



Erasmus-exchange course information

Duration: January, February, March, beginning April (13 weeks)

Ultrasound program

Course unit code: *ERAS US*

Theoretical ultrasound: 10 ECTS

- PBL-cases
 - anatomy
 - pathophysiology
 - scanning techniques
 - hardware and other imaging modalities
- ultrasound physics
- self-study
- image recognition
- tutored presentations

Practical ultrasound: 8 ECTS (skillslab and clinical placement)

- practics demonstration
 - aorta, IVC, liver, portal system, hepatic veins, gallbladder and bile-duct, pancreas, spleen, kidneys
- practics exercise, tutored by students
- practics assignment
- practics feedback
- practics ultrasound physics
- clinical outplacement (2-4 days)

Social programme: 2 ECTS (language, culture, etc.)

- including Erasmus presentations

Curriculum ultrasound programme 2012

INTRODUCTION

This folder contains information about the objectives and work forms for the module ultrasound ERASMUS. It also contains information about the lecturers associated with the module. The module stretches over approximately 13 weeks, from January till April 2012. During this module the Dutch students will be given the opportunity to travel to foreign institutions that are taking part in the ERASMUS-programme.

The module description that follows is intended for incoming foreign ERASMUS students. The programme offered to exchange students abroad is considered equivalent in credit terms to the programme offered here. The module focuses on anatomy, pathology, physics and examination-skills, needed for basic ultrasound examination of the upper abdomen. Some lessons are accompanied by Dutch MBRT-students.

The module comprises of 20 ECTS. 10 ECTS in theory, 8 ECTS in practical settings and 2 ECTS in social programme.

Information about the lecturers

Coordinator for ERASMUS-project

Geert Plug, geert.plug@inholland.nl,

Tutor / lecturers ultrasound:

Geert Plug

DESCRIPTION OF ULTRASOUND PROGRAMME

Objectives

- have understanding of the normal anatomy and physiology of the organs and vascular systems in the upper abdomen
- develop scanning skills in order to evaluate organs and vascular systems in the upper abdomen by ultrasound and produce images of these
- be able to perform a basic ultrasound-examination in a given case
- recognize abnormal appearance of the organs and vascular systems in the upper abdomen
- have understanding of pathologic processes and their sonographic appearances
- apply knowledge of ultrasound physics in practical examination
- further develop communicative en co-operative skills
- has insight into the role of the ultrasound-technician in relation to the organization of a radiology department

LEARNING METHODS/STUDENT PARTICIPATION

The following learning methods will be used.

Problem based learning (PBL) which requires participation in:

- group meetings with problem tasks
- lectures
- role-play exercises and demonstrations
- individual study
- project and report writing in English
- oral presentations of the report in English

Skillslab training

- practical training on ultrasound equipment in the skillslab
- attending to lessons in other work fields, s.a. radiology, radiotherapy and nuclear medicine

Clinical outplacement (2-4 days)

- attending to ultrasound examinations
- performing basic examinations with ultrasound
- performing basic examinations in radiology

The intercultural, international composition of the class will be an important resource in the learning and work processes during the module. Lectures and seminars will be in English. Group work will also be conducted in English.

Mandatory studies

In this module all of the sessions with lecturer are **mandatory**.

Absence from mandatory studies

The group will keep count of absence from group meetings. After the last meeting in each situation a list will be handed to the group tutor. A student who has not been present at the mandatory learning sessions is responsible for handing a written suggestion as to how s/he will acquire imparted knowledge to the group tutor.

ASSESSMENT

Study requirements:

- attending to mandatory classes with a satisfactory contribution
- all assignments are handed in
- presentations assessed to pass
- clinical placement passed
- practical and theoretical exams assessed to pass

LITERATURE

Handed out:

- workbook ultrasound
- practical workbook