

Program of Study : General Medicine

Course : Pediatrics

Abbreviation : DET/VA014

Schedule : 34 hours of seminars
104 hours of clinical training (4 weeks long block)
60 hours of practical training

Course Distribution : 5 th year, 9th semester

Number of Credits : 6

Course Form : Seminars, clinical training

Seminars :

Teachers : **Barbora Ludikova, M.D. PhD.**
Dagmar Pospisilova, M.D., Ph.D., Prof.
Vladimir Mihal, M.D., CSc., Prof.
Jana Volejnikova, M.D., PhD., ass.prof.
Frantisek Kopriva, M.D., Ph.D., Prof.
Vendula Látalová, M.D.
Katerina Bouchalova, M.D., PhD.
Hana Flögelova, M.D., PhD.
Martin Zápalka, M.D. PhD.
Eva Klaskova, M.D PhD., ass.prof.
Lucie Sulovska, M.D., PhD.
Petr Birke, M.D.
Miloš Geryk, M.D.
Veronika Moškořová, M.D.
Miloš Gery, M.D.
Hana Foltenová, M.D.
Eva Karásková, M.D., PhD.

Study : Block, Mo – Fri 8,00 – 13,00.

Block Date : 14/11 – 9/12 2022 sk A3
19/12– 23/12 2022 sk A3A clinical training
2/1 – 13/1 2023 sk A3B clinical training
24/4 – 19/5 2023 sk A1
22/5 – 26/5 2023 sk A1A clinical training
5/6 – 16/6 2023 sk A1B clinical training

	Block Day	Subject	No. of Less.	Teacher
	1	History taking in pediatrics.	1	Volejnikova
	2	Physical exam in pediatrics.Growth and development. Prevention.	1	Volejnikova

3	Newborn.	1	Wita
4	Paediatric oncology.	1	Mihal
5	Childhood leukaemias.	2	Pospisilova
6	Essentials of paediatric cardiology	2	Klaskova
7	Fever of unknown origin Severe bacterial infection. Sepsis, septic shock.	2	Mihál
8	Chronic respiratory disorders, cystic fibrosis. Asthma.	2	Kopriva
9	Immune system in children. Immunodeficiency. Essentials of paediatric rheumatology.	2	Kopriva
10	Anaemias in children.	2	Pospisilova
11	CNS infections. Headache.	2	Mihál/Ludikova
12	Bleeding child.	2	Pospisilova
13	Diabetes mellitus. Thyroid gland diseases.	2	Pospisilova/ Bouchalova
14	The endocrine system. Growth retardation. Disorders of pubertal development.	2	Bouchalova
15	Congenital kidney anomalies, urinary tract infection, Glomerulonephritis.	2	Flogelova
16	Essentials of paediatric gastroenterology. Inflammatory bowel diseases. Malabsorbtion.	2	Karaskova
17	Severe acute inflammatory upper airway obstruction. Persistent and recurrent cough.	2	Kopriva
18	Evidence-Based Medicine/Practice in Paediatrics – searching for evidence. Case reports	2	Mihal/Potomková
19	Resuscitation. Management of suspected anaphylaxis and recogniton of symptoms on simulator	2	Seda

Bed-side teaching:

Leading Teacher : Barbora Ludíková, M.D., Ph.D.

Study : Block. Bedside teaching and outpatient clinics. S: Short reports

Block Date : 14/11 – 9/12 2022 sk A3
19/12– 23/12 2022 sk A3A practice training
2/1 – 13/1 2023 sk A3B pracice training
24/4 – 19/5 2023 sk A1
22/5 – 26/5 2023 sk A1A practice training
5/6 – 16/6 2023sk A1B practice training

	Block Day	Subject	No. of Less.
1		Assignment of case reports	4

2	Bedside teaching S: Case reports: guess the diagnosis	4
3	Bedside teaching S: Arthralgia: Differential diagnosis	4
4	Bedside teaching S: Respiratory tract diseases I:laryngitis, epiglottitis, bronchiolitis	4
5	Bedside teaching S: BCG vaccination	4
6	Bedside teaching S: Lymphadenopathy	4
7	Bedside teaching S: Hepatosplenomegaly	4
8	Bedside teaching S: Trauma, burns	4
9	Bedside teaching	4
10	Bedside teaching	4
11	Bedside teaching S: Trauma, burns	4
12	Bedside teaching 11.30: Case reports	4
13	Bedside teaching 11.30: Case reports	4
14	Laboratory 11.30: Case reports	4
15	Bedside teaching 11.30: Case reports	4
16 - 20	Bedside teaching	6
21	Simulators – practice training of recognition of symptoms	4x5

Organizational guidelines of contractual practice:

The internship lasts 2 weeks in the children's ward at the hospital. It must be completed after the completion of the Pediatrics teaching block and before the state examination in pediatrics. This is a time interval of 3 weeks, so it is necessary to arrange an internship in advance as soon as the student has a teaching schedule for the semester. Through the study department of the Faculty of Medicine, UP, the student will settle an internship contract.

Due to capacity reasons, it is not possible to complete the hospital part of the practice in pediatrics at the Children's Clinic of the Olomouc University Hospital, the student must arrange it in another hospital with a children's department. The internship takes the form of a 2-weeks block from 7 am to 1 pm, or the time can be adjusted by appointment at a specific children's ward (6 hours a day).

It is necessary to wear a business card, medical clothes, slippers and a stethoscope in practice.

