



Pomeranian Medical University in Szczecin

SYLLABUS of the MODULE (SUBJECT)

valid from the academic year 2017/2018

General Information

Module title	<i>Modern ednovascular treatment of vascular diseases</i>
Module type	<i>Obligatory/Facultative</i>
Faculty	<i>Faculty of Medicine</i>
Field of study	<i>Medicine</i>
Major	<i>Not applicable</i>
Level of study	<i>long-cycle (S2J)</i>
Mode of study	<i>intramural</i>
Year of studies, semester	<i>Year IV</i>
ECTS credits (incl. semester breakdown)	
Type/s of training	<i>seminars (15h)</i>
Form of assessment	<p>- <i>graded assessment: *</i></p> <p><input type="checkbox"/> <i>descriptive</i></p> <p><input type="checkbox"/> <i>test</i></p> <p><input type="checkbox"/> <i>practical</i></p> <p><input type="checkbox"/> <i>oral</i></p> <p><i>X non-graded assessment *</i></p> <p>- <i>final examination: *</i></p> <p><input type="checkbox"/> <i>descriptive</i></p> <p><input type="checkbox"/> <i>test</i></p> <p><input type="checkbox"/> <i>practical</i></p> <p><input type="checkbox"/> <i>oral</i></p>
Head of the Department/ Clinic, Unit	<i>prof. Aleksander Falkowski</i>
Tutor responsible for the module	<i>prof. Aleksander Falkowski, Lech Cyryłowski, associate prof.</i>
Department's/ Clinic's/ Unit's website	<i>https://www.pum.edu.pl/wydzialy/wydzial-lekarsko-stomatologiczny/zaklad-radiologii-zabiegowej</i>
Language	<i>English, Polish</i>

*replace ☐ with X where applicable

Detailed information

Module objectives		To familiarize students with modern procedures of interventional radiology	
Prerequisite /essential requirements	Knowledge	Basic knowledge of general radiology	
	Skills	Observation and drawing conclusions; to relate practics with theory	
	Competences		
Description of the learning outcomes for the subject /module			
No. of learning outcome	Student, who has passed the (subject) knows /is able to /can:	SYMBOL (referring the standards) ZEK	Method of verification of learning outcomes *
W01	knows issues of modern imaging methods, in particular: a) radiological symptomatology of main diseases b) instrumental methods and imaging techniques used for performance of therapeutic procedures c) indications, contra-indications and preparation of patients for certain kinds of imaging examination and contra-indications to the application of contrast media	K F.W10	SP
W02	define basic concepts related to topics of the course		SP
W03	aplicate systemized knowledge in everyday work		SP
U01	Draws conclusions on relationships between anatomic structures from in vivo diagnostic investigation, in particular regarding	K A U.4	SP

	radiology (plain films, contrast examination, computer tomography and nuclear magnetic resonance)		
U02	specify application of every diagnostic and therapeutic procedures		SP
U03	explain to a patient the need to perform examinations and procedures by presenting their benefits		SP
U04	appreciate the risks associated with the invasiveness of medical procedures		SP
U05	recognize the problems associated with the use of contrast media,		SP
U06	know the methods of protecting staff members and patients against ionizing radiation		SP

Table presenting learning outcomes of the subject/module in relation to the form of classes

No.	SYMBOL (referring the standards) ZEK	Type/s of training						
		Lecture	Seminar	Practical classes	Clinical classes
1.	K F.W10		X					
2.	define basic concepts related to topics of the course		X					
3.	aplicate systemized knowledge in everyday work		X					
4.	K A U.4		X					
5.	specify application of every diagnostic and therapeutic procedures		X					

6.	explain to a patient the need to perform examinations and procedures by presenting their		X						
7.	appreciate the risks associated with the invasiveness of medical procedures		X						
8.	recognize the problems associated with the use of contrast media,		X						
9.	know the methods of protecting staff members and patients against ionizing radiation		X						

Module (subject) contents no.	Description of teaching programme	No. of hours	References to learning outcomes
	Seminars:		
TK01	Modern methods of imaging the circulation system	2,5	W01, W02, W03, U01, U02, U03, U04, U05, U06
TK02	The review of intravascular interventional procedures in diseases of the circulation system	10	W01, W02, W03, U01, U02, U03, U04, U05, U06
TK03	Safety rules in imaging diagnostics and invasive radiology	2,5	W01, W02, W03, U01, U02, U03, U04, U05, U06

Booklist

Obligatory literature:

1. Urban & Partner 2014; Waldman: Sekrety radiologii interwencyjnej.			
Supplementary literature:			
1. Herring: Radiologia. Podręcznik dla studentów.			
Student's workload (balance sheet of ECTS credits)			
Form of student's activity (in-class participation; activeness, produce a report, etc.)	Student's workload [h]		
	Tutor	Student	Average
Contact hours with the tutor	15		
Time spent on preparation to seminars/ practical classes			
Time spent on reading recommended literature			
Time spent on writing report/making project			
Time spent on preparing to colloquium/ entry test			
Time spent on preparing to exam			
Other			
Student's workload in total			
ECTS credits for the subject (in total)			
Remarks			

* Selected examples of methods of assessment:

EP – written examination

EU – oral examination

ET – test examination

EPR – practical examination

K – colloquium

R – report

S – practical skills assessment

RZC – practical classes report, incl. discussion on results

O – student's active participation and attitude assessment

SL – lab report

SP – case study

PS - assessment of student's ability to work independently

W – entry test

PM – multimedial presentation

other...