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ANNUAL REPORT 2022

ESOR EUROPEAN SCHOOL
OF RADIOLOGY

ESR EUROPEAN SOCIETY
OF RADIOLOGY

EDUCATION IN PARTNERSHIP

EDUCATION IN PARTNERSHIP



Thank you!

REVIEW 2022



Dear Colleagues,

ESOR has already completed sixteen rewarding years of uninterrupted commitment and continuous investment in radiological education in Europe and worldwide.

Despite the challenges that the COVID-19 pandemic has brought, ESOR continues to utilize the benefits of online education while offering opportunities for on-site learning when possible.

I am happy that ESOR online activities have proven to be very successful, and we are slowly gaining the chance for face-to-face interaction. This year, ESOR made the best out of both learning formats to adequately respond to the needs of radiologists around the world.

During 2022, ESOR has delivered training to residents and board-certified radiologists by offering 12 Foundation courses. The situation regarding travel restrictions improved this year, so the long-standing AIMS Mexico course on the topic of Cardiovascular Imaging was successfully held on-site in June, followed by an on-site Visiting Professorship in Armenia on Neuroradiology the same month. A third on-site course was held in Bulgaria in November on the topic of Abdominal Oncology.

The traditional Graz Tutorial was finally back this year, 12 participants from Eastern European countries spent one week gaining practical and theoretical knowledge at the department of Radiology of the University of Graz. In addition, it was followed by an Asklepios Course on Breast Imaging which was also held in Graz, Austria.

ESOR was also very happy to be able relaunch the ESOR Visiting Scholarship Programme Europe with the kind support of Bracco as well as the ESOR Exchange Programme for Fellowships in cooperation with the respective ESR Subspecialty and Allied Sciences Societies.

ESOR would like to express its appreciation for the unlimited support of its friends, lecturers, training centres, host organizers, national societies, and industry partners. We thank them for their belief in lifelong learning, ESOR is greatly indebted to them all.

In this report, all activities of 2022 are presented.

Professor Valérie Vilgrain
ESOR Scientific/Educational Director

ESOR STEERING COMMITTEE

July 2022 – July 2023

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Katrine Riklund, Umeå/SE

Andrea Rockall, London/UK

Valentin Sinitsyn, Moscow/RU

Johan Van Goethem, Antwerp/BE

ESNR European Course of Neuroradiology

Carlo Cosimo Quattrocchi, Rome/IT

ESMRMB School of MRI

Kai Vilanova, Girona/ES

ESMRMB School of MRI

FOUNDATION COURSES

In 2022, ESOR organized 12 **online Foundation Courses** dealing with specific topics adhered to the European Training Curriculum, level I-II.

Each course includes topics consisting of theory and case presentations followed by Q&A sessions for interaction with the faculty members.

The ESOR Foundation Courses are aimed at residents in their 4th and 5th year of training in radiology and recently board-certified radiologists.

CME credits are available for each live streamed course.



LEVEL I-II

CARDIAC IMAGING

January 19, 2022
Online on ESR Connect

Topics and Faculty:

Coronary plaques: morphology, stenosis and beyond – practical recommendations (CT)
R. Salgado, Antwerp/BE

Functional imaging in CAD; how and why to stress the heart (CT/MR)
M. Francone, Milan/IT

Acute Chest Pain: coronaries and myocardium (CT/MR)
C. Loewe, Vienna/AT

The multifaceted nature of myocardial inflammation: infection, inflammation and cardio-toxicity (MR)
R. Salgado, Antwerp/BE

The enlarged right ventricle: differentials
M. Francone, Milan/IT

Valvular imaging: an introduction (CT/MR)
C. Loewe, Vienna/AT

Number of participants: 147

Country Statistics

Romania 19, Switzerland 16, Austria 13, Germany 13, Belgium 10, Spain 7, Poland 6, Netherlands 5, Slovakia 5, United Kingdom 5, Greece 5, India 4, Italy 3, Portugal 3, Finland 2, South Africa 2, Lithuania 2, Norway 2, Thailand 2, Egypt 2, Estonia 1, Korea, Republic of 1, Albania 1, Jamaica 1, Serbia 1, Denmark 1, Turkey 1, Pakistan 1, Czech Republic 1, Latvia 1, Nigeria 1, Hong Kong 1, Canada 1, Hungary 1, Bulgaria 1, Viet Nam 1, Ireland 1, Russian Federation 1, Oman 1, Singapore 1

FOUNDATION Courses

LEVEL I-II

HYBRID IMAGING

February 9, 2022

Online on ESR Connect

Topics and Faculty:

Introduction to hybrid imaging

K. Riklund, Umeå/SE

Hybrid imaging of the breast: local and whole-body

L. Umutlu, Essen/DE

Colorectal

K. Riklund, Umeå/SE

Hybrid imaging of the pelvis

L. Umutlu, Essen/DE

Prostate

K. Riklund, Umeå/SE

Oncology from A to Z

T. L. Umutlu, Essen/DE

Number of participants: 203

Country Statistics

Romania 18, Switzerland 17, Spain 16, Austria 10, Netherlands 10, Ukraine 10, Germany 9, United Kingdom 8, Poland 7, Portugal 7, Slovakia 5, India 4, Lithuania 4, Moldova, Republic of 4, Belgium 3, Egypt 3, Georgia 3, Greece 3, Norway 3, Pakistan 3, Serbia 3, Singapore 3, Croatia 2, Czech Republic 2, Denmark 2, Finland 2, France 2, Ireland 2, Kazakhstan 2, Latvia 2, Mexico 2, Philippines 2, Sweden 2, Albania 1, Armenia 1, Bolivia 1, Brunei Darussalam 1, Bulgaria 1, Canada 1, Chile 1, Cyprus 1, Estonia 1, Honduras 1, Hong Kong 1, Iraq 1, Italy 1, Jordan 1, Kenya 1, Kosovo, Republic of 1, Libyan Arab Jamahiriya 1, Nepal 1, Oman 1, Qatar 1, Russian Federation 1, Sao Tome and Principe 1, Saudi Arabia 1, Slovenia 1, Turkey 1, United States 1, Uruguay 1, Viet Nam 1



LEVEL I-II

MEDICAL IMAGING INFORMATICS

March 30, 2022

Online on ESR Connect

Topics and Faculty:

DICOM, HL7, IHE: from zero to hero

F. Zanca, Leuven/BE

Knowing the rules: from GDPR to MDR

F. Zanca, Leuven/BE

Information systems used by Radiology

D. Pinto dos Santos, Cologne/DE

Communicating image results: from structured reporting to ontologies

D. Pinto dos Santos, Cologne/DE

Working with image data: from postprocessing to segmentations

E. Kotter, Freiburg/DE

CAD, Radiomics, AI and beyond

E. Kotter, Freiburg/DE

Number of participants: 164

Country Statistics

Switzerland 17, Spain 16, Ukraine 15, Netherlands 11, Austria 9, United Kingdom 9, Romania 8, Greece 7, Germany 6, Poland 5, Slovakia 5, Belgium 4, Latvia 4, Norway 4, Australia 3, France 3, India 3, Portugal 3, Czech Republic 2, Finland 2, Slovenia 2, South Africa 2, Brazil 1, Bulgaria 1, Denmark 1, Egypt 1, Georgia 1, Guatemala 1, Hong Kong 1, Iraq 1, Japan 1, Kazakhstan 1, Korea, Republic of 1, Libyan Arab Jamahiriya 1, Lithuania 1, Moldova, Republic of 1, Oman 1, Russian Federation 1, Rwanda 1, Sweden 1, Thailand 1, Turkey 1, Uganda 1, United States 1, Uzbekistan 1, Venezuela 1



FOUNDATION Courses

LEVEL I-II

HEAD AND NECK RADIOLOGY

March 30, 2022

Online on ESR Connect

Topics and Faculty:

US Imaging of thyroid gland: the essential

A.Germano, Amadora/PT

Imaging of parathyroid gland

A.Germano, Amadora/PT

Imaging of TMJ: techniques and reporting

S. Robinson, Vienna/AT

Disorders of the teeth: a reasoned reporting

S. Robinson, Vienna/AT

CBCT in Head and Neck Imaging: when & how

R. Maroldi, Brescia/IT

Maxillo-facial trauma: key points for imaging

R. Maroldi, Brescia/IT

Number of participants: 254

Country Statistics

Romania 23, Ukraine 21, Switzerland 20,
Spain 19, Netherlands 18, United Kingdom 14,
Austria 13, Belgium 10, Germany 9, Greece 9,
Slovakia 6, Finland 6, Moldova, Republic of 6,
Poland 5, Turkey 4, United States 4, Latvia 4,
Czech Republic 3, Lithuania 3, Philippines 3,
Italy 3, Norway 3, Saudi Arabia 3, Egypt 3,
South Africa 2, Portugal 2, Denmark 2, Australia 2,
France 2, India 2, Bulgaria 2, Thailand 2, Singapore 2,
Croatia 2, Japan 1, Libyan Arab Jamahiriya 1,
United Arab Emirates 1, Cyprus 1, Slovenia 1,
Albania 1, Rwanda 1, Sweden 1, Serbia 1, Iraq 1,
Israel 1, Brazil 1, Malaysia 1, Hong Kong 1, Georgia 1,
Viet Nam 1, Ireland 1, Chile 1, Guatemala 1,
Russian Federation 1, Oman 1, Uzbekistan 1



LEVEL I-II

CHEST IMAGING

April 6, 2022

Online on ESR Connect

Topics and Faculty:

US Imaging of thyroid gland: the essential

A.Germano, Amadora/PT

Imaging of parathyroid gland

A.Germano, Amadora/PT

Imaging of TMJ: techniques and reporting

S. Robinson, Vienna/AT

Disorders of the teeth: a reasoned reporting

S. Robinson, Vienna/AT

CBCT in Head and Neck Imaging: when & how

R. Maroldi, Brescia/IT

Maxillo-facial trauma: key points for imaging

R. Maroldi, Brescia/IT

Number of participants: 275

Country Statistics

Switzerland 24, Romania 24, Ukraine 21,
United Kingdom 18, Netherlands 16, Spain 14,
Austria 13, Greece 9, Belgium 9, Slovakia 7,
Moldova, Republic of 7, Latvia 6, Germany 6,
Poland 5, Norway 5, Ireland 5, United States 4,
South Africa 4, Portugal 4, Finland 4, Bulgaria 4,
Lithuania 3, India 3, Egypt 3, Denmark 3,
Czech Republic 3, Australia 3, Viet Nam 2,
United Arab Emirates 2, Turkey 2, Thailand 2,
Slovenia 2, Singapore 2, Serbia 2, Philippines 2,
Iraq 2, Georgia 2, Croatia 2, Chile 2, Brazil 2,
Bosnia and Herzegovina 2, Albania 2, Sweden 1,
Saudi Arabia 1, Rwanda 1, Russian Federation 1,
Palestinian Territory 1, Pakistan 1, Oman 1,
Nigeria 1, Mexico 1, Libyan Arab Jamahiriya 1, Italy
1, Israel 1, Hong Kong 1, France 1, Estonia 1, Cyprus
1, Canada 1



FOUNDATION Courses

LEVEL I-II

BREAST IMAGING

May 18, 2022

Online on ESR Connect

Topics and Faculty:

Structured reporting with BIRADS

I. Thomassin-Naggara, Paris/FR

Risk-based breast screening

S. Vinnicombe, Cheltenham/UK

The digital revolution in mammography

T. Helbich, Vienna/AT

Ultrasound of the breast: from diagnosis to therapy monitoring

I. Thomassin-Naggara, Paris/FR

MRI of the breast: when and how?

