

Clinic of Pediatrics, Endocrinology,
Diabetology, Metabolic Disorders
and Cardiology of Developmental Age,
PMU

Szczecin, April 28th, 2009

**PROGRAM OF THE COURSE OF PEDIATRICS FOR IVth YEAR ENGLISH
PROGRAM STUDENTS FACULTY OF MEDICINE**

The course of pediatrics comprises seminars and clinical training on ward, which take place in **Clinic of Pediatrics, Endocrinology, Diabetology, Metabolic Disorders and Cardiology of Developmental Age, PMU**

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The Head of the Unit

Prof. dr hab. Mieczysław Walczak

Doctors responsible for program:

Dr n. med. Elżbieta Petriczko

Lek. Agnieszka Biczysko - Mokosa

Total hours

129 hours include:

30 hours lectures

21 hours seminars

78 hours clinical training

ECTS: 6

Aims of the training:

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

The main interests:

Pediatric cardiology

1. Congenital heart diseases
 2. Heart insufficiency in childhood.
 3. Arrhythmias.
 4. Myocarditis.
 5. Cardiomyopathies.
 6. Life- threatening states in pediatric cardiology.
 7. Hypertension.
- Basics of diagnostic non – invasive procedures: ECG, Chest X-rays, Echocardiography.

Endocrinology and Diabetology of Developmental Period

1. Hormones activity, interactions in neurohormonal axis.
2. Physiology and pathology of growth and development (short stature, rhGH treatment, tall stature)
3. Thyroid gland disorders.
4. Puberty – physiological, precocious, delayed.
5. Adrenal disorders: adrenal cortical insufficiency, Cushing disease and syndrome.
6. Obesity.
7. Neoplasmas of endocrine glands.
8. Diabetes mellitus type 1 (pathology, diagnosis, therapy, education).

Metabolic Diseases

Inborn errors of metabolism:

1. Disorders of aminoacid metabolism (ex. Phenylketonuria, homocystinuria)
2. Organic acidaemias
3. Disorders of carbohydrate metabolism.

Up to date diagnostic procedures of IEM: GCMS, TANDEM- MS.

Childhood neurology

1. Key facts about neurological disorders in children: diagnostic procedures, treatment.
2. Neurological clinical examination – differences in infants examination.
3. Perinatal encephalopathies.
4. Congenital CNS malformations.
5. Cerebral palsy.
6. Seizures in childhood including febrile convulsions.
7. Epilepsy, epileptic esteta, paraepileptic estates.

Seminars

1. Sudden Infant Death Syndrome (SIDS).
2. Cardiomyopathies
3. Arrhythmias
4. Clinical Approach to Inborn Errors of Metabolism (IME) Part I
5. Clinical Approach to Inborn Errors of Metabolism (IME) Part II
6. Diabetes Mellitus type I in Children Part I
7. Diabetes Mellitus type I in Children Part II
8. Thyroid Disorders in Children
9. Assessment of the Infant and Children Suspected for Congenital Heart Defects (CHD)
10. Common Congenital Heart Defects (CHD) in Infancy and Childhood
11. Calcium, Magnesium and Phosphate Homeostasis
12. Hyperbilirubinemia in the Newborns.
13. Infections in the Newborns.
14. Respiratory tract infections Part I
15. Respiratory tract infections Part II
16. Development of CNS.
17. Meningitis in children
18. Update of congenital adrenal hyperplasia
19. Phenylketonuria and other IEM. Maternal phenylketonuria
20. The child with acute diarrhea.
21. Infectious disease in childhood.

Lectures

1. Children neurology: Cerebral palsy. Seizures.
2. Viral and non - viral myocarditis
3. The estimation of cardiac failure in children.
4. Resuscitation in pediatric cardiology
5. Normal puberty in children (physiology of puberty). Delayed puberty.
6. Central and peripheral precocious puberty. Possibilities of treatment of central precocious puberty (agonist of GnRH)
7. Diagnosis of short stature
8. Intrauterine growth retardation (IUGR)
9. Obesity in children and adolescence, Cushing syndrome and Cushing disease
10. Hypoglycemia
11. The principles of fluid replacement therapy.
12. The estimation of cardiac failure in children
13. Children neurological assessment.
14. Examination and Diagnostic Procedures in Pediatric Cardiology
15. Vaccinations program.

Recommended text-books:

1. R. Behrman, R. Kliegman: Nelson Essentials of Pediatrics, 4th edition 2002
2. R. Behrman, R. Kliegman: Nelson Textbook of Pediatrics, 16th edition 2000
3. T. Lissauer, G. Clayden: Illustrated Textbook of Pediatrics, 2nd edition, 2001
4. M. Schwartz: Clinical Handbook of Pediatrics, 3rd edition, 2003