b Challenges in the diagnosis of acute appendicitis **LEVEL II**

- » **Chairman's introduction**
J. Stoker; Amsterdam/NL
- » **Acute appendicitis during pregnancy: high-end ultrasonography, ultra-low dose CT or unenhanced MRI?**
P.-A. Poletti; Geneva/CH
- » **Imaging algorithms for acute appendicitis in difficult patients (obese, elderly, other)**
J.B.C.M. Puylaert; The Hague/NL
- » **What is the cost-effectiveness of different imaging modalities in acute appendicitis?**
M. Zins; Paris/FR
- » **Evidence-based treatment of acute appendicitis: conservative vs surgical management?**
M.A. Boermeester; Amsterdam/NL
- » **Panel discussion: Optimised imaging algorithms in the diagnosis of acute appendicitis**

3
March

Friday, March 3, 16:00–17:30, Room M 4

SF 12c Gadolinium contrast agents: a Yin and Yang story **LEVEL II**

- » **Chairman's introduction**
B. Hamm; Berlin/DE
- » **Latest preclinical data on gadolinium deposition**
H.A. Rowley; Madison, WI/US
- » **Current clinical situation based on published data**
V. Runge; Berne/CH
- » **What is the position of the regulatory authorities?**
O. Clément; Paris/FR
- » **Panel discussion: After all that, what are you doing?**

4
March

Saturday, March 4, 08:30–10:00, Room C

SF 13a Cases I'll never forget in chest imaging **LEVEL II**

- » **Chairman's introduction**
A.P. Parkar; Bergen/NO
- » **Nodules (0.4-2 cm)**
N.N.
- » **Masses and consolidation (> 2 cm)**
C.P. Heussel; Heidelberg/DE
- » **Ground glass opacity**
M.-P. Revel; Paris/FR
- » **Reticular pattern**
J. Coolen; Leuven/BE
- » **Cystic pattern**
S.R. Desai; London/UK
- » **Airway abnormalities**
E. Castañer; Sabadell/ES
- » **Vascular abnormalities**
M. Das; Maastricht/NL
- » **Pleural disease**
C. Beigelman; Lausanne/CH
- » **Panel discussion: How to avoid common mistakes in the interpretation of chest imaging?**

4
March

Saturday, March 4, 08:30–10:00, Room O

SF 13b Cardiac imaging in prevention and screening: who, when and how? **LEVEL III**

- » **Chairman's introduction**
T. Leiner; Utrecht/NL
- » **Cardiac imaging in athletes: what is normal, what is abnormal?**
B.K. Velthuis; Utrecht/NL
- » **Screening of individuals with cardiac risk factors: what to look for?**
M. Dewey; Berlin/DE
- » **Evidence base and guidelines for screening genetic cardiac diseases**
J. Moon; London/UK
- » **Panel discussion: Who, when and how to screen?**

SPECIAL FOCUS SESSIONS

4
March

Saturday, March 4, 14:00-15:30, Room B

SF 15a My three top tips for abdominal imaging

LEVEL II

- » **Chairman's introduction**
M. Zins; Paris/FR
- » **Postoperative abdomen**
D.J.M. Tolan; Leeds/UK
- » **Appendicitis**
J.B.C.M. Puylaert; The Hague/NL
- » **Bile duct stones**
J.A. Guthrie; Leeds/UK
- » **Dilated pancreatic duct**
R. Manfredi; Verona/IT
- » **Liver biopsy**
V. Vilgrain; Clichy/FR
- » **Bowel ischemia**
A. Filippone; Chieti/IT
- » **Colon polyp**
F. Iafrate; Rome/IT
- » **Acute pancreatitis**
W. Schima; Vienna/AT
- » **Crohn's disease**
J. Rimola; Barcelona/ES
- » **Liver metastases follow-up**
Y. Menu; Paris/FR

4
March

Saturday, March 4, 14:00-15:30, Room E1

SF 15b Breast cancer screening with tomosynthesis: the time is now

LEVEL II

- » **Chairman's introduction**
P. Skaane; Oslo/NO
- » **Screening with digital breast tomosynthesis in the USA: performance indicators and breast density**
E.A. Morris; New York, NY/US
- » **Screening with digital breast tomosynthesis in Europe: tumour characteristics and potential harms including overdiagnosis**
F.J. Gilbert; Cambridge/UK
- » **Which challenges should we consider prior to tomosynthesis screening implementation?**
G. Gennaro; Padua/IT
- » **Panel discussion: Is tomosynthesis ready for replacing 2D mammography in organised breast cancer screening?**

4
March

Saturday, March 4, 16:00-17:30, Studio 2017

SF 16a The male pelvis

LEVEL III

- » **Chairman's introduction**
J.J. Fütterer; Nijmegen/NL
- » **Update on prostate MR**
O. Rouvière; Lyon/FR
- » **Template biopsy vs TRUS/MR-fusion guided biopsy**
T. Fischer; Berlin/DE
- » **Imaging after focal prostate therapy**
C. Allen; London/UK
- » **Biopsy strategy**
A. Briganti; Milan/IT
- » **Panel discussion: Is there a role for MR imaging to steer the biopsy?**

4
March

Saturday, March 4, 16:00-17:30, Room E2

SF 16b Black and white spots in the brain

LEVEL II

- » **Chairman's introduction**
H.R. Jäger; London/UK
- » **White spots in the brain on T2 and FLAIR: what are they?**
A. Rovira-Cañellas; Barcelona/ES
- » **Black spots in the brain on SWI: differential diagnosis**
M. Vernooij; Rotterdam/NL
- » **Advanced MR imaging and quantification techniques: do they help?**
S. Haller; Geneva/CH
- » **Panel discussion: How to image, quantify and report black and white spots in the brain?**

5
March

Sunday, March 5, 08:30-10:00, Room O

SF 17a Paediatric parenchymal lung disease: what imaging technique to choose?

LEVEL II

- » **Chairman's introduction**
H. Ducou le Pointe; Paris/FR
- » **Chest x-ray**
P. Tomà; Rome/IT
- » **US**
S.P. Deftereos; Alexandroupolis/GR
- » **CT**
P. Ciet; Rotterdam/NL
- » **MRI**
M.O. Wielpütz; Heidelberg/DE
- » **Panel discussion: What imaging modality to choose and when?**

SPECIAL FOCUS SESSIONS

5
March

Sunday, March 5, 08:30–10:00, Room F1

SF 17b Errors in emergency radiology **LEVEL I**

- » **Chairman's introduction: Why do radiological errors occur?**
A. Brady; Cork/IE
- » **Imaging in multiple trauma**
U. Linsenmaier; Munich/DE
- » **Non-traumatic abdominal emergencies**
A. Pinto; Naples/IT
- » **How not to fail in emergency radiology**
P. McCoubrie; Bristol/UK
- » **Panel discussion: Errors in radiology, inevitable or preventable?**

5
March

Sunday, March 5, 08:30–10:00, Room K

SF 17c How do radiographers enhance paediatric imaging?



- » **Chairmen's introduction: The role of the radiographer when imaging a paediatric patient**
L.J.O.C. Lança; Lisbon/PT
E. Sorantin; Graz/AT
- » **Informed consent: is this possible in paediatric imaging?**
J. Portelli; Msida/MT
- » **Dose reduction in paediatric imaging**
G. Paulo; Coimbra/PT
- » **Personality traits: a way of maximising cooperation during paediatric imaging**
S.J. MacKay; Liverpool/UK
- » **Panel discussion: Challenges and opportunities when imaging paediatric patients**

This session is part of the EuroSafe Imaging campaign.



INTERNATIONAL DAY OF RADIOLOGY

NOVEMBER 8, 2016



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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.

PROFESSIONAL CHALLENGES SESSIONS

1
March

Wednesday, March 1, 08:30–10:00, Room E1

PC 1 Will emerging technology replace the radiologist? LEVEL II

- » **Chairman's introduction**
L. Donoso; Barcelona/ES
- » **Computer-aided and computer-determined diagnosis**
K.J. Dreyer; Boston, MA/US
- » **Liquid biopsy: a new kid on the block**
M. Ignatiadis; Brussels/BE
- » **Novelties in molecular imaging**
K. Riklund; Umeå/SE
- » **Deep learning and biomarkers: the engineer's view**
A. Alberich-Bayarri; Valencia/ES
- » **Panel discussion: Should we start to worry?**

1
March

Wednesday, March 1, 14:00–15:30, Room M 1

PC 3 Excellence and innovation in undergraduate teaching of radiology LEVEL II

- » **Chairman's introduction: Innovative approaches to undergraduate teaching, impact on student learning**
V. Válek; Brno/CZ
- » **How to keep students engaged**
C. Nyhsen; Sunderland/UK
- » **Excellence in undergraduate teaching**
B. Ertl-Wagner; Munich/DE
- » **Teaching with technology: a challenging experience**
P. Pokieser; Vienna/AT
- » **Evidence-based radiology for diagnostic imaging: do we need to teach the undergraduates?**
R. Iezzi; Rome/IT
- » **Panel discussion: How do new approaches contribute to excellence in undergraduate teaching?**

1
March

Wednesday, March 1, 16:00–17:30, Room G

PC 4 Design and implementation of structured reporting LEVEL I

- » **Chairman's introduction**
W.H. Sommer; Munich/DE
- » **Beyond templates: modular multilingual structured reporting**
M. Fatehi; Tehran/IR
- » **Introducing quality management for radiology reports**
C. Wald; Boston, MA/US
- » **Structured reporting: two decades of surveys and subcommittees, but what do we wish to achieve?**
J.M.L. Bosmans; Ghent/BE
- » **Panel discussion: Structured reporting in 10 years: large-scale or fairy-tale?**

2
March

Thursday, March 2, 16:00–17:30, Room O

PC 8 How to make best use of cardiac imaging in a radiology department LEVEL III

- » **Chairman's introduction**
G.I. Kirova-Nedialkova; Sofia/BG
- » **Starting a cardiac imaging programme**
G.A. Krombach; Giessen/DE
- » **Cost-effectiveness of cardiac imaging**
M.G.M. Hunink; Rotterdam/NL
- » **Training cardiac imaging in the radiology department**
F. Pugliese; London/UK
- » **Panel discussion: Are we ready to integrate cardiac imaging in routine radiology workload?**

3
March

Friday, March 3, 08:30–10:00, Studio 2017

PC 9 Implementing and evaluating clinical decision support (CDS) for imaging referral guidelines LEVEL II

- » **Chairman's introduction**
L. Oleaga Zufiria; Barcelona/ES
- » **The role of basic and advanced CDS in value-centred radiology**
H.-U. Kauczor; Heidelberg/DE
- » **Evaluating CDS implementation and measuring outcomes**
M.G.M. Hunink; Rotterdam/NL
- » **Using CDS: referring physicians' perspective: GPs**
J.F.M. Metsemakers; Maastricht/NL
- » **CDS implementation in the classroom: ESR eGuide**
L. Donoso; Barcelona/ES
- » **Panel discussion: Introducing CDS for medical imaging referrals: what to do and how to measure**

4
March

Saturday, March 4, 08:30–10:00, Room K

PC 13 Radiography and radiology: more than the sum of their parts

- » **Chairmen's introduction: Working together**
P. Bezzina; Msida/MT
P.C. Maly Sundgren; Lund/SE
- » **Opportunities and challenges facing radiography and radiology**
G. Paulo; Coimbra/PT
- » **Patient safety culture: a combined responsibility**
S.J. Foley; Dublin/IE
- » **Skills and competences in care and compassion**
A. England; Salford/UK
- » **Panel discussion: A winning team: radiographers and radiologists?**

PROFESSIONAL CHALLENGES SESSIONS

4
March

Saturday, March 4, 14:00–15:30, Room E2

**PC 15a Radiology at the core
of interdisciplinary
communication**

LEVEL II

- » **Chairman's introduction**
E.J. Adam; London/UK
- » **Sharing information within the hospital**
D. Regge; Turin/IT
- » **Sharing information beyond the hospital**
W.R. Jaschke; Innsbruck/AT
- » **Sharing information with the patient**
E. Briers; Hasselt/BE
- » **Panel discussion: Conveying information clearly.
Do we still need to 'speak' to each other?**

4
March

Saturday, March 4, 14:00–15:30, Room K

**PC 15b A team approach towards ensuring
patient safety and care**

- » **Chairmen's introduction: A team approach - why is
this necessary?**
J. McNulty; Dublin/IE
T. Owman; Lund/SE
- » **A team-based approach to delivering safe practice**
J. Damilakis; Iraklion/GR
- » **The radiographer and radiologist: joint responsibility
for reporting**
S. Rowe; London/UK
- » **A team approach in interventional procedures**
C. McLaren; London/UK
- » **Panel discussion: Can a team-based approach ensure
patient safety?**

4
March

Saturday, March 4, 16:00–17:30, Room D

**PC 16 Ensuring the future role
of radiologists**

LEVEL II

- » **Chairman's introduction**
J. Van Goethem; Antwerp/BE
- » **SWOT analysis of the radiologic profession**
J.-Y. Meuwly; Lausanne/CH
- » **Turf battles: how to respond to the challenges**
C. Loewe; Vienna/AT
- » **Always on the forefront: ensuring the future of
radiology**
G.P. Krestin; Rotterdam/NL
- » **Panel discussion: The real challenge for radiologists
is "how to change ourselves"**



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MULTIDISCIPLINARY SESSIONS

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

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

MULTIDISCIPLINARY SESSIONS

1 March Wednesday, March 1, 16:00-17:30, Room E2

MS 4 Neuroimaging and mental health disorders

- » **Chairman's introduction**
T.A. Yousry; London/UK
- » **Unpicking obsessive compulsive disorder (OCD) networks with neuroimaging**
E. Joyce; London/UK
- » **Bridging movement and mind: neuroimaging in Tourette-Syndrome**
T. Foltynie; London/UK
- » **Precision neurosurgical targeting in Tourette's and obsessive compulsive disorder (OCD): critical role of neuroimaging**
L. Zrinzo; London/UK
- » **Multidisciplinary case presentation and discussion**

3 March Friday, March 3, 08:30-10:00, Room D

MS 9 Primary bone tumours **LEVEL II**

- » **Chairman's introduction**
A.M. Davies; Birmingham/UK
- » **Fundamental imaging**
S.L.J. James; Birmingham/UK
- » **Why I need the radiologist: the pathologist's perspective**
L.-G. Kindblom; Gothenburg/SE
- » **The surgeon's perspective**
L. Jeys; Birmingham/UK
- » **Multidisciplinary case presentation and discussion**

3 March Friday, March 3, 16:00-17:30, Room G

MS 12 Transcatheter aortic valve implantation (TAVI) **LEVEL III**

- » **Chairman's introduction: A brief history of TAVI**
A. Cribier; Rouen/FR
- » **The TAVI procedure**
H. Eltchaninoff; Rouen/FR
- » **The cardiac surgeon's perspective**
P.-Y. Litzler; Rouen/FR
- » **Preinterventional assessment by CT**
J.-N. Dacher; Rouen/FR
- » **Why use dual energy CT in TAVI patients?**
B. Dubourg; Rouen/FR
- » **Common and uncommon complications seen by CT**
J. Caudron; Rouen/FR
- » **Multidisciplinary case presentation and discussion**

4 March Saturday, March 4, 16:00-17:30, Room E1

MS 16 Virtual autopsy imaging in children: the role of pathologist vs radiologist, one big happy family? **LEVEL II**

- » **Chairman's introduction**
C. Owens; London/UK
- » **Minimally invasive autopsy: setting the scene - why, how and by whom?**
N.J. Sebire; London/UK
- » **State-of-the-art post mortem imaging: the way it works and how we do it**
O.J. Arthurs; London/UK
- » **Latest advances: the new kid on the block micro CT - when and how?**
J.C. Hutchinson; London/UK
- » **Multidisciplinary case presentation and discussion**

EUROPEAN EXCELLENCE IN EDUCATION (E³)

The E³ programme emphasises the importance of lifelong learning.

