



Pomeranian Medical University in Szczecin

SYLLABUS of the MODULE (SUBJECT) General Information

Module title: Paediatrics	
Module type	Obligatory
Faculty PMU	Faculty of Medicine and Dentistry
Major	Medicine
Level of study	long-cycle (S2J)
Mode of study	full-time studies
Year of studies, semester	Year IV, semester 7, 8
ECTS credits (incl. semester breakdown)	5
Type/s of training	lectures (0h) /seminars (40h)/ practical/ (60h)
Form of assessment*	<input checked="" type="checkbox"/> graded assessment: <input type="checkbox"/> descriptive <input checked="" type="checkbox"/> test <input type="checkbox"/> practical <input type="checkbox"/> oral <input type="checkbox"/> non-graded assessment <input type="checkbox"/> final examination <input type="checkbox"/> descriptive <input type="checkbox"/> test <input type="checkbox"/> practical <input type="checkbox"/> oral
Head of the Department/ Clinic, Unit	Prof. dr hab. n. med. Mieczysław Walczak
Tutor responsible for the module	Agnieszka Biczysko- Mokosa, PhD MD
Department's/ Clinic's/ Unit's website	www.pum.edu.pl
Language	English

* replace into where applicable

Detailed information

Module objectives		<ol style="list-style-type: none"> 1. To review all knowledge gained during previous courses of pediatrics, including the physiology of developmental period 2. To acquire the ability of clinical thinking, collecting the history, physical examination of children, making the differential diagnosis, selecting proper diagnostic measures as well as selecting principles of treatment of conditions discussed during the course 3. To acquire the ability of selecting proper prophylactic measures related to conditions occurring during the developmental period 4. To develop ethical attitude and skills helpful to deal with a sick child, to develop skills for dealing with parents / guardians of a sick child
Prerequisite /essential requirements	Knowledge	<i>The knowledge accumulated during the first two years of study at the Faculty of Medicine, in particular anatomy, embryology, histology, biochemistry, physiology, introduction to clinical medicine, pathology and pharmacology.</i>
	Skills	<i>The student:</i> <ul style="list-style-type: none"> • Takes history from the child and their family • Performs physical examination on children of every age • Is able to assess the patient's general condition, consciousness • Can assess anthropometric measurements in accordance to percentile charts • Can assess puberty stage • Can perform periodic review examinations • Can perform basic medical procedures
	Competences	<i>The student:</i> <ul style="list-style-type: none"> • Shows the habit of self-education, understands the need to educate themselves the whole life, can inspire and organise the process of others studying • Cooperates with other members of the team; can cooperate in the team while taking different roles in it • Accepts every person's autonomy • Accepts the need for ethical standards • During performer observations and functional tests, takes care of proper relations between them and the examination's subject • Demonstrates an attitude promoting health and physical activity • Is aware of social and cultural differences influencing the individual interpretation of a person's life situation • Is aware of other people's religious beliefs when it comes to human body • Shows respect for the patients to care for their well-being

		<ul style="list-style-type: none"> • Is aware of the patients' rights • Can keep doctor-patient confidentiality
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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)	Method of verification of learning outcomes*
W01	Knows the environmental and epidemiologic conditions of the most common diseases	K_E.W1	O, W, PM, ET
W02	Knows the rules of nutrition of healthy and sick children (including breastfeeding), vaccinations, childrens' health reviews	K_E.W2	O, W, PM, ET
W03	<p>knows and understands the causes, symptoms, diagnostics and treatment of most common children's diseases:</p> <ul style="list-style-type: none"> • Rickets, tetany, seizures • Heart defects, myocarditis, endocarditis, pericarditis, cardiomyopathies, arrhythmias, heart failure, hypertension, syncopes • Acute diseases of upper and lower respiratory tract, congenital respiratory tract malformities, tuberculosis • Growth disorders, thyroid and parathyroid diseases, adrenal diseases, diabetes, obesity, puberty disorders, gonad dysfunctions • Cerebral palsy, encephalitis, meningitis, epilepsy • Most common infectious diseases of childhood, genetic syndromes 	K_E.W3	O, W, PM, ET
W04	Knows the topics of: physically and sexually abused child, mental retardation, behaviour disorders, psychoses, addictions, eating disorders in children	K_E.W4	O, W, PM, ET
W05	Knows the most common life threatening events in children and how to treat them	K_E.W6	O, W, PM, ET
W06	Knows the biological materials used in laboratory diagnostics and how they are sampled	K_E.W37	O, W, PM, ET
W07	Knows theoretical and practical basics of laboratory diagnostics	K_E.W38	O, W, PM, ET
W08	Knows and understands the possibilities and limitations of laboratory studies in urgent cases	K_E.W39	O, W, PM, ET
U01	Takes history from the child and their family	K_E.U2	S, O, W, PM
U02	Performs physical examination on children of every age	K_E.U4	S, O, W, PM
U03	Performs approximate hearing and field of view examinations, othoscope examinations	K_E.U6	S, O, W, PM
U04	Is able to assess the patient's general condition, consciousness	K_E.U7	S, O, W, PM
U05	Is able to assess a neonate's state according to Apgar scale and assess their maturity, can check neonatal reflexes	K_E.U8	S, O, W, PM
U06	Can assess anthropometric measurements in accordance to percentile charts	K_E.U9	S, O, W, PM
U07	Can assess puberty stage	K_E.U10	S, O, W, PM
U08	Can perform periodic review examinations	K_E.U11	S, O, W, PM
U09	Can perform differential diagnostics of most common diseases in children and adults	K_E.U12	S, O, W, PM

