

Course syllabus for

Radiography - clinical education 5, 7.5 credits

Radiografi - verksamhetsförlagd utbildning 5, 7.5 hp This course syllabus is valid from autumn 2010.

Please note that the course syllabus is available in the following versions:

<u>Autumn2007</u>, <u>Spring2009</u>, <u>Autumn2009</u>, Autumn2010, <u>Autumn2011</u>, <u>Autumn2012</u>, <u>Autumn2016</u>,

Autumn2018, Autumn2024, Spring2025

Course code 1RS019

Course name Radiography - clinical education 5

Credits 7.5 credits

Form of Education Higher Education, study regulation 2007

Main field of study Radiography

Level G2 - First cycle 2

Grading scale Pass, Fail

Department Department of Clinical Science, Intervention and Technology

Decided by Programnämnden för röntgensjuksköterskprogrammet

Decision date 2007-06-20

Revised by Programnämnd 6 Biomedicinsk analytiker- och

Röntgensjuksköterskeprogrammen

Last revision 2010-05-17 Course syllabus valid from Autumn 2010

Specific entry requirements

To be qualified to a higher semester, it is required that the student has taken at least 15 credits from last semester, and all credits from previous semesters. The admittance to the course requires a pass in the course Radiography - clinical rotation 4, 7,5 credits Students who have failed in the clinical rotation or the equivalent as a consequence of demonstrating deficiencies in knowledge, skills or attitude so serious that the patient's safety or confidence in healthcare have been at risk is qualified for a new clinical rotation only when the individual action plan has been completed.

Objectives

The aim of the course is that the student should acquire knowledge and skills within the radiographer's area of responsibility in connection with angiography, interventions, magnetic resonance imaging and ultrasound. Further, the aim is that the student has developed his/her ability to interact with patients, their family, and colleagues. On completion of the course, the student should be able to - treat the patients and their family with respect and based on their different needs and give patients adequate care in complex nursing environments - adapt the communication on the basis of the patient's needs, and give

individual information about examinations and treatments - prepare, and instruct the patient in connection with examinations and treatments and consider safety aspects - discuss and explain the choice of the examination method based on information in the referrals and from the patients - carry out commonly occurring examinations with support of the supervisor within magnetic resonance imaging - perform aseptic technique and prepare patients and equipment for sterile procedures - assist within angiography or intervention with support of the supervisor - explain and apply a radiation-hygienic way of working in connection with angiography and interventions regarding image quality and radiation protection of patients and staff - explain for reporting and documentation of adequate information according to current regulations in connection with examination or treatment

Content

The main part of the course implies practical training within angiography and intervention, and magnetic resonance imaging MRI). A smaller part is located within ultrasound diagnostics. Clinical rotation focuses on parts that concerns the values, knowledge and skills, as well as communicative aspects and patient care in connection with the examinations or treatments. Angiography and interventions In order to get an overall view about the aim and the performance of examinations and treatments, the student will participate in all the phases with support of a supervisor. This means planning and preparations on the basis of the information from patient journal and from communication with patients and staff, and performance of the examinations and reporting. Important aspects are patient care and communication skills, drugs, laying a sterile table and management of other sterile materials, radiation protection arrangements, reporting and documentation after a completed examination or treatment. Magnetic resonance imaging The student participates in planning and preparation as the prevention of risks and application of security measures are of great importance. The student performes commonly occurring examinations with support of the supervisor and in this also includes patient care, communication and administration of drugs, and documentation. Ultrasound The student participates in planning and preparation of examinations and contributes in occurring treatments such as thoracentesis or taking of specimens and administration of drugs.

Teaching methods

In addition of practical training, the course includes even study assignments and seminars in order to stimulate active knowledge acquisition, problem-solving and theoretical anchorage and to give the student an overall view of methods and to reflect on patient perspective. Planning of the clinical education takes place in consultation with the appointed adjunct clinical teacher.

Examination

In the final assessment, an overall assessment is included, which implies that the student's achievements are assessed based on the parts in the expected learning outcomes and study assignments. An evaluation form which is given to the student at the beginning of the course, is used as the basis of half-time and final assessment. The clinical rotation is compulsory and constitutes 32 hours per 1.5 credits. Compensation due to absence is planned in consultation with the appointed clinical teacher. The student has the right to undergo the clinical rotation within a course at most two times. The examiner may with immediate effect interrupt a student's clinical rotation (VFU), or the equivalent, if the student demonstrates such serious deficiencies in knowledge, skills or attitudes that patient safety or patient confidence in healthcare is at risk. When a clinical rotation is interrupted like this, it implies that the student fails in the current part, and that one clinical rotation opportunity is used up. In such cases, an individual action plan should be set up for required activities and examinations, before the student is given a possibility for a new clinical rotation in the course.

Transitional provisions

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The student has the opportunity to be examined according to a previous course syllabus within a year from the date when a close-down or major changes or the course was decided.

