



**Syllabus, academic year 2017/2018**

**Description of the course**

Course Name:	Practical Clinical Teaching – chosen specialty:  <b>Pediatrics</b>	Group of detailed education results	
		Group code (E or F): <b>E</b>	Group name: <b>Non-interventional sciences</b>
Faculty	Medicine		
Major	Medicine		
Specialties	not applicable		
Level of studies	<input checked="" type="checkbox"/> Uniform magister studies		
Form of studies	<input checked="" type="checkbox"/> full-time <input checked="" type="checkbox"/> part-time		
Year of studies:	<b>VI</b>	Semester:	<input checked="" type="checkbox"/> summer (april/may)
Type of course	<input checked="" type="checkbox"/> obligatory		
Course	<input checked="" type="checkbox"/> major		
Language of instruction	<input type="checkbox"/> Polish <input checked="" type="checkbox"/> English <input type="checkbox"/> other		

\* mark  with an X

**Number of hours**

**Form of education**

Unit teaching the course:	Lectures (L)	Seminars (SE)	Auditorium Classes (AC)	Minor classes - not clinical (MC)	Clinical Classes (CC)	Laboratory Classes (LC)	Classes in Simulated Conditions (CSC)	Practical Classes with Patient (PCP)	Specialist Classes - master studies (SCM)	Foreign language Course (FLC)	Physical Education obligatory (PE)	Vocational Practice (VP)	Self-Study (Student's own work) (SS)	E-learning (EL)
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**Winter semester:**

Not applicable					Not applicable									
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**Summer semester:**

Dept. of Endocrinology and Diabetology for Children and Adolescents					<b>180</b>									
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**Total per year:**

Dept. of Endocrinology and Diabetology for Children and Adolescents					<b>180</b>									
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**Educational objectives: (max. 6 items)**

**C1. Type 1 diabetes – diagnostic and treatment. Demonstration of necessary equipment: pen injectors, personal insulin pumps, CGM, glucometers**

**C2. Obesity and anorexia – prophylaxis and treatment.**

**C3. Disorders of endocrine glands – basic knowledge. Diagnostic procedures and interpretation of results.**

**Education results matrix for course in relation to verification methods of the intended education result and the type of class :**

Number of course education result	Number of major education (E or F group)	Student who completes the course knows/ is able to Please enter from 5 to max. 7 education results – examples of verbs defining the education result in the scope of student's knowledge: uses, performs, resolves	Methods of verification of intended education results (forming and summarising)	Form of didactic class ** enter the abbreviation
S 01	EU4, 9,11, 12,13, 14, 16, 24, 25, 29,38	Student will know about glucose metabolism in human body, signs and symptoms of diabetes, treatment of ketoacidosis and hypoglycemia	Oral exam	CC
S 02	EU2, 4, 8, 9, 10, 11, 13, 16,24, 32,38	Student will know signs and symptoms of endocrinological disorders, their diagnostics and therapy	Oral exam	CC
S 03	EU 2, 4, 7, 13, 24, 25, 29, 38	Student will know rules of prophylaxis of obesity as well as rules of behavioral treatment	Oral exam	CC
S 04	EU 2, 4, 7,9,12, 16, 24, 32, 38,	Student will know diagnostics of genetic diseases where endocrinological disorders may occur.	Oral exam	CC
S 05	E U 16, 28,29,38.	Student will be able to use glucometer, pen injector, personal insulin pump, CGM, ABPM, perform anthropometry as well interprets ECG.	Oral exam	CC

\*\* L - lecture; SE - seminar; AC - auditorium classes; MC - major classes (non-clinical), CC - clinical classes; LC - laboratory classes; SCM - specialist classes (master studies); CSC - classes in simulated conditions; FLC - foreign language course; PCP - practical classes with patient; PE - physical education (obligatory); VP- vocational practice; SS - self-study; EL- E-learning.



Please mark on scale 1-5 how the above effects place your classes in the following categories: communication of knowledge, skills or forming attitudes:

Skills: 5

**Student's amount of work (balance of ECTS points):**

<b>Student's workload</b> (class participation, activity, preparation, etc.)	<b>Student Workload (h)</b>
1. Contact hours:	180
2. Student's own work (self-study):	90
<b>Total student's workload</b>	<b>270</b>
<b>ECTS points for course</b>	<b>13,0</b>
<b>Comments</b>	

**Content of classes** (please enter topic words of specific classes divided into their didactic form and remember how it is translated to intended educational effects))

