

Course description

Part 1

General information about the course	
1. Major of study: medicine	2. Study level: unified MSc 3. Form of study: intramural
4. Year: V	5. Semester: IX/X
6. Course name: Pediatrics - Core	
7. Course status: required	
8. Course contents nad assigned learning outcomes <ol style="list-style-type: none"> Pediatric propaedeutics, ability to perform physical examination of the child and taking history Physiology of development and puberty The basics of physiology and pathophysiology of common pediatric diseases Standard procedures in common pediatric diseases and life emergencies in children and adolescent: ability to plan the diagnostic procedures, to interpret the results, perform differential diagnosis, and implement the treatment Theoretical knowledge of medical procedures carried out in general pediatrics departments - knowledge of indication, algorithms and possible complication of the procedures <p>Learning outcomes / reference to learning outcomes indicated in the standards</p> <p>For knowledge – student knows and understands:</p> <ol style="list-style-type: none"> Knows physiology of child growth and development - bw21 Knows pediatric propaedeutics, ability to perform physical examination of the child and taking history – ew3 Knows the typical pediatric diseases and life-threatening events in children - has the ability of planning the diagnostic tests, making differential diagnosis and introducing treatment – ew1, ew14, ew34,ew24, ew25, ew26, Ew41 knows algorithms of basic and advanced life support procedures in children - ew6 Knows how to perform well-child care and knows immunization protocol - ew2 Knows the rules of qualification of the child to rehabilitation –ew3, ew31 Knows the preventive procedures in healthy child – ew2 knows indications and contraindications of medical procedures given in "Procedure Book" and their possible complications – ew3 <p>For skills student can do:</p> <ol style="list-style-type: none"> Perform physical examination and take a medical history – interpret and make conclusions – eu6,eu7,eu12,eu13,eu16 Perform differential diagnosis – eu12 Plan laboratory evaluation - eu16,eu24 Interpret test results - eu24 Propose diagnostic workup and treatment – eu12, eu16,eu31 Perform anthropometric measurements and use growth charts – eu9, eu10 Perform growth and development evaluation - eu4,eu10 Diagnose child's life-threatening conditions and propose treatment - eu14 Diagnose alcohol and narcotics intoxication and propose treatment – eu14,eu15,eu33,eu34 Perform well-child care and qualification to immunization – eu9,eu10,eu11,eu27 Plan child rehabilitation - eu16,eu23 Perform stadard medical procedures (measurement of body temperature, pulse, blood pressure, monitor the patient with cardiomonitor, pulsoxymeter, blood taking, injections making, measurement of blood glucose, taking the nose/throat smear, urine bladder catetherization, 	

otoscopic examination, assessing of visual field) - eu6,eu7, eu9, eu28,eu29,eu30

For social competencies student is ready to:

1. Able to establish and maintain a deep and respectful contact with the patient – k1
2. Directs the good of the patient, putting them in the first place – k2
3. Complies with medical confidentiality and patient rights – k3
4. Is aware of his own limitations and the ability to lifelong learning – k4

9. Number of hours for the course		180
10. Number of ECTS points for the course		9
11. Methods of verification and evaluation of learning outcomes		
Learning outcomes	Methods of verification	Methods of evaluation*
Knowledge	Written evaluation – open questions/ Closed-ended questions Grade credit – MCQ written exam – closed-ended questions test	*
Skills	Report Observation Practical exam	*
Competencies	Observation	*

* The following evaluation system has been assumed:

Very good (5,0) – the assumed learning outcomes have been achieved and significantly exceed the required level

Better than good (4,5) – the assumed learning outcomes have been achieved and slightly exceed the required level

Good (4,0) – the assumed learning outcomes have been achieved at the required level

Better than satisfactory (3,5) – the assumed learning outcomes have been achieved at the average required level

Satisfactory (3,0) – the assumed learning outcomes have been achieved at the minimum required level

