

Education/Congresses, Post-Pandemic

Implications for professional societies, congresses, meetings-ESR perspective

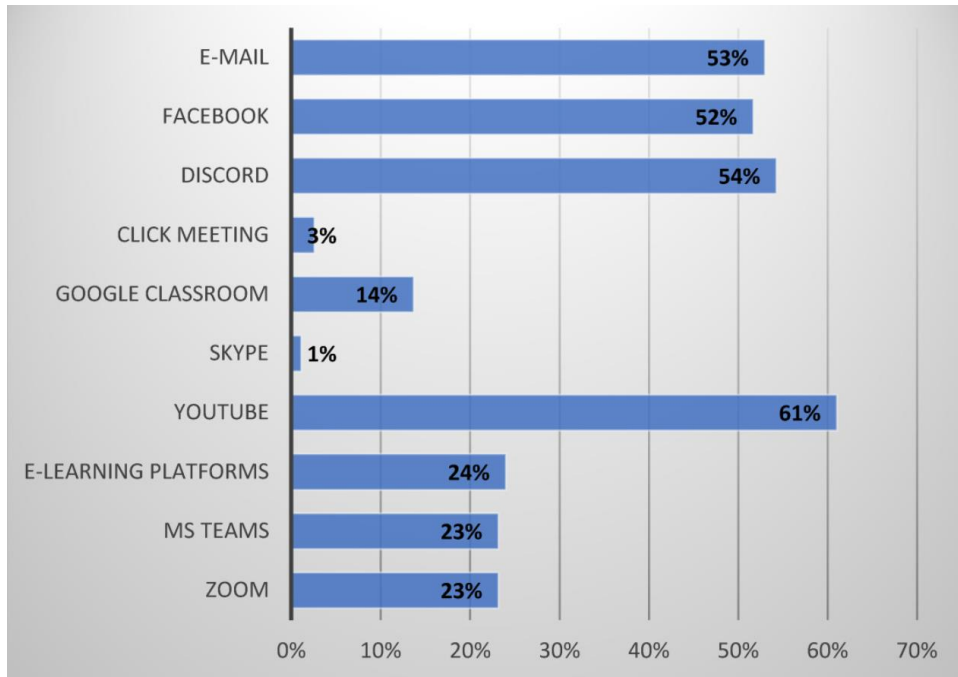
Before COVID



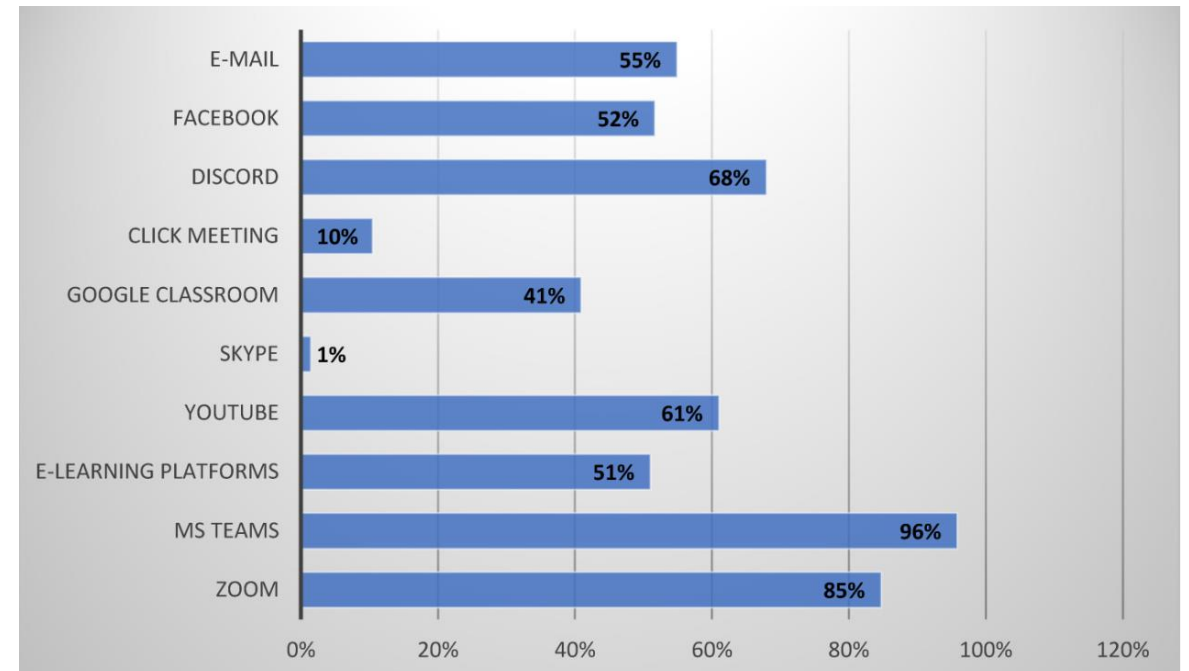
During, after COVID



Before COVID



During, after COVID



Percentage of students familiar with a given e-learning tool

The different steps of digital education in radiology

Poor interaction

Disappointment

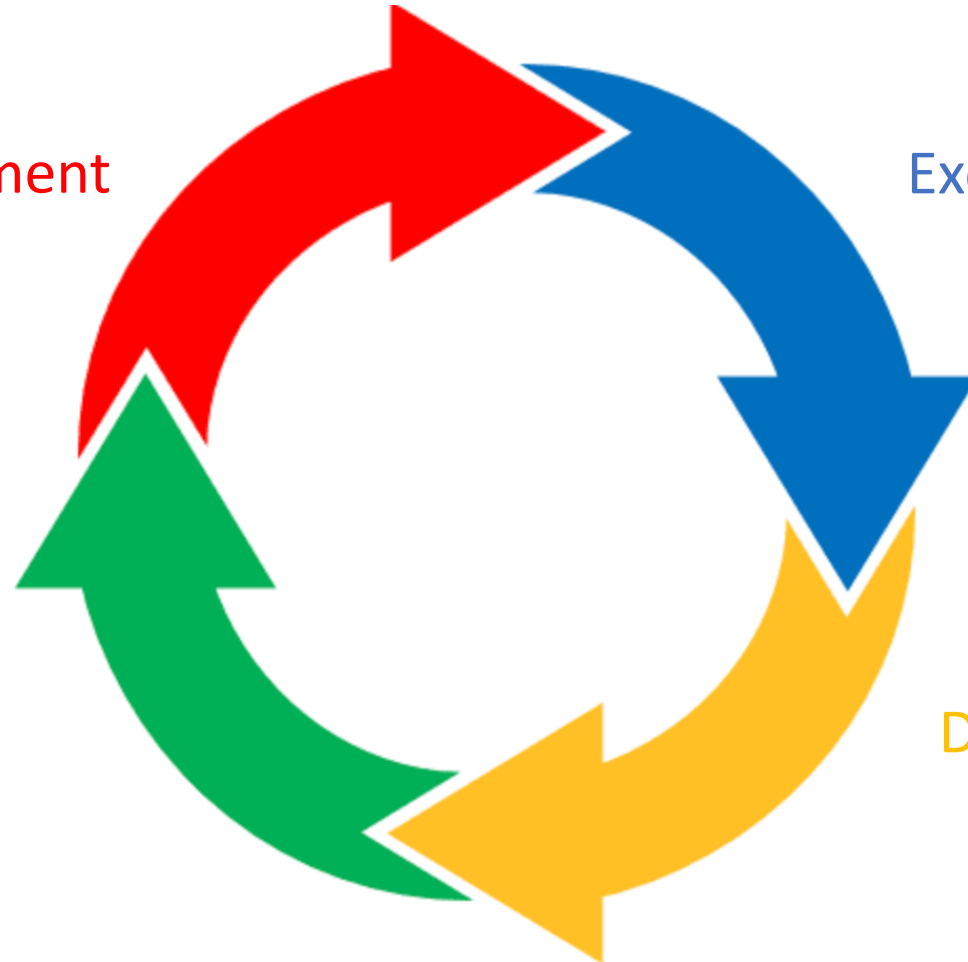
Excitation

New tools

Professionalism

Difficulties

Connectivity
IT issues