U10	Assesses and describes the patient's somatic and psychological state	K_E.U13	S, O, W, PM
U11	Can recognise life threatening events	K_E.U14	S, O, W, PM
U12	Can recognise state under the influence of alcohol or drugs	K_E.U15	S, O, W, PM
U13	Plans diagnostic, therapeutic and prophylactic measures	K_E.U16	S, O, W, PM
U14	Analyses adverse effects of certain medicine and interactions between them	K_E.U17	S, O, W, PM
U15	Suggests individualisation of the guidelines and other treatment methods in case of inefficiency or contraindications of standard therapy	K_E.U18	S, O, W, PM
U16	Interprets laboratory results and recognizes causes of abnormalities	K_E.U24	S, O, W, PM
U17	Uses nutrition treatment (including enteral and parenteral nutrition)	K_E.U25	S, O, W, PM
U18	Plans for post-exposure prophylaxis of blood-transmitted diseases	K_E.U26	S, O, W, PM
U19	Qualifies patients to vaccinations	K_E.U27	S, O, W, PM
U20	Takes samples for laboratory diagnostics	K_E.U28	S, O, W, PM
U21	Performs basic medical procedures, including: <ul style="list-style-type: none"> Measuring body temperature, heart rate, blood pressure Monitoring life parameters using a cardiomonitor, pulsoxymeter Inserting an oropharyngeal tube Subcutaneous, intramuscular and intravenous injections, cannulation of peripheral veins, sampling peripheral venous blood, sampling arterial blood, sampling arterialisated capillar blood, sampling blood for cultures Taking swabs from the nose, throat and skin, pleural puncture Catheterization of the bladder in boys and girls, probing the stomach, gastric lavage, enema, Standard ECG along with interpretation Simple strip tests and blood glucose measurement 	K_E.U29	S, O, W, PM
U22	Assists in performing medical procedures: <ul style="list-style-type: none"> Blood and blood products transfusions Pleural drainage Pericardial puncture Perineal puncture Lumbar puncture Fine needle biopsy Epidermal tests, Intradermal and scarrificaton test, And interprets their results.	K_E.U30	S, O, W, PM
U23	Plans specialist consultations	K_E.U32	S, O, W, PM
U24	Performs basic treatment in acute poisoning	K_E.U33	S, O, W, PM
K01	Accepts the need for ethical standards	K_K01	S,O
K02	Understands the idea and need for responsibility for entrusted good	K_K02	S,O
K03	Shows the habit of self-education, understands the need to educate themselves the whole life, can inspire and organise the process of others studying	K_K03	S,O
K04	Cooperates with other members of the team; can cooperate in the team while taking different roles in it	K_K04	S,O