It covers the entire range of educational issues, from undergraduate medical education to subspecialised continuing professional development.

For the third time at ECR 2017, the E³ programme is structured according to the different levels defined by the European Training Curriculum for Radiology.

The E³ programme consists of the following five branches, which reflect the different levels of education in radiology, as well as the different stages of an individual's professional career:

Rising Stars Programme

European Diploma Prep Sessions

The Beauty of Basic Knowledge

ECR Academies

ECR Master Classes

The European Society of Radiology offers you
the chance to attend its annual meeting for free ...

1,000
PEOPLE

ABSTRACTS

ROOMS

Apply for the ESR's **Invest in the Youth programme**
and you could experience Europe's biggest medical imaging meeting **free of charge**.

The ESR will fund **1,000 places** at ECR 2017, once again giving young radiologists, physicists
and radiographers from all over the world the chance to participate in the meeting.

**Successful applicants for the Invest in the Youth programme will be offered free
registration for ECR 2017 and free hotel accommodation.**

Application is possible from July 4 to October 15, 2016

ESR
EUROPEAN SOCIETY
OF RADIOLOGY

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E³ RISING STARS PROGRAMME

The Rising Stars Programme is designed especially for residents, students, radiographers and trainee radiographers.

It consists of Basic Sessions, Student Sessions, Joint Sessions with ESOR (European School of Radiology), Case-Based Diagnosis Training sessions, EFRS Radiographers' Basic Session and the Radiology Trainees Forum Programme including the RTF Highlighted Lectures and the RTF Quiz.

E³ – RISING STARS PROGRAMME

BASIC SESSIONS

Special sessions suitable for residents, students,
radiographers and radiographers-in-training

1 March Wednesday, March 1, 08:30-10:00, Room F1

Basic Session 1 Neuroradiology

LEVEL I

Moderator: E.T. Tali; Ankara/TR

- » **White matter disorders**
A. Rovira-Cañellas; Barcelona/ES
- » **Brain tumours**
J. Walecki; Warsaw/PL
- » **Stroke**
E.T. Tali; Ankara/TR

1 March Wednesday, March 1, 10:30-12:00, Room F1

Basic Session 2 Lungs

LEVEL I

Moderator: T. Franquet; Barcelona/ES

- » **Congenital anomalies**
J. Ley-Zaporozhan; Munich/DE
- » **Inflammatory diseases**
T. Franquet; Barcelona/ES
- » **Tumours**
I. Hartmann; Rotterdam/NL

1 March Wednesday, March 1, 14:00-15:30, Room F1

Basic Session 3 Gastrointestinal diseases

LEVEL I

Moderator: N. Papanikolaou; Lisbon/PT

- » **Oesophagus**
F.-T. Fork; Malmö/SE
- » **Stomach**
M. Laniado; Dresden/DE
- » **Small bowel**
N. Papanikolaou; Lisbon/PT
- » **Colon**
R.G.H. Beets-Tan; Amsterdam/NL

1 March Wednesday, March 1, 16:00-17:30, Room F1

Basic Session 4 Gynaecology and obstetrics

LEVEL I

Moderator: M. Bekiesinska-Figatowska; Warsaw/PL

- » **Benign gynaecological pathologies**
R.N. Lucas; Lisbon/PT
- » **Gynaecological malignancies**
A.G. Rockall; London/UK
- » **Foetal imaging**
M. Bekiesinska-Figatowska; Warsaw/PL

2 March Thursday, March 2, 08:30-10:00, Room F1

Basic Session 5 Head and Neck

LEVEL I

Moderator: S.S. Özbek; Izmir/TR

- » **Sinuses**
R. Maroldi; Brescia/IT
- » **Thyroid and parathyroid**
A. Levai; Budapest/HU
- » **Salivary glands**
S.J. Golding; Oxford/UK
- » **Lymph nodes**
S.S. Özbek; Izmir/TR

2 March Thursday, March 2, 10:30-12:00, Room F1

Basic Session 6 Oncologic therapies

LEVEL I

Moderator: O. Akhan; Ankara/TR

- » **Kidney**
O. Akhan; Ankara/TR
- » **Lungs**
M. Bezzi; Rome/IT
- » **Bones**
T. Lehnert; Frankfurt a. Main/DE
- » **Liver**
J.I. Bilbao; Pamplona/ES

E³ – RISING STARS PROGRAMME

JOINT SESSIONS OF THE ESR AND ESOR

(European School of Radiology)

STUDENT SESSIONS

Students will present their work

2
March **Thursday, March 2, 16:00-17:30, Room F1**

Joint Session of the ESR and ESOR 1
Radiologic anatomy: abdomen

LEVEL I

Moderator: S. Gourtsoyianni; London/UK

- » **Liver**
G. Brancatelli; Palermo/IT
- » **Biliary tree**
O. Benjaminov; Petach Tikva/IL
- » **Pancreas**
M. Dioguardi Burgio; Clichy/FR

3
March **Friday, March 3, 08:30-10:00, Room F1**

Joint Session of the ESR and ESOR 2
Radiologic anatomy: lower extremities

LEVEL I

Moderator: U. Aydingoz; Ankara/TR

- » **Hip**
A.H. Karantanas; Iraklion/GR
- » **Knee**
M. Klontzas; London/UK
- » **Ankle**
M. Maas; Amsterdam/NL

3
March **Friday, March 3, 16:00-17:30, Room F1**

Joint Session of the ESR and ESOR 3
Radiologic anatomy: neuro

LEVEL I

Moderator: M.A. Lucic; Sremska Kamenica/RS

- » **Cortical anatomy and primary functional areas**
T.A. Yousry; London/UK
- » **Vascular distribution territories: arterial and venous**
A. Dörfler; Erlangen/DE
- » **The basal ganglia of the brain revisited**
N.N.

2
March **Thursday, March 2, 14:00-15:30, Room X**

Student Session 1

LEVEL I

3
March **Friday, March 3, 10:30-12:00, Room X**

Student Session 2

LEVEL I

4
March **Saturday, March 4, 08:30-10:00, Room X**

Student Session 3

LEVEL I

4
March **Saturday, March 4, 14:00-15:30, Room X**

Student Session 4

LEVEL I

5
March **Sunday, March 5, 08:30-10:00, Room X**

Final Student Session 5

LEVEL I

E³ – RISING STARS PROGRAMME

EFRS RADIOGRAPHERS' BASIC SESSION

(European Federation of Radiographer Societies)

4
March **Saturday, March 4, 08:30-10:00, Room L8**

The professional roles of the radiographer

- » **Introduction**
H.H. Hjemly; Oslo/NO
D. Katsifarakis; Athens/GR
- » **Becoming a clinical radiographer: role, role development and specialisation**
N.H. Woznitza; London/UK
- » **Becoming a clinical manager**
E. Kelly; Galway/IE
- » **Becoming an academic and/or researcher**
S.J. MacKay; Liverpool/UK
- » **Working in industry**
J. Tijhaar; Zoetermeer/NL
- » **Discussion, questions and conclusion**

RADIOLOGY TRAINEES FORUM PROGRAMME

2
March **Thursday, March 2, 12:30-13:30, Room B**

RTF Quiz

Moderators: J. Cáceres; Barcelona/ES
J. Vilar; Valencia/ES

4
March **Saturday, March 4, 10:30-12:00, Room O**

TF **Highlighted Lectures** **LEVEL II**

- Moderators:** A. Svare; Riga/LV
L. Andrade; Coimbra/PT
- » **Ovarian cancer staging: where and what to look for?**
M.M. Otero-García; Santiago de Compostela/ES
 - » **Update in breast ultrasound**
B. Brkljačić; Zagreb/HR
 - » **Multiparametric MRI evaluation in brain tumours**
A. Santa; Sibiu/RO

CASE-BASED DIAGNOSIS TRAINING

Special programme for residents and general radiologists

5
March **Sunday, March 5, 13:00-14:00, Room E1**

CBDT I **Case-Based Diagnosis Training - Part I**

LEVEL I

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

- » **Liver**
L. Martí-Bonmatí; Valencia/ES
- » **Neuro**
D. Prayer; Vienna/AT
- » **Maxillofacial**
S. Robinson; Vienna/AT
- » **Musculoskeletal**
F. Kainberger; Vienna/AT
- » **Genitourinary**
M. Toepker; Vienna/AT

5
March **Sunday, March 5, 14:00-14:30, Room E1**

Case-Based Diagnosis Training

LEVEL I

- » **Interlude:**
Musculoskeletal manifestations of systemic disease
K. Bohndorf; Vienna/AT

5
March **Sunday, March 5, 14:30-15:30, Room E1**

CBDT II **Case-Based Diagnosis Training - Part II**

LEVEL I

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
- » **Breast**
M.H. Fuchsjäger; Graz/AT



E³ EUROPEAN DIPLOMA PREP SESSIONS

The European Diploma Prep Sessions aim to prepare prospective candidates for the European Diploma in Radiology (EDiR).

They are also suitable for residents who want an overview of the various topics relevant to imaging and for those preparing for their national board examinations.

The content of the programme reflects Level I and Level II European Training Curriculum (ETC) learning objectives across a two-year cycle. The sessions are held in close cooperation with the European Board of Radiology (EBR).

Each of the six sessions is led by three lecturers and moderated by one chairman.

E³ – EUROPEAN DIPLOMA PREP SESSIONS4
March

Saturday, March 4, 08:30-10:00, Room F1

E³ 1323 Chest

LEVEL I+II

» Chairman's introduction

J. Vilar; Valencia/ES

A. Fundamentals of chest imaging

D. Tack; Baudour/BE

B. Inflammation and tumours of the lung

H. Prosch; Vienna/AT

C. Mediastinum, pleura and chest wall

N. Howarth; Chêne-Bougeries/CH

4
March

Saturday, March 4, 10:30-12:00, Room F1

E³ 1423 Gastrointestinal and abdominal

LEVEL I+II

» Chairman's introduction

C. Stoupis; Männedorf/CH

A. Hepatobiliary system

Y. Menu; Paris/FR

B. Pancreas and spleen

W. Schima; Vienna/AT

C. Imaging of the gastrointestinal tract

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

4
March

Saturday, March 4, 14:00-15:30, Room F1

E³ 1523 Musculoskeletal

LEVEL I+II

» Chairman's introduction

F.M.H.M. Vanhoenacker; Antwerp/BE

A. Traumatic disorders of the musculoskeletal system

M. Maas; Amsterdam/NL

B. Bone tumours

S.L.J. James; Birmingham/UK

C. Degenerative and inflammatory disorders of the musculoskeletal system

N.N.

4
March

Saturday, March 4, 16:00-17:30, Room F1

E³ 1623 Breast

LEVEL I+II

» Chairman's introduction

F. Pediconi; Rome/IT

A. Fundamentals of mammography

S. Barter; Cambridge/UK

B. Breast cancer diagnosis and interventions

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

C. Advanced imaging of the female breast

R.M. Mann; Nijmegen/NL

5
March

Sunday, March 5, 10:30-12:00, Room F1

E³ 1823 Principles of imaging and radiation protection

LEVEL I+II

» Chairman's introduction

P. Vock; Spiegel/CH

A. Principles of computed tomography

W.A. Kalender; Erlangen/DE

B. Principles of magnetic resonance imaging

T. Metens; Brussels/BE

C. Radiation protection

M. Mahesh; Baltimore, MD/US

5
March

Sunday, March 5, 14:00-15:30, Room F1

E³ 1923 Neuro

LEVEL I+II

» Chairman's introduction

C. Manelfe; Toulouse/FR

A. Congenital and white matter disorders of the brain

A. Rossi; Genoa/IT

B. Neurovascular disorders and trauma of the brain

M. Forsting; Essen/DE

C. Tumours of the brain and spine

M.M. Thurnher; Vienna/AT



E³ THE BEAUTY OF BASIC KNOWLEDGE

The Beauty of Basic Knowledge programmes focus on knowledge essential to the daily practice of radiology. The format of these sessions reflects the tradition of conventional teaching sessions, in which experienced teachers share their insights into a topic of particular relevance with a group of attendees.

A Beauty of Basic Knowledge session either consists of 45-minute lectures held by one or two speakers (plus 10-15 minutes of discussion per lecture), or two 25-minute lectures and a general discussion. The teaching format is usually case-based, and features some interaction with the attendees.

The content of the sessions is mostly tied to the Level I European Training Curriculum (ETC) learning objectives. The Beauty of Basic Knowledge sessions are suited to residents and board-certified radiologists who want to refresh their knowledge of basic topics in imaging and image-guided therapy.

E³ – THE BEAUTY OF BASIC KNOWLEDGEA SURVIVAL GUIDE
TO MUSCULOSKELETAL IMAGING

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

1
March **Wednesday, March 1, 12:30–13:30, Room D****E³ 24A Degenerative disorders** **LEVEL I**

A. Cotten; Lille/FR

2
March **Thursday, March 2, 12:30–13:30, Room D****E³ 24B Infective/inflammatory disorders** **LEVEL I**

F.M.H.M. Vanhoenacker; Antwerp/BE

3
March **Friday, March 3, 12:30–13:30, Room D****E³ 24C Bone tumours** **LEVEL I**

K. Wörtler; Munich/DE

4
March **Saturday, March 4, 12:30–13:30, Room D****E³ 24D Acute trauma: patterns in the peripheral skeleton** **LEVEL I**

J. Teh; Oxford/UK

5
March **Sunday, March 5, 12:30–13:30, Room D****E³ 24E Chronic trauma: spectrum of bone response** **LEVEL I**

A.H. Karantanas; Iraklion/GR

CHEST IMAGING

Moderator: N. Howarth; Chêne-Bougeries/CH

1
March **Wednesday, March 1, 12:30–13:30, Room C****E³ 25A Useful signs in chest radiology** **LEVEL I****A. Lung parenchyma**

G.R. Ferretti; Grenoble/FR

B. Mediastinum and chest wall

N. Howarth; Chêne-Bougeries/CH

2
March **Thursday, March 2, 12:30–13:30, Room C****E³ 25B How to avoid misdiagnosis on the chest x-ray** **LEVEL I****A. Neoplastic lesions**

J. Vlahos; London/UK

B. Non-neoplastic lesions

A.R. Larici; Rome/IT

3
March **Friday, March 3, 12:30–13:30, Room C****E³ 25C Reporting interstitial lung disease made easy** **LEVEL I****A. Five golden rules**

S.R. Desai; London/UK

B. What to say when the diagnosis is not obvious

N. Sverzellati; Parma/IT

4
March **Saturday, March 4, 12:30–13:30, Room C****E³ 25D The most important measurements you need to know in chest radiology** **LEVEL I****A. Heart and great vessels: how, why, when?**

G. Fassa-Ashrafpoor; Chêne-Bougeries/CH

B. Lung nodules: is volume better than size?

M. Prokop; Nijmegen/NL

5
March **Sunday, March 5, 12:30–13:30, Room C****E³ 25E Still tricky after all these years** **LEVEL I****A. The hila**

B. Ghaye; Brussels/BE

B. The mediastinum

M. Occhipinti; Rome/IT



E³ ECR ACADEMIES

The ECR Academies consist of a series of four to six sessions relevant to a particular area of radiology. This may be a classic organ-based field or a technically oriented area of another field related to radiology, such as management. Each ECR Academy spans several days, in which the different facets of the area in question are covered by experts in the field. An ECR Academy is a coherent course in which the different sessions complement one another in order to reflect the entirety of the field.

