

National Academy of Sciences

Improving Cancer Diagnosis and Care: Patient Access to Oncologic
Imaging and Pathology Expertise and Technologies

February 12–13, 2018

Washington DC, USA

Overview of Oncologic Imaging in Europe

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- ~ 20% of cancer management wrong because of the wrong diagnosis
- Imaging improves standard of care - radiologists members of MDTs
- Healthcare in Europe – the challenge of tremendous diversity
- Structured fellowship in oncologic imaging does not exist in Europe
- ESR activities in field of oncologic imaging, at European Congress of Radiology, in education, radiation protection, referral guidelines/ appropriateness of imaging, research

44 European countries



28 European Union member countries



Availability of CT scanners and MRI units in Europe

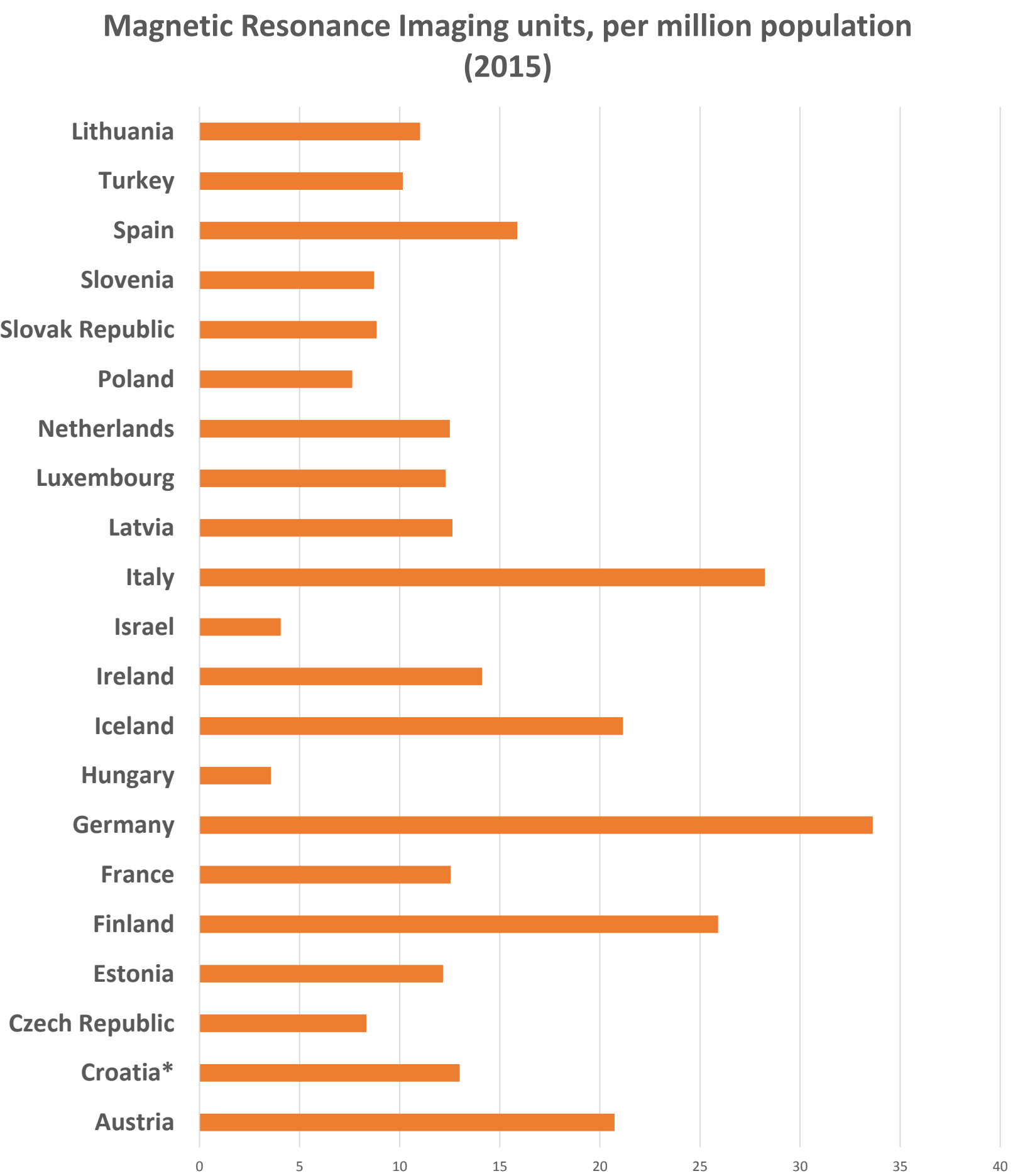
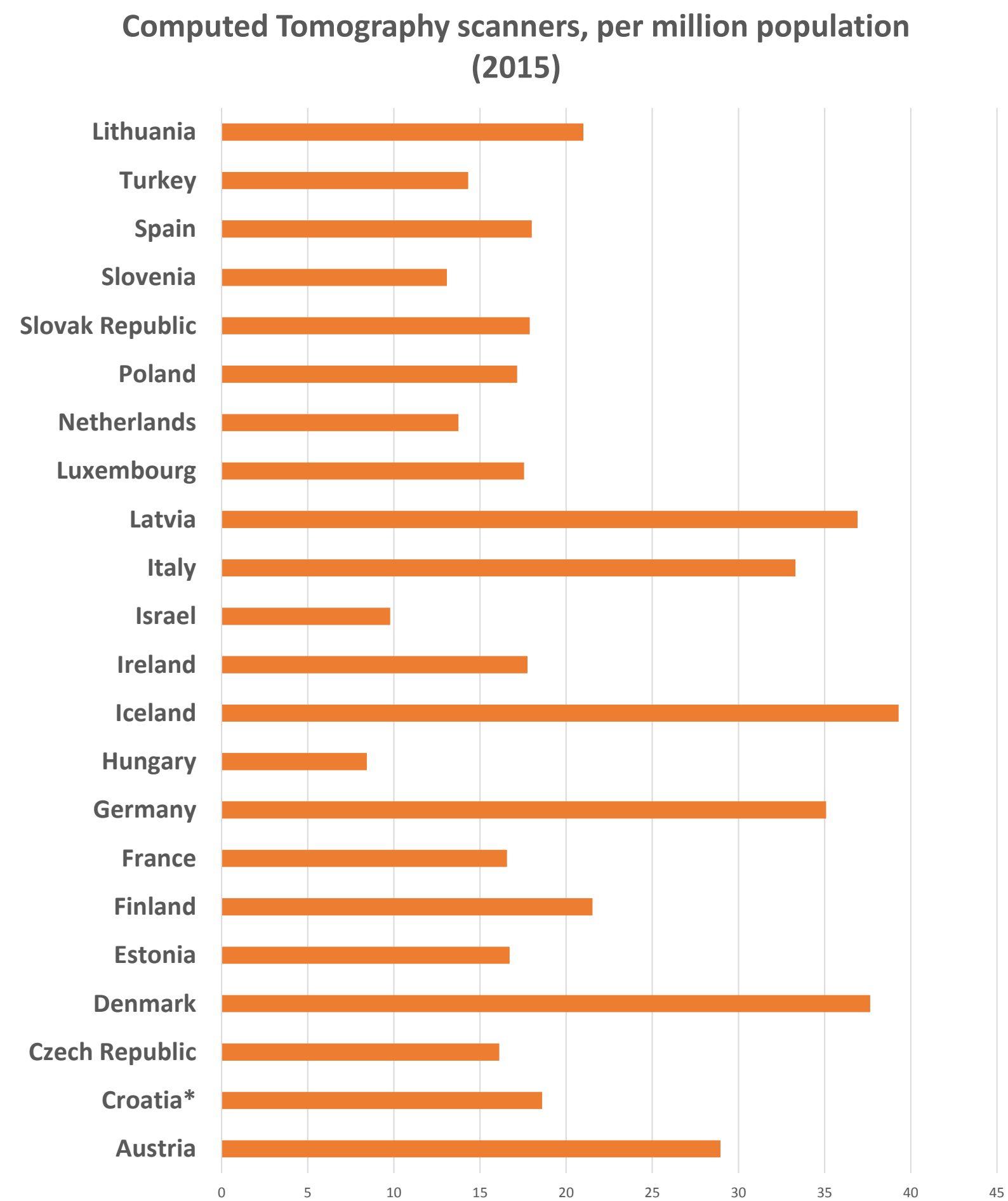
Source: OECD, Health Statistics, Eurostat Database