T. Helbich, Vienna/AT

Breast interventions: a primer

S. Vinnicombe, Cheltenham/UK

Number of participants: 231

Country Statistics

Switzerland 27, Romania 22, Ukraine 20, Spain 17, Netherlands 12, Austria 12, Greece 10, United Kingdom 9, Belgium 7, Slovakia 5, Poland 5, Portugal 4, Moldova, Republic of 4, Slovenia 3, Russian Federation 3, Latvia 3, Ireland 3, Germany 3, France 3, Finland 3, Estonia 3, Egypt 3, Denmark 3, Czech Republic 3, Bulgaria 3, Singapore 2, Serbia 2, Nigeria 2, India 2, Georgia 2, Croatia 2, Viet Nam 1, Uzbekistan 1, United Arab Emirates 1, Uganda 1, Turkey 1, Thailand 1, Sweden 1, South Africa 1, Senegal 1, Rwanda 1, Philippines 1, Pakistan 1, Oman 1, Norway 1, New Zealand 1, N/A 1, Malta 1, Lithuania 1, Libyan Arab Jamahiriya 1, Iraq 1, Hong Kong 1, Guatemala 1, Cyprus 1, Chile 1, Canada 1, Bosnia and Herzegovina 1, Bangladesh 1, Australia 1



LEVEL I-II

NEURORADIOLOGY

June 15, 2022

Online on ESR Connect

Topics and Faculty:

Brain tumours

P. Sundgren, Lund/SE

Acute stroke

S. Van Cauter, Genk/BE

Spinal cord lesions

M. Thurnher, Vienna/AT

Brain Trauma

P. Sundgren, Lund/SE

Inflammatory and infectious brain lesions, incl. MS

M. Thurnher, Vienna/AT

Degenerative spine

S. Van Cauter, Genk/BE

Number of participants: 297

Country Statistics

Ukraine 30, Switzerland 30, Spain 21,
United Kingdom 21, Romania 21, Netherlands 15,
Austria 12, Germany 12, Poland 8, Belgium 7,
Australia 7, Slovakia 7, Greece 6, South Africa 5,
Latvia 5, Czech Republic 4, Lithuania 4, Finland 4,
United States 4, Slovenia 4, Norway 4, Turkey 3,
Denmark 3, Estonia 3, Croatia 3, Egypt 3, Bulgaria 3,
France 3, Thailand 3, Ireland 3, Russian Federation 2,
Moldova, Republic of 2, Albania 2, Nigeria 2, India 2,
Argentina 2, Serbia 2, Philippines 1, Japan 1, Cyprus 1,
Uruguay 1, Malaysia 1, Rwanda 1, Hungary 1, Jordan 1,
Bosnia and Herzegovina 1, Saudi Arabia 1, Pakistan 1,
Hong Kong 1, Peru 1, United Arab Emirates 1,
Georgia 1, Italy 1, Uganda 1, Viet Nam 1, Chile 1,
Mexico 1, Portugal 1, Oman 1, Ghana 1, Singapore 1



FOUNDATION Courses

LEVEL I-II

INTERVENTIONAL RADIOLOGY

June 29, 2022

Online on ESR Connect

Topics and Faculty:

Vascular intervention III – venous and HD shunts

R. Scherthaner, Vienna/AT

Compression / closure techniques, dedicated devices and cases

M. de Bucourt, Berlin/DE

Non-vascular intervention I (chest, GI, hepatobiliary)

R. Scherthaner, Vienna/AT

Non-vascular intervention II

(genito-urinary incl. renal transplant, MSK)

M. de Bucourt, Berlin/DE

Interventional oncology I – percutaneous

R. Scherthaner, Vienna/AT

Interventional oncology II – endovascular

M. de Bucourt, Berlin/DE

Number of participants: 94

Country Statistics

Netherlands 11, Ukraine 10, Switzerland 9, Spain 8, Austria 4, Romania 6, United Kingdom 5, Latvia 3, Australia 2, Czech Republic 2, Ireland 2, Poland 2, Singapore 2, Slovenia 2, Albania 1, Belgium 1, Bosnia and Herzegovina 1, Croatia 1, Denmark 1, Egypt 1, Finland 1, France 1, Germany 1, Greece 1, Hong Kong 1, India 1, Kenya 1, Libyan Arab Jamahiriya 1, Mexico 1, Moldova, Republic of 1, Norway 1, Pakistan 1, Peru 1, Portugal 1, Rwanda 1, Serbia 1, Slovakia 1, Sweden 1, Uzbekistan 1



LEVEL I-II

PAEDIATRIC RADIOLOGY

September 7, 2022
Online on ESR Connect

Topics and Faculty:

Imaging the fetal brain

I. Mannes, Paris/FR

Imaging the “neglected cerebellum” in neonates

M.I. Argyropoulou, Ioannina/GR

Imaging skeletal trauma in children

K. Rosendahl

CNS imaging in “shaken baby syndrome”

I. Mannes, Paris/FR

Tips and tricks in imaging epilepsy in children

M.I. Argyropoulou, Ioannina/GR

Imaging the hip in children

K. Rosendahl, Bergen/NO

Number of participants: 215

Country Statistics

Romania 18, Switzerland 17, Ukraine 16,
United Kingdom 16, Netherlands 14, Germany 12,
Austria 9, Belgium 7, Greece 7, Slovakia 7, Spain 6,
Croatia 5, Latvia 5, Moldova, Republic of 5, Poland 5,
Portugal 5, Czech Republic 4, Finland 4, Norway 4,
Turkey 4, Egypt 3, France 3, South Africa 3,
Bulgaria 2, India 2, Libyan Arab Jamahiriya 2,
Serbia 2, Singapore 2, Slovenia 2, Thailand 2,
United States 2, Bosnia and Herzegovina 1,
Colombia 1, Estonia 1, Georgia 1, Hong Kong 1,
Ireland 1, Italy 1, Lithuania 1, Niger 1, Oman 1,
Pakistan 1, Peru 1, Russian Federation 1, Rwanda 1,
Sweden 1, Uganda 1, United Arab Emirates 1,
Uzbekistan 1, Viet Nam 1



FOUNDATION Courses

LEVEL I-II

UROGENITAL RADIOLOGY

October 12, 2022

Online on ESR Connect

Topics and Faculty:

Anatomical variations, inflammation and stones of the urinary tract

N. Grenier, Bordeaux/FR

Adrenal masses: characterisation and differential diagnosis

G. Villeirs, Ghent/BE

Malignancy of the upper tracts and bladder

J. Richenberg, Seaford/UK

Characterisation of renal masses

N. Grenier, Bordeaux/FR

Prostate gland: benign and malignant appearances

G. Villeirs, Ghent/BE

Scrotal appearance: masses and emergencies

J. Richenberg, Seaford/UK

Number of participants: 259

Country Statistics

Netherlands 26, United Kingdom 18, Ukraine 18, Romania 18, Belgium 15, Spain 14, Switzerland 14, Austria 12, Greece 10, Ireland 8, Poland 8, Slovakia 6, Latvia 6, Germany 5, Republic of Moldova 5, Finland 4, Turkey 4, Denmark 4, India 4, Egypt 4, France 4, Czech Republic 3, South Africa 3, Thailand 3, Portugal 3, Sweden 3, Lithuania 2, Libya 2, Australia 2, United States of America 2, Slovenia 2, Norway 2, Serbia 2, Hungary 2, Bulgaria 2, Philippines 1, Niger 1, United Arab Emirates 1, Estonia 1, Uruguay 1, Albania 1, Rwanda 1, Nigeria 1, Hong Kong (SAR of China) 1, Brazil 1, Viet Nam 1, Chile 1, Croatia 1, Russian Federation 1, Oman 1, Italy 1, Argentina 1, Singapore 1



LEVEL I-II

ABDOMINAL IMAGING

November 9, 2022
Online on ESR Connect

Topics and Faculty:

Imaging of solid pancreatic masses

R. Albazaz, Leeds/UK

Imaging of cystic pancreatic masses

M. Pezzullo, Brussels/BE

Imaging of abdominal non-traumatic emergencies

R. Cannella, Palermo/IT

Imaging of benign biliary diseases

R. Albazaz, Leeds/UK

Imaging of malignant biliary diseases

M. Pezzullo, Brussels/BE

Imaging of peritoneal and retroperitoneal masses

R. Cannella, Palermo/IT

Number of participants: 278

Country Statistics

Switzerland 23, Netherlands 22, United Kingdom 21,
Romania 18, Ukraine 18, Spain 15, Belgium 14,
Austria 12, Germany 11, Greece 7, Ireland 7,
Slovakia 7, Poland 6, Finland 5, France 5,
Slovenia 5, Sweden 5, Egypt 4, Portugal 4,
Turkey 4, Czech Republic 3, Denmark 3, Latvia 3,
Lithuania 3, Moldova, Republic of 3, Norway 3,
Serbia 3, United States of America 3, Argentina 2,
Bulgaria 2, Canada 2, Colombia 2, Croatia 2,
Georgia 2, India 2, Italy 2, South Africa 2,
Thailand 2, United Arab Emirates 2, Albania 1,
Australia 1, Brazil 1, Chile 1, Estonia 1,
Hong Kong (SAR of China) 1, Kenya 1, Libya 1,
Malaysia 1, Mexico 1, Niger 1, Oman 1, Russian
Federation 1, Rwanda 1, Singapore 1, Uganda 1,
Uzbekistan 1, Viet Nam 1



FOUNDATION Courses

LEVEL I-II

MUSCULOSKELETAL RADIOLOGY

December 7, 2022

Online on ESR Connect

Topics and Faculty:

Shoulder – rotator cuff

Ü. Aydingöz, Ankara/TR

Elbow/ wrist/ hand

M. De Jonge, Utrecht/NL

Ankle

R. Fawcett, Leeds/UK

Shoulder – instability

Ü. Aydingöz, Ankara/TR

Trauma of the hip and pelvis:

‘simple’ hip fractures and beyond

M. De Jonge, Utrecht/NL

Spine

R. Fawcett, Leeds/UK

Number of participants: 306

Country Statistics

Switzerland 32, Netherlands 27, Ukraine 22,
United Kingdom 19, Romania 18, Austria 13,
Germany 12, Spain 12, Belgium 9, Greece 8,
Latvia 7, France 7, Ireland 6, Egypt 5, Poland 5,
Slovakia 4, Finland 4, South Africa 4, Denmark 4,
Croatia 4, Bulgaria 4, Moldova, Republic of 4,
Czech Republic 3, Estonia 3, Australia 3, Turkey 3,
United Arab Emirates 3, Portugal 3, Slovenia 3,
Norway 3, India 3, Italy 2, Chile 2, Lithuania 2,
Russian Federation 2, Philippines 2,
United States of America 2, Libya 2,
Bosnia and Herzegovina 2, Serbia 2, Thailand 2,
Peru 2, Sweden 2, Tunisia 1, Algeria 1, Cyprus 1,
Albania 1, Kosovo, Republic of 1, Canada 1,
Rwanda 1, Kenya 1, Korea, Republic of 1, Nigeria 1,
Bangladesh 1, Hong Kong (SAR of China) 1,
Colombia 1, Venezuela, Bolivarian Republic of 1,
Montenegro 1, Hungary 1, Uganda 1, Viet Nam 1,
Mexico 1, Georgia 1, Guatemala 1, Oman 1,
Argentina 1, Singapore 1







Greek: Ἀσκληπιός
Latin: Aesculapius

Asklepios (or Asclepius) was the God of Medicine and reputed ancestor of the Asklepiades, the ancient Greek doctors' guild.

Asklepios represents the healing aspect of medical arts. He had four daughters: Aglaa/Agle, goddess of natural beauty and fitness, Hygieia, goddess of disease prevention, Panacea, goddess of healing (literally, "all-healing"), and Iaso, goddess of recuperation from illness.

Healing temples and "sanctuaries" called Asclepieia became increasingly popular around 300 BC where pilgrims flocked to Asclepieia to be healed. Asclepius' most famous sanctuary was in Epidaurus. Another famous "asclepieion" was on the island of Kos where Hippocrates, the legendary Father of Medicine, is said to have begun his career. Asklepios statues may be recognised by the presence of serpents.

ASKLEPIOS COURSES IN EUROPE

This year's programme included one ASKLEPIOS course, which was held on site and tailored to serve professional development by addressing recognised needs in the context of continuous radiologic education. It was held on October 19-21, 2022, in Graz, Austria on the topic of Breast Imaging. The course attracted 42 participants from 26 different countries.

