



**Karolinska  
Institutet**

Course syllabus for

# **Orthopedic trauma - an advanced course, 3 credits**

Akut ortopedi - en fördjupningskurs, 3 hp

This course syllabus is valid from spring 2011.

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

Spring2011 , Spring2013 , Spring2014 , Autumn2014 , Spring2017 , Autumn2018 , Spring2024

|                            |  |
|----------------------------|--|
| Course code                | 2LK046   |
| Course name                | Orthopedic trauma - an advanced course                       |
| Credits                    | 3 credits  |
| Form of Education          | Higher Education, study regulation 2007                      |
| Main field of study        | Medicine   |
| Level                      | AV - Second cycle  |
| Grading scale              | Pass, Fail   |
| Department                 | Department of Clinical Science and Education, Södersjukhuset |
| Decided by                 | Programnämnd 2   |
| Decision date              | 2010-11-16   |
| Course syllabus valid from | Spring 2011  |

## **Specific entry requirements**

All higher education credits from semester 1-6.

## **Objectives**

The general aim is that the students should obtain a deep insights into the three-dimensional structure of the body and how the body reacts to trauma to the musculoskeletal system. The students should evaluate and analyse the existing evidence for different treatments within trauma orthopaedics. On the basis of this basic knowledge, the students should be able to assess and initiate treatment of specific trauma cases. The knowledge is tiered according to the SOLO taxonomy (S1-S4) and the skills according to Miller's pyramid (M1-M4) \*. Knowledge and understanding: The student should - be able to comprehensive describe macro - and micro anatomic structures relevant to clinical examination and healing progress after trauma. S3 - be able to included explain the reaction to trauma and healing progress in skeleton of the body and soft tissues. S3 - be able to analyse the overall picture including psychosocial aspects around a trauma patient and assess natural progress and possible indication for surgery. S4 - be able to understand the reasons for trauma complications and be able to initiate the primary complication treatment. S3 Skills: The student should - be able to independently primary process patients with fractures on the emergency department M3 - be able to establish a treatment plan

for patients with commonly occurring injuries against the musculoskeletal system M3 Approach: The student should - be able to analyse how own values and attitudes can influence the treatment and treatment of injured patients S3 - be able to review and evaluate clinical issues as well as current research results based on an evidence-based attitude S4 critically.

## Content

The basis of the course is that the students, with anatomy and pathophysiological knowledge as a starting point, should refine their ability to take medical history, status, and plan the treatment. The theoretical training is followed of placement on the emergency department, surgery and the orthopaedic department. The students should search, process and present current evidence within orthopaedic traumatology. Sex and gender aspects concerning various types of trauma and fractures, and their treatment, will be high-lighted. Integrating assignments in the course The clinical core of the course is based on the motion of the function system and on the following integrating assignments: Swelling/pain in joint/extremity Trauma/injury Wounds Stress/crisis reaction

## Teaching methods

The course includes case-based seminars (case) and practical exercises and demonstrations such as simulated exercises and laboratory sessions. School located placement will take place within department of Ortopaedics (reception, emergency department and surgery) Södersjukhuset. Basic scientific integration takes place in connection with seminars and laboratory sessions Professional skills is integrated in the course and covered specifically in connection with the student receptions. Scientific development is included as a natural part of the course as some of the parts of the course imply that students search for evidence of common treatment methods within orthopaedic traumatology.

## Examination

The examination takes place orally, with a presentation of the implemented project work and a following case discussion. Higher education credits: The 2.5 p of course. Examination 0.5 p Compulsory parts: Laboratory sessions, seminars and clinical practice. Limitations of the number examination or practical training sessions The number of examination and practical training sessions follows the local guidelines of Karolinska Institutet, implying that the number of examinations is limited to 6, while placement, as a rule, may be repeated only once. 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 clinical rotation is interrupted according to 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. Eligibility A student failing due to shortcoming in knowledge skills or attitudes, thus jeopardizing patient security and/or trust in medical care, could be assigned for a new clinical rotation only after having completed the individual plan.

## Transitional provisions

If a course has been closed down or undergone major changes, at least two additional examinations (excluding regular examinations) in the previous contents are provided during a period of a year from the date of the change.

## Other directives

The course connects to and enhances core knowledge within the Study Programme in Medicine. Course evaluation takes place according to the guidelines that have been stated by the Board of education at

Karolinska Institutet. The course may not be included in a degree at the same time as an advanced course completed inside or outside the country, the contents of which fully or in essential parts corresponds to the current course contents. If you are uncertain contact the study guidance. \* The knowledge is tiered according to the SOLO taxonomy: S1) simple (e.g. know, identify), S2) compound (e.g. account for, describe), S3) related (e.g. analyse, relate), and S4) extended (e.g. theorise, analyse). The skills are structured according to Miller's pyramid: M1) know, M2) know how to carry out M3) be able to demonstrate, and M4) be able to carry out in a professional manner.

## Literature and other teaching aids

### **Skeletal trauma : fractures, dislocations, ligamentous injuries**

*Browner, Bruce D.*

2. ed. : Philadelphia ;a London : W.B. Saunders, cop 1998 - 2 v.

ISBN:0-7216-6884-4 LIBRIS-ID:5522921

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