Access to imaging

Renewal of Equipment

Education in Oncologic
Imaging -

ESR initiatives



* data provided by the Ministry of Health (Croatia), 2017

Accessibility (waiting time for treatment).
Source: Björnberg, A. Euro Health Consumer Index 2016 Report. Health Consumer
Powerhouse, 2016. ISBN 978-91-980687-5-7

Indicator	Albania	Austria	Belgium	Bulgaria	Croatia	Cyprus	Czech Republic	Denmark	Estonia	Finland	France	FYR Macedonia	Germany	Greece	Hungary	Iceland	Ireland
2.1 Family doctor same day access																	
2.2 Direct access to specialist																	
2.3 Major elective surgery <90 days																	
2.4 Cancer therapy < 21 days																	
2.5 CT scan < 7days																	
2.6 A&E waiting times																	
Subdiscipline weighted score	163	200	225	150	175	125	213	150	163	150	188	225	188	125	125	163	100

Indicator	Italy	Latvia	Lithuania	Luxembourg	Malta	Montenegro	Netherlands	Norway	Poland	Portugal	Romania	Serbia	Slovakia	Slovenia	Spain	Sweden	Switzerland	United Kingdom
2.1 Family doctor same day access																		
2.2 Direct access to specialist																		
2.3 Major elective surgery <90 days																		
2.4 Cancer therapy < 21 days						n.a.												
2.5 CT scan < 7days																		
2.6 A&E waiting times																		
Subdiscipline weighted score	138	113	175	200	163	113	200	138	100	150	150	188	163	125	113	100	225	100

European Society of Radiology

75.512 individual members

From 157 countries



FACTS & FIGURES

ABOUT THE ESR

16

European subspecialty and allied
sciences member societies

One of them: **European Society of
Oncologic Imaging (ESOI)**

ES of neuroradiology
ES of abdominal and GI radiology
ES of urogenital radiology
ES of breast imaging
ES of head and neck imaging
ES of skeletal radiology
ES of hybrid imaging
Cardiovascular and Interventional
Radiology Society
ESMRMB