The course was embedded as part of the traditional Graz tutorial, which was organised by the Medical University Graz under the chairmanship of Prof. M. Fuchsjäger and was supported by the ESR. The aim of the tutorial was to further the experience of young radiologists, residents in their last year of training and board-certified radiologists, in daily radiological practice through intense teaching and exchange in a European reference centre. The participants, 10 radiologists from were offered one week of practical and theoretical knowledge and the opportunity to be integrated in the activities of an academic department of radiology.

LEVEL I+II

BREAST IMAGING

October 19-21, 2022
Online on ESR Connect

Moderator:

R. Maroldi
Brescia/IT

Topics and Faculty:

Wednesday, October 19, 2022

Mammography – basics and interpretation

P. Clauser, Vienna/AT

Mammography screening – present and future

K. Pinker, New York/USA

Pearls and pitfalls of DBT

P. Clauser, Vienna/AT

Mammography – DBT cases

T. Helbich, Vienna/AT; P. Clauser, Vienna/AT

US performance and reporting

M. Fuchsjäger, Graz/AT

Cystic and complex lesions

P. Clauser, Vienna/AT

Artificial Imaging for Breast Imaging

R. Mann, Nijmegen/NL

ABUS in clinical practice

R. Mann, Nijmegen/NL

**Workshop: Handheld ultrasound and ABUS –
BI-RADS assessment and expert cases**

R. Mann, Nijmegen/NL; M. Fuchsjäger, Graz/AT

Thursday, October 20, 2022

MRI protocols

R. Mann, Nijmegen/NL

MRI reporting and BI-RADS

K. Pinker, New York/USA

MRI Screening

T. Helbich, Vienna/AT

MRI staging and monitoring

P. Clauser, Vienna/AT

Interactive MRI Workshop I

T. Helbich, Vienna/AT

Interactive MRI Workshop II

F. Kilburn-Toppin, Cambridge/UK

Contrast enhanced mammography (CEM)

P. Clauser, Vienna/AT

CEM workshop

P. Clauser, Vienna/AT; K. Pinker, New York/USA

ASKLEPIOS Courses

LEVEL I+II

BREAST IMAGING

October 19-21, 2022
Online on ESR Connect

Moderator:

R. Maroldi
Brescia/IT

Topics and Faculty:

Friday, October 21, 2022

US and stereotactic guided biopsy

F. Kilburn-Toppin, Cambridge/UK

MRI guided biopsy

K. Pinker, New York/USA

Minimal invasive therapy

M. Fuchsjäger, Graz/AT

US of the axilla

F. Kilburn-Toppin, Cambridge/UK

Hands-on ultrasound guided interventions I

R. Mann, Nijmegen/NL; K. Pinker, New York/USA;
P. Clauser, Vienna, AT; F. Kilburn-Toppin,
Cambridge/UK; M. Fuchsjäger, Graz/AT

Hands-on ultrasound guided interventions II

R. Mann, Nijmegen/NL; K. Pinker, New York/USA;
P. Clauser, Vienna, AT; F. Kilburn-Toppin,
Cambridge/UK; M. Fuchsjäger, Graz/AT

Number of participants: 42

Country Statistics

Albania 2, Armenia 2, Austria 1, Bahrain 1,
Bosnia and Herzegovina 1, Bulgaria 2, Croatia 1,
France 1, Georgia 2, Greece 1, Hungary 2, Ireland 2,
Jordan 1, Kazakhstan 2, Lithuania 1, Netherlands 1,
Peru 1, Poland 4, Portugal 1, Romania 6, Serbia 1,
Slovakia 1, Slovenia 1, Spain 1, Turkey 1,
United Kingdom 2





INTERNATIONAL COURSES

AIMS SEMINARS

The Advanced Imaging Multimodality Seminars (AIMS) have been set up by ESOR to create educational links and exchange between the European Society of Radiology and national radiological societies outside of Europe. The AIMS programmes are aimed at board-certified radiologists. In 2022, ESOR held an on-site AIMS session which was held in partnership with the Mexican Federation of Radiology (FMRI) and the Mexican Society of Radiology (SMRI). The seminar had 129 participants. The seminar was made possible by an unrestricted educational grant from Bracco.



ADVANCED SEMINAR

Mexico 2022

LEVEL II

CARDIOVASCULAR IMAGING

June 15, 2022, Mexico City

June 17, 2022, Oaxaca

Host Organizers:

Dr. Nora E. Rodriguez Pedraza, Mexico City/MX

Dr. Marco Antonio Corres Castillo, Oaxaca/MX

Topics and Faculty:

**Cardiac and coronary anatomy:
from normal to pathological**

H. Goerne, Guadalajara/MX

**Cardiac MR in ischemic myocardial disease: basic
techniques and clinical applications**

A. Jacquier, Marseille/FR

Cardiac MR in non-ischemic cardiomyopathies

M. Francone, Milan/IT)

**Cardiac CT in coronary artery disease:
basic techniques and clinical Applications**

E. Kimura, Mexico City/MX

Imaging and Quantification of Carotid Diseases

C. Loewe, Vienna/AT

Cardiac CT in valvular heart disease

H. Alkadhi, Zurich/CH

Number of participants: 129

Country Statistics

Mexico 129

VISITING PROFESSORSHIP PROGRAMME

This Visiting Professorship Programme is aimed at general board-certified radiologists. It is designed as an intense one-day programme connected to a national congress.

The Visiting Professorships aim to improve access to radiological training and educational resources for aspiring physicians and scientists in less affluent regions in Europe, with the goal of ensuring better healthcare for future generations in those regions.

In 2022, ESOR held two Visiting Professorships. The first was held Yerevan, Armenia on the topic of Neuroradiology, and the second was held in Plovdiv, Bulgaria on the topic of Abdominal Oncology.



VISITING PROFESSORSHIP PROGRAMME

Armenia

LEVEL II+III

NEURORADIOLOGY

June 4, 2022
Yerevan, Armenia

Host Organizer:

Mr. Kostan Galumyan
Yerevan/AM

Topics and Faculty:

Imaging in Acute Stroke

S. Van Cauter, Holsbeek/BE

Infection and inflammation of the brain and spine

J. Boban, Novi Sad/RS

Brain Trauma

A. Krainik, Grenoble/FR

Imaging in cognitive decline

A. Krainik, Grenoble/FR

Brain Tumors

S. Van Cauter, Holsbeek/BE

The Degenerative Spine

J. Boban, Novi Sad/RS

Number of participants: 82

Country Statistics

Armenia 75, Kazakhstan 6, Russia 1

VISITING PROFESSORSHIP PROGRAMME

Bulgaria

LEVEL II+III

ABDOMINAL ONCOLOGY

November 3, 2022
Plovdiv, Bulgaria

Host Organizer:

Assoc. Prof. Dr. Nikoleta Traykova
Plovdiv/BG

Topics and Faculty:

Focal liver lesions: a multiphasic approach for detection and characterisation
G. Brancatelli, Palermo/IT

Liver metastases - Imaging according to the primary cancer
V. Vilgrain, Clichy/FR

Diagnosis and staging of pancreatic adenocarcinoma
A. Triantopoulou, Athens/GR

Hepatocellular carcinoma in the cirrhotic liver: how I approach it
G. Brancatelli, Palermo/IT

Imaging of cholangiocarcinoma
V. Vilgrain, Clichy/FR

Pancreatic adenocarcinoma: imaging after chemotherapy
C. Triantopoulou, Athens/GR

Number of participants: 119

Country Statistics

Bulgaria 111, Serbia 5, Greece 1, Italy 1, Slovakia 1







ESOR TRAINING PROGRAMMES

ESOR was very pleased to offer the below-mentioned training programmes in 2022:

EXCHANGE PROGRAMMES FOR FELLOWSHIPS

After a forced interruption due to the Covid-19 pandemic, ESOR was able to re-start also the ESOR Exchange Programmes for Fellowships in partnership with the respective European Subspecialty and Allied Sciences Societies in 2022. 30 recently board-certified radiologists had the possibility to pass modular training in their chosen subspecialty. The programmes included abdominal radiology (ESGAR – three fellows), breast radiology (EUSOBI – three fellows), cardiovascular radiology (ESCR – two fellows), head and neck radiology (ESHNR – three fellows), hybrid imaging (ESH^{MT} – one fellow) musculoskeletal radiology (ESSR – five fellows), neuroradiology (ESNR – five fellows), oncologic imaging (ESOI – one fellow), paediatric radiology (ESPR – three fellows), thoracic imaging (ESTI – two fellows), oncologic imaging (ESOR – one fellow) and urogenital radiology (2 fellows). In total, 216 young radiologists applied for the various topics.

NICHOLAS GOURTSOYIANNIS TEACHING FELLOWSHIP

The Nicholas Gourtsoyiannis Teaching Fellowship, established by the European Radiology Private Foundation in 2018, is aimed at radiologists with clinical and academic experience, who wish to enhance their teaching and training skills, by delivering lectures and undertaking interactive workshops in a foreign environment. The fellowship consists of two visits, at two different radiology departments and/or universities chosen by the fellow. At each site, the fellow is asked to deliver two lectures/workshops. The fellow must prepare different lectures/workshops for each of the hosting centres. Two grants were awarded in 2022.

ALEXANDER R. MARGULIS FELLOWSHIP

On the occasion of the 100th birthday of Prof. Alexander R. Margulis in 2021, a world-renowned radiologist and MRI expert, the European Society of Radiology (ESR) launched a new fellowship aimed at young radiologists from Eastern and South-Eastern Europe who recently completed their board certification or are about to complete their residency soon. Dedicated to the ground-breaking clinical and scientific achievements of Prof. Alexander R. Margulis, this fellowship provides applicants with a twelve-month training in clinical MRI as well as in planning, performing and publishing MRI research projects at the Department of Biomedical Imaging and Image-Guided Therapy at the Medical University of Vienna under the chairmanship of Prof. Christian J. Herold. One grant was awarded in 2022.

ONE-YEAR FELLOWSHIPS

In 2022, nine One-Year Fellowships were made available in cooperation with several renowned training centers throughout Europe. Within the framework of this programme, qualified radiologists are given a unique opportunity to enter competitive, thematic, structured and certified proper fellowships at major European reference centres, which are funding the programme. During 12 months of training the fellows are incorporated in the specific departments to work on a dedicated, detailed programme supervised by specialised academic tutors.

A special word of thanks goes to the highly esteemed academic training centres and tutors, who enabled more than 4,658 trainees to apply for these programmes over the past sixteen years.

VISITING SCHOLARSHIP PROGRAMME EUROPE

My experience



David Castanedo Vázquez

'Marqués de Valdecilla' University Hospital

Topic: Neuroradiology

Training centre: Addenbrooke's Hospital, Cambridge/United Kingdom

This training in Addenbrooke's Hospital has been useful to gain a general but profound and current review of the most essential knowledge of neuroradiology as a subspecialty. I have learned a lot about central nervous system tumours, in terms of diagnosis based on imaging, their most important imaging features, classification and also genetic/ molecular characteristics. I have dedicated a lot of time trying to learn about paediatric neuroimaging, and also head and neck imaging. But most importantly, it has enabled me to experience a full-immersion programme in another country, being able to compare the workflow of my home hospital to Addenbrooke's, and bringing home valuable skills.



Giulia Cundari

Sapienza University of Rome, Policlinico Umberto I, Rome/Italy

Topic: Cardiac Imaging

Training centre: University Hospital Zurich, Zurich/Switzerland

During my training period at the University Hospital of Zurich, I mainly focused on cardiac CT under the guidance of Prof. Hatem Alkadhi. I was involved in clinical activities, scientific manuscript preparation, and publication. I attended cardiac-CT and CT angiography examinations, studied the operating principles of photon-counting CT, and discussed cases with residents and prof. Alkadhi. I had the opportunity to be involved in several publications, mainly centred on CT imaging. People were welcoming and tried to involve me in all the activities that they performed, both formal and informal. It was a great experience.



