



48SJ-INM58
ECTS: 2.64
CYCLE: 2022Z

Course syllabus - part A INTERNAL MEDICINE 5/8

SUBJECT MATTER CONTENT

LECTURE

Epidemiology, etiopathogenesis and the classification of diabetes mellitus. Thyroid and parathyroid gland diseases.

SEMINAR

1. Acute and chronic complications of diabetes mellitus. 2. Pituitary gland diseases and adrenal gland diseases. 3. Osteoporosis and neuroendocrine tumors.1.

CLASSES

Diabetes – diagnosis; clinical features of DM. 2. Treatment of diabetes: DM1, DM2, gestational diabetes and other types. 3. Diabetic ketoacidosis, hyperglycaemic hyperosmolar state, lactic acidosis. 4. Hypoglycemia - clinical implications and treatment. 5. Diabetes treatment - pharmacological and non-pharmacological. 6. Education of a patient with diabetes (information on diabetes, nutritional treatment, exercise, self-control). 7. Oral drugs used in diabetes: biguanide and, sulphonylurea derivatives, α -glucosidase inhibitors, DPP-4 inhibitors; agonists of GLP-1 receptor. 8. Metabolic assessment of patient with diabetes – criteria of metabolic control. Assessment of nutritional treatment and physical activity. Planning therapy in diabetic patients. 9. Treatment with insulin. 10. Diabetic patient with concomitant diseases. Chronic complications of diabetes: retinopathy, nephropathy, polyneuropathy, cardiovascular complications. 11. Acute complications of diabetes: hypoglycemia, ketoacidosis and non-ketone hyperosmolar hyperglycemia. 12. Thyroid gland dysfunction 13. Graves' disease - (definition and etiopathogenesis, clinical picture, diagnosis, differentiation, treatment, prognosis). Thyroid orbitopathy. Toxic and non toxic nodular goiter. Thyroid cancer. Thyroiditis. 14. Thyroiditis and thyroid cancers. 15. Hyperaldosteronism, Cushing syndrome, Addison disease. 16. Adrenal gland incidentaloma. Adrenal gland cancer. MEN syndromed. Hypo- and hyperparathyreoidism. 17. Pituitary tumors. 18. Hormonally active and inactive pituitary gland tumors. 19. Hormonal disorders of ovaries with women: primary and secondary amenorrhea, polycystic ovary syndrome. Tumors of ovaries. Disorders of perimenopausal and postmenopausal period. 20. Primary and secondary hormonal disorders of testes with men. Neoplasms of testicles. Gynecomastia. 21. Water-electrolyte and acid-base balance disorders: dehydration, overhydration, hypo and hypernatremia, hypo and hyperkalemia, hypo and hypermagnesemia, hypo- and hypercalcemia, hypo- and hyperphosphatemia; acidosis and alkalosis. 22. Metabolic diseases of bone: osteomalacia, osteoporosis – determinants of peak bone mass and density, diagnosis and treatment of osteoporosis, FRAX; primary and secondary osteoporosis; prophylaxis of osteoporosis.

TEACHING OBJECTIVE

Etiology, pathophysiology, epidemiology, diagnosis and treatment of pulmonary, cardiac, hematologic, allergic and metabolic diseases

Legal acts specifying learning outcomes:
672/2020

Disciplines: medical sciences
Status of the

course:Obligatoryjny

Group of courses:B -

przedmioty kierunkowe

Code: ISCED 0912

Field of study:Medicine

Scope of education:

Profile of education:

Practical, General academic

Form of studies: full-time

Level of studies: uniform

master's studies

Year/semester: 5/9

Types of classes: Lecture,
Seminar, Classes

Number of hours in semester:Lecture: 12.00,
Seminar: 20.00, Classes:
32.00

Language of instruction:English

Introductory subject:

Prerequisites: Preliminary requirements: background of anatomy, physiology and pathophysiology, knowledge of the internal medicine (sem. 5-8)

Name of the organisational

unit conducting the course:Katedra Kardiologii i Chorób Wewnętrznych

Person responsible for the realization of the course:dr

n. med. Piotr Cygański

e-mail:

Additional remarks: -

DESCRIPTION OF THE LEARNING OUTCOMES OF THE COURSE IN RELATION TO THE DESCRIPTION OF THE CHARACTERISTICS OF THE SECOND LEVEL LEARNING OUTCOMES FOR QUALIFICATIONS AT LEVELS 6-8 OF THE POLISH QUALIFICATION FRAMEWORK IN RELATION TO THE SCIENTIFIC DISCIPLINES AND THE EFFECTS FOR FIELDS OF STUDY:

Symbols for outcomes related to the discipline:

M/NM+++

Symbols for outcomes related to the field of study:

K.2.+ , E.U1.+ , E.U30.+ , M/NM_E.W40.+ , E.U24.+ , E.U14.+ , E.U32.+ , E.U7.+ , M/NM_E.W39.+ , E.U3.+ , K.5.+ , E.U13.+ , M/NM_D.W17.+ , K.3.+ , K.1.+ , M/NM_E.W41.+ , M/NM_E.W7.+ , E.U16.+ , M/NM_E.W42.+ , M/NM_E.W1.+ , E.U29.+

LEARNING OUTCOMES:

Knowledge:

W1 - The student knows and understand environmental and epidemiological conditions of the most frequent diseases

W2 - The student knows and understand the patient's rights

W3 - The student knows and understand the types of biological materials used in laboratory diagnostics and the rules of sampling the materials for testing