The ECR Academies are particularly suited to general radiologists or radiologists with a subspecialisation.

E³ – ECR ACADEMIES

TIPS AND TRICKS IN LIVER, BILE DUCTS AND PANCREAS IMAGING

1 March **Wednesday, March 1, 08:30-10:00, Room M 4**

E³ 118 **Liver, bile ducts and pancreas: improving your technique with advanced tools** **LEVEL II**

- » **Chairman's introduction**
Y. Menu; Paris/FR
- A. Liver specific contrast: how, why, when?**
E. Neri; Pisa/IT
- B. Diffusion-weighted imaging (DWI): how, why, when?**
D.-M. Koh; Sutton/UK
- C. Advances in hybrid imaging: new tracers and MR/PET**
E.J. Rummeny; Munich/DE

1 March **Wednesday, March 1, 10:30-12:00, Room M 4**

E³ 218 **Benign liver tumours: daily questions** **LEVEL II**

- » **Chairman's introduction**
S.M. Ertürk; Istanbul/TR
- A. Cystic lesions: always biliary cysts?**
O. Benjaminov; Petach Tikva/IL
- B. Solid benign lesions: how to solve the conundrum?**
F. Caseiro-Alves; Coimbra/PT
- C. From images to strategy: tough cases of benign liver tumours**
M. Nadrljanski; Belgrade/RS

1 March **Wednesday, March 1, 14:00-15:30, Room M 4**

E³ 318 **Chronic liver disease: guidelines for the radiologist** **LEVEL II**

- » **Chairman's introduction**
B.J. Op de Beeck; Antwerp/BE
- A. Measuring fat and iron with MRI: how accurate?**
M.M. França; Porto/PT
- B. Can we reliably identify/quantify liver fibrosis and cirrhosis**
V. Vilgrain; Clichy/FR
C. The small liver nodule and chronic liver disease
G. Brancatelli; Palermo/IT

1 March **Wednesday, March 1, 16:00-17:30, Room M 4**

E³ 418 **Bile ducts imaging: not so simple** **LEVEL II**

- » **Chairman's introduction**
S.A. Jackson; Plymouth/UK
- A. Cholangiocarcinoma**
S.Y. Kim; Seoul/KR
- B. Chronic cholangitis**
M. Ronot; Clichy/FR
- C. Tough clinical cases**
E.M. Merkle; Basle/CH

2 March **Thursday, March 2, 08:30-10:00, Room M 4**

E³ 518 **New challenges of pancreatitis** **LEVEL II**

- » **Chairman's introduction**
M.A. Bali; Sutton/UK
- A. Understanding the Atlanta 2012 classification of acute pancreatitis**
W. Schima; Vienna/AT
- B. Autoimmune pancreatitis and its relatives**
G. Morana; Treviso/IT
- C. Tough clinical cases of cystic pancreatic lesions**
M. Karcaaltincaba; Ankara/TR

2 March **Thursday, March 2, 10:30-12:00, Room M 4**

E³ 618 **Pancreatic tumours** **LEVEL II**

- » **Chairman's introduction**
J. Votrubová; Prague/CZ
- A. Staging adenocarcinoma**
N. Kartalis; Stockholm/SE
- B. Neuroendocrine tumours**
R. Manfredi; Verona/IT
- C. Tough clinical cases**
T.C. Lauenstein; Essen/DE

 = Interactive session with electronic voting/self assessment

SPINAL IMAGING

MULTIPARAMETRIC
ULTRASOUND – MPUS2
MarchThursday, March 2, 14:00-15:30, Room M 4 **E³ 719 Spine: osseous lesions** **LEVEL II**» **Chairman's introduction**

F.M.H.M. Vanhoenacker; Antwerp/BE

A. Primary bone tumours

J.L. Bloem; Leiden/NL

B. Early diagnosis of spondyloarthropathies

J.A. Narváez; Barcelona/ES

C. Diffuse bone marrow disorders: myeloma and metastases

A. Baur-Melnyk; Munich/DE

2
MarchThursday, March 2, 16:00-17:30, Room M 4 **E³ 819 Spinal trauma** **LEVEL II****Chairman's introduction**

L. Manfrè; Catania/IT

A. Looking for fractures

E.J. Ulbrich; Zurich/CH

B. Looking for spinal cord and soft tissue injuries

F. Bonneville; Toulouse/FR

C. Looking for spinal injuries in children

P.C. Maly Sundgren; Lund/SE

3
MarchFriday, March 3, 08:30-10:00, Room M 4 **E³ 919 Degenerative cervical spine** **LEVEL II**» **Chairman's introduction**

V.N. Cassar-Pullicino; Oswestry/UK

A. Normal aging process

C.W.A. Pfirrmann; Zurich/CH

B. MR findings: what's relevant?

M.-A. Weber; Heidelberg/DE

C. Spinal stenosis: what is it?

M. Muto; Naples/IT

3
MarchFriday, March 3, 10:30-12:00, Room M 4 **E³ 1019 Spinal cord abnormalities** **LEVEL II**» **Chairman's introduction**

S. Gaudino; Rome/IT

A. MR imaging of the spinal cord: how to do it?

J. Van Goethem; Antwerp/BE

B. Differentiating intradural mass lesions

G. Lycklama à Nijeholt; The Hague/NL

C. Pattern recognition of non-tumoural spinal cord lesions

M.M. Thurnher; Vienna/AT

 = Interactive session with electronic voting/self assessment4
MarchSaturday, March 4, 08:30-10:00, Room M 4 **E³ 1320 Multiparametric US in paediatric radiology** **LEVEL II**» **Chairman's introduction**

K. Rosendahl; Bergen/NO

A. Contrast-enhanced US (CEUS) in paediatric trauma

M. Riccabona; Graz/AT

B. CEUS in paediatrics: liver, kidney and beyond

M. Claudon; Vandoeuvre-les-Nancy/FR

C. Multiparametric US of the paediatric chest: more than effusion

P. Tomà; Rome/IT

4
MarchSaturday, March 4, 10:30-12:00, Room M 4 **E³ 1420 Multiparametric US of small parts** **LEVEL II**» **Chairman's introduction**

N.N.

A. Thyroid

S.S. Özbek; Izmir/TR

B. Lymph nodes

P.-Y. Marcy; Ollioules/FR

C. Scrotum

M. Bertolotto; Trieste/IT

4
MarchSaturday, March 4, 14:00-15:30, Room M 4 **E³ 1520 Vascular multiparametric US** **LEVEL II**» **Chairman's introduction**

P.S. Sidhu; London/UK

A. Abdominal vascular emergencies: ruptures and occlusions

D.A. Clevert; Munich/DE

B. Upper and lower extremity arterial emergencies

B. Brkljačić; Zagreb/HR

C. Deep venous thrombosis and chronic venous insufficiency of the lower extremity

G. O'Sullivan; Galway/IE

4
MarchSaturday, March 4, 16:00-17:30, Room M 4 **E³ 1620 Multiparametric US in musculoskeletal applications** **LEVEL II**» **Chairman's introduction**

N.N.

A. Sports-related lower extremity injuries

M. Bachmann Nielsen; Copenhagen/DK











B. Entrapment neuropathies of the lower extremity nerves

H. Gruber; Innsbruck/AT

C. Inflammatory joint disease

N.N.

E³ – ECR ACADEMIESINTERACTIVE TEACHING SESSIONS FOR YOUNG
(AND NOT SO YOUNG) RADIOLOGISTS

- 1 March** **Wednesday, March 1, 08:30-10:00, Room A** 
- E³ 121** **Emergency radiology I** **LEVEL II**
- A. Brain trauma**
M. Smits; Rotterdam/NL
- B. Peripheral vascular injury**
J. Ferda; Plzen/CZ
- 1 March** **Wednesday, March 1, 10:30-12:00, Room A** 
- E³ 221** **MR imaging in sports medicine I** **LEVEL II**
- A. Muscle injury in sports**
M.G. Mack; Munich/DE
- B. Knee trauma**
M.O. De Maeseneer; Brussels/BE
- 2 March** **Thursday, March 2, 08:30-10:00, Room A** 
- E³ 521** **Integrating diagnostic tools in breast imaging** **LEVEL II**
- A. Multimodality breast imaging**
K. Kinkel; Chêne-Bougeries/CH
- B. Multiparametric breast MRI**
J. Camps Herrero; Valencia/ES
- 2 March** **Thursday, March 2, 10:30-12:00, Room A** 
- E³ 621** **Emergency radiology II** **LEVEL II**
- A. Abdominal vascular emergencies**
A. Palkó; Szeged/HU
- B. Chest trauma**
J. Biederer; Heidelberg/DE
- 2 March** **Thursday, March 2, 14:00-15:30, Room A** 
- E³ 721** **MR imaging in sports medicine II** **LEVEL II**
- A. Sports injuries of the ankle**
P. Robinson; Leeds/UK
- B. Shoulder injury**
M. Zanetti; Zurich/CH
- 2 March** **Thursday, March 2, 16:00-17:30, Room A** 
- E³ 821** **Paediatric radiology for the general radiologist** **LEVEL II**
- A. Fractures in children**
K.J. Johnson; Birmingham/UK
- B. MRI-typical paediatric applications in musculoskeletal imaging**
A.M.J.B. Smets; Amsterdam/NL
- 3 March** **Friday, March 3, 08:30-10:00, Room A** 
- E³ 921** **Use of staging and classification systems** **LEVEL II**
- A. RECIST 1.1 training**
A. Graser; Munich/DE
- B. Gastrointestinal-abdominal masses**
A. Ba-Ssalamah; Vienna/AT
- 3 March** **Friday, March 3, 16:00-17:30, Room A** 
- E³ 1221** **Basic breast imaging** **LEVEL II**
- A. Calcifications in mammography**
C.S. Balleyguier; Villejuif/FR
- B. Asymmetry and architectural distortion**
L.J. Pina Insausti; Pamplona/ES
- 4 March** **Saturday, March 4, 08:30-10:00, Room A** 
- E³ 1321** **Imaging of abdominal tumours** **LEVEL II**
- A. Liver tumours**
A. Luciani; Créteil/FR
- B. Pancreatic tumours**
C. Matos; Lisbon/PT
- 4 March** **Saturday, March 4, 10:30-12:00, Room A** 
- E³ 1421** **Genitourinary and gastrointestinal radiology** **LEVEL II**
- A. Prostate MRI using PI-RADS**
H.C. Thoeny; Berne/CH
- B. New aspects of renal tumours**
N. Grenier; Bordeaux/FR

 = Interactive session with electronic voting/self assessment

E³ – ECR ACADEMIESNEURORADIOLOGY:
FROM MORPHOLOGY TO FUNCTION

4 March Saturday, March 4, 14:00–15:30, Room A 

E³ 1521 Imaging of the skull base **LEVEL III**

A. Non-tumoural pathology of the temporal bone

B. Ozgen Mocan; Ankara/TR

B. Tumours of the skull base

T. Beale; London/UK

4 March Saturday, March 4, 16:00–17:30, Room A 

E³ 1621 Imaging of the chest **LEVEL I**

A. Fibrosing lung diseases

F. Molinari; Lille/FR

B. Pleural disease

C. Beigelman; Lausanne/CH

5 March Sunday, March 5, 08:30–10:00, Room A 

E³ 1721 Brain tumours **LEVEL I**

A. Paediatric brain tumours

M.I. Argyropoulou; Ioannina/GR

B. Adult brain tumours

P.C. Maly Sundgren; Lund/SE

5 March Sunday, March 5, 10:30–12:00, Room A 

E³ 1821 Dementia and movement disorders **LEVEL I**

A. MR contribution to diagnosis and differential diagnosis in dementia

M. Sasiadek; Wroclaw/PL

B. Imaging in Parkinsonism and other extrapyramidal disorders

T. Stosic-Opincal; Belgrade/RS

4 March Saturday, March 4, 08:30–10:00, Room M 5 

E³ 1322 Cerebral blood flow quantification **LEVEL III**

» **Chairman's introduction**

T. van der Zijden; Edegem/BE

A. Functional imaging of cerebral perfusion

A. Krainik; Grenoble/FR

B. Cerebral blood flow measurements with arterial spin-labelling

X. Golay; London/UK

C. Cerebrovascular reserve imaging and the consequences of neurovascular uncoupling

N.N.

4 March Saturday, March 4, 10:30–12:00, Room M 5 

E³ 1422 Advanced imaging techniques in brain tumours **LEVEL III**

» **Chairman's introduction**

P.C. Maly Sundgren; Lund/SE

A. Clinical utility of perfusion imaging for differentiating brain tumours

I.N. Pronin; Moscow/RU

B. Hybrid imaging with MRI/PET of brain tumours

N.N.

C. Assessment of brain tumour perfusion and abnormal vascular structure using arterial spin-labelling

N.N.

4 March Saturday, March 4, 14:00–15:30, Room M 5 

E³ 1522 Functional MRI of the brain opens new horizons **LEVEL III**

» **Chairman's introduction**

T.A. Yousry; London/UK

A. No function without structure: challenges in diffusion MRI and fibre tractography for clinical research


C. Tax; Cardiff/UK

B. Clinical utility of fMRI for preoperative brain mapping

H. Urbach; Freiburg/DE

C. Introduction to resting state fMRI and functional connectomics

P. Matthews; London/UK

4 March Saturday, March 4, 16:00–17:30, Room M 5 

E³ 1622 Functional imaging of the spine **LEVEL III**

» **Chairman's introduction**

D. Balériaux; Brussels/BE

A. Measuring CSF flow: technique and clinical usefulness

B. Ertl-Wagner; Munich/DE

B. Diffusion tensor imaging of the spinal cord in the assessment of intramedullary changes

M. Sasiadek; Wroclaw/PL

C. Dynamic MR lumbar evaluation in degenerative spine disease

M. Muto; Naples/IT

 = Interactive session with electronic voting/self assessment



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E³ ECR MASTER CLASSES

The ECR Master Classes focus on continuous professional development and lifelong learning. The classes are designed for subspecialised radiologists seeking cutting-edge information in their particular fields of interest. They are held by experts in the field and reflect state-of-the-art knowledge, as well as emerging trends.

ECR Master Classes are offered in cooperation with each of the following subspecialty societies:
CIRSE (one on vascular and one on interventional radiology),
ESCR, ESER, ESGAR, ESHNR, ESMOFIR, ESNR, ESOI, ESPR,
ESSR, ESTI, ESUR, EUSOBI.