K05	During performer observations and functional tests, takes care of proper relations between them and the examination's subject	K_K05	S,O
K06	Can formulate an opinion regarding different aspects of professional life	K_K06	S,O
K07	Demonstrates an attitude promoting health and physical activity	K_K07	S,O
K08	Is aware of social and cultural differences influencing the individual interpretation of a person's life situation	K_K08	S,O
K09	Accepts every person's autonomy	K_K09	S,O
K10	Accepts the need to speak a foreign language	K_K10	S,O
K11	Is aware of the patients' rights	K_K11	S,O
K12	Can solve the most common problems connected with working in the profession	K_K12	S,O
K13	Shows care for the prestige of working in the profession	K_K13	S,O
K14	Can keep doctor-patient confidentiality	K_K14	S,O
K15	Can take care of their own environment, as well as their co-workers and immediate surrounding	K_K15	S,O
K16	Can assess priorities concerning fulfilling goals of their own or commissioned by someone else	K_K16	S,O
K17	Is aware of their own limitations and knows when to ask experts for help	K_K17	S,O
K18	Shows leadership and management skills, can organize the team's work	K_K18	S,O
K19	Is aware of other people's religious beliefs when it comes to human body	K_K19	S,O
K20	Shows respect for the patients to care for their well-being	K_K20	S,O

Table presenting LEARNING OUTCOMES in relation to the form of classes								
No. of learning outcome	Learning outcomes	Type of training						
		Lecture	Seminar	Practical	Clinical classes	Simulations	E-learning	Other...
W01	K_E.W1		X	X	X			
W02	K_E.W2		X	X	X			
W03	K_E.W3		X	X	X			
W04	K_E.W4		X	X	X			
W05	K_E.W6		X	X	X			
W06	K_E.W37		X	X	X			
W07	K_E.W38		X	X	X			
W08	K_E.W39		X	X	X			
U01	K_E.U2		X	X	X			
U02	K_E.U4		X	X	X			
U03	K_E.U6		X	X	X			
U04	K_E.U7		X	X	X			

U05	K_E.U8		X	X	X			
U06	K_E.U9		X	X	X			
U07	K_E.U10		X	X	X			
U08	K_E.U11		X	X	X			
U09	K_E.U12		X	X	X			
U10	K_E.U13		X	X	X			
U11	K_E.U14		X	X	X			
U12	K_E.U15		X	X	X			
U13	K_E.U16		X	X	X			
U14	K_E.U17		X	X	X			
U15	K_E.U18		X	X	X			
U16	K_E.U24		X	X	X			
U17	K_E.U25		X	X	X			
U18	K_E.U26		X	X	X			
U19	K_E.U27		X	X	X			
U20	K_E.U28		X	X	X			
U21	K_E.U29		X	X	X			
U22	K_E.U30		X	X	X			
U23	K_E.U32		X	X	X			
U24	K_E.U33		X	X	X			
K01	K_K01		X	X	X			
K02	K_K02		X	X	X			
K03	K_K03		X	X	X			
K04	K_K04		X	X	X			
K05	K_K05		X	X	X			
K06	K_K06		X	X	X			
K07	K_K07		X	X	X			
K08	K_K08		X	X	X			
K09	K_K09		X	X	X			
K10	K_K10		X	X	X			
K11	K_K11		X	X	X			
K12	K_K12		X	X	X			
K13	K_K13		X	X	X			
K14	K_K14		X	X	X			
K15	K_K15		X	X	X			
K16	K_K16		X	X	X			
K17	K_K17		X	X	X			
K18	K_K18		X	X	X			
K19	K_K19		X	X	X			
K20	K_K20		X	X	X			

Table presenting TEACHING PROGRAMME			
No. of a teaching programme	Teaching programme	No. of hours	References to learning outcomes
Winter semester			
Lectures			
TK01			
TK02			
Seminars			
TK01			
TK02			