1. Diabetes – pathogenesis, signs and symptoms, diagnostics, therapy: intensive insulin therapy with pen injectors and personal insulin pumps, doses of insulin (basal/bolus method), meals and prandial bolus planning
2. Short stature – differential diagnosis, interpretation of laboratory results, therapy, monitoring of the treatment.
3. Puberty Disorders – delayed and precocious puberty, disorders of gender differentiation. Interpretation of clinical cases, history of patients, planning the tests and monitoring the treatment efficacy
4. Thyroid gland diseases – hypothyroidism, hyperthyroidism; discussing the screening methods, rules and interpretation of the results. Indications for performing thyroid function tests examination and interpretation of results. Establishing treatment doses and interpretation of control tests results.
5. Civilization diseases: obesity insulin resistance, anorexia/bulimia. Signs, symptoms, differential diagnosis, pharmacotherapy and behavioral treatment.
6. Genetic syndromes in endocrinology. Diagnostic procedures and treatment options.
7. Tumors of central nervous system associated by endocrinological disorders - presentation of chosen cases.

**Lectures – not applicable**

**Seminars – not applicable**

**Classes**

1. Diabetes Practical training include pump programming, CGM and FGM (FreeStyle Libre) results interpretation in computer programs. Education of children and parents for effective self-treatment: SMBG, insulin administration, diet (Carbohydrate exchanges, Fat content, proteins), Glucose Index, Glucose load. Preparing a diet for a patient. Rules of calculation insulin dose for CE and fat as well as correction doses. HbA1c – interpretation of a result.
2. Monitoring of blood pressure (ABPM) as well as ECG (Holter ECG)
3. Testing body composition with bioimpedance method, interpretation of the results.
4. Anthropometrical measurements (with SD calculation), height velocity calculation and interpretation. Prognosis of final height, antropometrics and growth charts. Calculation of rhGH dose for a patient. Interpretation of efficacy of the treatment for a patient.
5. Diagnosis of puberty: Tanner scale, Farriman-Galloway scale, orchidometer. Bone age interpretation, USG results interpretation.

**Other - etc....**

**Basic literature:** (list according to importance, no more than 3 items)

Not applicable

**Additional literature and other materials:** (no more than 3 items)

Not applicable

**Didactic resources requirements:** (e.g. laboratory, multimedia projektor, other...)

Not applicable

**Preliminary conditions:** (minimum requirements to be met by the student before starting the course)

Not applicable

**Conditions to receive credit for the course** (specify the form and conditions of receiving credit for classes included in the module/course, admission terms to final theoretical or practical examination, its form and requirements to be met by the student to pass it and criteria for specific grades)

**Active participation in classes and test of practical skills**

<b>Grade:</b>	<b>Criteria: (only for courses/module ending with an examination)</b>
Very good (5,0)	Not applicable
Above good (4,5)	
Good (4,0)	
Sufficiently good (3,5)	
Sufficient (3,0)	



<b>Name of unit teaching course:</b>	<b>Department of Endocrinology and Diabetology for Children and Adolescents</b>
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<b>Person responsible for course:</b>	<b>Prof. Anna Noczyńska, MD, PhD</b>
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<i>List of persons conducting specific classes:</i>	<i>degree/scientific or professional title</i>	<i>Discipline</i>	<i>Performer profession</i>	<i>Form of classes</i>
Anna Noczyńska	Prof., MD, PhD	Pediatrics, endocrinology, diabetology	physician; u.t.	CC
Joanna Chrzanowska	MD, PhD	Pediatrics, endocrinology, diabetology	physician; u.t.	CC
Julita Nocoń –Bohusz	MD, PhD	Pediatrics	physician; u.t.	CC
Aleksander Basiak	MD, PhD	Pediatrics, endocrinology	physician; u.t.	CC
Monika Seifert	MD	Pediatrics	physician; u.t.	CC
Agnieszka Zubkiewicz-Kucharska	MD, PhD	Pediatrics, endocrinology, diabetology	physician; u.t.	CC
Beata Wikiera	MD, PhD	Pediatrics, endocrinology, diabetology	physician; u.t.	CC
Teresa Żak	MD, PhD	Pediatrics, endocrinology	physician; u.t.	CC

**Date of Syllabus development**

23.05.2017 r.

**Syllabus developed by**

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**Signature of Head of teaching unit**

**Signature of Faculty Dean**

Wrocław Medical Univ.  
FACULTY OF MEDICINE  
VICE-DEAN FOR STUDIES  
  
Prof. Andrzej Hendrich, PhD

Kierownik Katedry Endokrynologii i Diabetologii Wzrostu i Rozwoju  
Prof. dr hab. med. Anna Noczyńska