online education in radiology



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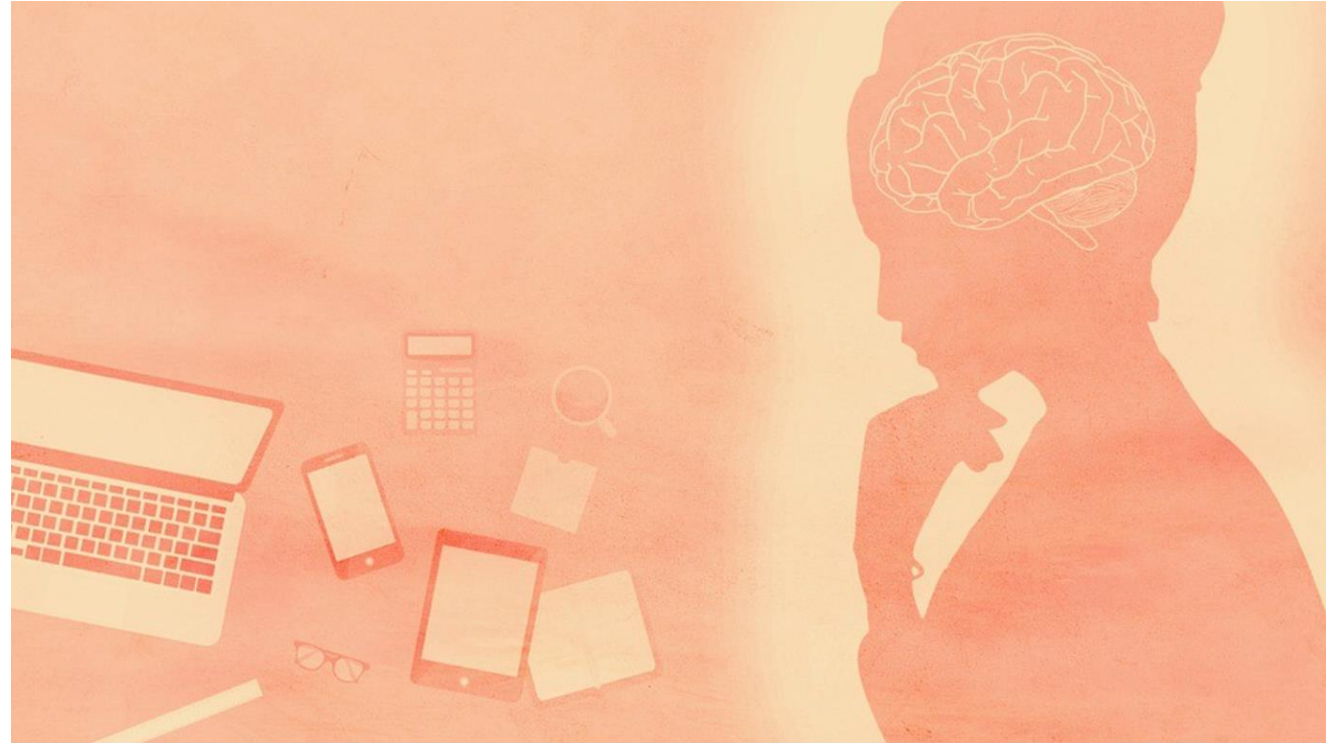
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digital education in radiology:a bit of rigour

- Concentration
- Motivation
- Internal distractions
- External distractions



digital education in medicine: where do we stand?

- There is yet not much research on evaluating broadly e-learning in higher education
- More of the reviewed research present online teaching assessment from the teacher's point of view rather than the students' point of view
- Universities were not prepared for shifting into online teaching from day to day
- Many articles prove that a common problem is the preparation of teachers for e-learning
- Despite the development of innovative e-learning tools, it is the teacher who plays the main role in the learning process
- Students are eager to learn online, while teaching staff is not yet necessarily ready for it
- There is a lack of general guidelines for successful e-learning

We all have applied our old recipes; should we rethink how digital education should be done?

