FACULTY OF MEDICINE
Lund University

Department of Nursing

Ratified by Head of Department:
2004-02-19

Course Syllabus

RSJ015 Radiography and Patient Care in Neuroradiology (year 3), 20 ECTS

The course is part of an exchange programme within Erasmus/Socrates.

OBJECTIVE OF THE COURSE

The objective of this course is that the students shall broaden and deepen their theoretical knowledge and practical skills in general radiography and neuroradiology. This includes patient care, neuroanatomy, neurological diseases and diagnoses. The students shall improve their skills in analysing and reporting scientific facts.

CONTENT

The course is divided into 4 parts.

Part A: General radiography
- Radiographic procedures
- Technique
- Radiation protection
- Image interpretation
- Nursing care of the patient
- Documentation

Part B: Literature review and case study in neuroradiology
- Use of data bases
- Analysing articles
- Radiographic procedures (angiography, computed tomography, magnetic resonance imaging)
- Technique
- Anatomy
- Diseases
- Diagnostic radiology
- Patient care
- Reporting

Part C: Clinical training in the x-ray department
- General examinations
- Neuroradiology examinations (angiography , computed tomography, magnetic resonance imaging)

Part D: Swedish Language and orientation about the Swedish society

STUDY OBJECTIVES

On completion of the course students shall:

- have an insight in radiological work in Sweden
- be able to perform general examinations, explain procedures, understand and practice radiation protection
- be competent in patient care
- be able to explain different choices of examination techniques in relation to different diagnosis
- have written a case study concerning a patient's examination in neuroradiology describing anatomy, disease, radiographic procedures, patient care and radiation protection
- have trained their ability to find and analyse scientific articles concerning chosen case studies
- have presented a case study
- be orientated in the Swedish language and society

WORKING METHOD

The theoretical training is based on personal study. Lectures, group and individual work, clinical practice and seminars are included, to give support.

Clinical training in the x-ray departments is given under the guidance of a qualified radiographer/radiological nurse.

ELIGIBILITY

Students, in their 3rd study-year at Institutes/Schools that are connected to "Erasmus Radiography Group", are eligible for the course.

EXAMINATION

In order to qualify the following is required:

- a pass in the clinical training
- participation at the seminars
- to have written and presented a case study

GRADES

Grades are awarded for completing the course (SFS 1993:100, Chapter 6 §§ 10-11). One of the expressions failed or pass shall be used as a grade.

COURSE CERTIFICATE

Students, who have successfully completed the course, shall on request be issued with a course certificate by the institute of higher education (SFS 1993:100 chapt. 6 §16).

COURSE LITERATURE/OTHER EDUCATIONAL MATERIALS

See appendix.

Library reference: Ratified by Head of Department: 2004-02-19

Litteratur

RSJ015 Radiography and Patient Care in Neuroradiology (year 3), 20 ECTS

Ballinger, P.W., Frank, E.D. (1999). *Merrill´s Atlas of Radiographic Positions and Radiologic procedures*. Vol. 1. (9th ed.). St. Louis: Mosby. ISBN 0-8151-2650-6.

Ballinger, P.W., Frank, E.D. (1999). *Merrill´s Atlas of Radiographic Positions and Radiologic procedures*. Vol. 2. (9th ed.). St. Louis: Mosby. (s. 357-377). (20 s.). ISBN 0-8151-2650-6.

Ballinger, P.W., Frank, E.D. (1999). *Merrill´s Atlas of Radiographic Positions and Radiologic procedures*. Vol. 3. (9th ed.). St. Louis: Mosby. (s. 131-174). (43 s.). ISBN 0-8151-2650-6.

Bushong,S.C. (2001). *Radiologic Science for Technologists*. Physics, Biology, and Protection. 7th ed. St. Louis: Mosby. ISBN 0-323-01337-6.

Möller,T.B. Reif,E. (1994). *Pocket Atlas of Cross-Sectional Anatomy CT And MRI*. Volume 1: Head, Neck, Spine, and Joints. New York: Thieme Medical Publishers. ISBN 0-86577-510-9.

Tortora, G., & Grabowski, S. (2002). *Principles of Anatomy and Physiology*. (10th ed). New York: Wiley. (1056s.) ISBN 91-47-04905-7.

Westbrook,C., Kaut,C. (1998). *MRI in Practice*. 2nd ed. Oxford: Blackwell Science Ltd. ISBN 0-632-04205-2.

Research articles