Content of contractual practice

In the inpatient facility, the student participates in visits to hospitalized children, as well as examinations in specialized surgeries. Takes biological material, participates in the preparation and administration of drugs, including i.v. administration of drugs and infusions. Assists in specialized diagnostic and therapeutic procedures. They will get acquainted with

the principles of rehabilitation and psychological care. He works with documentation, learns to interpret laboratory and other auxiliary examinations.

To obtain a credit from the subject Pediatrics, it is necessary to provide a written confirmation of completing the internship in the hospital, on the form provided (Pediatrics Practice form, available at MOODLE). It is enough to write the pediatric credit on the day of the state exam, but the student must have all the necessary documents with him (confirmed internship certificate and confirmed internship form). Any of the assistants of the Children's Clinic can write the credit in the index, the secretary Mgr. Danyi.

Completed by : Credit, Pediatrics practice form, state exam

Requirements : Presence in all seminars and clinical training sessions/ we accept a duly forgiven 10% absence on the basis of a medical certificate in case of illness, the replacement of the lessons will be done in the form of a seminar work after consulting the teacher. Absence in the lessons always be announced to the secretariat Mgr. Hana Danyi.
Case report presentation.

Literature :

1. T. Lissauer, G. Clayden: Illustrated Textbook of Pediatrics, published in 1997 by Mosby in England
2. W. Nelson: [Essentials of Pediatrics](#), published in 2001 by Saunders Company in the USA

State exam questions:

1. Juvenile idiopathic arthritis
Milestones of childhood (newborn, infant, toddler, preschool age, school age, adolescence)
Acute epiglottitis
2. Inflammatory joint diseases
Assessment of growth and development in childhood
Differential diagnosis of polyuria
3. Malabsorption
Developmental milestones of infancy
Febrile seizures
4. Idiopathic bowel diseases

Term newborn from delivery till discharge: principals of care

Henoch-Schönlein purpura

5. Differential diagnosis of seizures
 - Breast feeding and its advantages
 - Acute dyspnea – differential diagnosis
6. Rickets
 - Formula- feeding in infancy
 - Acute laryngitis
7. Anemia in children
 - The high-risk newborn
 - Differential diagnosis of vomiting in children
8. Respiratory tract infections
 - Cystic fibrosis
 - Bleeding disorders in childhood
9. Diseases of the thyroid gland
 - Perinatal and neonatal infections
 - Reye syndrome
10. Exantematous infections
 - Enuresis
 - Kawasaki disease
11. Diseases of white blood cells
 - Screening procedures in pediatrics
 - Hemolytic-uremic syndrome
12. Precocious puberty
 - Diseases of infancy
 - Lyme disease
13. Growth failure
 - Features of toddler-age
 - Abdominal pain in childhood
14. Iron deficient anemia
 - A general approach to children with chronic diseases
 - Fever of unknown origin
15. Atopy
 - Physiologic puberty
 - Altered consciousness- diff. dg.
16. Inflammatory diseases of CNS
 - Vaccination and its complications
 - Acute diarrhea
17. Malignancies of childhood
 - Drug abuse in children
 - Ileus
18. Diabetes mellitus
 - Preterm newborn
 - Cough
19. Bronchial asthma
 - Aspects of pharmacotherapy in childhood
 - Dehydration
20. End- stage kidney disease
 - Antibiotics in childhood
 - Poisoning
21. Hepatitis in children
 - Importance of family, non- functioning family

- Osteomyelitis
- 22. Developmental disorders (cerebral palsy, ADHD)
 - Methemoglobinemia
 - Hyponatremia, hypernatremia
- 23. Lymphadenopathy
 - Hypertension
 - Burns
- 24. Hemophilia
 - Congenital hypothyreosis
 - Child abuse and neglect syndrome
- 25. Autoimmune diseases
 - Acute pancreatitis
 - Trauma in childhood, prevention
- 26. Mentally impaired child (M. Down)
 - Hyperthyreosis
 - Tetany
- 27. Obesity
 - Hemorrhagic disease of newborn (vit. K deficiency)
 - Acute renal failure
- 28. Diseases of liver and bile ducts
 - Hydrocephalus
 - Disseminated intravascular coagulopathy
- 29. Glomerulonephritis
 - Infectious mononucleosis
 - Icterus- diff. dg.
- 30. Nutrition and its disorders
 - Helicobacter pylori infection
 - Hematuria – diff.dg.
- 31. Epilepsy
 - Lyme disease
 - Abdominalgia- diff. dg.
- 32. Thrombocytopenia
 - Congenital pylorostenosis
 - Clinical and laboratory markers of inflammation
- 33. Nephrotic syndrome
 - Gastroesophageal reflux
 - Neonatal sepsis
- 34. Congenital urinary tract abnormalities
 - Mental anorexia, bulimia
 - Diagnosis and management of sepsis
- 35. Acute lymphoblastic leukemia
 - Congenital heart disease
 - Hypoglycemia- diff. dg.
- 36. Coeliac disease
 - Delayed puberty
 - Urinary tract infections
- 37. Adrenal gland disorders
 - Congenital anomalies of gastrointestinal tract
 - Pneumonia
- 38. Immunodeficiencies
 - Congenital adrenal hyperplasia
 - Headache

- 39. Hypotrophic and preterm newborn
 - Herpetic infections
 - Acute pyelonephritis
- 40. Asphyxia in newborn
 - Streptococcal infections
 - Arrhythmias in children