E³ – ECR MASTER CLASSES

1
March **Wednesday, March 1, 08:30–10:00, Room F2**

Oncologic Imaging

E³ 126a **Oncologic imaging in the age of precision medicine** **LEVEL III**

Moderator: H. Hricak; New York, NY/US

A. Precision medicine: exposome

G. Frija; Paris/FR

B. Radiomics: the role of imaging in precision medicine

R. Kikinis; Boston, MA/US

C. Precision medicine and imaging-guided interventions

S.B. Solomon; New York, NY/US

» **Panel discussion: Precision medicine in oncology: what can imaging provide?**

1
March **Wednesday, March 1, 08:30–10:00, Room M 5** 

Genitourinary

E³ 126b **Functional MRI of the kidneys: ready for prime time?** **LEVEL III**

Moderator: H.C. Thoeny; Berne/CH

A. Diffusion-weighted MRI

N. Grenier; Bordeaux/FR

B. Perfusion MRI

M. Claudon; Vandoeuvre-les-Nancy/FR

C. BOLD and ASL

A. Boss; Zurich/CH

1
March **Wednesday, March 1, 16:00–17:30, Room M 5** 

Cardiac

E³ 426 **Assessment and lifelong follow-up of congenital heart disease** **LEVEL III**

» **Chairman's introduction**

L. Saba; Cagliari/IT

A. A primer: what do the most important anomalies look like?

O. Rompel; Erlangen/DE

B. CT for assessment and follow-up

J.-N. Dacher; Rouen/FR

C. MR imaging for assessment and follow-up

N. Schicchi; Ancona/IT

» **Panel discussion: How to best assess congenital anomalies?**

2
March **Thursday, March 2, 08:30–10:00, Room B**

Abdominal and Gastrointestinal

E³ 526a **The obesity epidemic: what is radiology's role?** **LEVEL III**

» **Chairman's introduction**

E.M. Merkle; Basle/CH

A. The metabolic syndrome: what the radiologist needs to understand

A. de Roos; Leiden/NL

B. Imaging the obese patient presenting as an emergency: challenges and solutions

M. Rengo; Latina/IT

C. Evidence and recommendations for quantification of hepatic and visceral fat

C.B. Sirlin; San Diego, CA/US

D. Bariatric surgery: normal post-operative imaging appearances and spectrum of complications

A. Blachar; Tel Aviv/IL

2
March **Thursday, March 2, 08:30–10:00, Room M 1**

Vascular

E³ 526b **What's new in arterial embolisation? Current and future trends** **LEVEL III**

Moderator: D.K. Tsetis; Iraklion/GR

A. New beads and new drugs: new indications

S.N. Goldberg; Jerusalem/IL

B. Prostate arterial embolisation

H. Rio Tinto; Lisbon/PT

C. Haemorrhoid embolisation

T. Jargiello; Lublin/PL

3
March **Friday, March 3, 08:30–10:00, Room M 5** 

Emergency Radiology

E³ 926 **Multimodality imaging of the acute female pelvis** **LEVEL III**

Moderator: R. Basilico; Chieti/IT

A. Ultrasound: making a more specific diagnosis

M. Weston; Leeds/UK

B. When can CT give a definite answer?

I. Millet; Montpellier/FR

C. Is MRI a game-changer?

G. Masselli; Rome/IT

4
March **Saturday, March 4, 08:30–10:00, Room M 3**

Interventional Radiology

E³ 1326 **Image-guided liver interventions: update and level of evidence** **LEVEL III**

Moderator: P.L. Pereira; Heilbronn/DE

A. Hepatocellular carcinoma (HCC)

L. Crocetti; Pisa/IT

B. Liver metastases of colorectal cancer (mCRC)

T.K. Helmberger; Munich/DE

C. Liver metastases of neuro-endocrine tumours (NET)

J. Kettenbach; St. Pölten/AT

 = Interactive session with electronic voting/self assessment

E³ – ECR MASTER CLASSES4
March

Saturday, March 4, 14:00–15:30, Room C

Chest**E³ 1526a Large airway disease****LEVEL III****Moderator:** M. Occhipinti; Rome/IT**A. Diseases of the trachea**

P.A. Grenier; Paris/FR

B. Tracheobronchial instability

M.O. Wielpütz; Heidelberg/DE

C. Quantitative analysis and imaging biomarkers of chronic obstructive pulmonary disease (COPD)

H. Gietema; Enschede/NL

4
March

Saturday, March 4, 14:00–15:30, Room O

Paediatric**E³ 1526b Imaging in child abuse: an update****LEVEL III****Moderator:** G.M. Magnano; Genoa/IT**A. Skeletal fractures**

R.R. van Rijn; Amsterdam/NL

B. Abusive head trauma

C. Adamsbaum; Le Kremlin-Bicêtre/FR

C. The medico-legal issues

A.C. Offiah; Sheffield/UK

4
March

Saturday, March 4, 14:00–15:30, Room D

Musculoskeletal**E³ 1526c MRI developments and techniques in musculoskeletal (MSK) radiology****LEVEL III****Moderator:** C.W.A. Pfirrmann; Zurich/CH**A. Whole-body MRI (WBMRI) and diffusion weighted imaging (DWI) in MSK: where is it (not) useful and how do I do it?**

F.E. Lecouvet; Brussels/BE

B. MR neurography: how to optimise and interpret your images

G. Andreisek; Münsterlingen/CH

C. 3D-spin echo (3D-SE) and radial imaging: uses and limitations

J. Fritz; Tübingen/DE

4
March

Saturday, March 4, 16:00–17:30, Room M 3

Molecular Imaging**E³ 1626 Molecular imaging in oncology****LEVEL II****» Chairman's introduction**

K. Nikolaou; Tübingen/DE

A. Imaging of hypoxia

V.J. Goh; London/UK

B. Imaging of proliferation

A. Kjaer; Copenhagen/DK

C. Imaging of metabolism

C. Nanni; Bologna/IT

D. Biomarker imaging with MR

M. Mayerhöfer; Vienna/AT

» Panel discussion: The pros and cons of molecular imaging in oncology5
March

Sunday, March 5, 08:30–10:00, Room N

Head and Neck**E³ 1726a Functional imaging in head and neck radiology: beyond morphology****LEVEL III****Moderator:** M.M. Lemmerling; Ghent/BE**A. Diffusion-weighted MRI: apparent diffusion coefficient (ADC) and beyond**

A.D. King; Hong Kong/HK

B. Perfusion imaging in head and neck: what is new?

R. Maroldi; Brescia/IT

C. MR/PET: the way to go

M. Becker; Geneva/CH

5
March

Sunday, March 5, 08:30–10:00, Room E1

Breast**E³ 1726b Taking clinical breast MRI to the next level****LEVEL III****» Chairman's introduction**

J. Camps Herrero; Valencia/ES

A. Breast MRI biomarkers for the clinical setting

E.A. Morris; New York, NY/US

B. Preoperative MRI: which changes to expect after the MIPA trial?

F. Sardanelli; San Donato Milanese/IT

C. Is breast MRI increasing the number of high-risk lesions?

C.K. Kuhl; Aachen/DE

» Panel discussion: Breast MRI: what more evidence do we need?5
March

Sunday, March 5, 08:30–10:00, Room E2

Neuro**E³ 1726c Imaging of traumatic brain injury****LEVEL III****Moderator:** M. Karlovic-Vidakovic; Mostar/BA**A. New MRI techniques in the diagnosis of patients with traumatic brain injury**

D. Galanaud; Paris/FR

B. Quantification traumatic brain lesions with computer-aided diagnosis software: useful or not?

R. Manniesing; Nijmegen/NL

C. Structured reporting of traumatic brain injury lesions: introducing common data elements

T. Vande Vyvere; Antwerp/BE

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MINI COURSE

This year, the Joint Course of the ESR and RSNA (Radiological Society of North America) focuses on **hybrid imaging**.

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

Please note that you can only take part in electronic voting via your own device (smartphone, tablet, laptop) by connecting to the WiFi network of the lecture room you are in. Once connected, you will be automatically directed to the voting website. No app required.

MINI COURSE

JOINT COURSE OF THE ESR AND RSNA (RADIOLOGICAL SOCIETY OF NORTH AMERICA): HYBRID IMAGING

2
March **Thursday, March 2, 08:30–10:00, Room M 5** 

MC 528 The ABCs of hybrid imaging **LEVEL II**

Moderators: A. Drzezga; Cologne/DE
K. Riklund; Umeå/SE

A. What you need to know about PET-physics

J. Axelsson; Umeå/SE

B. How MR physics influence image quality in hybrid imaging

C. Catana; Boston, MA/US

C. Interactive case discussion

J. Axelsson; Umeå/SE

C. Catana; Boston, MA/US

2
March **Thursday, March 2, 14:00–15:30, Room M 5** 

MC 728 Hybrid imaging of the brain **LEVEL II**

Moderators: A. Drzezga; Cologne/DE
K. Riklund; Umeå/SE

A. Neurodegenerative disorders

H. Barthel; Leipzig/DE

B. Brain tumours

J. McConathy; St. Louis, MO/US

C. Interactive case discussion

H. Barthel; Leipzig/DE

J. McConathy; St. Louis, MO/US

2
March **Thursday, March 2, 10:30–12:00, Room M 5** 

MC 628 Hybrid imaging in the female **LEVEL II**

Moderators: A. Drzezga; Cologne/DE
K. Riklund; Umeå/SE

A. Pelvic tumours

F. Dehdashti; St. Louis, MO/US

B. Breast cancer

O. Ratib; Geneva/CH

C. Interactive case discussion

F. Dehdashti; St. Louis, MO/US

O. Ratib; Geneva/CH

2
March **Thursday, March 2, 16:00–17:30, Room M 5** 

MC 828 Hybrid imaging in the male **LEVEL II**

Moderators: A. Drzezga; Cologne/DE
K. Riklund; Umeå/SE

A. Prostate cancer: PET, MR or both?

M. Eiber; Los Angeles, CA/US

B. Prostate cancer: novel tracers

M.G. Pomper; Baltimore, MD/US

C. Interactive case discussion

M. Eiber; Los Angeles, CA/US

M.G. Pomper; Baltimore, MD/US

 = Interactive session with electronic voting/self assessment

PROS & CONS SESSION

The Pros & Cons Session will examine the controversial topic: 'Providing an effective ultrasound service: how and by whom?' The session will be split into one interactive and one non-interactive part.

3
March

Friday, March 3, 16:00-17:30, Room K

**PS 1227 Providing an effective ultrasound service:
how and by whom?**

Moderators: L.E. Derchi; Genoa/IT
V. Gibbs; Bristol/UK

A. Who provides US services? The situation in Europe
H. Edwards; Stevenage/UK

**B. Should US services be provided by radiologists?
(performed and reported on)**
M. Claudon; Vandoeuvre-les-Nancy/FR

**C. Can or should US services be provided
by radiographers/sonographers? Educational needs**
G. Harrison; London/UK

**D. Is it possible to standardise a 'real-time' examination?
Sometimes it is possible, but not always**
C. Nyhsen; Sunderland/UK

» Discussion on the pros and cons
L.E. Derchi; Genoa/IT
V. Gibbs; Bristol/UK



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THE VOICE OF EPOS AT ECR 2017

The Voice of EPOS™ will again offer a platform for poster authors to present their work in a moderated poster session to an international audience at ECR 2017.

Presentations will take place from Wednesday to Sunday in the **EPOS™ Arena**, and will also be broadcast online via the ECR Live streaming service and recorded for *ECR Online*.

In addition to organ-based topics, The Voice of EPOS™ will feature new exciting sessions such as Computer Applications, Molecular Imaging, Physics in Radiology, Radiographers and Radioprotection. Topical sessions will be held for:

- Abdominal Viscera
- GI Tract
- Breast
- Cardiac
- Chest
- Emergency
- Genitourinary
- Head and Neck
- Interventional
- Musculoskeletal
- Neuro
- Oncology
- Paediatric
- Vascular
- Computer Applications
- Molecular Imaging
- Physics in Radiology
- Radiographers
- Radioprotection
- Eurosafe

To strengthen the exchange within the communities and serve a multilingual and international audience, there will be a multitude of sessions dedicated to the following languages and countries:

- Arabic
- Chinese
- French
- German
- Italian
- Japanese
- Korean
- Russian
- Turkish
- Greek
- Hindi
- Romanian
- Belgium
- Peru
- USA
- Latin America (Spanish)
- Latin America (Portuguese)
- Spain
- Portugal
- Polish
- Swedish

PICK UP THE MICROPHONE:

All sessions are subject to abstract submission figures, which means that you can make them possible! Submit your abstracts to EPOS™, ask your colleagues to submit their work as well, and we'll make sure you will be part of a session in your specialty or mother tongue!

To take part, abstract submitters must select the respective affirmation during abstract submission.

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JOINT ESR/ESOR SESSIONS

Organised in cooperation with the European School of Radiology, these sessions will focus on radiologic anatomy.

STUDENT SESSIONS

The submitting authors of the 32 best abstracts will be invited to the ECR to present their work, with their accommodation and travel expenses paid by the European Society of Radiology.

NEW: EFRS RADIOGRAPHERS' BASIC SESSION

This special session on the professional roles of the radiographer will be held together with the European Federation of Radiographer Societies.



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 each course is 90 minutes (classic Refresher Course: three parts of 30 minutes each, including the introduction and time for discussion; integrated Refresher Course: three parts of 23 minutes each, leaving enough time for the introduction by the chairpersons and the 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.

REFRESHER COURSES

Abdominal and Gastrointestinal

1 March Wednesday, March 1, 08:30-10:00, Room B

RC 101 Assessing inflammation and fibrosis in Crohn's disease **LEVEL III**

- » **Chairman's introduction**
A. Laghi; Latina/IT
- A. Is sonography (CEUS and elastography) the right tool?**
E. Quaia; Trieste/IT
- B. Is there space for MDCT (spectral imaging, iodine map)?**
J. Podgorska; Warsaw/PL
- C. Will MRI (DWI and perfusion) solve the problem?**
S.A. Taylor; London/UK
- » **Panel discussion: How do I approach a case in my routine clinical practice?**

1 March Wednesday, March 1, 16:00-17:30, Room B

RC 401 The spleen: the forgotten organ **LEVEL II**

- » **Chairman's introduction**
L.H. Ros Mendoza; Zaragoza/ES
- A. Acute and chronic splenic disease**
G. Zamboni; Verona/IT
- B. The incidental splenic lesion**
M. Laniado; Dresden/DE
- C. Malignant lesions**
S. Gourtsoyianni; London/UK
- » **Panel discussion: How to manage incidental findings in clinical routine practice**

3 March Friday, March 3, 08:30-10:00, Room B

RC 901 CT colonography today **LEVEL II**

- » **Chairman's introduction**
M. Hellström; Gothenburg/SE
- A. How I perform it**
P. Lefere; Roeselare/BE
- B. How I interpret it**
T. Mang; Vienna/AT
- C. Screening with CTC**
D. Regge; Turin/IT
- » **Panel discussion: Challenging cases from clinical practice**

4 March Saturday, March 4, 08:30-10:00, Room B

RC 1301 Difficult challenges in imaging the acute abdomen **LEVEL II**

- Moderator:** S.K. Puri; New Delhi/IN
- A. Perforation of the GI tract**
V. Maniatis; Aabenraa/DK
 - B. Bowel obstruction**
A.J.B.S. Madureira; Porto/PT
 - C. Acute biliary conditions**
C.D. Becker; Geneva/CH

4 March Saturday, March 4, 16:00-17:30, Room B

RC 1601 Abdominal MRI: from standard to advanced protocols **LEVEL III**

- » **Chairman's introduction**
F. Caseiro-Alves; Coimbra/PT
- A. Suspected pancreatic tumour**
R. Manfredi; Verona/IT
- B. Inflammatory bowel disease**
J. Rimola; Barcelona/ES
- C. Pelvic floor disorder**
D. Weishaupt; Zurich/CH
- » **Panel discussion: How to create an efficient MR protocol in abdominal diseases**

5 March Sunday, March 5, 08:30-10:00, Room B

RC 1701 IgG4-related disease: what is it and what do I need to know? **LEVEL III**

- » **Chairman's introduction**
S.A. Jackson; Plymouth/UK
- A. Pancreatic manifestations**
R. Pozzi-Mucelli; Verona/IT
- B. Hepatobiliary manifestations**
M. Ronot; Clichy/FR
- C. Systemic manifestations**
G. Morana; Treviso/IT
- » **Panel discussion: Tips and tricks in clinical practice**