Unsatisfactory (2,0) – the assumed learning outcomes have not been achieved

Course description

Part 2

Other useful information about the course		
12. Name of Department, mailing address, e-mail: Department of Pediatrics and Pediatric Endocrinology, endo_sk6@sum.edu.pl Department of Pediatrics Department of Pediatric Neurology		
13. Name of the course coordinator: Agnieszka Zachurzok, MD PhD		
14. Prerequisites for knowledge, skills and other competencies: 1. Knowledge of physiology of development and puberty 2. Knowledge of the basics of physiology and pathophysiology of common pediatric diseases		
15. Number of students in groups	In accordance with the Senate Resolution	
16. Study materials	changing shoes, apron, stethoscope, notebook, pen	
17. Location of classes	Department of Pediatrics and Pediatric Endocrinology Department of Pediatrics Department of Pediatric Neurology Clinical Outpatients GCZD, Medykow St 16 & Centre of Medical Symulation	
18. Location and time for contact hours	Department of Pediatrics and Pediatric Endocrinology, GCZD, after agreement with the teacher	
19. Learning outcomes		
Number of the course learning outcome	Course learning outcomes	Reference to learning outcomes indicated in the standards
P_W01 / C_K01	Knows physiology of child growth and development	Bw21
P_W02 / C_K02	Knows pediatric propaedeutics, ability to perform physical examination of the child and taking history	Ew3
P_W03/ C_K03	Knows the typical pediatric diseases and life-threatening events in children - has the ability of planning the diagnostic tests, making differential diagnosis and introducing treatment	Ew1, ew3, ew4, ew14, ew24, ew25,ew26, ew34, ew41
P_W04/ C_K04	knows algorithms of basic and advanced life support procedures in children	ew6
P_W05/ C_K05	Knows how to perform well-child care and knows immunization protocol	Ew2
P_W06/ C_K06	Knows the rules of qualification of the child to rehabilitation	Ew3, ew 31

P_W07/ C_K07	Knows the preventive procedures in healthy child	ew2
P_W08/ C_K08	knows indications and contraindications of medical procedures given in "Procedure Book" and their possible complications	Ew3
P_U01 / C_S01	Perform physical examination and take a medical history – interpret and make conclusions	eu2,eu4, eu6, eu7,eu10, eu12, eu13, eu16, eu38
P_U02 / C_S02	Perform differential diagnosis	Eu12
P_U03 / C_S03	Plan laboratory evaluation	eu16,eu24
P_U04 / C_S04	Interpret test results	eu24
P_U05 / C_S05	Propose diagnostic workup and treatment	Eu12, eu16,eu31
P_U06 / C_S06	Perform anthropometric measurements and use growth charts	Eu9, eu10
P_U07 / C_S07	Perform growth and development evaluation	eu4,eu10
P_U08 / C_S08	Diagnose child's life-threatening conditions and propose treatment	Eu14
P_U09 / C_S09	Diagnose alcohol and narcotics intoxication and propose treatment	Eu15, eu33, eu34
P_U10 / C_S10	Perform well-child care and qualification to immunization	Eu9,eu10,eu11,eu27
P_U11 / C_S11	Plan child rehabilitation	eu16,eu23
P_U12 / C_S12	Perform standard medical procedures (measurement of body temperature, pulse, blood pressure, monitor the patient with cardiomonitor, pulsoxymeter, blood taking, injections making, measurement of blood glucose, taking the nose/throat smear, urine bladder catheterization, otoscopic examination, assessing of visual field)	eu6,eu7, eu9, eu28,eu29,eu30
20. Forms and topics of classes		Number of hours
21.1. Lectures		60
Physical examination. Taking history		6
Psychomotor development of infant and older children Neurological examination: on neonatal, infant, children		2
Neuroinfections: Meningitis (bacterial, serosa), Encephalitis, Myelitis, Guillan-Bare syndrome, Latent infections (including prion diseases)		2
Developmental anomalies of nervous system: Nervous tube anomalies, Disturbance of dorsal induction, Neuronal migration diseases, Prevention of congenital anomalies of nervous system		2
Pediatric pulmonology & Respiratory tract diseases (infections-pneumonia, bronchitis, bronchiolitis, cystic fibrosis, upper respiratory tract diseases - pharyngitis, diarrhea, laryngitis, otitis media).		3
Pediatric cardiology - congenital heart defects		2
Pediatric Hematology and Oncology (anaemias, neoplasms in childhood, leukemias)		4
Pediatric gastroenterology: Principles and practice of feeding infants. Breast feeding. Artificial feeding (milk formulas, milk substitutes). Feeding problems. Nutritional disorders		6