Other directives

Course evaluation will be carried out in accordance with the guidelines established by the Board of Education at Karolinska Institutet.

Literature and other teaching aids

Björkman, Eva; Karlsson, Karin

Medicinsk teknik för sjuksköterskor : material, metod, ansvar

2., [rev. och utök.] uppl.: Lund: Studentlitteratur, 2001 - 206 s.

ISBN:91-44-01669-7 LIBRIS-ID:8353030

Library search

Ehrlich, Ruth Ann; McCloskey, Ellen Doble; Daly, Joan A.

Patient care in radiography: with an introduction to medical imaging

6. ed.: St. Louis, Mo.: Mosby, cop. 2004 - xv, 447 s.

ISBN:0-323-01937-4 LIBRIS-ID:9649937

Library search

Isaksson, Mats

Grundläggande strålningsfysik

Lund, Annika

Lund: Studentlitteratur, 2002 - 310 s.

ISBN:91-44-01528-3 LIBRIS-ID:8427844

Library search

Möller, Torsten B.; Reif, Emil

Pocket atlas of sectional anatomy: computed tomography and magnetic resonance imaging. n Vol. 3, p Spine, extremities, joints

Stuttgart: Thieme, cop. 2007--ix, 334 s.

LIBRIS-ID:10446229

URL:

https://lt.ltag.bibl.liu.se/login?url=http://www.thieme.com/SID2358701978210/ebooklibrary/flexibook/pulz Extern access endast anställda och studenter vid LiU

Möller, Torsten B.; Reif, Emil

Pocket atlas of sectional anatomy: computed tomography and magnetic resonance imaging.n Vol. 1,p Head and neck

3. ed., rev. and updated /b Torsten B.Moeller, Emil Reif: Stuttgart: Thieme, 2007 - ix, 264 s.

ISBN:3-13-125503-X (GTV) LIBRIS-ID:10257344

Library search

Möller, Torsten B.; Reif, Emil

Pocket atlas of sectional anatomy: computed tomography and magnetic resonance imaging. n Vol. 2, p Thorax, heart, abdomen and pelvis

3. ed., rev. and updated: Stuttgart: Thieme, cop. 2007 - viii, 247 s.

ISBN:3-13-125603-6 (GTV) LIBRIS-ID:10322889

Library search

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Radiologi

Aspelin, Peter; Pettersson, Holger

1. uppl.: Lund: Studentlitteratur, 2008 - 848 s.

ISBN:978-91-44-03887-2 (inb.) LIBRIS-ID:10948825

URL: http://www.studentlitteratur.se/omslagsbild/artnr/31995-01/height/320/width/320/bild.jpg

Library search

Ehnfors, M; Ehrenberg, A; Thorell-Ekstrand, I

VIPS-boken

Stockholm: Vårdförbundet SHSTF FOU 2000:48, 2007

Ellis, Harold; Logan, B. M.O 231179; Dixon, Adrian K.

Human sectional anatomy: atlas of body sections, CT and MRI images

3. ed.: London: Hodder Arnold, 2007 - xvii, 267 p. ISBN:978-0-340-91222-5 LIBRIS-ID:10400822

Library search

Feneis, Heinz

Anatomisk bildordbok

Dauber, Wolfgang

4., omarb. uppl.: Stockholm: Liber, 2001 - [8], 447 s.

ISBN:91-47-05077-2 LIBRIS-ID:8354393

Library search

Författningshandbok för personal inom hälso- och sjukvården. 2010 = 41. uppl.

Raadu, Gunnel

Stockholm: Liber, 2009 - 823 s.

ISBN:978-91-47-09938-2 LIBRIS-ID:11741634

Library search

Lindskog, Bengt I.

Medicinsk terminologi

Andrén-Sandberg, Åke; Frank, Urban; Buckhöj, Poul

5., [rev.] uppl. /b [illustrationer: Urban Frank och Poul Buckhöjd] : Stockholm : Norstedts Akademiska, 2008 - 704 s.

ISBN:978-91-7227-557-7 (inb.) LIBRIS-ID:10740673

Library search

Rönnberg, L

Hälso- och sjukvårdsrätt

2., [uppdaterade och omarb.] uppl.: Lund: Studentlitteratur, 2007 - 340 s.

ISBN:978-91-44-02067-9 LIBRIS-ID:10302460

URL: http://www.studentlitteratur.se/omslagsbild/artnr/31851-02/height/320/width/320/bild.jpg http://www.studentlitteratur.se/omslagsbild/artnr/31851-02/height/320/width/320/bild.jpg http://www.studentlitteratur.se/omslagsbild/artnr/31851-02/height/320/width/320/bild.jpg https://www.studentlitteratur.se/omslagsbild/artnr/31851-02/height/320/width/320/bild.jpg https://www.studentlitteratur.se/omslagsbild/artnr/31851-02/height/320/width/320/bild.jpg