digital education in Radiology: survey

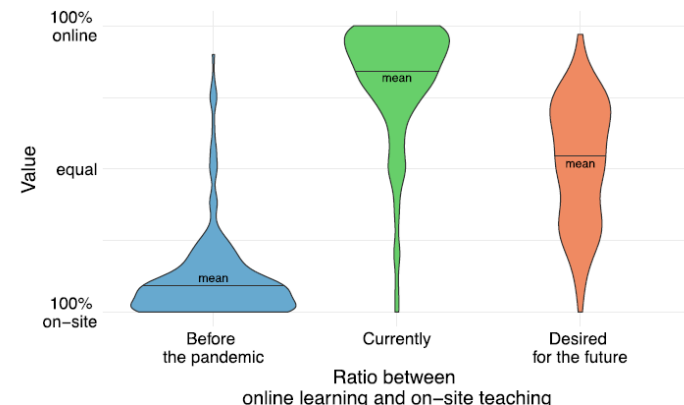
- 224 radiologists from 31 different countries
- web-based survey about the online teaching situation before/during the pandemic

PLUS

- radiology is particularly well-suited for online teaching (91%)
- online teaching should play a more prominent role after the pandemic (73%)
- lecturers should be familiar with online teaching techniques (89%)

MINUS

- higher workload in preparing online courses (59%)
- Issues with motivating students to follow online courses (56%)
- risk of social isolation (71%)



a structured, framework-based “online curriculum” should be established

Classical digital education in radiology



ESOR FOUNDATION COURSES

[Cardiovascular Imaging, January 18](#)
[Urogenital Radiology, February 1](#)
[Conventional Radiology, February 15](#)
[Medical Imaging Informatics, March 22](#)
[Breast Imaging, April 26](#)
[Chest Imaging, May 10](#)
[Interventional Radiology, May 24](#)
[Neuroradiology, June 7](#)
[Head and Neck Radiology, June 14](#)
[Hybrid Imaging, September 27](#)
[Paediatric Radiology, October 11](#)
[Abdominal Imaging, November 8](#)
[Musculoskeletal Radiology, November 22](#)

ESOR FOUNDATION COURSES

In 2023 ESOR is organising 13 online Foundation Courses dealing with specific topics adhered to **Level I and II of the European Training Curriculum**. The Foundation Courses are recommended by the **European Board of Radiology (EBR)** as one of the **tools** to help prepare for the **European Diploma in Radiology (EDiR)**. Each course is delivered by renowned European faculty and includes six topics consisting of 40 minutes of theory and case presentations followed by a live Q&A section after each session 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.