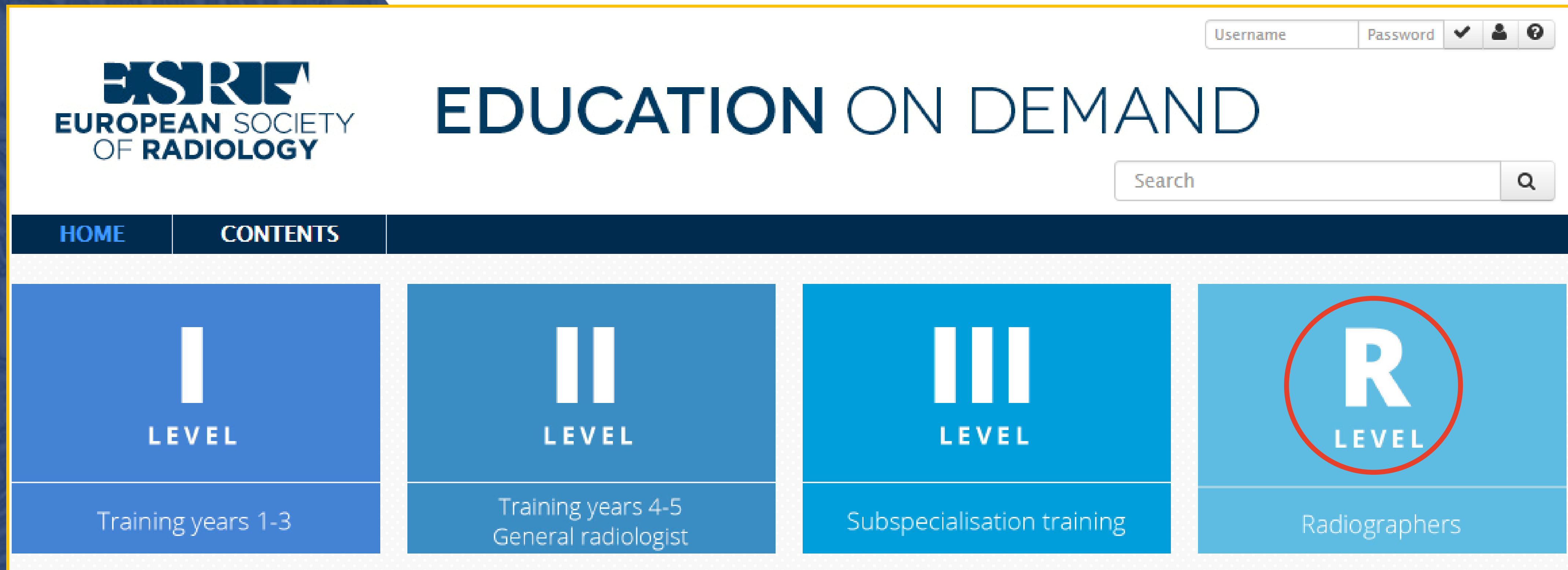
Oncologic Imaging Activities of the ESR

- ESR European Training Curriculum
- European School of Radiology
- Oncologic Imaging at annual European Congress of Radiology
- ESR and the European CanCer Organisation
- European Society of Oncologic Imaging
- Cooperation with patient advisory groups

ONLINE EDUCATION e-LEARNING PLATFORM

Website: learn.myESR.org

260 + e-learning modules



The screenshot displays the 'EDUCATION ON DEMAND' interface of the ESRF (European Society of Radiology) platform. At the top left is the ESRF logo. To the right of the logo is the title 'EDUCATION ON DEMAND'. Further right are login fields for 'Username' and 'Password', accompanied by checkmark, user, and help icons. Below the title is a search bar with a magnifying glass icon. A dark blue navigation bar contains 'HOME' and 'CONTENTS' links. The main content area features four blue boxes representing different education levels: Level I (Training years 1-3), Level II (Training years 4-5, General radiologist), Level III (Subspecialisation training), and Level R (Radiographers). The 'Level R' box is highlighted with a red circle.

ESR European Training Curriculum

- Bi-annually revised and updated for the occasion of ECR
 - Level I-II for training years 1-5
 - Level III for subspecialisation
- Level I-II and Level III revised versions are due for online publication at ECR 2018
- Level II and Level III both have a **dedicated section to Oncologic Imaging**
 - Level II section B-II-11
 - Level III section B-III-10