REFRESHER COURSES

Breast

1
March

Wednesday, March 1, 16:00–17:30, Room E1

RC 402 Screening for breast cancer **LEVEL I**

- » **Chairman's introduction**
E.A. Morris; New York, NY/US
- A. Screening with mammography only**
R.M. Pijnappel; Utrecht/NL
- B. Screening with mammography and ultrasound**
T.H. Helbich; Vienna/AT
- C. Screening with tomosynthesis**
U. Bick; Berlin/DE
- » **Panel discussion: What is the best modality approach to screen for breast cancer?**

2
March

Thursday, March 2, 08:30–10:00, Room E1

RC 502 The high risk lesions enigma **LEVEL III**

- Moderator:** F. Kilburn-Toppin; Cambridge/UK
- A. Lesions with an elevated risk for breast cancer**
G. Forrai; Budapest/HU
 - B. Value of breast MRI: rate of underestimation and impact on treatment decision**
R.M. Mann; Nijmegen/NL
 - C. Could surgery be avoided?**
S.J. Vinnicombe; Dundee/UK

2
March

Thursday, March 2, 16:00–17:30, Room E1

RC 802 Radio-pathological correlation: more important than you thought **LEVEL II**

- » **Chairman's introduction**
F.J. Gilbert; Cambridge/UK
- A. Pre-treatment planning**
C.K. Kuhl; Aachen/DE
- B. Intraoperative specimen evaluation**
J. Camps Herrero; Valencia/ES
- C. The breast radiologist sitting down with the pathologist**
T. Tot; Falun/SE
- » **Panel discussion: How to enhance the interaction between radiologists and pathologists?**

3
March

Friday, March 3, 08:30–10:00, Room E1

RC 902 Minimally-invasive local treatment of breast cancer: the time is now **LEVEL II**

- » **Chairman's introduction**
M. Sklair-Levy; Tel Aviv/IL
- A. High intensity focused ultrasound (HIFU) therapy**
B. Cavallo Marincola; Rome/IT
- B. Radiofrequency ablation therapy**
B. Brkljačić; Zagreb/HR
- C. Cryotherapy**
M.H. Fuchsjaeger; Graz/AT
- » **Panel discussion: How can we overcome resistance of clinical partner specialties to refer eligible women to radiology?**

4
March

Saturday, March 4, 08:30–10:00, Room E1

RC 1302 Rethinking ductal carcinoma in situ (DCIS) **LEVEL III**

- Moderator:** F. Pediconi; Rome/IT
- A. New molecular pathologic knowledge on DCIS**
M.A.A.J. van den Bosch; Utrecht/NL
 - B. Diagnosing DCIS**
S. Schrading; Aachen/DE
 - C. Reducing overtreatment of DCIS**
M.G. Wallis; Cambridge/UK

REFRESHER COURSES

Cardiac

2
March **Thursday, March 2, 08:30-10:00, Room N**

RC 503 Imaging of cardiac valves: new trends **LEVEL III**

Moderator: H. Alkadhi; Zurich/CH

- A. Echocardiography remains the reference technique**
F. Knebel; Berlin/DE
- B. MRI is the best comprehensive approach**
M. Francone; Rome/IT
- C. Does CT have a role in diagnosing valvular disease?**
G. Feuchtner; Innsbruck/AT

3
March **Friday, March 3, 08:30-10:00, Room N**

RC 903 Novel ways to assess myocardial tissue **LEVEL III**

Moderator: O. Duvernoy; Uppsala/SE

- A. T1 mapping: technical considerations**
M.R. Makowski; Berlin/DE
- B. T2 mapping: technical considerations**
C. Tessa; Lido di Camaiore/IT
- C. Clinical use of T1 and T2 mapping**
A. de Roos; Leiden/NL

4
March **Saturday, March 4, 14:00-15:30, Room N**

RC 1503 Imaging of cardiac function, perfusion and viability by MR **LEVEL III**

- » **Chairman's introduction**
M. Francone; Rome/IT
- A. Getting the best image quality**
B. Jankharia; Mumbai/IN
- B. Differentiation of ischemic and non-ischemic cardiomyopathy**
P. Croisille; Saint-Etienne/FR
- C. Best applications in congenital heart disease**
J.M. Sohns; Hannover/DE
- » **Panel discussion: Has MRI matured to a one-stop-shop in cardiac imaging?**

4
March **Saturday, March 4, 16:00-17:30, Room N**

RC 1603 Coronary CT angiography: how to get it done? **LEVEL II**

Moderator: K. Pagonidis; Iraklion/GR

- A. Beautiful cases from clinical practice I**
S. Feger; Berlin/DE
- B. Staff training and technical requirements**
M. Francone; Rome/IT
- C. Beautiful cases from clinical practice II**
F. Plank; Innsbruck/AT

Chest

1
March **Wednesday, March 1, 08:30-10:00, Room C**

RC 104 Pneumonia **LEVEL II**

- » **Chairman's introduction**
I.E. Tyurin; Moscow/RU
- A. Community-acquired pneumonia**
I. Hartmann; Rotterdam/NL
- B. Tuberculosis**
E. Castañer; Sabadell/ES
- C. Fungal pneumonia in immunocompromised hosts**
C.P. Heussel; Heidelberg/DE
- » **Panel discussion: What is the role of radiologists in the diagnosis and management of lung infections?**

1
March **Wednesday, March 1, 16:00-17:30, Room C**

RC 404 Pulmonary embolism: persistent controversies **LEVEL II**

- » **Chairman's introduction**
M. Rémy-Jardin; Lille/FR
- A. Subsegmental PE, incidental PE: diagnosis and management**
C.M. Schaefer-Prokop; Amersfoort/NL
- B. CT not available, contraindicated or inconclusive: what to do?**
E.J.R. van Beek; Edinburgh/UK
- C. Can we predict outcome from imaging?**
B. Ghaye; Brussels/BE
- » **Panel discussion: How to optimise patient management?**

2
March **Thursday, March 2, 16:00-17:30, Room C**

RC 804 CT - patterns in chest radiology: back to basics and beyond **LEVEL II**

- » **Chairman's introduction**
H. Prosch; Vienna/AT
- A. Secondary pulmonary lobule anatomy: essential to tackle with the nodular pattern**
T. Frauenfelder; Zurich/CH
- B. Linear and reticular pattern**
F. Molinari; Lille/FR
- C. Ground glass opacities (GGO) and consolidation**
J. Vogel-Claussen; Hannover/DE
- » **Panel discussion: Is it always easy to detect a pattern? Tips for success**

Chest

REFRESHER COURSES

Computer Applications

3
March

Friday, March 3, 08:30–10:00, Room C

RC 904 Low dose and no-dose chest imaging: opportunities and limitations **LEVEL II****Moderator:** D. Tack; Baudour/BE**A. CT**

C. de Margerie-Mellon; Paris/FR

B. MRI

J. Dinkel; Munich/DE

C. US

F. Gleeson; Oxford/UK

3
March

Friday, March 3, 16:00–17:30, Room C

RC 1204 Thoracic manifestations of systemic disease **LEVEL II****Moderator:** A. Chodorowska; Wroclaw/PL**A. Systemic sclerosis**

M. Silva; Parma/IT

B. Granulomatosis and polyangiitis

S. Bayraktaroglu; Izmir/TR

C. Histiocytosis and lymphangioleiomyomatosis

A. Oikonomou; Toronto, ON/CA

5
March

Sunday, March 5, 08:30–10:00, Room C

RC 1704 Novelties in lung cancer imaging **LEVEL II****Moderator:** B. Feragalli; Chieti/IT**A. New approaches to the management of pulmonary nodules**

A. Nair; London/UK

B. CT phenotypes of lung adenocarcinoma

M. Lederlin; Rennes/FR

C. Imaging of immune-related response criteria (irRC)

O.L. Sedlacek; Heidelberg/DE

2
March

Thursday, March 2, 16:00–17:30, Room M 2

RC 805 Daily use of mobile devices in radiology **LEVEL I**» **Chairman's introduction**

O. Ratib; Geneva/CH

A. What did mobile devices change in radiology education?

E. Kotter; Freiburg/DE

B. Is it appropriate to read a study on a smartphone or a tablet?

E. Neri; Pisa/IT

C. Security and ethical issues of mobile device technology

E.R. Ranschaert; 's-Hertogenbosch/NL

» **Panel discussion: Will mobile technology overcome stationary technology in radiology?**4
March

Saturday, March 4, 16:00–17:30, Room M 2

RC 1605 Will the good old PACS disappear? **LEVEL II**» **Chairman's introduction**

D. Regge; Turin/IT

A. It's time for PACS replacement: how-to guide, recommendations and pitfalls

S. Morozov; Moscow/RU

B. The paperless radiology department

C. Heilmaier; Zurich/CH

C. Does PACS into the cloud means PACS evaporates?

J. Schillebeeckx; Knokke/BE

» **Panel discussion: How will increased interconnection affect radiologists' day-to-day life?**

REFRESHER COURSES

Molecular Imaging

1
March **Wednesday, March 1, 16:00–17:30, Room M 3**

**RC 406 Molecular imaging:
what can we quantify? LEVEL III**

Moderator: O. Clément; Paris/FR

A. Advanced MRI techniques

M. Smits; Rotterdam/NL

B. Advanced PET imaging techniques

T. Beyer; Vienna/AT

C. Clinical applications of quantitative hybrid imaging in oncology

L. Umutlu; Essen/DE

3
March **Friday, March 3, 08:30–10:00, Room M 3**

**RC 906 Translational research
in molecular imaging:
how to do the translation LEVEL II**

» **Chairman's introduction**

J. Hodler; Zurich/CH

A. Preclinical quantitative PET/MR imaging

C. Kuntner-Hannes; Seibersdorf/AT

B. What about nano-technology?

F.M.A. Kiessling; Aachen/DE

C. The transition from preclinical to clinical

A. Kjaer; Copenhagen/DK

» **Panel discussion: How to perform translational research in molecular imaging**

Genitourinary

2
March **Thursday, March 2, 16:00–17:30, Studio 2017**

RC 807 Imaging of the prostate LEVEL II

Moderator: P. Puech; Lille/FR

A. MRI staging of prostate cancer

G.M. Villeirs; Ghent/BE

B. Pitfalls in MRI of the prostate

V. Panebianco; Rome/IT

C. Imaging of PSA recurrence

H.-P. Schlemmer; Heidelberg/DE

3
March **Friday, March 3, 16:00–17:30, Studio 2017**

**RC 1207 MRI for gynaecologic imaging:
how I do it LEVEL II**

» **Chairman's introduction**

K.H. Härmä; Berne/CH

A. Basics of patient preparation and T2W-imaging

N.M. deSouza; Sutton/UK

B. Contrast agents

R.A. Kubik-Huch; Baden/CH

C. Diffusion and ADC

E. Sala; New York, NY/US

» **Panel discussion: Multiparametric MRI of the female pelvis - should it replace tailored protocols?**

4
March **Saturday, March 4, 08:30–10:00, Studio 2017**

**RC 1307 Management of incidental findings
in the genitourinary tract LEVEL II**

Moderator: R.H. Oyen; Leuven/BE

A. Adrenals

L.E. Derchi; Genoa/IT

B. Kidneys

H.C. Thoeny; Berne/CH

C. Adnexa

C.S. Balleyguier; Villejuif/FR

5
March **Sunday, March 5, 08:30–10:00, Studio 2017**

**RC 1707 Pitfalls in gynaecologic oncologic
imaging: how to avoid them and
minimise risks LEVEL II**

» **Chairman's introduction**

A. Sahdev; London/UK

A. Mistakes in assessment of cervical cancer

M.M. Otero-García; Santiago de Compostela/ES

B. Mistakes in assessment of endometrial cancer

T.M. Cunha; Lisbon/PT

C. Mistakes in assessment of ovarian masses

I. Thomassin-Naggara; Paris/FR

» **Panel discussion: How can we improve interdisciplinary communication and avoid misunderstanding in our reports?**

Head and Neck

REFRESHER COURSES

Interventional Radiology

1
March

Wednesday, March 1, 08:30-10:00, Room N

**RC 108 Head and neck imaging:
don't sell your ultrasound yet!** **LEVEL II****Moderator:** T. Beale; London/UK**A. Salivary gland imaging with ultrasound**

S. Colley; Birmingham/UK

B. Masses of the soft parts of the neck

P.K. Srivastava; Lucknow/IN

**C. Lymph nodes: differential diagnosis and fine-needle
aspiration**

R. Maroldi; Brescia/IT

1
March

Wednesday, March 1, 16:00-17:30, Room N

RC 408 Pathways for tumour spread **LEVEL II****Moderator:** N.N.**A. Pathways for oral cavity and oropharynx tumour
spread**

A. Borges; Lisbon/PT

**B. Pathways for nasopharyngeal tumour spread
including perineural spread**

V. Chong; Singapore/SG

**C. Pathway for laryngeal and hypopharyngeal tumour
spread**

N. Chidambaranathan; Chennai/IN

2
March

Thursday, March 2, 16:00-17:30, Room N

**RC 808 Pitfalls in interpretation of head and
neck disease** **LEVEL II****Moderator:** S. Robinson; Vienna/AT**A. Anatomical variants without clinical consequence**

F.A. Pameijer; Utrecht/NL

B. Anatomical variants posing surgical risks

D. Farina; Brescia/IT

C. Distinct head and neck disease or systemic disease?

M. Becker; Geneva/CH

4
March

Saturday, March 4, 08:30-10:00, Room N

**RC 1308 Posttreatment imaging
of the head and neck** **LEVEL II**» **Chairman's introduction**

H.B. Eggesbø; Oslo/NO

A. Normal findings after radiotherapy

R. Hermans; Leuven/BE

B. Normal findings after surgery

A. Trojanowska; Lublin/PL

**C. Treatment monitoring for early detection of
recurrence**

A.D. King; Hong Kong/HK

» **Panel discussion: What are the challenges in
differentiating post-treatment changes from tumour
recurrence?**1
March

Wednesday, March 1, 08:30-10:00, Room M 3

**RC 109 Musculoskeletal interventions:
what's new?** **LEVEL III****Moderator:** A. Gangi; Strasbourg/FR**A. Musculoskeletal ablation and embolisation**

A. Basile; Catania/IT

**B. Vertebral augmentation and discectomy techniques:
can we challenge surgery?**

D. Filippiadis; Athens/GR

**C. Bone biopsy and pain treatment using cone-beam CT
(CBCT)**

M.J. Van Strijen; Nieuwegein/NL

2
March

Thursday, March 2, 08:30-10:00, Room M 3

**RC 509 Introduction to percutaneous
interventional procedures:
a practical guide** **LEVEL II**» **Chairman's introduction**

R. Iezzi; Rome/IT

A. How to safely perform US-guided procedures

D. Akinci; Ankara/TR

B. How to safely perform CT-guided procedures

R. García Marcos; Valencia/ES

**C. Post-procedure follow-up and complication
management**

M. Seidensticker; Magdeburg/DE

» **Panel discussion: Tips and tricks for choosing your
first cases. Controversial case-based review of
approaches to difficult lesions**2
March

Thursday, March 2, 16:00-17:30, Room M 3

**RC 809 Imaging and endovascular treatment
of pulmonary embolism** **LEVEL II**» **Chairman's introduction**

N.N.