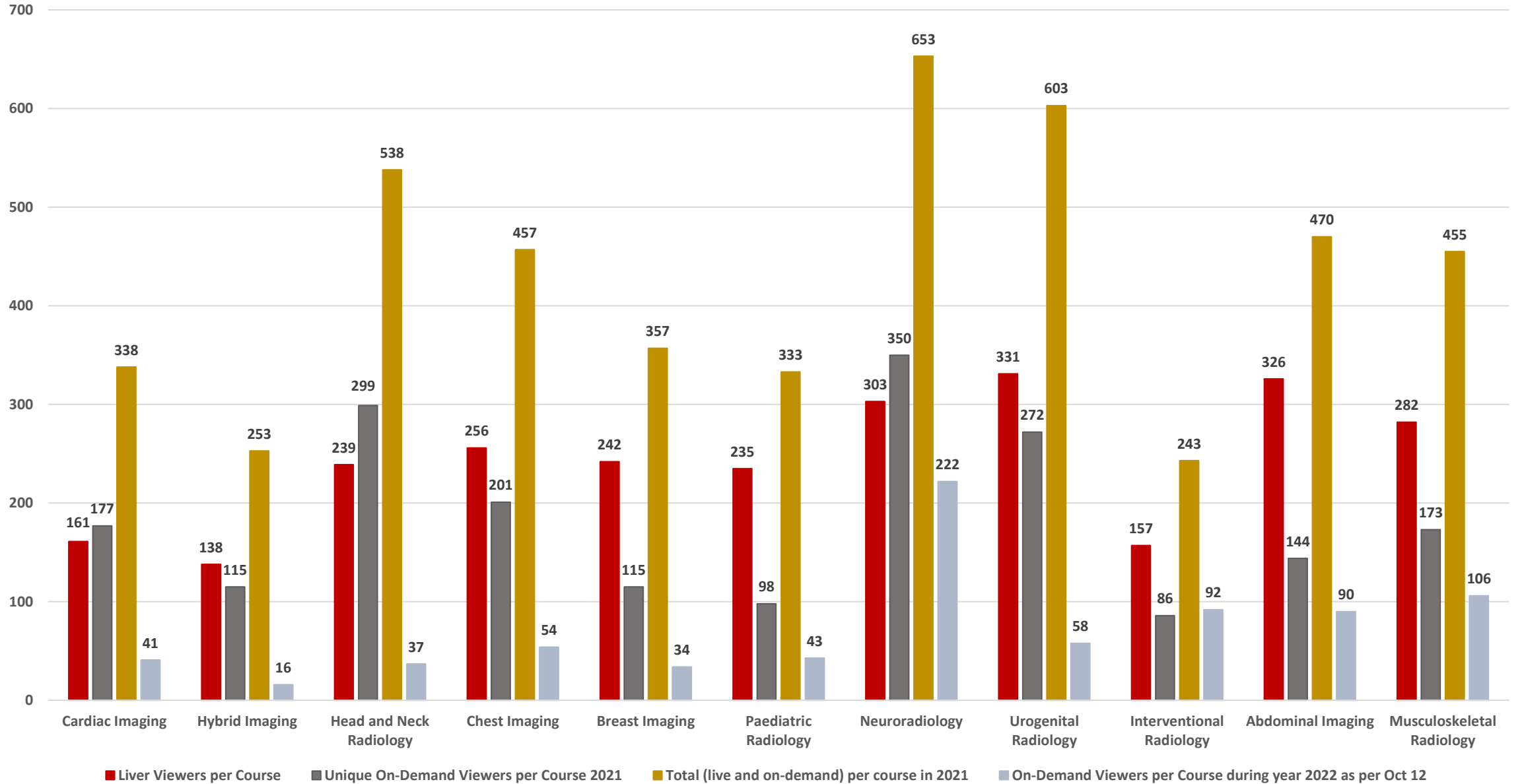
REGISTRATION

All 13 ESOR Foundation Courses of 2023 as well as all ESOR Foundation Courses of 2022 are included in the ESR Premium Education Package 2023.

The ESR Premium Education Package includes access to numerous educational services such as Education on Demand, ESRnet, and contact with ESR Content

Level I and II of the ETC
Half a day course
1 day, 1 topic
Lecture+ cases

Foundation Courses 2021



Digital education in radiology: can we do more?



Digital education in radiology: can we do more?

ESOR course in Brazil 2023

Part of the course will take place online (on-demand), and another part on-site.

- **Lectures:**

- online, 30 minutes, be self-recorded via zoom in advance
- available via a dedicated platform to registered participants who will watch these videos online before the on-site sessions.
- 3 self-assessment questions relating to the lecture

- **Lecture Summary / Workshops:**

- a short summary (5-10 minutes) of the lectures
- ask questions to test whether the participants watched the pre-recorded lectures
- workshops / case-based discussions onsite which will be live-live

Digital education in radiology: can we do more?

ESGAR virtual liver workshop 2023



The whole course will take place online

- **Step 1** – Virtual kick-off workshop in Zoom (November 9, 2023). Plenary 1-day virtual workshop with all participants. Goals of the kick-off meeting are to introduce and explain the new course format, the CMRAD web platform, discuss 1-2 cases with the whole group
- **Step 2** – Pre-course self-assessment test for participants
- **Step 3** – Independent reviewing of cases using CMRAD
- **Step 4** – “Meet the expert” hands-on feedback session (December 11 and 12)
- **Step 5** – Post-course self-assessment test for participants

ESR statement on new approaches to undergraduate teaching in Radiology

- Radiology teaching in medical schools is evolving; e-Learning modules must be integrated into the undergraduate teaching curriculum.
- Online independent preparation, prior to classroom sessions where learnt contents can be applied, is part of the new teaching approaches.
- Learning and teaching the appropriateness of imaging means a paradigm shift towards a more holistic approach of undergraduate education in radiology.
- Simulation-based training represents a key feature for undergraduate's education.

Conclusion

- Digital education is booming and will continue to grow
- It has many advantages allowing wider access to education
- Yet, digital education should be evaluated extensively
- Digital education should not be only an on line translation of classical education but should incorporate new tools, new approaches

**Medical conferences in the post-COVID world:
a challenge, and an opportunity**

European Society of Radiology (ESR)

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