W4 - The student knows and understand the causes, symptoms, principles of diagnosing and treating the most frequently encountered internal diseases of adults and their complications: in particular endocrine system diseases, including the hypothalamus and pituitary gland diseases, thyroid and parathyroid diseases, adrenal cortex and medulla diseases, ovary and testicle diseases and neuroendocrine tumours, polyglandular syndromes, diabetes of various types, and the metabolic syndrome - hypoglycaemia, obesity, dyslipidaemia

W5 - he student knows and understand the theoretical and practical foundations of laboratory diagnostics

W6 - The student knows and understand the potential and limitations of laboratory tests in emergencies

W7 - The student knows and understand the indications for monitored therapy

Skills:

U1 - The student can take medical interview with an adult patient

U2 - The student can conduct complete and targeted physical examination of an adult patient

U3 - The student can evaluate the overall condition, state of consciousness, and awareness of the patient

U4 - The student can assess and describe the patient's somatic and mental condition

U5 - The student can recognise immediately life-threatening conditions

U6 - The student can plan diagnostic, therapeutic, and prophylactic procedures

U7 - The student can interpret the results of laboratory tests and identify the causes of deviations from the norm

U8 - The student can perform the basic medical procedures and therapies, including: 1) taking the body temperature (both external and internal), the heart rate, the arterial pressure applying a non-invasive method, 2) monitoring the vital signs with the use of the patient monitor, pulse oximetry, 3) conducting spirometry tests, oxygentherapy, assisted and controlled ventilation, 4) inserting the oropharyngeal tube, 5) performing intravenous, intramuscular, and subcutaneous injections, cannulating peripheral veins, sampling peripheral venous blood, sampling blood for culture, sampling arterial blood, sampling arterialised

capillary blood, 6) taking swabs from the nose, throat, and skin, 7) catheterising the urinary bladder in women and men, inserting the gastric tube, performing gastric lavage, enema, 8) taking standard electrocardiogram tests and interpreting them, performing electrical cardioversion and defibrillation, 9) taking simple strip tests and measuring glucose concentration in blood

U9 - The student can assist in the following medical procedures and operations: 1) transfusing blood and blood product preparations, 2) performing pleural drainage, 3) performing pericardiocentesis, 4) performing paracentesis, 5) performing lumbar puncture, 6) performing thin needle biopsy, 7) performing epicutaneous tests, 8) performing intradermal and scarification tests and interpreting their results

U10 - The student can plan specialist consultations

Social competence:

K1 - The student is ready to establish and maintain a deep and respectful contact with the patient, as well as show understanding for worldview and cultural differences

K2 - The student is ready to be guided by the good of the patient

K3 - The student is ready to respect medical confidentiality and patient rights

K4 - The student is ready to perceive and recognize his own limitations and to self-assess deficits and educational needs

TEACHING FORMS AND METHODS:

Lecture(W1;W3;W4;W5;W6;W7;U3;U4;U5;U6;U7;U8;U9;U10;K4;):Presentation and discussion of diseases in the field of diabetology and endocrinology

Seminar(W1;W3;W4;W5;W6;W7;U3;U4;U5;U6;U7;U8;U9;U10;K4;):Discussion of issues in the field of diabetology and endocrinology

Classes(W1;W2;W3;W4;W5;W6;W7;U1;U2;U3;U4;U5;U6;U7;U8;U9;U10;K1;K2;K3;K4;):Exercises at the bedside of a patient with diabetology and endocrinology

FORM AND CONDITIONS OF VERIFYING LEARNING

OUTCOMES:

Lecture: Part in the discussion - Evaluation of the work and cooperation in the group - Attendance on lectures (W1;W2;W3;W4;W5;W6;W7;U1;U2;U3;U4;U5;U6;U7;U8;U9;U10;K1;K2;K4;);

Classes: Competence test - Competence test - Written credit (multiple-choice test) - 60 questions concerning the topic covered on respective semester.

(W1;W2;W3;W4;W5;W6;W7;U1;U2;U3;U4;U5;U6;U7;U8;U9;U10;K1;K2;K3;K4;);

BASIC LITERATURE:

1. Siegenthaler, *Differential Diagnosis in Internal Medicine*, Wyd.

Thieme, R. 2011

2. Kumar Clarks Saunders, *Clinical medicine*, Wyd. Elsevier, R. 2009

3. Boone N.A., Colledge N.R., *Davidson's Principles Practice of Medicine*, Wyd. Elsevier, R. 2012

4. Lee Goldman, MD and Andrew I. Schafer, MD, *Goldman's Cecil Medicine*, Wyd. Saunders, R. 2012

SUPPLEMENTARY LITERATURE:

Detailed description of ECTS credits awarded - part B

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INTERNAL MEDICINE 5/8

The number of ECTS credits awarded consists of:

1. Contact hours with the academic teacher:

- participation in: Lecture	12.0 h
- participation in: Seminar	20.0 h
- participation in: Classes	32.0 h
- consultation	2.0
	Total: 66.0 h.

2. Independent work of a student:

Total: 0 h

contact hours + independent work of a student Total: 66.0 h

1 ECTS credit = 25-30 h of an average student's work, number of ECTS credit = 66.0 h : 25.0 h/ECTS = 2.64 ECTS on average: 4.0 ECTS

- including the number of ECTS credits for contact hours with the direct participation of an academic teacher: 0,00 ECTS points,

- including the number of ECTS credits for hours of independent work of a student: