Evidence Based Medicine for Radiology, Part 2 (D012462)

Course Specifications
Valid as from the academic year 2017-2018

Lecturers in academic year 2019-2020
Verstraete, Koenraad
JANS, LENNART
Van Biesen, Wim

Offered in the following programmes in 2019-2020
Master of Medicine in Specialist Medicine (main subject Radiology)
Master of Medicine in Specialist Medicine (main subject Radiology)

Teaching languages
Dutch

Keywords
Radiology, radiography, radioscopy, CT-scan, ultrasound, Magnetic Resonance imaging, positron-emission tomography, medical imaging, angiography, interventional radiology, Evidence Based Medicine, guidelines, scientific literature

Position of the course
The more "management" aspects of EBM are covered: guidelines, care pathways with attention to social relevance and repercussions on medical policy options etc. This requires basic knowledge concerning EBM, but also a certain technical experience and competences.

Contents
The offer of theoretical modules (2 hour seminar) of which the trainee has to follow at least 2 modules:
• evaluation of surgical techniques and devices: IDEAL (idea, development, exploration, assessment, long-term follow-up) methodology
• alternative trial designs for evaluation of surgical techniques
• measurement of health related QoL (quality of life) of surgical trials
• evaluation of quality and quality improvement program
• guidelines for interpretation of guidelines
• evidence from non-randomised studies
• evidence for rare disorders: what can help?
• establish and report on site (clinical) research: tips, pitfalls and tricks
• AGREE (appraisal of guidelines for research and evaluation) as a tool for evaluation of the quality of guidelines
• translation of evidence based medicine to the patient: shared decision making

Initial competences

(Approved)
having successfully completed the course “Advances in Evidence Based Medicine, including practices”, major subject radiology

Final competences

2. Converting published guidelines to local applicable directives for the benefit of the performance and efficiency of a department.

Conditions for credit contract

Access to this course unit via a credit contract is determined after successful competences assessment.

Conditions for exam contract

This course unit cannot be taken via an exam contract.

Teaching methods

Guided self-study, seminar, self-reliant study activities

Learning materials and price

Website Cochrane (www.cochrane.org) and CEBM (http://www.cebm.net/) Hand-outs / powerpoint presentation

References

Journals radiology

Course content-related study coaching

Consultation of lecturer (appointment or via email)

Evaluation methods

continuous assessment

Examination methods in case of periodic evaluation during the first examination period

Examination methods in case of periodic evaluation during the second examination period

Examination methods in case of permanent evaluation

Portfolio, peer assessment

Possibilities of retake in case of permanent evaluation

examination during the second examination period is possible

Extra information on the examination methods

The trainee needs to apply the theoretical knowledge in an exercise. The trainee can choose one of the following possible applications:

- Practical exercise AGRE
  A published guideline about one particular topic is methodologically analyzed and the quality and relevance are evaluated. By means of the AGREE tool, the various guidelines about a clinical question are individually evaluated. Then, the statements of the various directives are put in a summary data extraction table and a joint position is taken in a consensus process. (It is a group work with no less than 3 – 4 persons and can be performed multidisciplinary, possibly with people external to the master in advanced medicine.)

- Practical exercise ADAPTE
  As a result of individual patiëntensituationen, a published guideline is evaluated in accordance with a standardised questionnaire (the ADAPTE methodology) and is adapted in consensus in a local implementable directive. (It is a group work with at least 5 – 6 persons not necessarily belonging to the same specialty, possibly with people external to the master in advanced medicine.)

- Practical exercise: translating a guideline into a patient information tool
- Practical exercise: setting up a (clinical) study protocol
- Essay of "problems when compiling and interpreting guidelines" (based on existing literature and focused on own field)

Calculation of the examination mark

The evaluation can take place at the earliest in the second last academic year of the study programme. If the trainee wishes to take up the course earlier, the trainee has to motivate this request in oasis.ugent.be and the curriculum committee has to approve the request.

(Approved)
In order to be evaluated positively the trainee has to meet the following minimum criteria:
- attend at least 2 theoretical modules
- implement at least one of the offered exercises (and scientific assessment in Medbook)
- present at least 1 additional EBM-exercise at the workplace
The lecturer in charge evaluates the submitted project, where equal weighting is given to knowledge, capacity for collaboration and consensus with the other group members, critical-constructive cooperation, sense of being systematic, and clarity.
A “pass” / “fail” result is given.