A. Imaging algorithm for pulmonary embolism

B. Ghaye; Brussels/BE

**B. What is new in the recently published guidelines for
pulmonary embolism treatment?**

R. Uberoi; Oxford/UK

**C. Updates on the endovascular treatment of massive
and submassive pulmonary embolism**

S.C. Spiliopoulos; Patras/GR

» **Panel discussion: Appropriate diagnosis and risk
stratification in the management of acute massive
and acute submassive pulmonary embolism**

REFRESHER COURSES

Interventional Radiology

3
March

Friday, March 3, 16:00–17:30, Room M 3

RC 1209 Portal hypertension and interventional radiology (IR) **LEVEL II**

- » **Chairman's introduction**
V. Vilgrain; Clichy/FR
- A. Imaging of portal hypertension**
I. Bargellini; Pisa/IT
- B. Embolisation for portal hypertension/varices and splenic artery embolisation**
I.E. Keussen; Lund/SE
- C. Transjugular intrahepatic portosystemic shunt (TIPS): critical appraisal of techniques and guidelines for treatment**
A. Krajina; Hradec Králové/CZ
- » **Panel discussion: Appropriate selection of patients for IR including the role of Balloon-Occluded Retrograde Transvenous Obliteration (BRTO) for gastric varices**

Musculoskeletal

1
March

Wednesday, March 1, 08:30–10:00, Room D

RC 110 The elbow: a comprehensive approach **LEVEL III**

- » **Chairman's introduction**
A. Alcalá-Galiano; Madrid/ES
- A. The tendons: anatomy, pathology and intervention**
P. Peetrons; Brussels/BE
- B. Ligament injury and instability: what to look for and what to say**
M.C. De Jonge; Amsterdam/NL
- C. Nerve entrapment at the elbow**
L.M. Sconfienza; San Donato Milanese/IT
- » **Panel discussion: US, CT, conventional MR, high field MR: making the right choice**

1
March

Wednesday, March 1, 16:00–17:30, Room D

RC 410 Bone trauma in the axial skeleton: patterns of injury and how I describe them **LEVEL II**

- Moderator:** A. Barile; L'Aquila/IT
- A. Thoracic and lumbar spine**
V.N. Cassar-Pullicino; Oswestry/UK
 - B. Pelvis**
K. Verstraete; Ghent/BE
 - C. Acetabulum**
A. Kassarian; Majadahonda/ES

2
March

Thursday, March 2, 08:30–10:00, Room D

RC 510 Musculoskeletal ultrasound in the management of sports injuries **LEVEL III**

- Moderator:** C. Cyteval; Montpellier/FR
- A. Ultrasound of foot and ankle injuries: technique and diagnosis**
C. Martinoli; Genoa/IT
 - B. Ultrasound of the hip and knee: what is it good for and what are its limitations?**
E. Rowbotham; Leeds/UK
 - C. Ultrasound guided intervention in the athlete: indications and techniques**
H. Guerini; Paris/FR

REFRESHER COURSES

Musculoskeletal

2
March

Thursday, March 2, 16:00–17:30, Room D

RC 810 Inflammatory arthritis: beyond the radiograph

LEVEL III

- » **Chairman's introduction**
M. Reijnierse; Leiden/NL
- A. Rheumatoid arthritis: what does MRI show and how do I do it?**
I. Sudot-Szopińska; Warsaw/PL
- B. The axial skeleton in spondyloarthritis: conventional radiograph to MRI**
R. Campbell; Liverpool/UK
- C. Ultrasound in inflammatory arthritis: what does it show and what does it mean?**
A. Klauser; Innsbruck/AT
- » **Panel discussion: How practical is it for radiologists to support ultrasound and MRI for clinical rheumatology? Is it something the rheumatologists should undertake themselves?**

3
March

Friday, March 3, 16:00–17:30, Room D

RC 1210 Imaging the hip and thigh

LEVEL III

- Moderator:** V. Njagulj; Sremska Kamenica/RS
- A. Femoroacetabular impingement: what is it, how do I image it and does it matter?**
R. Sutter; Zurich/CH
 - B. Groin pain in the athlete: what causes it and what does imaging contribute?**
M. Maas; Amsterdam/NL
 - C. Muscle injury of the hip and thigh**
M.-A. Weber; Heidelberg/DE

4
March

Saturday, March 4, 08:30–10:00, Room D

RC 1310 Shoulder MRI: mastering technique and making my report relevant

LEVEL II

- » **Chairman's introduction**
J. Kramer; Linz/AT
- A. The normal MRI: techniques and anatomy**
E. Llopis; Valencia/ES
- B. Rotator cuff tears: what are they and what do they look like?**
K.-F. Kreitner; Mainz/DE
- C. Patterns of instability: what does the MRI show?**
A.J. Grainger; Leeds/UK
- » **Panel discussion: How are the indications for MR arthrography in the shoulder changing?**

5
March

Sunday, March 5, 08:30–10:00, Room D

RC 1710 MRI of articular cartilage and bone: areas of imaging confusion and practical solutions

LEVEL II

- Moderator:** O. Papakonstantinou; Athens/GR
- A. Bone oedema syndromes and avascular necrosis**
B. Vande Berg; Brussels/BE
 - B. Osteochondral injury, subchondral fractures and traumatic bone oedema: what is important and how do I describe it**
F.W. Roemer; Erlangen/DE
 - C. Is this osteomyelitis? If not what else could it be?**
A.B. Roszkopf; Zurich/CH

REFRESHER COURSES

Neuro

1
March**Wednesday, March 1, 08:30-10:00, Room E2****RC 111 Management of acute stroke** **LEVEL II****Moderator:** P. Vilela; Almada/PT**A. A critical appraisal of the current literature**

W. van Zwam; Maastricht/NL

B. Which techniques can we use to reopen an occluded cerebral blood vessel?

T. van der Zijden; Edegem/BE

C. Endovascular stroke treatment: ethical and economical concerns

K.-O. Løvblad; Geneva/CH

4
March**Saturday, March 4, 08:30-10:00, Room E2****RC 1311 White spots in the brain** **LEVEL II****Moderator:** E. Maj; Warsaw/PL**A. White spots and blots in the brain: what are they?**

T.A. Yousry; London/UK

B. How can I improve my reporting of T2-hyperintense lesions?

A. Rovira-Cañellas; Barcelona/ES

C. Is there a need for quantitative reporting of white matter lesions?

N.N.

2
March**Thursday, March 2, 16:00-17:30, Room E2****RC 811 Toxic brain disorders** **LEVEL II****Moderator:** P. Due-Tønnessen; Oslo/NO**A. Alcohol-related changes in the brain**

M. Knauth; Göttingen/DE

B. Recreational drugs and occupational hazards

D. Mandell; Toronto, ON/CA

C. Treatment-induced effects on the brain parenchyma

T. Lim; Singapore/SG

3
March**Friday, March 3, 08:30-10:00, Room E2****RC 911 Cerebrovascular disease** **LEVEL II****Moderator:** A. Krainik; Grenoble/FR**A. Vascular distribution territories: arterial and venous**

A. Dörfler; Erlangen/DE

B. Arterial dissection and vasculitis

P.C. Maly Sundgren; Lund/SE

C. Cerebral perfusion studies in cerebrovascular disease: techniques, indications and applications

H.R. Jäger; London/UK

3
March**Friday, March 3, 16:00-17:30, Room E2****RC 1211 Reporting the degenerative lumbar spine** **LEVEL II****Moderator:** E.T. Tali; Ankara/TR**A. Disc nomenclature: how I make my report**

E. Arana; Valencia/ES

B. Don't forget the facet joints and posterior elements

L. van den Hauwe; Antwerp/BE

C. What to say and not to say in your report

M.M. Thurnher; Vienna/AT

REFRESHER COURSES

Paediatric

1
March

Wednesday, March 1, 16:00–17:30, Room O

RC 412 Chest imaging in paediatrics **LEVEL II****Moderator:** B. Ahuja; Agra/IN**A. Congenital anomalies of the chest**

M. Haliloglu; Ankara/TR

B. Lung infection and its complications

M.L. Lobo; Lisbon/PT

C. Imaging interstitial lung disease in children: update 2017

E. Alexopoulou; Athens/GR

2
March

Thursday, March 2, 08:30–10:00, Room O

RC 512 Paediatric musculoskeletal imaging **LEVEL II****Moderator:** A.C. Offiah; Sheffield/UK**A. MRI of the wrist: the occurrence of bone marrow oedema**

D.A. Avenarius; Winterswijk/NL

B. MRI of the temporomandibular joints: findings that can mimic arthritis

T. von Kalle; Stuttgart/DE

C. Skeletal trauma in children

I. Barber; Esplugues de Llobregat/ES

3
March

Friday, March 3, 08:30–10:00, Room O

RC 912 Understanding paediatric neuroradiology **LEVEL II****Moderator:** N.N.**A. Imaging of the premature brain**

N. Khandelwal; Chandigarh/IN

B. Abusive head trauma: the role of CT and MRI

C. Adamsbaum; Le Kremlin-Bicêtre/FR

C. Imaging in hypoxic-ischaemic injury and hypothermia: an update

F.M. Triulzi; Milan/IT

3
March

Friday, March 3, 16:00–17:30, Room O

RC 1212 Dose reduction: tips and tricks **LEVEL II****Moderator:** C. Granata; Genoa/IT**A. Dose reduction in paediatric CT**

D. Aadnevik; Bergen/NO

B. Diagnostic reference levels in paediatric imaging: international recommendations

R. Seuri; Helsinki/FI

C. The impact of dose management systems

L.A. Rainford; Dublin/IE

This session is part of the EuroSafe Imaging campaign.4
March

Saturday, March 4, 16:00–17:30, Room O

RC 1612 Imaging children with cancer **LEVEL II****Moderator:** N.N.**A. Imaging of abdominal masses at diagnosis: clues for benignity vs malignancy**

Ø.E. Olsen; London/UK

B. From whole body MRI to MR/PET

W. Hirsch; Leipzig/DE

C. Imaging of complications of therapy

A.S. Littooi; Leiden/NL

REFRESHER COURSES

Physics in Radiology

1
March

Wednesday, March 1, 08:30-10:00, Room G

RC 113 Single-dual-multi-energy CT **LEVEL III**

- » **Chairman's introduction**
J. Damilakis; Iraklion/GR
- A. Basics of diagnostic dual-energy CT**
T. Klinder; Hamburg/DE
- B. Photon counting detector technology for diagnostic CT**
I. Blevis; Haifa/IL
- C. Do we really need multi-energy CT?**
S.T. Schindera; Aarau/CH
- » **Panel discussion: How many 'energies' do we need in CT?**

4
March

Saturday, March 4, 08:30-10:00, Room G

RC 1313 Motion management in medical imaging **LEVEL III**

- » **Chairman's introduction**
J. Geleijns; Leiden/NL
- A. Managing respiratory motion with CT and CBCT: conventional approaches and motion compensating techniques**
J. Sijbers; Antwerp/BE
- B. Managing cardiac motion with CT and CBCT: conventional approaches and motion compensating techniques**
M. Kachelrieß; Heidelberg/DE
- C. Motion compensation in MR and PET imaging**
C. Kolbitsch; Berlin/DE
- » **Panel discussion: How to optimise motion management in different imaging modalities?**

4
March

Saturday, March 4, 14:00-15:30, Room G

RC 1513 Dose reduction using iterative image reconstruction in CT **LEVEL III**

- » **Chairman's introduction**
V. Gershan; Skopje/MK
- A. Basics of iterative image reconstruction in CT**
M. Kortensniemi; Helsinki/FI
- B. Iterative image reconstruction in clinical practice (dos and don'ts)**
H. Alkadhi; Zurich/CH
- C. Image quality assessment of iterative reconstruction: pitfalls and future directions**
C. Ghetti; Parma/IT
- » **Panel discussion: How low can we go?**

This session is part of the EuroSafe Imaging campaign.



4
March

Saturday, March 4, 16:00-17:30, Room G

RC 1613 MR: artefacts and devices **LEVEL II**

- » **Chairman's introduction**
M. Tosetti; Pisa/IT
- A. Image artefacts in MRI and their mitigation**
D.J. Lurie; Aberdeen/UK
- B. Imaging around metal implants: artefact reduction in MRI**
C. McGrath; Belfast/IE
- C. Artefacts in perfusion and diffusion MRI**
I. Tsougos; Larissa/GR
- » **Panel discussion: Clinically applicable tools/strategies to minimising/avoiding MR imaging artefacts**

5
March

Sunday, March 5, 08:30-10:00, Room G

RC 1713 Artefacts and pitfalls in tomography **LEVEL III**

- » **Chairman's introduction**
V. Tsapaki; Athens/GR
- A. CT**
J. Kuntz; Heidelberg/DE
- B. PET/CT**
T. Beyer; Vienna/AT
- C. MR/PET**
H.H. Quick; Essen/DE
- » **Panel discussion: Imagine imaging without artefacts: dos and don'ts in your clinical practice**

REFRESHER COURSES

Radiographers

1
March**Wednesday, March 1, 08:30-10:00, Room K****RC 114 MRI technology and techniques****Moderators:** V. Syrgiamiotis; Athens/GR
A. Mizzi; Msida/MT**A. High field MRI benefits and limitations: 3T and higher**

C. Malamateniou; London/UK

B. RF-related heating in clinical MRI

T. Owman; Lund/SE

C. The benefits of diffusion imaging

J. Castillo; Msida/MT

» **Discussion and questions: How is patient care affected by MRI technology and techniques?**1
March**Wednesday, March 1, 16:00-17:30, Room K****RC 414 Modern imaging of major trauma****Moderators:** P.H. Hogg; Salford/UK
L. van den Hauwe; Antwerp/BE**A. Use of MSCT in disaster victim identification**

J. Kroll; Maastricht/NL

B. Conventional radiography in major trauma: role, technique modification and impact on interpretation

M. Hardy; Bradford/UK

C. Applications of ultrasound in the evaluation of major trauma

T. Herlihy; Dublin/IE

» **Discussion and questions: Imaging of major trauma - what are the challenges**2
March**Thursday, March 2, 08:30-10:00, Room K****RC 514 CT imaging: the role of the radiographer and technological developments****Moderators:** C. Beardmore; London/UK
R. Siemund; Lund/SE**A. The role of the radiographer in interventional CT procedures**

J. Santos; Coimbra/PT

B. Optimising CT doses

F. Zarb; Msida/MT

C. State of the art CT technology

S. Deppe; Kolding/DK

» **Discussion and questions: Optimisation of care in CT: what else may be done?**2
March**Thursday, March 2, 16:00-17:30, Room K****RC 814 The education and training of radiographers****Moderators:** H.H. Hjemly; Oslo/NO
E. Papadaki; Iraklion/GR**A. E-learning and blended learning approaches to continuing professional development (CPD): is this the way forward?**

E. Metsälä; Helsinki/FI

B. The assessment of clinical knowledge, skills and competences for pre- and post- registration radiographers

L. Robinson; Salford/UK

C. Clinical placements: the challenges ahead

L.A. Rainford; Dublin/IE

» **Discussion and questions: Education and training: what is the way forward?**3
March**Friday, March 3, 08:30-10:00, Room K****RC 914 Patient safety: professional and clinical responsibility of the radiographer****Moderators:** T. Roding; Haarlem/NL
P. Due-Tønnessen; Oslo/NO**A. Patient and staff safety in medical imaging: what can be done?**

S. Mc Fadden; Newtownabbey/UK

B. Aspects of safety: what should be considered?

K. Azevedo; Faro/PT

C. Patient safety: opportunities and challenges ahead in medical imaging

P. Bezzina; Msida/MT

» **Discussion and questions: Ensuring patient safety in medical imaging: what else can be done?**

REFRESHER COURSES

Vascular

1
March **Wednesday, March 1, 08:30-10:00, Room M 1**

RC 115 **Peripheral vascular malformations:
light after darkness** **LEVEL III**

- » **Chairman's introduction**
J.A. Reekers; Amsterdam/NL
- A. The diagnostic assessment**
M. Köcher; Olomouc/CZ
- B. Percutaneous or endovascular treatment:
when and how?**
B. Peynircioglu; Ankara/TR
- C. Paediatric vascular malformations:
diagnosis and treatment**
S. Stuart; London/UK
- » **Panel discussion: How could we improve diagnosis
and optimise the results of our interventions?**