Gianmarco Della Pepa

Sapienza Fondazione IRCCS Istituto Nazionale dei Tumori, Milan/Italy

Topic: Breast Imaging

Training centre: King's College Hospital, London/United Kingdom

I am incredibly honoured and grateful to the ESOR for awarding me this unique opportunity to participate in a three-month visiting scholarship program in Breast Imaging at the King's College Hospital in London. I was fortunate to be part of an incredible team of professionals led by Breast Imaging Director Dr Keshthra Satchithananda. I would like to express my sincere gratitude to the Breast Team for all the support, help and knowledge they generously provided me, and most importantly, for making me feel at home and part of their fantastic group from the very first moment. The colleagues I have met in this department are not only excellent doctors but also wonderful people I have the privilege of having as friends now and in the future. It has been a true honour for me to be a part of their team. During my training period, in addition to daily clinical practice activities, I had the opportunity to participate in teachings for residents, educational lectures and multidisciplinary meetings on a regular basis. Furthermore, I was involved in research projects in the Breast Cancer Screening field, and I also had the opportunity to give a public oral presentation on the updates of the EUSOBI guidelines. I would also like to express my deepest gratitude to Dr Annamaria Deganello, whose flawless organization makes this program possible every year for all King's College Hospital scholars. The entire training experience was crucial for my education, and I am genuinely grateful to have had this once-in-a-lifetime opportunity. The experience was unique and essential for broadening my horizons, settling into a new environment and culture, and gaining new perspectives on work and life. I would strongly encourage all my trainee colleagues to apply for such an exciting opportunity, particularly to choose King's College Hospital as a training centre.



Albert Domingo Senan

Hospital Universitario 12 de Octubre, Madrid/Spain

Topic: Musculoskeletal Radiology

Training centre: King's College Hospital, London/United Kingdom

Firstly, I would like to thank the ESOR for the opportunity they granted me to spend three months learning Musculoskeletal Radiology at King's College Hospital in London. I participated in multiple multidisciplinary meetings, reporting sessions, and daily teaching lectures during my stay there. I want to highlight the large number and variety of ultrasound-guided musculoskeletal interventional procedures performed there. I joined the list whenever I could and learned new approaches and recipes I was not used to. Above all, I would like to thank the people who treated me so well during my stay and took the time to teach me, especially the musculoskeletal radiology consultants who made me feel like a King's resident: Dr Meacock, Dr Constantinescu, Dr Batohi, Dr Barber, Dr Patel, and my tutor, Dr Elias. I would also like to thank Dr Deganello, the ESORs Scholars' coordinator, for her willingness and dedication. It has been one of the most enriching experiences of my radiology training so far, professionally and personally. I will never forget this rotation at King's.



Emma Dunne

Mater Misericordiae University Hospital, Dublin/Ireland

Topic: Interventional Radiology

Training centre: Vienna General Hospital/Medical University of Vienna, Vienna/Austria

I would like to express my gratitude to the ESOR and the staff of the department of interventional radiology in Vienna General Hospital. I had the pleasure of spending three months absorbed in the daily work of the department; attending clinical meetings and participating in a wide range of angiographic, hybrid and CT guided procedures. I was warmly welcomed by all members of staff, nobody was ever too busy to share their knowledge. During my time I was exposed to a wide range of pathologies and treatment approaches. I also had the opportunity to participate in clinical research. The opportunity to spend time fully focused on intervention while working in an unfamiliar healthcare system has been invaluable in informing my future career goals.



Selahattin Durmaz

Istanbul University, Istanbul School of Medicine, Istanbul/Turkey

Topic: Urogenital Radiology

Training centre: European Institute of Oncology, Milan/Italy

First and foremost, I am very grateful to ESOR for awarding me the opportunity to take part in a training period at one of the leading cancer centres in Europe. During the training period, I gained invaluable knowledge and experience in urogenital and oncological imaging. I had a chance to write my own reports under the supervision of specialists and attend weekly clinical case discussions, scientific meetings, and multidisciplinary tumour councils. This scholarship allowed me to get familiar with whole-body MR imaging, a new imaging technique for me. In addition, I was involved in an interesting ongoing study about multiparametric prostate MRI quality assessment scoring system. This scholarship was also beneficial for my personal development. It allowed me to experience living in a new environment and culture for three months. I sincerely thank my tutors, Prof. Petrelia Giuseppe and Dr Sarah Alessi, for their effort and willingness to share their knowledge and experience. I thank all other specialists, residents, and radiographers for their hospitality. I also would like to give a special thanks to Dr Fabio Zugni for his support during my entire stay. I strongly encourage all residents to apply for this outstanding scholarship program.



Mihaela Goicela

Carol Davila Central Military Emergency Hospital, Bucharest/Romania

Topic: Paediatric Radiology

Training centre: Sant Joan de Deu Children's Hospital, Barcelona/Spain

The ESOR / Bracco scholarship at SJD Children's Hospital was one of the most beneficial experiences in my residency. I had the expertise of a wonderful department fully available to me, and everyone, senior and junior attendings alike and fellow residents, was most welcoming towards me. I am incredibly grateful to Professor Barber, who took the time to get to know me and understand my interests and the areas in my training that I hoped to enrich. This scholarship allowed me to work in a dedicated centre among experts in paediatric musculoskeletal imaging and focus on the areas where I needed to improve. I also found the time to entertain my deep interest in neuroradiology with some remarkable teachers, who have shown me what kind of care and understanding one needs when looking at the developing brain. I look forward to putting all this to good use back home. I strongly recommend this scholarship to all enthusiastic radiology residents who are eager to learn. I can only wish for anyone to find the same welcoming, stimulating, and empowering atmosphere I was lucky to get in the Radiology Department of SJD Children's Hospital.



Miguel Ángel Gómez Bermejo

Hospital Universitario Ramón y Cajal, Madrid/Spain

Topic: CEUS

Training centre: King's College Hospital, London/United Kingdom

Thanks to the ESOR Scholarship, I have gotten to know how a real school of radiology is created. The school radiates dedication to a certain field, a vision of radiology, and a willingness to share and teach. This is invariably followed by the hunger and enthusiasm of the students, who will soon become teachers of others. This way, techniques and values are sown and grow exponentially, spreading worldwide. I would not be able to understand CEUS without guidance from Prof. Sidhu, Dr Deganello, Dr Sellars, Dr Yusuf and Dr Huang. I have been fortunate to be involved in this school for three months, and I plan to continue to be a part of it and pass on all that I have learnt from them.



Herrán De La Gala

Marqués de Valdecilla University Hospital, Santander/Spain

Topic: Head and Neck Radiology

Training centre: Pitié-Salpêtrière University Hospital, Paris/France

I applied for the Visiting Scholarship Programme, particularly interested in the “Head and Neck Radiology” discipline. I consider myself fortunate and grateful to have had the opportunity to benefit from this enriching experience. From the first day at the Pitié-Salpêtrière Hospital, I was warmly welcomed as a member of the radiology team. I have had the opportunity to learn Head and Neck Radiology at incredible levels. I have also been able to participate in research activities, multidisciplinary meetings, and scientific publications, and I was mentored in the submission of abstracts for the ECR 2023.



Andrea Horváth

University of Pécs Medical School, Pécs/Hungary

Topic: Emergency Radiology

Training centre: King's College Hospital, London/United Kingdom

I chose Emergency Radiology to improve and get feedback on my acute CT reporting skills which would make me more efficient during night shifts. In order to be able to write reports rather than observe, I completed the GMC registration. I had the opportunity to report many acute CT scans, including some less common traumas in Hungary (e.g., stabbing). I was also allowed to handle the incoming phone calls and to protocol the requested CT scans. The most significant advantage of the Scholarship was that I could practice reporting the types of scans to which I have limited access in my home country. Besides reporting, I attended multidisciplinary meetings where the clinicians discussed the management of each patient with the radiologists based on imaging findings. In the remaining time, I was working on research projects, one of which was in collaboration with another ESOR Scholar.



Ivona Jovanoska

City General Hospital '8th September', Skopje/North Macedonia

Topic: Neuroradiology

Training centre: Careggi University Hospital, Florence/Italy

I am a radiology resident at the City General Hospital '8th September' in Skopje, North Macedonia. It was a great honour to receive an acceptance letter to my application for a three-month training on Neuroradiology at the Careggi University Hospital in Florence as part of the ESOR Visiting Scholarship Programme 2022. I started my training in Neuroradiology in October and finished it at the end of December. I followed different sections of the department every month, including emergency, outpatient, and inpatient, and CT and MRI exams and scans dedicated to a particular ongoing study. In the beginning, I observed the reporting sessions. Very soon, I got involved in active mentored reporting with the help of other Italian residents and specialists. I ended my stay there with an incredible feeling of satisfaction. I learned new skills, which I will implement in my home department and develop further as a specialist radiologist.



Greta Jurkevičiūtė-Kucinskiene

Hospital of Lithuanian University of Health Sciences Kaunas Clinics, Kaunas/Lithuania

Topic: Cardiac Radiology

Training centre: King's College Hospital, London/United Kingdom

I participated in multiple activities with chest and cardiac radiologists in the radiology department. I prepared the preliminary reports for cardiac and chest CT scans and participated in discussions with my colleagues. I also attended MDTs and other meetings and worked alongside the radiology technicians to ensure the best image quality and lowest radiation dose for the patients. Additionally, I had a chance to join teaching activities, audit presentations and REALM meetings in the Hospital. Going abroad for a Scholarship allows you to see the cases you may not see in your country and learn different approaches and methods in daily practice. Learning from the best specialists strengthens your knowledge and gives ideas for improvements that can be made back home.



Alexandra Mesquita

Hospital do Divino Espírito Santo, Ponta Delgada/Portugal

Topic: Oncologic Imaging

Training centre: European Institute of Oncology (IEO), Milan/Italy

The ESOR Visiting Scholarship Program is an excellent opportunity to learn from the best radiologists in Europe. At IEO, I was involved in reporting sessions, department meetings and multidisciplinary boards. I learned state-of-the-art techniques and integrated research projects. I was encouraged to write the reports from the beginning, which greatly improved my experience and facilitated the learning process. All the people I worked with made me feel welcome and gave constant feedback, especially Dr Sarah Alessi, my tutor, and Dr Fabio Zugni, who made the endless work hours joyful. I highly recommend this program and the European Institute of Oncology to every resident interested in Oncologic Imaging. I am forever grateful for this experience.



Ksenija Mijović

University Clinical Centre of Serbia, Belgrade/Serbia

Topic: Abdominal Radiology

Training centre: Medical University of Graz, Graz/Austria

While at the Medical University Graz, I have significantly improved my understanding, knowledge, and experience in Abdominal Imaging. Most notably in MRI, with a particular focus on using a hepatospecific contrast agent in Hepatobiliary imaging. Additionally, I have broadened my knowledge in pelvic imaging, specifically in prostate and endometriosis. I benefited from the locally organised events, including ESOR Graz Tutorial and the “All about Liver” Symposium. For a brief period, I was in the Department of Interventional Radiology, which broadened my experience in diagnosing and treating various Abdominal conditions. I consider my time there an invaluable experience for my professional advancements. I am incredibly grateful to my wonderful mentor, Dr Emina Talakić, who made my time in Graz particularly valuable and interesting.



Silvia Pamparino

IRCCS Hospital San Martino, Genoa/Italy

Topic: Chest Radiology

Training centre: St Thomas' Hospital, London/United Kingdom

Training in one of the biggest NHS hospitals in the UK has allowed me to deal with complex clinical scenarios and work with very high-quality healthcare system standards. The training was very well structured, with a good balance of lung and cardiac imaging sessions and exciting discussions of the radiological cases. My tutor and other team colleagues were always keen to give me valuable daily feedback. I also attended 3 to 4 multidisciplinary meetings per week, which I found very enriching. I enjoyed being in a multicultural team with whom I established an entirely comfortable working relationship, sharing different working experiences and background knowledge.



Rita Bem Pina Prata

Hospital Dona Estefânia, Lisbon/Portugal

Topic: Paediatric Radiology

Training centre: Evelina London Children's Hospital, London/United Kingdom

I am pleased to report on my 3-month scholarship at the Evelina London Children's Hospital under the ESOR Visiting Scholarship Programme. I had been expecting this opportunity for the past two years, and I am very grateful to the European School of Radiology and Bracco for this life-changing opportunity. Being a final-year resident from Portugal with a particular interest in Paediatric Imaging since the beginning of my training, this scholarship was invaluable for improving my skills. The whole team made me feel very welcome, and everyone was invested in my training and learning and in providing the best experience during my scholarship. I was fully included in the daily clinical work. Also, I had the opportunity to learn more about how the UK system balances clinical, management, research, and educational roles, which I found very helpful for my future. I must also say that having been given this opportunity increased my self-confidence. The whole experience in a different country has enriched me in more than just a professional way. I hope for further encounters with the Evelina Hospital team at conferences and training events, and we will surely keep in touch.



