



Pomeranian Medical University in Szczecin

SYLLABUS of the MODULE (SUBJECT)

valid from the academic year 2017/2018

General Information

Module title	<i>Internal diseases, Diabetology</i>
Module type	<i>Obligatory (wybrać)</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, semester IV and V</i>
ECTS credits (incl. semester breakdown)	<i>1,25 for Diabetology</i>
Type/s of training	<i>seminars (4 h)/ practical (16 h)</i>
Form of assessment	<p>- <i>graded assessment: *</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> <i>descriptive</i> <input type="checkbox"/> <i>test</i> <input type="checkbox"/> <i>practical</i> <input type="checkbox"/> <i>oral</i> <p><i>X non-graded assessment *</i></p> <p>- <i>final examination: *</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> <i>descriptive</i> <input type="checkbox"/> <i>test</i> <input type="checkbox"/> <i>practical</i> <input type="checkbox"/> <i>oral</i>
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Tutor responsible for the module	Agnieszka Niemiec, agnieszka.niemiec@pum.edu.pl
Department's/ Clinic's/ Unit's website	https://www.pum.edu.pl/wydzialy/wydzial-nauk-o-zdrowiu/klinika-diabetologii-i-chorob-wewnetrznych/english-program2
Language	English

*replace ☐ with X where applicable

Detailed information

Module objectives		Transfer of knowledge and skills allowing the student care for diabeticm patients (diagnostics, prevention, education, overall care for a diabetic patient)	
Prerequisite /essential requirements	Knowledge	Knowledge of anatomy, histology, basics of patient care, physiology, pathomorphology, biochemistry, immunology, medical psychology, pathophysiology, pharmacology, laboratory diagnostics and public health	
	Skills	The ability to apply, conduct discussions, treatment, planning own work.	
	Competences	Zdolność pracy w grupie, realizowanie stawianych wymagań, kultura osobista.	
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 environmental and epidemiological conditions of most frequent diseases	K_E.W1	S
W02	knows and recognizes causes, symptoms, diagnoses and therapeutic procedures with regard to the most frequent internal diseases in adults and related complications (different types of diabetes and metabolic syndrome, hypoglycemia, obesity and dyslipidemia)	K_E.W7	S
W03	knows and understands causes, symptoms, diagnosis and therapeutic procedures with regard to most frequent diseases and specific problems encountered bt family doctors in their practice	K_E.W36	S
W05	knows types of biological materials used in laboratory diagnostics and rules governing sampling	K_E.W37	S
W07	knows theoretical and practical bases of laboratory diagnostics	K_E.W38	S
U01	takes history interview of adult patient	K_E.U1	S
U02	carries out complete and guided	K_E.U3	S

	physical examination of adult patient		
U03	evaluates general state, state of patient's consciousness and awareness	K_E.U7	S
U04	evaluates and describes somatic and mental state of patients	K_E.U13	S
U05	recognizes states representing direct threat to life	K_E.U14	S
U06	plans diagnostics, therapeutic and preventive procedures	K_E.U16	S
U07	suggests individualization of applicable therapeutic guidelines and other treatment methods because of ineffectiveness or contra-indications with regard to standard treatment	K_E.U18	S
U08	qualifies patients for home and hospital treatment	K_E.U20	S
U09	interprets laboratory investigations and identifies reasons for deviations	K_E.U24	S
U10	obtains matter to be used in laboratory diagnostics	K_E.U28	S
U11	keeps medical documentation	K_E.U38	S
K01	accepts the need for standards of conduct	K_K01	O
K02	co-operates with team members; can co-operate within a group and take different roles	K_K04	O
K03	adheres to proper examiner/examinee relationship while performing functional tests and observations	K_K05	O
K06	can form opinions on different aspects of professional activity	K_K06	O

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	Other...
1.	K_E.W1		X	X					
2.	K_E.W7		X	X					
3.	K_E.W36		X	X					

4.	K_E.W37		X	X					
5.	K_E.W38		X	X					
6.	K_E.W39		X	X					
7.	K_E.W40		X	X					
8.	K_E.U1		X	X					
9.	K_E.U3		X	X					
10.	K_E.U7		X	X					
11.	K_E.U13		X	X					
12.	K_E.U14		X	X					
13.	K_E.U16		X	X					
14.	K_E.U18		X	X					
15.	K_E.U20		X	X					
16.	K_E.U24		X	X					
17.	K_E.U28		X	X					
18.	K_E.U38		X	X					
19.	K_K01		X	X					
20.	K_K04		X	X					
21.	K_K05		X	X					
22.	K_K06		X	X					
23.	K_K011		X	X					

