



**Karolinska
Institutet**

Course syllabus for

Surgical, endovascular and medical management of cardiovascular disease, 4.5 credits

Kirurgisk, endovaskulär och medicinsk behandling av kardiovaskulär sjukdom, 4.5 hp

This course has been cancelled, for further information see Transitional provisions in the last version of the syllabus.

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

Autumn2010 , Autumn2013

Course code	2LK041
Course name	Surgical, endovascular and medical management of cardiovascular disease
Credits	4.5 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 Molecular Medicine and Surgery
Participating institutions	<ul style="list-style-type: none">• Department of Medicine, Solna• Department of Global Public Health
Decided by	Programnämnd 2
Decision date	2010-05-11
Revised by	Programme committee for study programme in medicine
Last revision	2024-06-18
Course syllabus valid from	Autumn 2013

Objectives

The general aims of the course are for the students to increase their knowledge of the occurrence of cardiovascular diseases in the population and the very important primary and secondary preventive actions that must be taken to improve public health now and in the future.

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 orally and be able to in writing

- explain the development of atherosclerosis (S3)
- explain and be able to relate the links between the relevant anatomy, such as vascular events and

cardiovascular disease (S3)

- account for the occurrence of the most common cardiovascular atherosclerotic national diseases in Sweden and for the primary investigation that should be carried out at primary care level (S2)
- relate clinical diagnostics and diagnostic tools in these diseases to those used within primary care and specialist care, e. g. radiological (S3)
- compare and reflect on the modern current medical, radiological and surgical treatment of these diseases that are provided in primary care and specialist care (S3)
- At a general level, understand the most common complications of the treatments that are provided in these specialities (S2)

Skills:

The student should

- be able to primary process and diagnose patients from the major disease groups that are included in the cardiovascular disease complex at the level of primary care (M4)
- have obtained advanced skills in medical history taking and specific status training (M4)
- have increased his/her ability to assess patients' needs of investigation and treatment (M3)

Approach:

The student should

- be able to analyse and explain gender differences within the field (S3)
- be able to show a good understanding of modern and future multi-disciplinary treatment of cardiovascular disease (S3)

Content

Diagnostic skills are trained with special focus on this today dominant patient group of the general practitioners. The students will increase their ability to assess patients' needs of an investigation and treatment and will obtain a good understanding of modern and future treatment of cardiovascular disease.

Gender perspective and public health perspectives will be emphasised e g possible gender differences in diagnostics, choice of primary and secondary preventive treatment and results of chosen treatment. Our specialities work with an increasing transnational orientation; the previous sharp dividing lines between cardiology, vascular surgery, thoracic surgery and interventional radiology have been erased and cooperation between specialists improve the treatment. This attitude to the patient dominates the course. In the course, small groups may participate actively in patient-close activities; clinics and studies, observing surgery, observing a PCI or PTA (balloon dilatation in coronary vessels or peripheral vessels). The students will be given opportunity to perform angiography on patients in simulators.

That all teachers work with clinical research in parallel with their clinical activities will of course permeate the lectures. Strong emphasis is also placed on a scientific attitude when epidemiology, treatment options and results are presented.

In the course, elements from a large number are integrated by the defined "funktionssystemen", e g the field circulation (e g chest pains, heart murmurs, blood pressures, swelling extremity), hematopoiesis (hemorrhagic disorder, fever), respiration (dyspnea), digestion (e g abdominal pain, abdominal swelling, resistance in the abdomen), mental (e g unconsciousness, anxiety, concern), senses (e g vision disorder, dizziness), skin (intractable wounds, wound), development/aging (e g unexpected death) and movement (e g pain in extremity, abnormal time, paralysis).

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 take 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

Kirurgi

Haglund, Ulf; Hamberger, Bertil; Arnér, Staffan; Wilhelmsson, Jan

6., [omarb. och uppdaterade] uppl. : Stockholm : Liber, 2005 - 571 s.

ISBN:91-47-05252-X LIBRIS-ID:10030249

[Library search](#)

Kvinnohjärtan : hjärt- och kärlsjukdomar hos kvinnor

Schenck-Gustafsson, Karin; Engquist, Jeanette

Lund : Studentlitteratur, 2003 - 326 s.

ISBN:91-44-02787-7 (hft.) LIBRIS-ID:8975994

[Library search](#)

Läkemedelsboken, n 2007

Stockholm : Apoteket AB, 2007 - 1260 s.

ISBN:91-85574-57-0 LIBRIS-ID:10399282

[Library search](#)

Persson, Stig

Kardiologi : hjärtsjukdomar hos vuxna

Engqvist, Jeanette

5., [rev. och utök.] uppl. /b [tecknare: Jeanette Engqvist] : Lund : Studentlitteratur, 2003 - 247 s.

ISBN:91-44-02377-4 LIBRIS-ID:8803260

[Library search](#)