Laura Segger

Charité Universitätsmedizin, Berlin/Germany

Topic: Abdominal Imaging

Training centre: King's College Hospital, London/United Kingdom

Overall, the ESOR Scholarship has been a great experience that broadened my horizons. I strongly encourage anyone who considers an application to go for it! I am very grateful to have been chosen as a Scholar by ESOR and am thankful for all the professional, academic, and personal support. Not only did I get to know a great training centre and gain detailed insight into their work, but the scholarship also presented a great networking opportunity, and I got to know all the consultants and registrars in my area of interest at King's College Hospital in London.



Arturs Shilovs

Riga East University Hospital, Riga/Latvia

Topic: Interventional Radiology

Training centre: University Hospital Freiburg, Freiburg/Germany

I am a 4th-year radiology trainee at Riga East University Hospital. From 26.09. until 23.12.2022, I spent three months at the Neuroradiology Department of the University Hospital of Freiburg. The department offers a broad spectrum of diagnostic neuroradiology, as well as interventional neuroradiology. Daily clinical life involves close collaboration with other clinicians, e.g., neurosurgeons and neurologists, with daily case discussions and multidisciplinary meetings. The main benefit was to be in a high-volume centre, with the possibility of seeing many cases, which we don't see every day in Latvia. Furthermore, all of cases were discussed from different specialist views. That allowed me to gain experience with the highly evidence-based, multidisciplinary approach.



Thiemo van Nijnatten

Federico II University Hospital, Naples/Italy

Topic: Breast Imaging and Hybrid Imaging

Training centre: Addenbrooke's Hospital, Cambridge/United Kingdom

For this training period, I have had a great honour and unique opportunity to visit Addenbrooke's Hospital, supported by the ESOR Scholarship programme 2022. During this visit, my clinical knowledge improved in both breast and hybrid imaging. I experienced a wonderful and safe environment to further develop as a future (nuclear) radiologist and, therefore, can recommend this training centre to any future ESOR scholar.



EXCHANGE PROGRAMME FOR FELLOWSHIPS

My experience



Nazimah Ab Mumin

Hospital Al-Sultan Abdullah UiTM, Selangor/Malaysia

Topic: Breast Imaging

Training centre: Radboud University Medical Centre, Nijmegen/Netherlands

The three months I spent at RadboudUMC in the Breast Imaging Unit was an inspiring and fruitful time for me. I had the opportunity to be a part of the team in breast imaging, interpreting, and performing image-guided procedures under the supervision and guidance of the breast radiologists there. I had first-hand experience participating in the tumour board discussions and meetings. The interaction with other staff and patients in RadboudUMC was also profoundly memorable. I will adopt the positive work ethic and camaraderie in the working environment at RadboudUMC to my local practice in Malaysia. Furthermore, this exposure is a steppingstone for future collaboration and continuous friendship.



Melis Bayakara Ulsan

Istanbul Training and Research Hospital, Istanbul/Turkey

Topic: Breast Imaging

Training centre: Medical University of Vienna, Vienna/Austria

During my Fellowship, I worked actively in the breast radiology clinic. I have seen advanced and complicated cases in the field of breast diseases, especially breast cancer. I contributed to the management and diagnosis of these cases. I gained a lot of experience in patient management and patient approach. I followed the biopsy and surgery results of many of my patients. I read the recommended resources about the cases we saw during the day. I attended the morning meeting between 07.30 and 08.00 every morning. We evaluated the mammographic, ultrasonographic and MR images of the patients who were on schedule. We used advanced imaging techniques such as tomosynthesis and contrast-enhanced mammography when necessary. We watched and learned the use of ultrasound-assisted, stereotactic, or MRI-guided biopsy techniques for diagnosis. We attended two different tumour councils held on Tuesdays and Wednesdays. During my research days, I had the opportunity to work on two different projects. Our meetings about the statistics and results of these studies, whose data entries have been completed, will continue with our tutors. We had the opportunity to access the recommended sources and further readings related to all these studies from the hospital system and library. I gained very useful experiences in statistics and article writing and improved my scientific thinking by working one-on-one with my tutors. Also, during my fellowship period, I attended a "Hands-on Breast MRI Workshop" held in our hospital and many online webinars. And I was also involved in writing an e-book chapter.



Alejandra Melissa Bonilla

National Institute of Cancer Diseases, Lima/Perú

Topic: Neuroradiology

Training centre: Vall d'Hebron University Hospital, Barcelona/Spain

Neuroradiology at the Vall d'Hebron University Hospital was an excellent experience for my career. The skills and knowledge I gained will significantly benefit my home institution. I have learned a lot about the organization, the delegation of functions, and sequencing in neuroradiological procedures. I have also learned a lot about interventional neuroradiology. Each report, procedure, and academic meeting has left me with much learning I hope to pass on to my colleagues when I return to Peru. I am very grateful to the ESOR/ESNR exchange program for achieving one of my first professional goals.



Iva Busic Pavlek

University of Zagreb, School of Medicine, Zagreb/Croatia

Topic: Oncological Imaging

Training centre: LMU Klinik und Poliklinik für Radiologie, Munich/Germany

I was honoured to receive the ESOR/ESOI fellowship in Oncologic Imaging. The learning experience at LMU München exceeded my expectations. Learning from such esteemed faculty has been an honour, and the Radiology Department made me feel more than welcome. I was exposed to a high volume of intriguing Oncological examinations daily and was able to improve my skills in oncologic radiology and learn new things. I have attended multidisciplinary meetings concerning Oncological pathology and seminars organized by the Department. I want to thank the entire Radiology Department in Großhadern, especially Prof. Ricke, Prof. Cyran, Prof. Kunz and PD Kazmiercak, for their advice and guidance. I can strongly recommend this experience to every radiologist interested in Oncologic Imaging.



Kalina Chupetlovska

University Hospital Saint Ivan Rilski, Sofia/Bulgaria

Topic: Abdominal Radiology

Training centre: The Netherlands Cancer Institute, Amsterdam/Netherlands

I am very grateful for the opportunity to spend three months at The Netherlands Cancer Institute. It allowed me to gain valuable experience observing the clinical work in the hospital and learning from the expertise of the department's talented, hard-working, and skilled team. At the same time, I was also able to participate in some of the research work at The Institute - this I found particularly beneficial since I have limited opportunities to do research of such quality in my own country. I leave Amsterdam with a head full of knowledge, inspiration, and new ideas that I can't wait to share with my colleagues at home.



Luisa Karen Cifuentes Gaitán

Fundación Santa Fe de Bogotá University Hospital, Bogota/Colombia

Topic: Musculoskeletal Radiology

Training centre: Chapel Allerton Hospital, Leeds/United Kingdom

I am deeply grateful to the ESOR/ESR and ESSR for allowing me to undertake further training in musculoskeletal radiology at Chapel Allerton Hospital. This training allowed me to participate in several activities with plenty of exposure to all aspects of both diagnostic and therapeutic work. It has been an excellent opportunity to improve my skills which are of great value to my radiology practice back in my home country. I want to express my gratitude to my tutor Dr Philip Robinson, who is not only a world-renowned radiologist but has also been an admirable professional for his ability to teach and enhance my educational experience by sharing his knowledge and expertise.



Anna d'Angelo

Fondazione Policlinico Universitario "A. Gemelli", IRCCS, Rome/Italy

Topic: Breast Imaging

Training centre: The Netherlands Cancer Institute, Amsterdam/Netherlands

During the training period, I was involved daily in research activities, supported by a dedicated team of engineers and physicists. I had the possibility to work on a very new topic in the field of the treatment of breast cancer. I also followed my tutor in their clinical practice, which included breast ultrasound, mammography, tomosynthesis, breast MRI and ultrasound- and stereotactic-guided biopsies, and I joined the multidisciplinary tumour board weekly meetings.



Ivana Dasic

University Children's Hospital, Belgrade/Serbia

Topic: Head and Paediatric Radiology

Training centre: UMC Utrecht/Wilhelmina Children's Hospital, Utrecht/Netherlands

During my stay at the UMC Utrecht, I have significantly improved and broadened my knowledge and experience in Paediatric Radiology, particularly in MRI, focusing on imaging for paediatric oncological patients. Furthermore, I have notably upgraded my understanding of Whole Body MRI (WB MRI), especially with DWIBS and its application in diagnosing paediatric diseases. I benefited from having the opportunity to attend meetings with haemato-oncologists every week at the Princess Maxima Centre, Oncology Paediatric Hospital. Besides observing my colleagues' work on all diagnostic modalities, I also participated in the department's daily work and wrote reports under the supervision of my mentor. Since the focus of my PhD is lymphoma, during my stay, I had the opportunity to write a paper on non-Hodgkin lymphomas that we intend to publish, which I will incorporate into my PhD as part of the research. I am incredibly grateful to my fantastic mentor, Prof. Rutger Jan Nievelstein, who has made my time in Utrecht exceptionally valuable and interesting. Participating in this fellowship program will further enhance my chances of becoming a better professional.



Enrique Alberto Espinosa Hernández

Hospital del Trauma, San Jose/Costa Rica

Topic: Musculoskeletal Radiology

Training centre: Amsterdam UMC, Amsterdam/Netherlands

My experience at the Amsterdam UMC was exceptional, and I am grateful for the opportunity to learn from such a talented and dedicated team. The training has enhanced my understanding of MSK pathology, improved my interpretation skills, and exposed me to advanced imaging techniques and management strategies. It has also provided me with a network of colleagues and friends who I will continue to collaborate with in the future. The skills and knowledge I gained during this training will immensely benefit my daily practice and my patients. I highly recommend the ESOR Fellowship in MSK Radiology at the Amsterdam UMC to other radiologists who are looking for a challenging and rewarding learning experience. I sincerely thank the fantastic MSK team at UMC that made me feel at home. I truly appreciate their hospitality, support, and friendship, and I will never forget this period of my life with great fondness.



Nevena Fileva

University Hospital Aleksandrovska, Sofia/Bulgaria

Topic: Neuroradiology

Training centre: G. Gaslini Children's Hospital, Genoa/Italy

During my stay with the excellent team in the Neuroradiology Department of the Gaslini Children's Hospital, I got more chances to observe and learn than I anticipated. I expanded my knowledge in paediatric and foetal radiology areas that are not part of my daily practice. The training and guidance I got during my stay will unquestionably alter my future perspectives. I appreciate the opportunity the programme provides for young colleagues from smaller countries to extend our experience.



Selda Güven

University of Health Sciences, Diskapi Yildirim Beyazit Training and Research Hospital, Ankara/Turkey

Topic: Thoracic Imaging

Training centre: Heidelberg University Medical Center, Heidelberg/Germany

I want to express my deepest gratitude to ESOR and ESR for the three-month fellowship program in the Thorax Clinic of Heidelberg University Medical Center, Germany. During my fellowship period, I had the opportunity to attend multidisciplinary meetings, observe CT-guided biopsy procedures, and study the educational archive of the institution, which includes advanced imaging modalities like lung MRI and quantitative CT under the supervision of Professor Claus Peter Heussel. Furthermore, I was involved in an ongoing project on computer-assisted diagnosis. I sincerely thank my tutors and colleagues for their generous support during my fellowship. The knowledge and insight I gained with this fellowship will significantly contribute to my academic career, and I strongly encourage young radiologists to apply for ESOR fellowships.



