**Teaching regulations for classes in internal medicine – endocrinology for sixth-year students of the Faculty of Medicine ED**

Wroclaw Medical University

2023/2024

1. Clinical classes

- Classes are held on days and at times set for individual groups by the Dean's Office - Department of Teaching Organization (class schedule available at hhttps://wu.umw.edu.pl/wu/extPages/prezentacja\_harmonogramu\_zajec/index.html).

The exercises are conducted in the Department of Endocrinology, Diabetes and Isotope Therapy, in patient rooms (first floor), in the Nyska’s Hall (first floor), and in the seminar room (ground floor). Seminars take place in the Biernacki’s lecture hall (ground floor).

- Before the first clinical classes, students are informed about the regulations, organization of classes and conditions for passing the entire course. The information is also available on the notice board at the entrance to the Department of Endocrinology, Diabetes and Isotope Therapy and on the website <http://www.umed.wroc.pl/endokrynologia>.

Current teaching announcements, schedule and lesson plan will also be posted on the board and on the website of the Department. Please monitor any changes.

Only students who are healthy and do not have symptoms suggesting any infectious disease can participate in the classes.

Symptoms such as:

1. increased body temperature

2. runny nose

3. cough

4. shortness of breath

5. disturbances of smell and taste

6. sore throat

7. chest pain

8. diarrhea

ATTENTION: ANY PERSON SHOWING THE ABOVE SYMPTOMS IS ABSOLUTELY PROHIBITED TO PARTICIPATE IN THE CLASSES.

During clinical classes, the following applies:

- clean medical uniforms

- changeable footwear or disposable shoe covers

- disposable gloves

- face shield (if a student or employee wants to increase their comfort of protection)

- hand disinfectant

Conditions for obtaining credit for the course: each absence must be made up, including rector's days and dean's hours.

The condition for passing the course is attendance at classes, in case of absence (including rector's days and dean's hours), classes must be made up with another group, not exceeding the maximum allowable number of people in the exercise group (max. 8 people), obtaining a positive assessment from the assistant for the oral answer and practical abilities.

If it is not possible to make up classes in accordance with the above, it is possible to: prepare a presentation as part of self-study or (in the case of a large number of students) a final test covering the topics of missed classes - the test will be conducted in the last week of classes in a given semester.

Students should be prepared to practice the following topics:

Winter semester

Hyperthyroidism: key elements of physical examination of the thyroid gland, interpretation of biochemical test results, differential diagnostics. Diseases associated with hyperthyroidism - pathogenesis, diagnosis, treatment methods. Thyroid orbitopathy – diagnostics, including physical examination aimed at recognizing the active phase of orbitopathy, classification, and management. Iodine 131 isotope therapy – indications and contrindications. Interpretation of thyroid scintigraphy tests. Thyrotoxic crisis – diagnosis and management. Hypothyroidism, thyroiditis - causes and symptoms, differential diagnostics, including interpretation of the results of hormonal and imaging tests of the thyroid gland, treatment methods.

Hypometabolic crisis – diagnosis and management. Parenchymal and nodular goiter - symptoms, pathogenesis and diagnosis, methods of therapy. Fine-needle aspiration biopsy – indications and contrindications, complications, usefulness in the diagnosis of cancer and other thyroid diseases, classification in the Bethesda system. Ultrasound examination of the thyroid gland - usefulness in various thyroid diseases. Thyroid cancer - etiology and pathogenesis of thyroid cancer, types of thyroid cancer. Laboratory and imaging diagnostics, differential diagnostics, treatment methods, review of the latest recommendations. Disorders of calcium and phosphate metabolism: hypercalcemia and hypocalcemia - pathogenesis, symptoms, diagnosis, including differential diagnostics, treatment. Tetany tests. Interview and physical examination focused on diseases associated with these disorders. Laboratory diagnostics, imaging capabilities. Hyperparathyroidism and hypoparathyroidism - causes, pathogenesis, symptoms, differential diagnostics and treatment methods. Interpretation of the results of parathyroid scintigraphy. Hypercalcemic crisis – diagnosis, management. Type 1 and 2 diabetes – pathogenesis, symptoms, diagnosis. Modern methods of treating type 2 diabetes, principles of selecting oral drugs and insulin in type 2 diabetes. Insulin therapy in type 1 diabetes. Using a glucometer. Basics of physical examination in diabetes, including examination aimed at the most common complications of diabetes. Ketoacidosis, non-ketotic hypermolar coma – diagnosis and management.

Summer semester

Adrenal gland diseases: focused interview and physical examination, clinical picture, laboratory diagnostics, including interpretation of the results of dynamic hormonal tests, imaging diagnostics, differential diagnostics of adrenal gland diseases involving hyperfunction and hypofunction. Treatment of adrenal disorders according to the current guidelines. Adrenal crisis – diagnosis and management. Adrenocortical carcinoma and incidentaloma – diagnosis and management, review of current guidelines. Selected endocrine disorders associated with hypertension: focused interview and physical examination. Principles of diagnostic and therapeutic procedures in patients with hormone-dependent hypertension. Differential diagnostics of endocrinopathies associated with hypertension. Diseases of the hypothalamus and pituitary gland: the most common pathologies - symptoms, focused subjective and physical examination, laboratory and imaging tests. Analysis of the results of hormonal tests (including functional tests) and imaging tests, differential diagnostics. Therapy methods and assessment of its effectiveness. Analyzing test results, solving problems - clinical cases. Menstrual disorders - causes, focused medical interview, physical examination, laboratory diagnostics (including functional tests), imaging tests. Differential diagnosis. Therapy methods. Andrology – physical examination. Symptoms, causes, diagnosis and treatment of hypo- and hypergonadotropic hypogonadism. Andropause – symptoms, laboratory diagnostics, treatment. Gynecomastia – causes and treatment. Endocrine system diseases in pregnant women: Thyroid diseases and pregnancy – diagnosis and therapy methods. Diabetes in pregnancy: diagnosis and treatment.

Any controversial issues that arise during classes should be reported to the Subject Coordinator.

In case of controversies regarding credits, the student has the right to appeal to the Head of the Clinic, who may order a committee to check the student's knowledge.

Students are reminded that the SONA didactic survey is required and must be completed at the end of the classes (generated online).

Passing the classes in internal diseases - endocrinology is based on attendance during the classes and passing an oral test on the applicable topics of the classes given by the instructor.

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Checked and approved by prof. ~~Ph.D. n. med~~. Marek Bolanowski