2
March **Thursday, March 2, 16:00-17:30, Room M 1**

RC 815 **Carotid artery disease:
so what's new?** **LEVEL II**

- Moderator:** T. Jargiello; Lublin/PL
- A. The diagnostic assessment of carotid arteries: do we
still need US?**
R. Iezzi; Rome/IT
 - B. Carotid stenting vs endarterectomy:
is the jury back yet?**
K.D. Mathias; Dortmund/DE
 - C. Carotid interventions in the setting of acute stroke**
S. Sencer; Istanbul/TR

3
March **Friday, March 3, 08:30-10:00, Room M 1**

RC 915 **Post-treatment evaluation: what every
radiologist should know** **LEVEL II**

- » **Chairman's introduction**
P. Haage; Wuppertal/DE
- A. Thoracic aorta**
T. Leiner; Utrecht/NL
- B. Abdominal aorta**
C. Loewe; Vienna/AT
- C. Peripheral arterial disease**
M. Anzidei; Rome/IT
- » **Panel discussion: How to optimise post-treatment
imaging: getting proper diagnosis without
performing too many examinations**

Oncologic Imaging

2
March **Thursday, March 2, 08:30-10:00, Room F2**

RC 516 **A multidisciplinary approach
to prostate cancer:
can we make a difference?** **LEVEL III**

- » **Chairman's introduction**
B. Hamm; Berlin/DE
- A. The urologist: evidence-based clinical decision
making**
N. Mottet; St. Etienne/FR
- B. The radiologist: evidence-based use of
multiparametric MRI**
H.-P. Schlemmer; Heidelberg/DE
- C. The radiation oncologist**
D. Georg; Vienna/AT
- » **Panel discussion: Prostate cancer: evidence-based
multidisciplinary approach to imaging and treatment**

2
March **Thursday, March 2, 16:00-17:30, Room F2**

RC 816 **Evaluating lymph node involvement:
an impossible task?** **LEVEL II**

- » **Chairman's introduction**
P. Lalitha; Hyderabad/IN
- A. The current criteria for nodal involvement MRI/CT**
D. Tse; Hong Kong/HK
- B. Advanced MRI techniques: what do they contribute?**
H.C. Thoeny; Berne/CH
- C. PET and other nuclear medicine techniques**
T. Barwick; London/UK
- » **Panel discussion: Will imaging ever make diagnostic
biopsy unnecessary?**

3
March **Friday, March 3, 16:00-17:30, Room F2**

RC 1216 **Monitoring response: the essential
guide for all radiologists** **LEVEL II**

- » **Chairman's introduction**
P. Brader; Graz/AT
- A. RECIST made easy**
A.G. Rockall; London/UK
- B. PERCIST: PET response criteria**
C.C. Cyran; Munich/DE
- C. Assessment of response using functional MR and CT
imaging: the essentials**
C.A. Cuénod; Paris/FR
- » **Panel discussion: When and how will functional
imaging overcome morphological assessment?**

Oncologic Imaging

5
March

Sunday, March 5, 08:30–10:00, Room F2

RC 1716 Diffusion-weighted imaging (DWI) in oncology: how I do it**LEVEL III**

- » **Chairman's introduction**
D.-M. Koh; Sutton/UK
- A. DWI: how to optimise protocols**
N. Papanikolaou; Lisbon/PT
- B. DWI in abdominal oncology: ready for clinical practice?**
D.M. Lambregts; Amsterdam/NL
- C. DWI: whole body imaging**
V. Vandecaveye; Leuven/BE
- » **Panel discussion: How to optimise DWI for clinical practice?**

4
March

Saturday, March 4, 08:30–10:00, Room F2

RC 1317 Acute pain: hallmark in emergency radiology**LEVEL II**

- » **Chairman's introduction: Management and therapeutic pathways in patients with acute pain**
D.R. Kool; Nijmegen/NL
- A. Head**
S. Wirth; Munich/DE
- B. Chest**
E. Dick; London/UK
- C. Abdomen**
R. Basilico; Chieti/IT
- » **Panel discussion: Where does radiology fit in the pathway?**

4
March

Saturday, March 4, 14:00–15:30, Room F2

RC 1517 The latest update in imaging of polytrauma patients**LEVEL II**

- » **Chairman's introduction: The role of proper imaging and management in patients after severe trauma**
M. Stajgis; Poznan/PL
- A. Ultrasound: when, why and by whom?**
P.-A. Poletti; Geneva/CH
- B. CT: is it always whole-body?**
F.H. Berger; Amsterdam/NL
- C. Where is the proper place for MRI?**
K. Katulska; Poznan/PL
- » **Panel discussion: Comprehensive guidelines how to qualify post-traumatic patients for the proper imaging modality – summary**

4
March

Saturday, March 4, 16:00–17:30, Room F2

RC 1617 Abdominal trauma: things not to forget**LEVEL II**

- Moderator:** G. Schueller; Opfikon/CH
- A. Liver and spleen**
M. Scaglione; Castel Volturno/IT
 - B. Pancreas, bowel and mesentery**
M.A. Patak; Zurich/CH
 - C. Urogenital tract**
R.H. Oyen; Leuven/BE



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JOINT SESSIONS

JOINT SESSIONS

CLINICAL TRIALS IN RADIOLOGY (CTiR)

EDiR TALK (European Diploma in Radiology)

1
March **Wednesday, March 1, 12:30-13:30, Room M 1**

Clinical Trials in Radiology (CTiR) 1

Moderators: M. Dewey; Berlin/DE
R.L. Baron; Chicago, IL/US

2
March **Thursday, March 2, 12:30-13:30, Room M 1**

Clinical Trials in Radiology (CTiR) 2

Moderators: M. Dewey; Berlin/DE
R.L. Baron; Chicago, IL/US

3
March **Friday, March 3, 16:00-17:30, Room X**

EDiR Talk



= Interactive session with electronic voting/self assessment

JOINT SESSIONS

EFOMP WORKSHOPS

(European Federation of Organisations
for Medical Physics)

EFRS WORKSHOP

(European Federation
of Radiographer Societies)

facilitated by Elsevier and the 'Radiography' journal

3
March

Friday, March 3, 08:30-10:00, Room G

EF 1 Radiation incidents and accidents in medical imaging and their management (part I)

LEVEL II

Moderators: J. Damilakis; Iraklion/GR
A. Torresin; Milan/IT

- » **Chairman's introduction**
J. Damilakis; Iraklion/GR
- » **Radiation incidents and accidents in CT**
M. Mahesh; Baltimore, MD/US
- » **Radiation incidents and accidents in interventional
suites**
R.W.R. Loose; Nürnberg/DE
- » **Accidental exposure during pregnancy**
J. Damilakis; Iraklion/GR



This session is part of the EuroSafe Imaging campaign.

3
March

Friday, March 3, 10:30-12:00, Room G

EF 2 Radiation incidents and accidents in medical imaging and their management (part II)

LEVEL II

Moderators: M. Brambilla; Novara/IT
D.J. Lurie; Aberdeen/UK

- » **Chairman's introduction**
M. Brambilla; Novara/IT
- » **Incidents and accidents in MRI**
D.J. Lurie; Aberdeen/UK
- » **Radiation incidents and accidents in nuclear medicine**
M. Brambilla; Novara/IT
- » **Management of incidents and accidents in imaging
departments: the role and responsibilities of medical
physicists**
V. Tsapaki; Athens/GR



This session is part of the EuroSafe Imaging campaign.

4
March

Saturday, March 4, 16:00-17:30, Room K

EFRS Authorship and Reviewer Workshop

- » **Chairman's introduction: Establishing the evidence
base in radiology and radiography**
G. Paulo; Coimbra/PT
- » **Why publish your work?**
F. Zarb; Msida/MT
- » **Journal selection: aims and scope, audience and
metrics**
J.M. Nightingale; Salford/UK
- » **Ethics of publishing**
J. McNulty; Dublin/IE
- » **Things to consider: the reviewer's perspective**
A. England; Salford/UK
- » **Editor's ten top tips for publishing success**
J.M. Nightingale; Salford/UK
- » **Panel discussion: What are the barriers to publishing
your research or becoming a reviewer and how can
they be overcome?**

JOINT SESSIONS

EIBIR SESSIONS

(European Institute
for Biomedical Imaging Research)**2**
March **Thursday, March 2, 08:30–10:00, Room X****EIBIR Session 1****VPH-DARE@IT project****LEVEL I****Moderator:** A. Frangi; Sheffield/UK

- » **Introduction**
A. Frangi; Sheffield/UK
- » **Patient care platform**
M. van Gils; Tampere/FI
- » **Clinical research platform**
S. Varma; Sheffield/UK
- » **Mechanistic model-based biomarkers**
Y. Ventikos; London/UK
- » **Phenomenological model-based biomarkers**
S. Klein; Rotterdam/NL

3
March **Friday, March 3, 08:30–10:00, Room M 2****EIBIR Session 2****EU Research on cancer imaging****LEVEL I****Moderator:** Y. Liu; Brussels/BE

- » **Introduction**
Y. Liu; Brussels/BE
- » **Multi-modal imaging with diffuse optics for cancer theranostics**
T. Durduran; Barcelona/ES
- » **Hybrid PET/MRI for breast cancer detection**
C.K. Kuhl; Aachen/DE
- » **Using GlucoCEST MRI to visualise cancer**
X. Golay; London/UK

4
March **Saturday, March 4, 14:00–15:30, Room L 8****EIBIR Session 3****Innovative solutions for diagnosis and treatment concepts for GIST patients from the MITIGATE project****LEVEL I****Moderator:** S.O. Schönberg; Mannheim/DE

- » **Introduction to the state-of-the-art therapy in GIST**
P. Hohenberger; Mannheim/DE
- » **Improving the diagnostic imaging approach in GIST patients**
C. Decristoforo; Innsbruck/AT
- » **Minimally invasive treatment of GIST patients in a compassionate use programme**
S. Diehl; Mannheim/DE
- » **Impact of the MITIGATE project on European GIST patients**
A. Bruno-Lindner; Vienna/AT
- » **Discussion**

ESHI SESSION

(European Society
for Hybrid Medical Imaging)**4**
March **Saturday, March 4, 08:30–10:00, Room M 2****Hybrid imaging:****case-based diagnosis in PET/CT****LEVEL II****Moderator:** K. Nikolaou; Tübingen/DE

- » **FDG-indications in oncology: case-based**
K. Riklund; Umeå/SE
- » **Non-FDG-indications in oncology: case-based**
O. Ratib; Geneva/CH
- » **Pitfalls in PET/CT: case-based**
G. Antoch; Düsseldorf/DE

JOINT SESSIONS

ESOR SESSION

(European School of Radiology)

ESR AUDIT AND STANDARDS SESSION

2
March

Thursday, March 2, 14:00-15:30, Room M 3

How to gain and maintain quality education in radiology

LEVEL II

Moderators: N. Gourtsoyiannis; Athens/GR
P.M. Parizel; Antwerp/BE

- » **Introduction**
P.M. Parizel; Antwerp/BE
- » **ESOR in action 2017**
N. Gourtsoyiannis; Athens/GR
- » **How to improve education in radiology**
S.J. Golding; Oxford/UK
- » **Feeling confident? Evaluating competencies**
O. Kolokythas; Winterthur/CH
- » **Lifelong learning: stay sharp in the field of radiology**
B. Ertl-Wagner; Munich/DE
- » **Find your mentor and stick together**
C.A. Minoiu; Bucharest/RO
- » **Awards**

2
March

Thursday, March 2, 08:30-10:00, Room M 2

How (Euro)safe is your department?

LEVEL I

Moderator: B.E. Kelly; Belfast/UK

- » **Audit and raising the standard: the role of audit in 2017**
M.F.J. Ryan; Cork/IE
- » **Auditing the auditors: safe doctors in safe departments**
G. Paulo; Coimbra/PT
- » **Audit: what a regulator needs to know**
S. Ebdon-Jackson; Didcot/UK
- » **Audit and the patient journey**
E. Briers; Hasselt/BE
- » **Panel discussion: Can an auditless department prove that its a safe department?**

JOINT SESSIONS

ESR PATIENT ADVISORY GROUP (ESR-PAG) SESSIONS

4
March

Saturday, March 4, 10:30-12:00, Room L 8

ESR-PAG 1 Improving patient safety and quality of care in clinical radiology **LEVEL II+III**

- » **Chairmen's introduction**
N. Bedlington; Vienna/AT
B.E. Kelly; Belfast/UK
- » **The work of the ESR Audit & Standards
Subcommittee in collaboration with ESR-PAG**
B.E. Kelly; Belfast/UK
- » **Patients' perspective**
D. Walsh; Dublin/IE
E. Briers; Hasselt/BE
- » **Example of good practice: implementing a patient
satisfaction questionnaire in your radiology
department**
D.-G. Carrié; Toulouse/FR
- » **Panel discussion: Does your department perform well
in patient-centred care?**

4
March

Saturday, March 4, 16:00-17:30, Room L 8

ESR-PAG 2 Big data - data management, standardisation, access and protection: the way forward in developing personalised/ precision medicine **LEVEL II+III**

- » **Chairmen's introduction**
N. Bedlington; Vienna/AT
B. Brkljačić; Zagreb/HR
- » **European developments within data management,
standardisation, access and protection**
P. Mildenerger; Mainz/DE
- » **Patients' point of view**
N. Bedlington; Vienna/AT
E. Briers; Hasselt/BE
- » **Current US status pros & cons and issues**
J.A. Brink; Boston, MA/US
- » **Panel discussion: Importance of data management
in modern medicine - what are the main issues to be
addressed?**

ESR WORKING GROUP ON ULTRASOUND SESSIONS

1
March
Wednesday, March 1, 08:30-10:00, Room Z
**WG 1 Ultrasound of the lung parenchyma:
a diagnostic tool for the paediatric
radiologist or for the clinician? LEVEL II**
Moderator: C. Owens; London/UK

- » **How I perform and interpret lung parenchymal ultrasound**
M. Riccabona; Graz/AT
- » **How does lung parenchymal ultrasound change the clinical management of the sick child: the paediatric radiologists perspective**
P. Tomà; Rome/IT
- » **How does lung parenchymal ultrasound change the clinical management of the sick child: the clinicians perspective**
L. Cattarossi; Udine/IT
- » **Panel discussion**

1
March
Wednesday, March 1, 16:00-17:30, Room Z
WG 2 Image fusion LEVEL II

- » **Chairmen's introduction:
Basic principles of image fusion**
M. Bachmann Nielsen; Copenhagen/DK
L.E. Derchi; Genoa/IT
- » **Image fusion of the kidney**
M. Claudon; Vandoeuvre-les-Nancy/FR
D.A. Clevert; Munich/DE
- » **Image fusion of the liver**
G.H. Mostbeck; Vienna/AT
- » **Image fusion of the prostate**
D.A. Clevert; Munich/DE
- » **Panel discussion**

2
March
Thursday, March 2, 08:30-10:00, Room Z
**WG 3 Minimising the risk of cross infection:
how to keep patients safe
in ultrasound LEVEL I**

- » **Chairman's introduction**
M. Claudon; Vandoeuvre-les-Nancy/FR
- » **Risk of cross transmission of infection in ultrasound: current European practice (ESR survey results) and best practice recommendations prepared by the ESR US WG**
C. Nyhsen; Sunderland/UK
- » **Comments from the ESR Patient Advisory Group regarding infection control practice in Europe**
J. Birch; Poole/UK
- » **Comments from industry representation**
N. Denjoy; Brussels/BE
- » **Panel discussion: How can safer practice be achieved?**

