



Internal Medicine- Diabetology

| 1. IMPRINT | |
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| Academic Year | 2024/2025 |
| Department | Department of Internal Medicine, Endocrinology and Diabetology, Medical University of Warsaw; Mazovian Brodnowski Hospital, Kondratowicza 8, 03-242 Warsaw, Poland |
| Field of study | Diabetology |
| Main scientific discipline | Medical sciences |
| Study Profile | <i>Practical</i> |
| Level of studies | <i>uniform MSc</i> |
| Form of studies | English Division, full-time |
| Type of module / course | <i>obligatory</i> |
| Form of verification of learning outcomes | <i>completion</i> |
| Educational Unit / Educational Units | Department of Internal Medicine, Endocrinology and Diabetology, Medical University of Warsaw; Mazovian Brodnowski Hospital, Kondratowicza 8, 03-242 Warsaw, Poland |
| Head of Educational Unit / Heads of Educational Units | Professor Przemysław Witek MD, PhD |
| Course coordinator | Paweł Kuca MD, PhD |
| Person responsible for syllabus | Paweł Kuca MD, PhD |
| Teachers | Przemysław Witek, MD, PhD Roman Kuczerowski, MD, PhD Paweł Kuca, MD, PhD Patrycja Adamek, MD Aleksandra Dubiel, MD Łukasz Działach, MD Agnieszka Maksymiuk-Kłós, MD Magdalena Poteraj, MD |

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| | Joanna Sobolewska, MD Zuzanna Żak, MD |
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| 2. BASIC INFORMATION | | | |
|---|--|-------------------------------|---------------------------------|
| Year and semester of studies | V, classes - winter/springsemester Lectures – spring semester | Number of ECTS credits | 2.00 |
| FORMS OF CLASSES | | Number of hours | ECTS credits calculation |
| Contacting hours with academic teacher | | | |
| Lecture (L) | | | |
| Seminar (S) | | 10 | 0,5 |
| Classes (C) | | | |
| e-learning (e-L) | | | |
| Practical classes (PC) | | 10 | 0,5 |
| Work placement (WP) | | | |
| Unassisted student's work | | | |
| Preparation for classes and completions | | 15 | 0,5 |

| 3. COURSE OBJECTIVES | |
|-----------------------------|---|
| O1 | Improve the skills of history taking and proper physical examination. |
| O2 | Ability to conduct differential diagnosis and to use proper diagnostic path in diabetology |
| O3 | Ability to recognize and treat life-threatening conditions in diabetology Ability to treat and monitor treatment of common types of diabetes |

| 4. STANDARDS OF LEARNING – DETAILED DESCRIPTION OF EFFECTS OF LEARNING | |
|---|---|
| Code and number of the effect of learning in accordance with standards of learning | Effects in the field of: E.W1, E.W7, E.W40, E.W41, E.U1, E.U3, E.U7, E.U12, E.U13, E.U14, E.U16, E.U18, E.U24, E.U38 |

| Knowledge – Graduate* knows and understands: | |
|---|---|
| G.K1 | knows and understands principles of history taking and physical examination (E.W7) |
| G.K2 | knows and understands the causes, symptoms, principles of diagnosis and therapeutic management in relation to the most common internal diseases occurring in adults and their complications: neuropathy, nephropathy, retinopathy, cardiovascular diseases (E.W1, E.W7) |
| G.K3 | knows and understands interpretation of laboratory values and others basic tests (E.W7, E.W40, E.W41) |

| Skills– Graduate* is able to: | |
|--------------------------------------|---|
| G.S1 | Takes history and perform physical examination of patients with diabetes (E.U1, E.U3, E.U7, E.U13) |
| G.S2 | interpret laboratory tests and imaging tests in diabetes (E.U24) |
| G.S3 | provide differential diagnosis of particular symptoms including metabolic disorders (E.U12) |
| G.S4 | plan diagnostic procedures and treatment in common type of diabetes (E.U16) |
| G.S5 | prepare and analyse clinical cases (E.U13, E.U38) |
| G.S6 | recognize, diagnose and treat life-threatening conditions in diabetology (E.U14) |
| G.S7 | present a patient case to other doctor, consult relevant abnormalities in laboratory and imaging tests (E.U13, E.U14, E.U16, E.U18) |

* In appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019 „graduate”, not student is mentioned.