Practical classes			
Simulation			
E-learning			
Summer semester			
Lectures			
Seminars			
TK01	<i>Respiratory tract infections</i>	2	W01, W03, W05, W06, W07, W08, U09, U11, U13, U16, U23
TK02	<i>Diagnosis of short stature. Obesity in children and adolescence</i>	2	W01, W02, W03, W06, W07, U09, U13, U16, U17, U23
TK03	<i>Clinical approach to inborn errors of metabolism (IEM)</i>	2	W01, W03, W05, W06, W07, W08, U09, U11, U13, U16, U23
TK04	<i>Hypoglycemia. Intrauterine growth restriction (IUGR)</i>	2	W01, W03, W06, W07, U09, U13, U16, U23
TK05	<i>Cushing disease and Cushing syndrome. Thyroid diseases in children.</i>	2	W01, W03, W05, W06, W07, W08, U09, U11, U13, U14, U16, U23
TK06	<i>Phenylketonuria and other IEM. Maternal phenylketonuria</i>	2	W01, W02, W03, W05, W06, W07, U09, U13, U16, U17, U23
TK07	<i>Diabetes mellitus type 1</i>	2	W01, W02, W03, W05, W06, W07, W08, U09, U11, U13, U16, U17, U23
TK08	<i>Diabetes mellitus type 2</i>	2	W01, W02, W03, W06, W07, U09, U13, U16, U17, U23
TK09	<i>Anorexia. Eating disorders.</i>	2	W01, W02, W03, W04, W06, W07, U09, U13, U16, U23
TK10	<i>Infectious diseases of childhood Vaccinations</i>	2	W01, W03, W05, W06, W07, W08, U09, U11, U13, U14, U16, U23
TK11	<i>Meningitis</i>	2	W01, W03, W05, W06, W07, W08, U09, U11, U13, U14, U16, U23
TK12	<i>Congenital heart diseases</i>	2	W01, W03, W05, W06, W07, W08, U09, U11, U13, U15, U16, U19, U23
TK13	<i>Congenital adrenal hyperplasia.</i>	2	W01, W03, W05, W06, W07, W08, U09, U11, U13, U14, U16, U23
TK14	<i>Neonatal infections</i>	2	W01, W03, W06, W07, U09, U13, U16, U23
TK15	<i>Normal puberty in children (physiology of puberty).</i>	2	W01, W03, W06, W07, U09, U13, U16, U23

	<i>Delayed puberty. Central and peripheral precocious puberty. Possibilities of treatment of central precocious puberty (agonist of GnRH)</i>		
TK16	<i>Calcium, Magnesium and Phosphate Disorders</i>	2	W01, W03, W05, W06, W07, W08, U09, U11, U13, U16, U23
TK17	<i>Development of CNS and children's neurological assessment. Cerebral palsy in infancy. Convulsions in newborns, infants and young children Children's epilepsy</i>	2	W01, W03, W05, W06, W07, W08, U09, U11, U13, U14, U15, U16, U19 U23, U24
TK18	<i>Hyperbilirubinemia in infants</i>	2	W01, W03, W05, W06, W07, W08, U09, U11, U13, U14, U16, U23
TK19	<i>Arrhythmias Cardiomyopathies Viral and nonviral myocarditis</i>	2	W01, W03, W05, W06, W07, W08, U09, U11, U13, U16, U19, U23
TK20	<i>The estimation of cardiac failure in children Resuscitation in pediatric cardiology Sudden Infant Death Syndrome (SIDS)</i>	2	W01, W03, W05, W06, W07, W08, U09, U11, U13, U16, U23
Practical classes			
TK01	Child with glucose metabolism disorders.	3	W01, W02, W03, W05, W06, W07, W08, U01, U02, U04, U05, U06, U07, U09, U10, U11, U13, U14, U16, U17, U19, U20, U21, U22, U23, K01-K20
TK02	Child with insufficient body weight (including anorexia). Nutritional treatment.	3	W01, W02, W03, W04, W05, W06, W07, W08, U01, U02, U04, U05, U06, U07, U08, U09, U10, U11, U13, U14, U16, U17, U19, U20, U21, U22, U23, K01-K20
TK03	Growth disorders – short stature, tall stature, genetic syndromes.	3	W01, W02, W03, W04, W06, W07, U01, U02, U03, U04, U06, U07, U08, U09, U10, U13, U14, U16, U17, U19, U20, U21, U22, U23, K01-K20
TK04	Puberty disorders – precocious puberty, delayed puberty, genetic syndromes. Sex differentiation disorders.	3	W01, W02, W03, W04, W06, W07, U01, U02, U03, U04, U05, U06, U07, U08, U09, U10, U13, U14, U16, U17, U19, U20, U21, U22, U23, K01-K20
TK05	Thyroid function disorders – hypo- and hyperthyroidism. Autoimmune polyglandular syndromes.	2	W01, W03, W04, W05, W06, W07, W08, U01, U02, U03, U04, U05, U06, U07, U09, U10, U11, U13, U14, U16, U17, U19, U20, U21, U22, U23, K01-K20