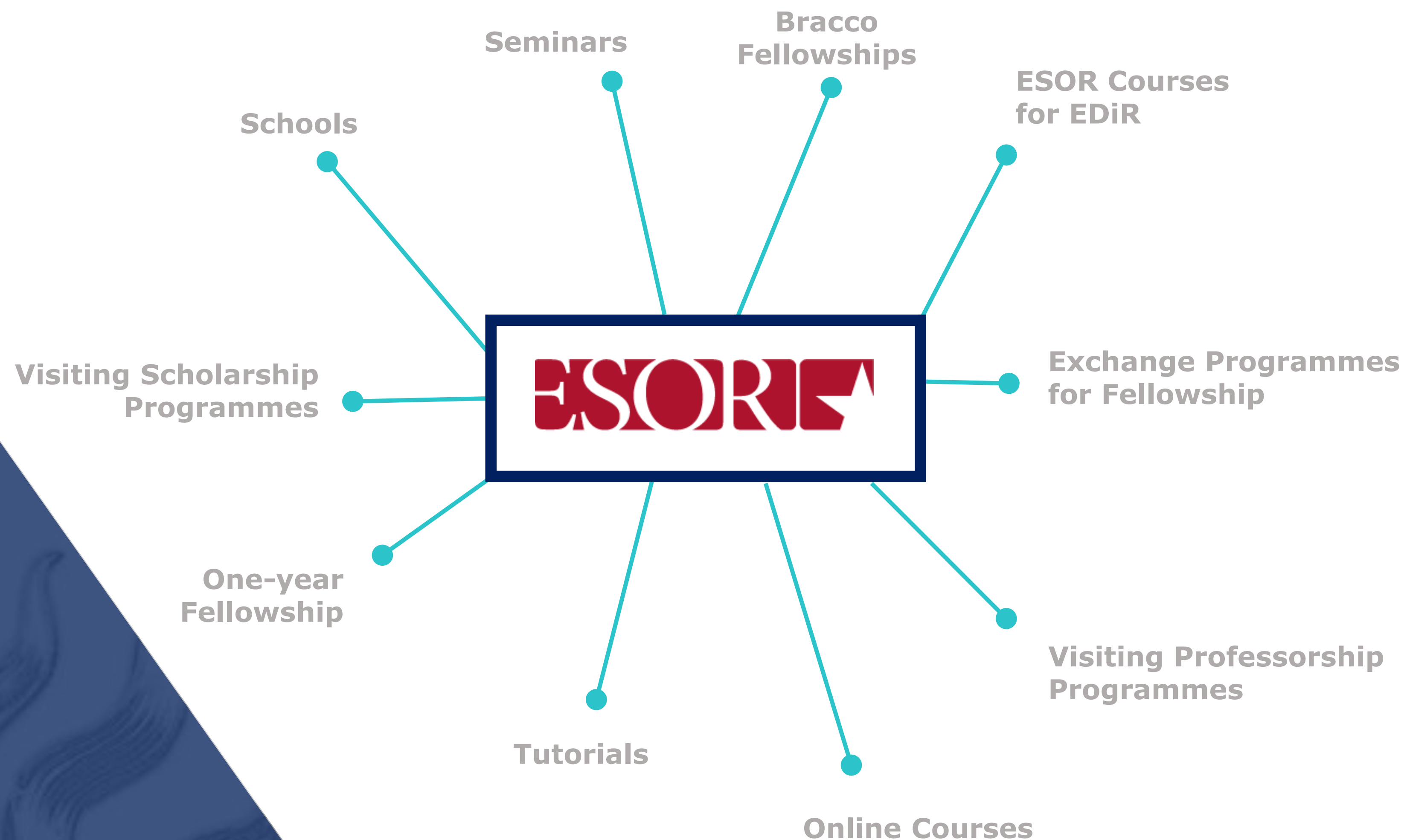
Find the curricula online at:

<https://www.myesr.org/education/training-curricula>



ESOR

European
School
of Radiology



The European School of Radiology – ESOR



ESOR has multiple activities related to Oncologic Imaging planned for 2018

- GALEN Advanced Course on Oncologic Imaging of the Abdomen, Sept. 13-14, Athens/Greece
- ASKLEPIOS Course on Introduction to Hybrid Imaging in Oncology, Aug. 30-31, Vienna/Austria
- Visiting Professorship Programme Armenia, Abdominal Oncologic Imaging, June 29, Yerevan/Armenia
- AIMS Seminar on Chest and Abdominal Oncologic Imaging, April 11, Mexico City and April 13, Guadalajara/Mexico

Oncologic Imaging at ECR – European Congress of Radiology

Local Time (Vienna): Mon, Jan 15 - 14:07 CEST

INTERACTIVE PROGRAMME PLANNER

ECR 2018 DIVERSE & UNITED

BAYER

GE Healthcare

ESRF

EUROPEAN SOCIETY OF RADIOLOGY

BROWSE SESSIONS

SESSION DEFINITIONS

Search

Go

By day

Wed, February 28 (3)

Thu, March 1 (9)

Fri, March 2 (7)

Sat, March 3 (6)

Sun, March 4 (7)

By time

07:00 - 10:00 (18)

10:00 - 13:00 (1)

13:00 - 16:00 (6)

16:00 - 19:00 (7)

By ETC level

Level I (1)

Level II (15)

Level III (17)

Type of session

C (0)

EM (0)

E³ - Acad. (7)

E³ - Acad. (Chest) (2)

E³ - Acad. (Hepatob.Imag.) (2)

E³ - Acad. (ITS) (3)