Zariza binti Hussain

Kuala Lumpur General Hospital, Kuala Lumpur/Malaysia

Topic: Head and Neck Radiology

Training centre: ASST Spedali Civili, Brescia/Italy

I had the privilege of observing the clinical activities, particularly head and neck imaging in the Radiology 2 Department in this hospital, under the guidance of Prof. Davide Farina and Marco Ravanelli. I had the opportunity to learn in-depth about MR imaging, especially in tumour cases, and their post-treatment follow-ups. I learnt a great deal about diseases, most of which are commonly seen in my country. Attending the weekly multidisciplinary meetings with surgeons, oncologists, radiotherapists, and pathologists was also refreshing, as I got to see their treatment choices' considerations. I was also allowed to participate in a collaborative study with the ORL Department and write a paper with the resident and my supervisors. The training will benefit my practice in Malaysia as this subspecialty is relatively new. I hope to share what I learn with my colleagues back home.



Kinga Kecskés

Semmelweis University, Faculty of Medicine, Budapest/Hungary

Topic: Neuroradiology

Training centre: University Hospital Leuven, Leuven/Belgium

I am very grateful to ESOR for giving me the unique opportunity to spend three months as a neuroradiology fellow at the Department of Imaging and Pathology, University Hospital Leuven in Belgium. I am very grateful to Professor Philippe Demaerel and his excellent team, who warmly welcomed and involved me in the life of the neuroradiology department since the beginning. During this period, I had the possibility to attend the weekly multidisciplinary meetings, participate in functional MRI examinations, and observe many neuro-interventional procedures. I could get a thorough insight concerning the precise reporting activity through a high number and variety of cases, therefore learning new approaches and techniques and widening my horizons. I want to thank all my brilliant tutors for their time and the outstanding knowledge they shared. My fellowship was a huge step forward in my career and provided a pleasant cultural experience.



Katharina Lampichler

Medical University of Vienna, Vienna/Austria

Topic: Abdominal Radiology

Training centre: Beaujon Hospital, Paris/France

I have very much enjoyed staying at Beaujon Hospital. Already during my residency, I have focused and specialised in the broad imaging spectrum of chronic liver diseases, including liver malignancies, vascular liver diseases and complications of portal hypertension. For me, the Exchange Program for Abdominal Radiology Fellowship was an excellent opportunity to learn clinically and academically from peers. It was a great challenge to read, interpret and discuss complex disease entities and therapies on a very high level of expertise. Personally, I have enjoyed meeting colleagues from around the world and exploring Paris together.



Angela Napolitano

Papa Giovanni XXIII Hospital, Bergamo/Italy

Topic: Head and Neck Radiology

Training centre: Northwick Park Hospital, Harrow/United Kingdom

I sincerely thank the ESOR/ESHNR for providing me with the unique opportunity to get further subspeciality training in Head and Neck Radiology at the Northwick Park Hospital under the supervision of Dr Ravi Lingam. He is an outstanding, experienced, and passionate HN radiologist and has been an excellent mentor throughout my training. I am so incredibly grateful to him for the time together. I also want to express my gratitude to the entire radiology department staff at Northwick Park Hospital for welcoming me from day one and enriching the whole experience. During my fellowship, I reported many interesting HN cases under supervision on a daily basis, I attended several weekly multidisciplinary meetings (ENT, maxillofacial surgery, head and neck cancer), and I also had the opportunity to teach junior trainees on specific HN topics (temporal bone and skull base pathology). Furthermore, I could access extensive teaching file folders to study particular topics. I warmly suggest to my young colleagues in their first years after completion of radiology/neuroradiology training to try to get involved in this kind of experience, the important of which is invaluable.



Valentina Opancina

University Clinical Centre Kragujevac, Kragujevac/Serbia

Topic: Neuroradiology

Training centre: Ospedale Antonio Cardarelli, Naples/Italy

Thanks to the ESOR/ESNR Exchange Programme for Fellowship, I had the privilege to come to the Cardarelli Hospital in Naples and have Prof. Mario Muto as my mentor, one of the most esteemed neuroradiologists in Europe and the world. This fellowship was highly beneficial for me and my future clinical, research and teaching jobs. It broadened my views, gave me new learning objectives, introduced me to novel neuroradiology techniques I could only read about, and increased my passion for neuroradiology. During these three months, I got to know another training environment, got to be more involved in spinal radiology, learned a lot more about spine diagnostics and interventional procedures and learned to perform percutaneous treatment for disc hernia with ozone therapy. I also participated in interventional neuroradiology practice, diagnostic neuroradiology reporting, research, meetings, and lectures, led by my mentor, prof. Muto, to whom I'm grateful for investing time and experience to share his knowledge with me. The ESOR/ESNR Exchange Programme for Fellowship has been a fantastic experience. I will recommend to any radiologists to apply for the programme.



Paulo Pinto

Institute of Radiology – University of São Paulo, São Paulo/Brazil

Topic: Abdominal Radiology

Training centre: LUMC – Leiden University Medical Center (Leids Universitair Medisch Centrum), Leiden/Netherlands

From the very beginning I was very well supported by the local team, which helped me getting access to and within the hospital. During my whole stay in the hospital, I was very well welcomed and well treated. Everyone was always kind and respectful. Not once I felt dislocated or had any kind of conflict, and no one ever treated me as an outsider. The team always spoke to me in English, and whenever I was around they switched from Dutch to English, so I could participate in the conversations. The staff was definitely the highlight of my ESOR fellowship. I couldn't imagine a better crew, particularly Dr Molen, Dr Boekestjin, Dr Wasser and Dr Els. My only issue was housing, as Leiden is a university town it was extremely hard to find accommodation as most places were occupied. But this is not the fault of the staff who actually helped me finding a place to stay. In general, I can say that I learned a lot from this experience and recommend it to everyone.



Kasturi Rangan

MEDANTA hospital, Lucknow/India

Topic: Hybrid Imaging

Training centre: LMU Klinik und Poliklinik für Radiologie, Munich/Germany

I am a European board-certified Nuclear Medicine Physician from India with over seven years of experience in PET-CT, PET-MR, Gamma Imaging and Therapy using radioactive pharmaceuticals. The Hybrid Imaging Fellowship at the prestigious LMU University is a dream come true. LMU offers a comprehensive hybrid imaging programme of Radiology and Nuclear Medicine training. This 3-month fellowship has helped me increase my confidence in hybrid imaging techniques, develop a research mindset and make new friendships for life.



Anjuna Reghunath

Vardhman Mahavir Medical College and Safdarjung Hospital, New Delhi/India

Topic: Cardiovascular Imaging

Training centre: Liverpool Heart and Chest Hospital, Liverpool/United Kingdom

I am fortunate to have received this exceptional training opportunity in Cardiovascular Imaging at LHCH, UK. The fellowship gave me a holistic approach to cardiac and aortic multi-modality imaging basics and advances. From the beginning, I was warmly welcomed and treated as a part of the team. I was actively involved in reporting coronary CT angiograms, including congenital gated cardiac studies, CT aortograms, and cardiac and aortic MRIs, under the supervision of the experienced faculty at LHCH. Attending various MDTs, interesting cardiac and chest CT case discussions, audits, and REAL meetings gave me new insights into cardiovascular surgeries/interventions, regular post-procedural imaging appearances, and their complications. I also got level I BSCMR accreditation and attended the annual BSCCT conference. I am indebted to the esteemed faculty for sharing their knowledge, experience and wisdom with me, especially my clinical lead, Marousa Ntousku, my tutor, Monika Radike and my co-tutor, Ahmed Kharabish. I express my profound gratitude to the ESOR and ESCR for giving me this fantastic opportunity to broaden my horizons in Cardiovascular Radiology, and I will cherish the time spent at LHCH.



Sonal Saran

All India Institute of Medical Sciences, Rishikesh/India

Topic: Musculoskeletal Radiology

Training centre: Oxford University Hospitals, Oxford/United Kingdom

I work as a general radiologist in India, with only some amount of my clinical work related to MSK. The working environment in NHS is entirely different from my home institute. I gained insight into how to develop a dedicated MSK imaging centre with the resources I have available in India. Attending Sarcoma MDT every Monday morning was an eye-opening experience for me. I was already doing soft tissue and bone biopsies back home, but this fellowship helped me become more confident in any sarcoma case requiring a biopsy. Attending Sports MDT gave me insight into the fine details a sports physician needs from a radiologist in reports. Also, after gaining experience from this fellowship, I can start doing joint and perineural injections in my home institute.



Jędrzej Sarnecki

The Children's Memorial Health Institute, Warsaw/Poland

Topic: Cardiovascular Radiology

Training centre: Medical University of Vienna, Vienna/Austria

I am very grateful to ESOR and ESCR for awarding me the prestigious Fellowship in Cardiovascular Radiology at the Division of Cardiovascular and Interventional Radiology in the Department for Bioimaging and Image-Guided Therapy of the Medical University of Vienna. The three months I had the pleasure to spend learning at AKH, one of the largest hospitals in Europe, were truly an enriching experience. It was a fantastic time, which allowed me to deepen my knowledge and meet renowned experts in the field. Besides participating in daily reporting sessions and attending multidisciplinary meetings, I was also able to study a vast spectrum of rare and interesting cases. I went through many cardiac CT studies (including those acquired using a photon-counting scanner), advanced CMR examinations and PET-MR studies. Thanks to my tutors, Prof. Christian Loewe and Dr Dietrich Beitzke, I substantially broadened my knowledge in non-invasive cardiovascular imaging, for which I am very grateful. The Fellowship provided me with a well-rounded and invaluable experience, which will be of immense help for my future work and career.



Chun Wah So

University College Hospital, London/United Kingdom

Topic: Urogenital Radiology

Training centre: Kremlin Le Bicêtre Hospital, Paris/France

The urogenital radiologists at Kremlin Le Bicêtre Hospital were warm and accommodating and helped me settle in quickly. Dr Balasa has a fantastic bank of interesting cases for trainees to browse and learn from and is a very supportive tutor who inspires with her expertise. The flexible timetable offered a good balance, and there was exposure to many testicular US cases and MRIs. I also had the opportunity to be involved in a project with the potential for publication. Furthermore, my experience here inspired me to become an ESOR tutor and offer my home centre's vast training opportunities to other prospective fellows interested in urology.



Arnaldo Stanzione

Federico II University Hospital, Naples/Italy

Topic: Urogenital Radiology

Training centre: Addenbrooke's Hospital, Cambridge/United Kingdom

I feel truly blessed and grateful to ESOR and ESUR for this fantastic opportunity, which significantly contributed to my professional and personal growth. In Cambridge, I found nothing less than outstanding human qualities and extraordinary radiological expertise, with my supervisor Prof Tristan Barrett being the first example. The entire Department of Radiology and the clinical staff made me feel at home from day one. Everyone has been kind and supportive, and I thank all of them from the bottom of my heart. State-of-the-art imaging in a high-volume centre, challenging cases from teaching files, mentored reporting sessions, engaging multidisciplinary meetings, outstanding lectures from international speakers and a thriving scientific community with brilliant colleagues from all over the world: what more could one ask from a three-month fellowship?



Abdullah Şükün

Başkent University Alanya Research and Application Centre, Antalya/Turkey

Topic: Musculoskeletal Radiology

Training centre: University Medical Centre Rostock, Rostock/Germany

Firstly, I thank ESOR for providing this unique training and experience opportunity. I was privileged to be part of Professor Marc-André Weber's team for three months at the University of Rostock. I have seen many cases in the field of Musculoskeletal Radiology. At the same time, I developed myself both in general radiology and academically. During this time, I accompanied daily reporting, multidisciplinary meetings, and interventional procedures. Thanks to the whole team for their help and hospitality. This fellowship program allowed me to take a big step towards my dream of becoming a Musculoskeletal Radiologist.



Louise van Camp

Royal Prince Alfred Hospital, Sydney/Australia

Topic: Head and Neck Radiology

Training centre: University College London Hospital, London/United Kingdom

This ESOR exchange fellowship comprised a three-month placement at the University College London Hospitals NHS Foundation Trust in Head and Neck radiology. Five dedicated consultants work in this area, providing inpatient and outpatient head and neck radiology services. The caseload was varied and plentiful and allowed for many great learning opportunities. The team has a collegial relationship with the relevant surgical and medical specialities, allowing cross-speciality sharing of knowledge and case feedback. This included dedicated multidisciplinary meetings and case reviews, which were very helpful for learning.