TK06	Adrenal function disorders – adrenal insufficiency, Cushing syndrome. Androgenization in children. Congenital adrenal hyperplasia.	3	W01, W02, W03, W04, W05, W06, W07, W08, U01, U02, U03, U04, U05, U06, U07, U09, U10, U11, U13, U14, U16, U17, U19, U20, U21, U22, U23, K01-K20
TK07	Calcium-phosphate metabolism disorders, bone structure disorders (osteoporosis, osteogenesis imperfecta, rickets).	2	W01, W02, W03, W05, W06, W07, W08, U01, U02, U03, U04, U05, U06, U07, U08, U09, U10, U11, U13, U14, U16, U17, U19, U20, U21, U22, U23, K01-K20
TK08	Children with suspected inborn error of metabolism from neonatal period until adolescence – diagnostic and therapeutic measures. Neonatal screening.	4	W01, W02, W03, W05, W06, W07, W08, U01, U02, U03, U04, U05, U06, U07, U09, U10, U11, U13, U14, U15, U16, U17, U19, U20, U21, U22, U23, K01-K20
TK09	Children with respiratory tract infections and inborn respiratory tract malformities.	4	W01, W02, W03, W05, W06, W07, W08, U01, U02, U03, U04, U05, U06, U07, U09, U10, U11, U13, U14, U16, U19, U20, U21, U22, U23, K01-K20
TK10	Infants with incorrect psychokinetic development – diagnostic and therapeutic measures.	4	W01, W02, W03, W05, W06, W07, W08, U01, U02, U03, U04, U05, U06, U07, U08, U09, U10, U11, U13, U14, U16, U17, U19, U20, U21, U22, U23, K01-K20
TK11	Children with seizures - diagnostic and therapeutic measures.	3	W01, W02, W03, W05, W06, W07, W08, U01, U02, U03, U04, U05, U06, U07, U09, U10, U11, U13, U14, U16, U19, U20, U21, U22, U23, K01-K20
TK12	Children with headaches - diagnostic and therapeutic measures.	2	W01, W02, W03, W05, W06, W07, W08, U01, U02, U03, U04, U05, U06, U07, U09, U10, U11, U12, U13, U14, U16, U19, U20, U21, U22, U23, K01-K20
TK13	Children with syncope - diagnostic and therapeutic measures.	4	W01, W02, W03, W05, W06, W07, W08, U01, U02, U03, U04, U05, U06, U07, U09, U10, U11, U12, U13, U14, U16, U19, U20, U21, U22, U23, K01-K20
TK14	Children with heart murmurs. Congenital heart diseases.	4	W01, W02, W03, W05, W06, W07, W08, U01, U02, U03, U04, U05, U06, U07, U09, U10, U11, U13, U14, U16,

			U19, U20, U21, U22, U23, K01-K20
TK15	Children with arrhythmias.	2	W01, W02, W03, W05, W06, W07, W08, U01, U02, U03, U04, U05, U06, U07, U09, U10, U11, U12, U13, U14, U16, U19, U20, U21, U22, U23, K01-K20
TK16	Most common infectious diseases of childhood.	6	W01, W02, W03, W05, W06, W07, W08, U01, U02, U03, U04, U05, U06, U07, U09, U10, U11, U13, U14, U16, U19, U20, U21, U22, U23, K01-K20
TK17	Central nervous system infections in children.	2	W01, W02, W03, W05, W06, W07, W08, U01, U02, U03, U04, U05, U06, U07, U09, U10, U11, U13, U14, U16, U19, U20, U21, U22, U23, K01-K20
Simulation			
E-learning			
Booklist			
Obligatory literature:			
1. K.J. Marcdante, R.M. Kliegman, Nelson Essentials of Pediatrics. 8th edition; Elsevier 2018			
2. Tom Lissauer, Graham Clayden. Illustrated Textbook of Paediatrics, 5th Edition. Elsevier 2017.			
3. C. G. D. Brook, R. S. Brown, Handbook of Clinical Pediatric Endocrinology, Wiley 2012			
Supplementary literature:			
1. Educational platform Access Pediatrics http://accesspediatrics.mhmedical.com/index.aspx			
2.			

Student's workload	
Form of student's activity (in-class participation; activeness, produce a report, etc.)	Student's workload [h]
	Tutor
Contact hours with the tutor	85
Time spent on preparation to seminars/ practical classes	18
Time spent on reading recommended literature	18

Time spent on writing report/making project	5
Time spent on preparing to colloquium/ entry test	4
Time spent on preparing to exam	20
Other	
Student's workload in total	150
ECTS credits for the subject (in total)	5
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...