Module (subject) contents no.	Description of teaching programme	No. of hours	References to learning outcomes
	Seminars:		
TK01	Diabetes: classification, diagnosis and criteria of metabolic control	1	K_E.W1, K_E.W36, K_E.W38, K_E.U16, K_E.U28, K_K01, K_K04, K_K05, K_K06, K_K011, K_K014
TK02	Treatment of diabetes: diet, exercise, antidiabetic drugs, insulin therapy, selfcontrol	1	K_E.W36, K_E.W40, K_E.U16, K_E.U18, K_E.U20, K_E.U28, K_K01, K_K04, K_K05, K_K06, K_K011, K_K014
TK03	Chronic complications of diabetes	1	K_E.W7, K_E.W36, K_E.W38, K_E.U16, K_E.U18, K_E.U20, K_E.U28, K_K01, K_K04, K_K05, K_K06, K_K011, K_K014
TK04	Acute complications of diabetes	1	K_E.W7, K_E.W36, K_E.W37, K_E.W38, K_E.W39, K_E.W40, K_E.U14, K_E.U16, K_E.U18, K_E.U20, K_E.U28, K_K01, K_K04, K_K05, K_K06, K_K011, K_K014
	Practical classes:		
TK05	Definition and classification of diabetes mellitus, and other disorders of carbohydrate metabolism according to WHO. Epidemiology and pathogenesis of different types of diabetes. Clinical symptoms of diabetes mellitus and laboratory diagnostics criteria. Oral glucose tolerance test (OGTT) – performance, interpretation, indication, contraindications. Current criteria of metabolic control of diabetes mellitus: glycemia, blood pressure, lipids.	3	K_E.W1, K_E.W7, K_E.W36, K_E.W37, K_E.W38, K_E.U1, K_E.U3, K_E.U7, K_E.U13, K_E.U16, K_E.U28, K_E.U40, K_K01, K_K04, K_K05, K_K06, K_K011, K_K014

TK06	Pathogenetic background of the treatment. Modification of the lifestyle (diet, exercise). Antidiabetic drugs (biguanides, sulfonylureas, glinides, thiazolidinediones, alfa-glucosidase inhibitors, incretins (analogs of GLP-1, DPP-4 inhibitors), SGLT-2 inhibitors – mechanism of action, indications, contraindications. Characteristics of different types of insulin and principles of insulinotherapy in type 1 and type 2 diabetes. Self-monitoring of blood glucose levels.	3	K_E.W7, K_E.W36, K_E.U1, K_E.U3, K_E.U7, K_E.U13, K_E.U16, K_E.U18, K_E.U20, K_K01, K_K04, K_K05, K_K06, K_K011, K_K014
TK07	Chronic complications of diabetes: microangiopathy (retinopathy, nephropathy), and macroangiopathy (cardiovascular disease, stroke, peripheral vascular disease), neuropathy – pathogenesis, classification, clinical symptoms, diagnosis, prevention, treatment. Diabetic foot syndrome.	3	K_E.W7, K_E.W36, K_E.W37, K_E.W38, K_E.U1, K_E.U3, K_E.U7, K_E.U13, K_E.U16, K_E.U18, K_E.U20, K_E.U28, K_E.U40, K_K01, K_K04, K_K05, K_K06, K_K011, K_K014
TK08	Hypoglycemia – most frequent causes, clinical symptoms, prevention, treatment. Diabetic ketoacidosis - causes, clinical symptoms, laboratory diagnostics, treatment. Hyperosmolar hyperglycemic state - causes, signs, diagnostics, treatment, specificity of the state in elderly people. Differential diagnosis of diabetic coma. Lactic acidosis – causes, symptoms, diagnostics, treatment.	3	K_E.W7, K_E.W36, K_E.W37, K_E.W38, K_E.W39, K_E.W40, K_E.U1, K_E.U3, K_E.U7, K_E.U13, K_E.U14, K_E.U16, K_E.U18, K_E.U20, K_E.U28, K_E.U40, K_K01, K_K04, K_K05, K_K06, K_K011, K_K014
TK09	Presentation of patients with diabetes and different medical problems. Credit for the course.	4	K_E.W7, K_E.W36, K_E.W37, K_E.W38, K_E.W39, K_E.W40, K_E.U1, K_E.U3, K_E.U7, K_E.U11, K_E.U13, K_E.U14, K_E.U16, K_E.U18, K_E.U20, K_E.U28, K_E.U38, K_E.U40, K_K01, K_K04, K_K05, K_K06, K_K011, K_K014

Booklist

Obligatory literature:

1. Davidson's Principles and Practice of Medicine: With STUDENT CONSULT Online Access, 21e (Principles & Practice of Medicine (Davidson's)) 21st Edition, Diabetology.

Supplementary literature:

1. American diabetes association, Standards of Medical care In diabetes—2017

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	20		
Time spent on preparation to seminars/ practical classes	5		
Time spent on reading recommended literature	5		
Time spent on writing report/making project	1,5		
Time spent on preparing to colloquium/	6		

entry test			
Time spent on preparing to exam			
Other			
Student's workload in total	37,5		
ECTS credits for the subject (in total)	1,25		
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...