2
March
Thursday, March 2, 16:00-17:30, Room Z
**WG 4 Simulation training
in ultrasound LEVEL I**

- Moderators:** M. Bachmann Nielsen; Copenhagen/DK
V. Cantisani; Rome/IT
- » **How to evaluate simulation training**
L. Konge; Copenhagen/DK
 - » **Different ultrasound simulators for different purposes**
N.N.
 - » **US simulation training in student education**
R. Badea; Cluj-Napoca/RO
 - » **Experience with ultrasound simulators in training radiologists**
M.L. Østergaard; Copenhagen/DK
 - » **Panel discussion**

JOINT SESSIONS

EUROSAFE IMAGING SESSIONS

1
March **Wednesday, March 1, 16:00-17:30, Room M 1****EU 1 Clinical diagnostic reference levels****LEVEL II****Moderators:** G. Frija; Paris/FR
G. Simeonov; Luxembourg/LU

- » **Introduction**
G. Frija; Paris/FR
- » **Clinical diagnostic reference levels: from concept to impact in clinical practice**
R.W.R. Loose; Nürnberg/DE
- » **ICRP perspective: from methodological region-related DRLs to DRLs based on clinical indications**
E. Vaño; Madrid/ES
- » **EuroSafe Imaging clinical DRLs: an update of the Stars survey results**
P. Vock; Spiegel/CH
- » **EuroSafe imaging clinical DRLs in abdomino-pelvic CT**
W.W. Mayo-Smith; Boston, MA/US
- » **Panel and public discussion**

This session is part of the EuroSafe Imaging campaign.**2**
March **Thursday, March 2, 16:00-17:30, Room L 8****EU 3 European Alliance for Medical Radiation Protection Research (EURAMED)****LEVEL II****Moderators:** G. Frija; Paris/FR
C. Hoeschen; Magdeburg/DE

- » **Introduction of EURAMED**
C. Hoeschen; Magdeburg/DE
- » **Cardiovascular effects of radiations focused on breast cancer treated with radiation therapy**
W. Dörr; Vienna/AT
- » **Circulating biomarkers reflecting dose exposure**
R. Tamarat; Fontenay-aux-Roses/FR
- » **General physical principles used for optimisation**
G. Paulo; Coimbra/PT
- » **Dose distribution in interventional radiology**
H. Schlattl; Munich/DE

This session is part of the EuroSafe Imaging campaign.**2**
March **Thursday, March 2, 10:30-12:00, Room X****EU 2 Focus on appropriate image quality: what we have to know****LEVEL II****Moderator:** W. Stiller; Heidelberg/DE

- » **EuroSafe Imaging on "appropriate image quality": Introduction**
S.T. Schindera; Aarau/CH
- » **Metrics and methods for quantitative image quality determination: a physicist's perspective**
C. Hoeschen; Magdeburg/DE
- » **Balancing diagnostic image quality and radiation exposure in clinical routine: a radiologist's perspective**
H. Geijer; Örebro/SE
- » **Image quality assessment via model observers: connecting objective and subjective perspectives**
F.R. Verdun; Lausanne/CH
- » **Implementing a review process on image quality: experiences from a EuroSafe Imaging Star**
F. Deferme; Antwerp/BE

This session is part of the EuroSafe Imaging campaign.**3**
March **Friday, March 3, 14:00-15:30, Room M 1****EU 4 European CT dose repository****LEVEL II****Moderators:** J. Damilakis; Iraklion/GR
J.A. Brink; Boston, MA/US

- » **The technical implementation of dose tracking tools**
A. Torresin; Milan/IT
- » **How do dose tracking tools change the practice of radiographers?**
S.J. Foley; Dublin/IE
- » **How do dose tracking tools change the practice of radiologists?**
F. Zanca; Leuven/BE
- » **European CT Dose repository working group: summary of activities**
E. Neri; Pisa/IT
- » **The ACR Dose Index Registry**
W.W. Mayo-Smith; Boston, MA/US
- » **Questions and answers**

This session is part of the EuroSafe Imaging campaign.

JOINT SESSIONS

IMAGE INTERPRETATION QUIZZES

3
March

Friday, March 3, 16:00–17:30, Room M 1

EU 5 EuroSafe imaging stars**LEVEL II****Moderators:** L. Bonomo; Rome/IT
S. Ebdon-Jackson; Didcot/UK

- » **Value and limitations of the 'Is your Imaging EuroSafe' surveys**
L. Bonomo; Rome/IT
- » **Integration of the 'EuroSafe Imaging Clinical Audit Pack' in imaging departments**
B.E. Kelly; Belfast/UK
- » **Benchmarking: why, how and when?**
J. Hakumäki; Kuopio/FI
- » **The value of achieving star status**
D. Akata; Ankara/TR
- » **How to improve the EuroSafe imaging stars concept?**
L. Donoso; Barcelona/ES
- » **Improving the integration of radiation protection in the clinical setting**
G. Frija; Paris/FR



This session is part of the EuroSafe Imaging campaign.

3
March

Friday, March 3, 14:00–15:30, Room A

Image Interpretation Quiz (IIQ)**There's a patient behind every interesting case****Moderator:** J.M. García Santos; Murcia/ES**Panellists:**

- » **Musculoskeletal:**
N.N.
A. Blum; Nancy/FR
- » **Thorax:**
N.N.
N. Sverzellati; Parma/IT
- » **Abdomen:**
A. Torregrosa Andrés; Valencia/ES
I. Santiago; Lisbon/PT
- » **Neuro:**
K.-O. Løvblad; Geneva/CH
I.N. Pronin; Moscow/RU

4
March

Saturday, March 4, 12:55–13:55, Room A

Junior Image Interpretation Quiz (JIIQ)**Building our youth for the future****Moderator:** A. Snoeckx; Antwerp/BE

= Interactive session with electronic voting/self assessment

JOINT SESSIONS

PROFESSIONAL ISSUES AND ECONOMICS IN RADIOLOGY (PIER) SESSIONS

3
March

Friday, March 3, 10:30-12:00, Room M 2

PIER Session 1 **Improving efficiency in radiology departments**

LEVEL II

Moderators: J.A. Brink; Boston, MA/US
S. Morozov; Moscow/RU

- A. How to identify radiology productivity bottlenecks?**
S. Morozov; Moscow/RU
 - B. How to optimise radiology with big data: Medical Analytics Group (MAG) project**
O.S. Pinykh; Newton Highlands, MA/US
 - C. How to implement system changes?**
G. Paulo; Coimbra/PT
 - D. Making the business case for patient-centred imaging care**
N.N.
- » Panel discussion

3
March

Friday, March 3, 16:00-17:30, Room M 2

PIER Session 3 **Tailoring radiology departments towards patients' needs**

LEVEL II

Moderators: C.D. Becker; Geneva/CH
H. Hricak; New York, NY/US

- A. Visibility of radiology**
N.H. Strickland; London/UK
 - B. Outsourcing in radiology: costs and quality matters**
A. Giovagnoni; Ancona/IT
 - C. Demonstrating the added value of the radiologist: the European approach**
P.M.A. van Ooijen; Groningen/NL
 - D. Demonstrating the added value of the radiologist: the US/Canadian approach**
G. McGinty; New York, NY/US
- » Panel discussion

3
March

Friday, March 3, 14:00-15:30, Room M 2

PIER Session 2 **Perspectives on radiology equipment management**

LEVEL III

Moderators: B. Brkljačić; Zagreb/HR
P. Leander; Malmö/SE

- A. Renewal of equipment and procurement: central vs local procedures**
B. Brkljačić; Zagreb/HR
 - B. Utilisation of equipment: what is appropriate? The public healthcare system's perspective**
P. Leander; Malmö/SE
 - C. Utilisation of equipment: what is appropriate? The private healthcare system's perspective**
A. Palkó; Szeged/HU
 - D. Radiology: a cost factor? The hospital manager's perspective**
P. Garel; Brussels/BE
- » Panel discussion

JOINT SESSIONS WITH RELATED SOCIETIES

2
March
Thursday, March 2, 16:00-17:30, Room X
Joint Session of the ESR and EORTC
(European Organisation for Research and Treatment of Cancer)
Imaging biomarker and education for multicentre clinical oncological trials

LEVEL III

Moderators: N.M. deSouza; Sutton/UK
Y. Liu; Brussels/BE

- » **Imaging as primary endpoint in clinical trials: perspective of the EORTC**
Y. Liu; Brussels/BE
- » **Imaging biomarker for clinical trials in brain tumours**
M. Smits; Rotterdam/NL
- » **The importance of collaboration between the European Initiative on Biomarkers Alliance (EIBALL) and EORTC**
S. Trattinig; Vienna/AT
- » **Training possibilities for radiologists involved in clinical multicentre trials**
L.S. Fournier; Paris/FR

2
March
Thursday, March 2, 14:00-15:30, Studio 2017
Joint Session of the ESR and ERS
(European Respiratory Society)
Novel strategies in idiopathic interstitial pneumonia

LEVEL II

Moderators: K.M. Antoniou; Iraklion/GR
C.M. Schaefer-Prokop; Amersfoort/NL

- » **Updated clinical practice guidelines for classification**
A.U. Wells; London/UK
- » **CT patterns for classification**
N. Sverzellati; Parma/IT
- » **Updated clinical practice guidelines for treatment**
V. Poletti; Forli/IT
- » **CT and MRI for monitoring therapy response and inflammatory activity**
D.M. Hansell; London/UK

3
March
Friday, March 3, 14:00-15:30, Room M 4

Joint Session of the ESR and ESMRMB
(European Society for Magnetic Resonance in Medicine and Biology)
MR imaging biomarkers: what we have and what we need

LEVEL II

Moderators: D. Sappey-Marinier; Lyon/FR
M. Smits; Rotterdam/NL

- » **Preclinical MRI: multimodal markers for neuroscience drug discovery?**
M. von Kienlin; Basle/CH
- » **Clinical MRI: whole-body markers for cancer detection/response**
F. De Keyzer; Leuven/BE
- » **Molecular MRI: where are the limits for MRI biomarkers?**
L. Schröder; Berlin/DE

3
March
Friday, March 3, 08:30-10:00, Room X
Joint Session of the ESR and ESTRO
(European Society for Radiotherapy and Oncology)
Radiomics and imaging databases for precision radiation oncology

LEVEL III

- » **Chairmen's introduction**
K. Riklund; Umeå/SE
V. Valentini; Rome/IT
- » **Radiomics in radiology, what are the parameters of interest for different imaging modalities?**
H. Ahlström; Uppsala/SE
- » **Radiomics in radiotherapy: how is it used to personalise treatment and to predict toxicity and/or tumour control**
C. Gani; Tübingen/DE
- » **Uncertainties in imaging how they should be reported and propagated in prediction models using radiomics**
L.P. Muren; Aarhus/DK
- » **Imaging banks challenges and opportunities**
A. van der Lugt; Rotterdam/NL
- » **Discussion**



= Interactive session with electronic voting/self assessment

JOINT SESSIONS

JOINT SESSIONS WITH RELATED SOCIETIES

3
March **Friday, March 3, 16:00-17:30, Room M 5**

Joint Session of the ESR and the EANM
(*European Association of Nuclear Medicine*)
**Common diagnostic guidelines
on diabetic foot, osteomyelitis
and prosthetic joint infection**

LEVEL III

Moderators: V.N. Cassar-Pullicino; Oswestry/UK
A. Signore; Rome/IT

- » **Guidelines on diabetic foot complications**
A. Leone; Rome/IT
R.M. Chakravartty; London/UK
- » **Guidelines on osteomyelitis**
L.M. Sconfienza; San Donato Milanese/IT
A. Glaudemans; Groningen/NL
- » **Guidelines on prosthetic joint infection**
L.M. Sconfienza; San Donato Milanese/IT
A. Signore; Rome/IT

1
March **Wednesday, March 1, 16:00-17:30, Room L 8**

Joint Session of the ESR and UEMS
(*European Union of Medical Specialists*)

**ESR and UEMS:
a strong professional partnership**

LEVEL III

- » **Chairmen's introduction**
L. Bonomo; Rome/IT
P. Ricci; Rome/IT
- » **Structure of the UEMS and position of the UEMS
within EU**
B. Maillet; Brussels/BE
- » **Harmonising radiology training in Europe**
P. Ricci; Rome/IT
L. Oleaga Zufiría; Barcelona/ES
- » **Recognition of qualifications**
N.N.
E.J. Adam; London/UK
- » **Continuing professional development (CPD)**
M. Adriaensen; Heerlen/NL
D. Negru; Iasi/RO
- » **Questions**

3
March **Friday, March 3, 08:30-10:00, Room Z**

**Joint Session of the ESR Working Group
on Ultrasound with EFSUMB**
(*European Federation of Societies for
Ultrasound in Medicine and Biology*)
Hand held devices: a game changer?

LEVEL II

- » **Chairmen's introduction**
M. Claudon; Vandoeuvre-les-Nancy/FR
P.S. Sidhu; London/UK
- » **Reviewing the market**
M. Bachmann Nielsen; Copenhagen/DK
- » **Who can use the equipment and reimbursement**
R. Flesland Havre; Bergen/NO
- » **Appropriate training**
H. Prosch; Vienna/AT
- » **Ultrasound to train students**
V. Cantisani; Rome/IT
- » **Panel discussion: Hand held devices - should we be
happy or concerned?**



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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.

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Programmes to be announced.

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Programmes to be announced.



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E³ – Rising Stars Programme	M. Szczerbo-Trojanowska; Lublin/PL
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E3 – European Diploma Prep Sessions

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E³ – ECR Academies

Tips and Tricks in Liver, Bile Ducts and Pancreas Imaging	Y. Menu; Paris/FR
Spinal Imaging	E. Llopis; Valencia/ES,
	L. van den Hauwe; Antwerp/BE
Multiparametric Ultrasound (MPUS)	G.H. Mostbeck; Vienna/AT
Neuroradiology: from Morphology to Function	P.M. Parizel; Antwerp/BE
Interactive Teaching Sessions for Young (and not so Young) Radiologists	M.G. Mack; Munich/DE

CASES OF THE DAY

	M. Sánchez; Barcelona/ES
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IMAGE INTERPRETATION QUIZ

	J.M. García Santos; Murcia/ES
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JUNIOR IMAGE INTERPRETATION QUIZ

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 **K.M. Friedrich; Vienna/AT**

E³ – European Diploma Prep Sessions

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E³ – The Beauty of Basic Knowledge

A Survival Guide
 to Musculoskeletal Imaging **V. Cassar-Pullicino; Oswestry/UK**
 Chest Imaging **N. Howarth; Chêne-Bougeries/CH**

E³ – ECR Academies

Tips and Tricks in Liver,
 Bile Ducts and Pancreas Imaging **Y. Menu; Paris/FR**
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MINI COURSE

Joint Course of ESR and RSNA

(Radiological Society of North America):

Hybrid Imaging

..... **A. Drzezga; Cologne/DE**
 **K. Riklund; Umeå/SE**

MULTIDISCIPLINARY SESSIONS

Bone tumours **A.M. Davies; Birmingham/UK**
 Virtual autopsy imaging the role of pathologist
 vs radiologist: one big happy family? **C. Owens; London/UK**
 Brain malfunction: MRI and PET
 in the diagnosis of psychiatric disorders **T.A. Yousry; London/UK**
 Transcatheter aortic valve implantation **A. Cribier; Rouen/FR**

PROS AND CONS SESSION

Providing an effective ultrasound service:
 how and by whom? **L. Derchi; Genoa/IT**
 **V. Gibbs; Bristol/UK**

CLINICAL TRIALS IN RADIOLOGY

..... **M. Dewey; Berlin/DE**