(maldigestion, malabsorption, intolerance). Vomiting and Diarrhea in neonates and infants. Gastrointestinal infections. Management of dehydration. Evaluation of fluid loss. Practice of fluid and electrolyte therapy. Hepatitis, Lab Tests	
Immunizations protocols – teacher & students own presentations on vaccination from the countries they come from	4
Sepsis – diagnosis and management	2
Diabetes mellitus type 1 and type 2 in childhood: (Etiology, Diagnosis, Treatment, Diabetic Ketoacidosis, Hypoglycaemia and chronic complication). Hypoglycaemia	2
Fluid therapy in children	2
Kawasaki disease. Scarletina.	2
Physiology of growth and development. Puberty. Short/tall stature – differential diagnosis, management and treatment	5
Basic Life Support Course, Pediatric Advanced Life Support Course	2
Pediatric Nephrology: Common nephrological disorders. (Urinary tract disorders. Nephrotic syndrome.). Glomerulonephritis. Acute and chronic renal failure. Common nephrological disorders. (Urinary tract disorders. Nephrotic syndrome.). Glomerulonephritis. Acute and chronic renal failure	2
Pediatric surgery: Congenital malformations: esophageal atresia and trachoesophageal fistula, hypertrophic pyloric stenosis, intestinal atresia, NEC- necrotizing enterocolitis, meconium plugs, Hirschprung's disease, imperforate anus, undescend testes, omphalocele, gastroschisis, hernias. Childhood tumors: neuroblastoma, nephroblastoma, liver tumors, teratomas. Acute abdomen in childhood - causes and symptoms. Injuries in childhood	4
Pediatric Allergy: Mechanism and investigations in allergy. Some of typical allergy disorders in childhood (eczema/dennatitis, allergic rhinitis, iarrheat). Childhood asthma.	2
Drug Therapy in Children: Metabolism of drugs with regard to dissimilarities of the child's organism. Therapeutic drug monitoring. Dosage. Abnormal reactions to drugs administration	1
Blood tests interpretation	1
Clinical Genetics	2
Selected infectious diseases in children	2
23.3. Labs	120
Taking history and physical examination of child (infant, toddler, adolescent)	30
Assessment of the child development - height, weight, BMI, head and chest circumference, data plotting of the growth charts. Assessment of the puberty in Tanner scale	6
Diagnosis and treatment in children with various pediatric diseases - history taking, physical examination, differential diagnosis, diagnostic work-up, treatment	30
Workshop - fluid therapy in children - assesment of daily fluid and electrolites demand	3
Workshop - drug prescribing in children - dosage and lenght of drug therapy	3

Practice of standard medical procedures (temperature, heart rate, blood pressure measurement, usage of cardiomonitor and pulsoxymeter to monitor patient, blood taking, intramuscular, intravenous, subcutaneous injections, establishment of intravenous line, usage of glucometer, taking nose, throat, skin smear, blood for blood culture, urinary bladder catheterisation, visual field and otoscopic assessment)	20
Diagnosis and treatment of intoxicated child (alcohol, drugs, narcotics intoxication)	3
Well-child care and qualification to immunization	3
Case presentations – How to refer the patient?	4
Course of Basic and Advanced life support in children	16
Well-child care and qualification to immunization. Screening tests in children	2
24. Readings	
Nelson Essentials of Pediatrics, By Karen Marcdante , Robert M. Kliegman, 2018	
Illustrated Textbook of Paediatrics, By T Lissauer, 2017	
25. Detail evaluation criteria	
<p>In accordance with the recommendations of the inspection bodies</p> <p>Completion of the course – student has achieved the assumed learning outcomes</p> <p>Detail criteria for completion and evaluation of the course are specified in the course regulations</p>	