E³ - Acad. (MRI MSK) (0)

E³ - Acad. (Pancreas/GI) (0)

E³ - Dipl.Prepare (0)

E³ - MC (4)

E³ - TBBK (0)

E³ - TBBK (Cardiovascular/IR) (0)

E³ - TBBK (MSK) (0)

HL (2)

HoW (0)

IP (0)

JS (2)

MS (0)

NH (1)

PC (0)

PS (1)

RC (10)

RS (0)

SA (0)

SF (5)

TC (0)

Topic

Abdominal Viscera (3)

Audit (0)

Breast (1)

Cardiac (0)

Chest (3)

Contrast Media (0)

Education (1)

Emergency Imaging (2)

EuroSafe Imaging (0)

Evidence-Based Imaging (0)

Forensic Imaging (0)

General Radiology (0)

Genitourinary (6)

GI Tract (2)

Head and Neck (4)

Hybrid Imaging (3)

Imaging Informatics (0)

Imaging Methods (5)

Interventional Radiology (2)

Management/Leadership (1)

Medico-legal (0)

Molecular Imaging (1)

Musculoskeletal (2)

Neuro (1)

Nuclear Medicine (3)

Oncologic Imaging

Paediatric (0)

Physics in Medical Imaging (1)

Professional Issues (0)

Radiographers (0)

Research (1)

Students (0)

Vascular (1)

32 sessions found (133 presentations, 0 posters) - Page 1/2

E³ 118 - Lung cancer in the era of molecular oncology and immune therapy (4 presentations)

Wednesday, February 28, 08:30 - 10:00 | Room: M 4 |

LEVEL III

Topics: Chest, Oncologic Imaging, Molecular Imaging | Moderator: H. Prosch (Vienna/AT)

32 sessions with 133 presentations

ECR 2018 DIVERSE & UNITED

February 28 - March 4
Vienna

ESR and the European CanCer Organisation - ECCO

- ESR has been a member since 2016
- ESR Society Day took place at ECCO 2017 –
- The ESR candidate was elected into the ECCO Board 2018-2019– Regina Beets-Tan
- Working closely with ECCO and their member societies on papers for Research and Quality Cancer Care
 - 2017: Melanoma and Oesophageal and Gastric cancer
 - 2018: Breast and Prostate cancer

European Society of Oncologic Imaging – ESOI

- The fastest growing society for Oncologic Imaging focused on establishing Oncologic Imaging as an area of special interest
- Regular meetings, plus very successful webinars with several thousand participants
- Distribution of knowledge and research information with the aim to advance and improve all radiological aspects of patients with cancer
- ESOI is an institutional member society of the ESR and has representatives in the ESR bodies

ESR EuroSafe Imaging

- EuroSafe Imaging is the European Society of Radiology's flagship initiative to promote quality and safety in medical imaging
- The mission of EuroSafe Imaging is to support and strengthen medical radiation protection across Europe
- Call for action includes: diagnostic reference levels, equipment update, education projects, training, clinical audit, clinical decision support, patients (patient advisory group)

ESR iGuide Background

- December 2013: ESR-led study on referral guidelines in Europe
 - Awareness of guidelines is limited (70% of respondents)
 - Guidelines are hardly used in practice
 - CDS is a recommended solution to improve this situation
- Increasing demands on medical imaging, (financial) pressures, waiting times...
- Pilots in 9 countries
- Euratom Basic Standards and Safety Directive mandates guideline availability in EU countries
 - New BSS directive applies since February 6, 2018

CDS and oncologic imaging

ACR Select “Oncology Matrix”

- 180 oncology indications with unscored exams
 - Scenarios for: screening, suspected/known cancer, staging, monitoring, recurrence
- Recommendations can be localised to national regulations or institutional requirements

Patient access to imaging

- Cancer care pathways (often nationally defined in Europe) need to be taken into account
 - CDS must fit into the defined pathway
- CDS ensures optimised utilisation of imaging resources
- Patient access is ensured based on clinical need and appropriateness
- CDS can be a tool to manage waiting times
 - Reducing waiting times by eliminating unnecessary/duplicate exams

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