| 5. ADDITIONAL EFFECTS OF LEARNING (non-compulsory) | |
|---|----------------------------------|
| Number of effect of learning | Effects in the fields of: |
| Knowledge – Graduate knows and understands: | |
| K1 | |
| K2 | |
| Skills– Graduate is able to: | |
| S1 | |
| S2 | |
| Social Competencies – Graduate is ready for: | |
| SC1 | |
| SC2 | |

| 6. CLASSES | | |
|----------------------|---|--|
| Form of class | Class contents | Effects of Learning |
| bedside classes | Training of practical issues connected with making history, signs and symptoms assessment as well as diagnosis and treatment. | E.U1, E.U3, E.U7, E.U12, E.U13, E.U14, E.U16, E.U24, E.U38 |
| Lectures | Lectures: 1. Clinical cases of acute complications in diabetes. 2. Clinical cases of retinopathy, nephropathy and neuropathy. 3. Clinical examples of diabetic foot. 4. Clinical cases of diabetes in pregnancy. | E.W1, E.W7, E.W40, E.W41, E.U13, E.U14, E.U16, E.U18 |
| Seminars | S1-Pathophysiological basis for glucose metabolism disorders classifications. Metabolic syndrome. S2- Diabetes type 2 and type 1-differences in pathophysiology. S3- Diet and physical activity in diabetes. S4- Goals of treatment for patient with diabetes S5- Insulin in the treatment for patients with diabetes : algorithms, insulin pumps S6- Hypoglycemic agents in the treatment of diabetes with introduction to new drugs. S7- Acute complications of diabetes . S8 -Chronic complications of diabetes –retinopathy and nephropathy. S9 -Chronic complications of diabetes – neuropathy and diabetic foot . S10-Cardiovascular diseases in diabetes . S11. Diabetes in specific situations: hospitalization, diabetes in pregnancy, elderly. S12. Common endocrinopathies in diabetology | E.W1, E.W7, E.W40, E.W41 |

| 7. LITERATURE |
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| Obligatory |
| <ol style="list-style-type: none"> Kumar and Clark's Clinical Medicine , 8e/9e (Kumar, Kumar and Clark's Clinical Medicine) by Parven Kumar Harrison's Internal Medicine (20 th edition) |
| Supplementary |
| International Textbook of Diabetes Mellitus , 2 Volume Set 4 th edition by R.A. DeFronzo (Editor), e.Ferrannini (Editor), George Alberti (Editor) 2015 |

| 8. VERIFYING THE EFFECT OF LEARNING | | |
|--|--|---|
| Code of the course effect of learning | Ways of verifying the effect of learning | Completion criterion |
| <i>e.g. G.K1, G.S1, K1</i> | <i>This field defines the methods used for grading students e.g. pop quiz, test, written report etc.</i> | <i>e.g. threshold number of points</i> |
| G.S1, G.S2, G.S3, G.S4, G.S6 | Active participation in all seminars and classes. | Obligatory attendance and active participation in all seminars and classes. |

Załącznik nr 4C do Procedury opracowywania i okresowego przeglądu programów studiów
(stanowiącej załącznik do Zarządzenia nr .../2024 Rektora WUM z dnia2024 r.)

| | | |
|------------------|---|---|
| G.S5, G.S7 | Preparing a power-point presentations. | Presentation of case report. |
| G.K1, G.K2, G.K3 | Execution of assigned tasks on the e-learning platform. | Execution of assigned tasks on the e-learning platform. |
| G.K1, G.K2, G.K3 | Test at the end of the course . | 3.0 (satisfactory). |

9. ADDITIONAL INFORMATION

*(Please write here Information essential for the course instructor that are not included in the other part of the course syllabus, **particularly the number of acceptable tries for passing a subject (§ 26, § 27 and § 28 of Study Regulations), including exam admission passes, and e.g. if the course is related to scientific research, detailed description of, information about the Science Club)***

At the first day of the course we meet at the entrance of the clinic (The Department of Endocrinology, Diabetology and Internal Medicine – Kondratowicza Street 8, building C, 7th floor) at 8:00 a.m.

Then we present the detailed schedule of classes.

From Tuesday students present case reports indicated by the teacher.

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ATTENTION

The final 10 minutes of the last class of the block/semester/year should be allotted for students to fill out the Survey of Evaluation of Classes and Academic Teachers