Arnaldo Stanzione

Centre Hospitalier Universitaire Vaudois (CHUV), Lausanne/Switzerland

Topic: Musculoskeletal Radiology

Training centre: Guy's and St-Thomas' Hospital, London/United Kingdom

This fellowship is the perfect opportunity to experience high-quality teaching and life in one of the greatest cities in the world. All modalities are available within the hospital with a high number of examinations. Dr Isaac's mentoring was excellent, with regular and pertinent feedback. I received great freedom to organise my daily schedule, which allowed me to focus on my objectives, especially since a three-month period is so short. Yet, during this time, I considerably improved my skills and created good memories that will last.



Nauris Zdanovskis

Riga East University hospital, Riga 1st hospital, Union of Health Centres "Elite", Riga/Latvia

Topic: Neuroradiology

Training centre: Erasmus Medical Centre, Rotterdam/Netherlands

The experience of being part of the ESOR exchange fellowship in Erasmus MC has allowed me to see how one of Europe's best centres is organizing clinical work, performs quality management and excels in research. I was involved in every aspect of neuroradiology work. The multidisciplinary meetings I was able to attend allowed me a front-row seat to many different types of pathologies, from cancer diagnostics all the way down through dementia care. In conclusion, I would like to say that it is important that we are constantly learning and expanding our understanding in radiology in order to best serve those who need us most!

BREAST IMAGING FELLOWSHIP (USA)

(POSTPONED FROM 2020 TO 2022)

My experience



Jorge Luis Huayanay Espinoza

Instituto Nacional de Enfermedades Neoplásicas, Lima/Peru

Topic: Breast Imaging

Training centre: Memorial Sloan Kettering Cancer Center

This programme provided a unique opportunity to observe clinical practice and participate in research projects. I was instructed in breast imaging interpretation. I also attended the weekly multidisciplinary conferences and weekly educational breast imaging conferences. I also trained from a database of MRI screening and diagnostic cases. Furthermore, I compiled a teaching file of imaging presentation of breast sarcomas. Our institution in Lima/Peru is growing and our radiology department is willing to make history in Peru and, with this experience, help Peruvian radiologists improve their skills in recognizing breast lesions and promote clinical research and advance clinical care in order to improve breast cancer patient outcome.



NICHOLAS GOURTZOYIANNIS TEACHING FELLOWSHIP

My experience



Tristan Barrett

Cambridge University Hospital, Cambridge/United Kingdom

Topic: Urogenital Radiology

Training centres: Copenhagen University (Denmark); University of Toronto (Canada)

My first visit was to Copenhagen University on 22nd and 23rd August 2022, hosted by Professor Henrik Thomsen and Vibeke Løgager. The teaching included a 3-hour interactive workshop each day (3:30 – 6:30 pm), with prostate MRI cases run using the Collective Minds Radiology on-line platform (<https://www.cmrad.com/>) to allow virtual and in-person delegates to simultaneously review cases. The teaching was further complimented with four 15 min lectures covering interpretation, pitfalls, and MRI quality and, on day 2, a 1-hour keynote talk to a broader audience on prostate MRI certification (6:30 – 7:30 pm). The second visit to University of Toronto Wednesday on November 9, 2022 (9:00 am – 6:30 pm) was hosted by Dr. Kartik Jhaveri. The full day's teaching included a more abbreviated CMRAD interactive session with prostate MRI cases and a 90 minute interactive research-orientated workshop for residents. These were supplemented by two 75-minute talks on renal CT cases and quality within the prostate MRI pathway aimed at a broader audience, including virtual attendees from across the broad University of Toronto campus. I conducted pre- and post-course quizzes on prostate MRI interpretation to assess for improvement in knowledge (25 delegates from Copenhagen and 17 from Toronto completed both components). This data will be helpful for informing future work developing teaching material and assessment formats for potential certification initiatives in prostate MRI, and the results were presented at ECR 2023 at the Session: ESOR – How to adapt education in radiology (Thursday, March 2, 2023 / 14:00-15:30 (CET)). The first fellowship visit provided me with the opportunity to visit a new department, city, and country and both visits facilitated developing teaching material and enabled new departmental links, which I hope to develop in future collaborative work.



Tommaso D'Angelo

University Hospital Messina, Messina/Italy

Topic: Spectral CT imaging in real-life clinical applications

Training centres: Centro Hospitalar Universitário do Porto (Portugal);
University Hospital Frankfurt (Germany)

The ESOR Nicholas Gourtsoyiannis Teaching Fellowship 2022 consisted of two main topics (i.e. two different clinical scenarios), which both highlight the usefulness of spectral CT imaging techniques over conventional CT. In particular, one clinical scenario was evaluated for each of the involved University centers. The first visit (Porto, PT) regarded the usefulness of spectral CT for the detection of pulmonary embolism and oligoemia, through virtual monoenergetic imaging and iodine maps. The second visit (Frankfurt, DE) regarded the usefulness of dual-energy CT for the detection of lumbar disk herniation, through a specific algorithm that emphasize the contrast between disks and lumbar vertebrae. A preliminary teaching lesson was performed, explaining physical principles of spectral CT platforms and how images are generated. In these lessons, most of the spectral imaging algorithms were explained, with particular regard to those that should be used for the specific clinical scenario. Subsequently, a workshop with 10 participants was organized in two reading sessions. The participants were composed both from experienced (> 5 years) and unexperienced readers. Firstly, they were asked to evaluate anonymized conventional CT cases and to give answers for each case through a questionnaire. Secondly, they were asked to evaluate anonymized spectral CT cases and to give answers for each case. The questionnaire was the same for both sessions. Finally, a second lesson was performed to show the preliminary answers of the candidates, and a few sample cases where the usefulness of spectral CT algorithms was more evident to help the diagnostic confidence and accuracy of the readers. The environment in both sites was very friendly and supportive. I enjoyed this experience a lot and I recommend it to any radiologist/researcher who is willing to share his/her knowledge abroad.

ALEXANDER R. MARGULIS FELLOWSHIP

My experience



Paul-Andrei Ștefan

County Emergency Hospital, Cluj-Napoca/Romania

Topic: MRI

Training centre: Medical University of Vienna, Vienna/Austria

I applied to the Alexander Margulis Fellowship with being full of enthusiasm to strengthen my knowledge and clinical experience in the field of MRI.

The Department of Biomedical Imaging and Image-Guided Therapy of the Medical University of Vienna is an excellent place for young doctors to begin their research activity and are interested to learn the basic steps of radiology and imaging research.

During my twelve-month training in clinical MRI as well as in planning, performing, and publishing MRI research projects I participated in the following activities:

Division of General and Paediatric Radiology:

- Attending inter-disciplinary committees with doctors from other specialties such as general surgery, oncology, radiotherapy, internal medicine, and gastroenterology where we discussed cases with pancreatic, liver, and digestive tract diseases.
- Assisting physicians when interpreting daily examinations.
- Developing research ideas and carrying out research development projects.

Division of Neuroradiology and Musculoskeletal Radiology:

- Active involvement in the morning conference, lectures, and case presentations
- Participation in the acquisition and interpretation of functional MRI and tractography images.
- Participation in the interpretation of MRI examinations of neuro, musculoskeletal of the adult and fetus - both on my own and assisting physicians.
- Participation in neuroradiology and musculoskeletal radiology inter-disciplinary committees.
- Participation in ultrasound-guided interventional maneuvers.
- Participation in CT-guided spinal interventional procedures: infiltrations and biopsies.
- Conducting research projects.

I want to thank the whole Division of Neuroradiology and Musculoskeletal Radiology for making active efforts to overcome the language barrier to integrate my activity into their daily routine.

In particular, I am very grateful to Professor Dr. Franz Kainberger (Head of the Division of Neuroradiology and Musculoskeletal Radiology), Professor Dr. Gregor Kasprian (Head of Clinical Functional MRI, Fetal MRI/Developmental Neuroimaging) and Mrs. Isabella Davicino from the ESOR Office for their continuous support.

ONE-YEAR FELLOWSHIPS

My experience



Yanif Avital

Assaf Harofeh (Shamir) Medical Center, Tzrifin/Israel

Topic: Interventional Radiology

Training centre: RadboudUMC, Nijmegen/Netherlands

This is a final report to describe my fellowship program in interventional radiology at the RadboudUMC medical center in the Netherlands during 2021-2022. I have participated in interventional procedures from all fields of IR, five days per week from 08:00 - 17:00. On average, every work day I have performed 5 procedures, usually as a single doctor while being supervised by a senior IR from the department. One day per week was dedicated for research, which enabled me to publish a review article on the topic of the role of IR in prostate cancer and an abstract which was presented at ECR 2022 on the topic of robotic guided percutaneous interventions. Typically, once a week I would join hybrid procedures in the OR and when I had the opportunity I would join the on-call doctor during his shift. During this year I have participated in three IR conventions: SIR, ECR and ECIO. I have acquired more than 70 CMEs and have been allocated a seat for the EBIR exam in October 2022. This fellowship program was a tremendous opportunity for me to acquire a broad experience in a wide variety of interventions in an established academic center. At the same time I was able to gain some experience in academic work and participate in professional meetings. I am thankful for all the people involved in making this happen and for the guidance I have received.



Suzan Bahadir

Baskent University Hospital, Ankara/Turkey

Topic: Oncologic Imaging

Training centre: Montpellier Cancer Center, Montpellier/France

I have worked at the ICM, on oncologic Imaging, mainly learned about rectal cancers, gynecological malignancies, and liver lesions, between 2021-2022. I am thankful to ESOR and ESR for this unique opportunity and I feel lucky to meet with my dear mentor, Dr. Stephanie Nougaret. During this period I went into details of cancer imaging, participated in research projects, and studied on AI-based topics. I attended daily practice-report activities, case discussions, and multidisciplinary meetings which provided great knowledge and carried my level to expert opinion. It was a period of advances, fun with colleagues, and a chance to experience a different lifestyle in South France. I definitely recommend this program to all radiologists both to enhance their knowledge and live in a different country and experience this social lifestyle which is full of joy. Many thanks!



Eva Berardi

Ospedale dei Castelli, Rome/Italy

Topic: Imaging of Cancer

Training centre: The Netherlands Cancer Institute, Amsterdam/Netherlands

Since the beginning of my training, abdominal and pelvic imaging have inspired me most and fostered my passion. I have attended courses to increase the quality of my preparation and to be updated on the advancements in this field growing a open-minded disposition eventually upgrading my knowledge year by year. I think that, nowadays, one of the most appealing aspects of radiology is the implementation of the accuracy of differential diagnoses. I strongly believe that working in a high-volume cancer research center, such as the Netherlands Cancer Institute, is an intriguing challenge to add some scientific evidence to the current literature, especially with the resources that the fellowship provides. I strive to learn new skills efficiently and correctly; I am quick to learn from challenges I am presented with and respond well to constructive criticism. I have a great wish to further expand my knowledge to oncological radiology and mature my expertise to provide my patients with high quality diagnosis. I am confident that the fellowship programme taught me a lot, and hopefully I will be able to bring some of that knowledge back home to Italy.



Tommaso D'Angelo

University Hospital Messina, Messina/Italy

Topic: Cardiovascular Imaging

Training centre: Erasmus MC, Rotterdam/Netherlands

I consider this educational opportunity offered by the European School of Radiology an important asset to my professional career as a clinician and a researcher. This experience has allowed me to work alongside experts in the field of Cardiovascular Imaging at Erasmus Medical Center in Rotterdam. The environment in the department or Radiology and Nuclear Medicine was stimulating and inspiring. I went through multidisciplinary clinical sessions and a big number of rare and interesting cases, either on a daily basis or retrieving them on the PACS. I believe I have considerably improved my skills as a young radiologist, having had the opportunity to engage in numerous research activities related to my ongoing PhD. In summary, I warmly encourage young radiologists to apply for ESOR fellowship, since it is a rewarding experience either from a professional, academic and personal point of view.



Estefania Gonzalez Montpetit

Josep Trueta University Hospital, Girona/Spain

Topic: Abdominal Imaging

Training centre: University Beaujon Hospital (Université Paris Cité), Clichy/France

This fellowship is a journey I have been planning for a long time. This adventure started after an arduous gathering of paperwork, but I am glad I could get started on December 1st. The Radiology service at Hospital Beaujon is super-specialized in hepatic-pancreatic radiology. It is led by internationally renowned radiologists and made up of a young and dynamic team. During this first month, I have participated in the morning clinical sessions, attended several multidisciplinary boards and have rotated through the different areas to get used to my new workplace. Lastly, I am thrilled to explore Paris and enjoy its great cultural offer. I feel fortunate to have this opportunity for professional and personal growth and I aim to make the most out of it.



Karoline Lecomte

University Sorbonne Paris, Paris/France

Topic: Hybrid Imaging in Oncology

Training centre: Institut Gustave Roussy, Villejuif/France

Upon successful completion of my residency and PhD programs in Radiology (I am an EDiR certificate holder), I moved to Paris to join my French husband and I chose to pursue a fellowship in hybrid imaging in oncology. My typical working week consisted of three days within the Medical Imaging Department and two days within the Nuclear Medicine Department. I was scheduled in a full-time capacity (8 am - 6/7 pm). I followed a daily work schedule rotating through the various sections of the department. I participated in morning radiology teaching sessions on a regular basis. I performed/interpreted a wide variety of imaging exams that include: ultrasound, CT Scan, MRI, mammography, PET scan. Prior to commencement of work at the Institute I registered with the Medical Chamber in Paris (full licence to practice). I participated in weekly 'staff meetings', resident teaching sessions, case-based discussions and lectures held at the Department of Medical Imaging. The Gustave-Roussy fellowship program provided an intense, supervised experience in various aspects of oncologic imaging. It's been an enriching experience that allowed me to expand my radiological knowledge.



Natela Paksashvili

Georgian American University, Tbilisi/Georgia

Topic: Abdominal Radiology

Training centre: Hadassah Hebrew University Medical Center, Jerusalem/Israel

I am sincerely grateful to the ESOR Committee for giving me this unique opportunity to do a one-year fellowship in abdominal radiology. My training was held at the renowned Hadassah Hebrew University hospital, Jerusalem/Israel. It was a rewarding experience to work alongside with Prof. Sosna - head of the radiology department and his supportive and great team, who are among the most experienced and qualified radiologists. I am thankful for sharing their outstanding knowledge with me. During my fellowship, I have participated in the daily activities of this hardworking department, including teaching lectures, multidisciplinary meetings and tumour boards. I was able to report a large number of interesting cases and was involved in interventional procedures of different pathologies. This one-year fellowship was a very memorable experience that deeply influenced and enhanced my practical skills, increased my knowledge in the field of diagnostic and interventional radiology.



Alan Arthur Peters

Inselspital, Bern University Hospital, Bern/Switzerland

Topic: Chest Radiology

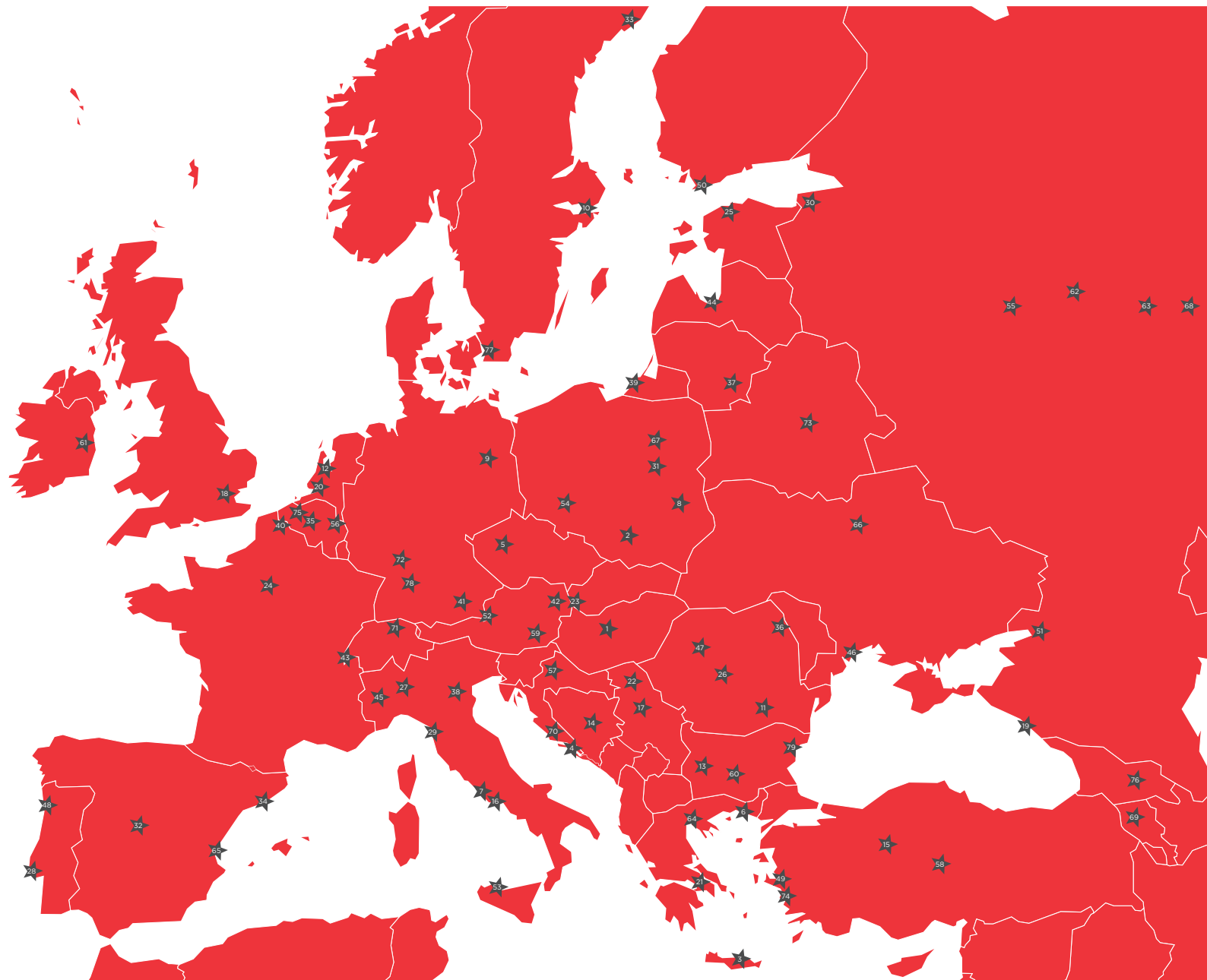
Training centre: University Clinic Heidelberg, Heidelberg/Germany

I spent a very interesting and productive year in Heidelberg, worked on several research projects, participated in weekly meetings such as journal clubs, educational talks or lectures on statistics. I even got the chance to present one of our projects at the annual meeting of the DZL in Hannover, Germany. Furthermore, I got the chance to work clinically in the Thoraxklinik Heidelberg and wrote CT reports under the supervision of Prof. Dr. med. Claus Peter Heussel, an internationally renowned expert for Chest Radiology. During this time, I also attended clinical boards such as the interstitial lung disease (ILD) board or joined CT-guided interventions. I would like to take this opportunity to thank the ESOR for the organization and the financial support of my 1-year Research Fellowship.

CITIES/COUNTRIES VISITED 2006-2022

EUROPE

- | | | | |
|------------------------------------|----------------------------|-------------------------------|------------------------|
| 1 Budapest/Hungary | 21 Athens/Greece | 41 Munich/Germany | 61 Dublin/Ireland |
| 2 Krakow/Poland | 22 Novi Sad/Serbia | 42 Vienna/Austria | 62 Suzdal/Russia |
| 3 Heraklion/Greece | 23 Bratislava/Slovakia | 43 Geneva/Switzerland | 63 Kazan/Russia |
| 4 Dubrovnik/Croatia | 24 Paris/France | 44 Riga/Latvia | 64 Thessaloniki/Greece |
| 5 Prague/Czech Republic | 25 Tallinn/Estonia | 45 Turin/Italy | 65 Valencia/Spain |
| 6 Alexandroupolis/Greece | 26 Sibiu/Romania | 46 Odessa/Ukraine | 66 Kiev/Ukraine |
| 7 Rome/Italy | 27 Milan/Italy | 47 Cluj-Napoca/Romania | 67 Serock/Poland |
| 8 Lublin/Poland | 28 Lisbon/Portugal | 48 Porto/Portugal | 68 Ekaterinburg/Russia |
| 9 Berlin/Germany | 29 Pisa/Italy | 49 Izmir/Turkey | 69 Yerevan/Armenia |
| 10 Stockholm/Sweden | 30 Saint Petersburg/Russia | 50 Helsinki/Finland | 70 Split/Croatia |
| 11 Bucharest/Romania | 31 Warsaw/Poland | 51 Rostov-on-don/Russia | 71 Zurich/Switzerland |
| 12 Amsterdam/The Netherlands | 32 Madrid/Spain | 52 Salzburg/Austria | 72 Heidelberg/Germany |
| 13 Sofia/Bulgaria | 33 Umeå/Sweden | 53 Palermo/Italy | 73 Minsk/Belarus |
| 14 Sarajevo/Bosnia and Herzegovina | 34 Barcelona/Spain | 54 Wroclaw/Poland | 74 Kuşadası/Turkey |
| 15 Ankara/Turkey | 35 Brussels/Belgium | 55 Moscow/Russia | 75 Ghent/Belgium |
| 16 Latina/Italy | 36 Iasi/Romania | 56 Maastricht/The Netherlands | 76 Tbilisi/Georgia |
| 17 Belgrade/Serbia | 37 Vilnius/Lithuania | 57 Zagreb/Croatia | 77 Malmö/Sweden |
| 18 London/United Kingdom | 38 Padua/Italy | 58 Kayseri/Turkey | 78 Tübingen/Germany |
| 19 Sochi/Russia | 39 Kaliningrad/Russia | 59 Graz/Austria | 79 Varna/Bulgaria |
| 20 Rotterdam/The Netherlands | 40 Lille/France | 60 Plovdiv/Bulgaria | |





ASIA

- 1 Beijing/China
- 2 Qingdao/China
- 3 Nanjing/China
- 4 Shanghai/China
- 5 Kunming/China
- 6 Guangzhou/China
- 7 Hangzhou/China
- 8 Chengdu/China
- 9 Changsha/China
- 10 Dalian/China
- 11 Suzhou/China
- 12 Shenzhen/China
- 13 Guilin/China
- 14 Shenyang/China
- 15 Shijiazhuang/China
- 16 Xi'an/China
- 17 Wuhan/China
- 18 Hefei/China
- 19 Tianjin/China
- 20 Zhengzhou/China
- 21 Chongqing/China
- 22 Fuzhou/China
- 23 Taiyuan/China
- 24 Harbin/China
- 25 Jinan/China
- 26 Urumqi/China
- 27 Changchun/China
- 28 Nanchang/China
- 29 Ningbo/China
- 30 Haikou/China
- 31 Wuxi/China
- 32 Yinchuan/China
- 33 Seoul/Korea
- 34 Bangkok/Thailand
- 35 Manila/The Philippines
- 36 Kolkata/India



LATIN AMERICA

- 1 Santiago/Chile
- 2 Rio de Janeiro/Brazil
- 3 Belo Horizonte/Brazil
- 4 São Paulo/Brazil
- 5 Salvador/Brazil
- 6 Brasilia/Brazil
- 7 Porto Alegre/Brazil
- 8 Mexico City/Mexico
- 9 San Miguel de Allende/Mexico
- 10 Campinas/Brazil
- 11 Recife/Brazil
- 12 Mérida/Mexico
- 13 Guadalajara/Mexico
- 14 Cancún/Mexico
- 15 Bogotá/Colombia
- 16 Cartagena/Colombia
- 17 Curitiba/Brazil
- 18 Monterrey/Mexico
- 19 Puebla/Mexico
- 20 Mar del Plata/Argentina
- 21 León/Mexico

MIDDLE EAST

- 1 Beirut/Lebanon
- 2 Jeddah/Saudi Arabia
- 3 Amman/Jordan
- 4 Kuwait City/Kuwait
- 5 Nur-Sultan/Kazakhstan
- 6 Tashkent/Uzbekistan

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