

2022/2023
Internal Medicine I. – Course Description
Neptun code: AOKBOK784_1A

Blocks: (4 weeks course + 1 week exam)

1st semester

Groups 9-10.:	course: 2022.09.12-10.07.	exam: 10.10-10.14.
Groups 1-2.:	course: 2022.10.17-11.11.	exam: 11.14-11.18.
Groups 3-4.:	course: 2023.01.09-02.03.	exam: 02.06-02.10.

2nd semester

Groups 5-6.:	course: 2023.03.20-04.21.	exam: 04.24-04.28. <u>Spring break: 04.03-04.07.</u>
Groups 7-8.:	course: 2023.06.05-06.30.	exam: 07.03-07.07.

Lectures: 28x45 min/block, Department of Internal Medicine and Oncology, Lecture Hall

Practices: 32x45 min/block case discussion + 38x45 min/block bedside practice

Requirements for obtaining the signature for the course: Participation on at least 75% of all sessions. At the end of the semester, after the student has taken his/her attendance sheet to the secretariat, the Course Director grants credits to students in the Neptun system.

Exam period: on the 5th week of each block.

Exam type: semi-final, written and oral parts

On the first day of the exam week, students take a 60-min written test. After the test, during the following days, a bedside, patient-oriented oral exam is taken. In case of a failure during the written test, oral retake exam is provided on the last day of the exam week.

Written test and oral exam both provide 50-50 points. Passing the written test requires at least 25 points (50%)

Score-to grade conversion is as follows:

90-100: excellent (5), 80-89: good (4), 70-79: average (3), 60-69 pass (2), <60 fail (1).

Lectures and case discussions:

Lectures:

1. E1 Introduction to endocrinology: Diseases of the pituitary and the hypothalamus. (Igaz P)
2. E2 Thyroid disorders – symptoms, diagnosis and treatment. (Takács I)
3. E3 Thyroid nodules and cancer. (Lakatos PA)
4. E4 Secondary endocrine hypertension (primary aldosteronism, pheochromocytoma). (Reismann P)
5. E5 Glucocorticoid deficiency and overproduction: Addison's disease and Cushing's syndrome, iatrogenic Cushing's syndrome. (Tóth M)
6. E6 Neuroendocrine tumours. (Igaz P)
7. E7 Disorders of the gonads. (Szücs N)
8. E8 Disorders of calcium metabolism. (Horváth Cs)
9. D9 Causes and diagnosis of blood glucose disorders. (Kempler P)
10. D10 Glucose control in diseases of carbohydrate metabolism. (Tabák Á)
11. D11 Managing diabetic patients and their complications. (Kocsis Gy)
12. D12 Obesity, management and treatment of patients with lipid metabolism disorders. (Szathmári M)

Case discussions:

1. S21 Diagnosis, treatment and follow-up of patients with pituitary adenoma and hypopituitarism. (90' Szücs N / Tóke J)
2. S22 What to do in case of altered TSH, examination of thyroid disorders. (90' Szili B)
3. S23 Examination of cortisol overproduction and deficiency, follow-up and management of patients with Cushing's syndrome and adrenocortical insufficiency (90' Tóth M / Tóke J)
4. S24 Diagnosis and treatment of osteoporosis. (90' Horváth Cs)
5. S25 Managing diabetes mellitus – diet and treatment. (90' Kocsis Gy)
6. S26 Purine, iron, copper and other rare metabolism disturbances. (90' Reismann P)
7. S11 Thyroid nodules, examination of thyroid cancer, radioiodine treatment. (45' Bakos B)
8. S12 Options of neuroendocrine tumour treatment, endocrine paraneoplastic syndromes. (45' Dohán O)
9. S13 Examination and treatment of hyper- and hypocalcaemia (45' Mészáros Sz)
10. S14 Thyroid ultrasound (45' Dohán O / Reismann P)
11. S15 Managing and follow-up of diabetic patients, complications. (45' Nagy G)
12. S16 Obese patient, metabolic syndrome, when to treat elevated cholesterol. (45' Kollár R)

Nephrology**Lectures:**

1. N13 Glomerular diseases. (Pethő Á)
2. N14 Tubulointerstitial and cystic kidney diseases. (Studinger P)
3. N15 Electrolyte disorders. (Ledó N)
4. N16 Renal transplantation. (Wagner L / Cseprekál O)
5. N17 Differential diagnostics of renal diseases. (Tislér A)

Case discussions:

1. S27 A young female patient with acute kidney injury and liver dysfunction. (90' Tislér A)
2. S28 Approach to a patient with glomerulonephritis. (90' Studinger P)
3. S29 Dialysis treatment. (90' Pethő Á)
4. S17 Management of a patient with chronic kidney disease. (45' Pethő Á)
5. S18 Vascular disorders of the kidneys, kidney stones and urinary tract infection. (45' Studinger P)
6. S19 Hematuria and proteinuria during pregnancy. (45' Ledó N)

Gastroenterology**Lectures:**

1. G18 Disorders of the oesophagus and the stomach. (Székely H)
2. G19 Disorders of the small bowel, malabsorption and maldigestion. (Patai Á)
3. G20 Inflammatory bowel diseases. (Miheller P)
4. G21 Diseases of the large bowel. Functional GI disorders. (Mihály E)
5. G22 Gastrointestinal bleeding. (Hritz I)
6. G23 Management of a patient with acute liver failure. (Hagymási K)
7. G24 Disorders of the pancreas. (Hegyí P)

Case discussions:

1. S110 Management of a patient with a pancreatic disease. (90' Erőss B)
2. S211 Approach to a patient with acute abdominal pain. (90' Hagymási K)
3. S210 Approach to a patient with an abnormal liver function test. (90' Folhoffer A)
4. S212 Differential diagnosis and management of obstructive jaundice. (45' Patai Á)

5. S111 Approach to a patient with swallowing difficulty. (45' Székely H)
6. S112 Celiac disease. Differential diagnosis of diarrhoea (45' Mihály E)

Bedside practices / Tutors

Monday Week #1 10:30-12:15, Weeks #2-4 10:00-12:15

Tislér A / Barkai L / Horváth V / Ledó N / Szabó G / Svébis M

Tuesday Weeks #1-3 10:00-12:15

Barna I / Szabó G / Kocsis Gy / Kollár R / Vági O / Leister K

Wednesday Weeks #1-3 10:00-12:15

Tőke J / Studinger P / Eröss B / Hegyi P / (Hagymási K - Székely H - Müllner K: 2 groups)

Friday Weeks #1-3 10:00-12:15

Lakatos PA / Bakos B / Perge P / Szabó G / Németh D / Szili B

Detailed program

Week #1

	MONDAY	TUESDAY	WEDNESDAY	FRIDAY
8:15-9:45	8:00-8:20 Introduction 8:30-10:00 S27 Tislér A S210 Folhoffer A S24 Horváth Cs	S28 Studinger P S211 Hagymási K S23 Tóth M / Tőke J	S29 Pethő Á S110 Hegyi P S21 Szücs N /Tőke J	S25 Kocsis Gy S26 Reismann P S22 Szili B
10:00-12:15	10:30-12:15 bedside practice	bedside practice	bedside practice	bedside practice
13:15-14:00	N13 Pethő Á	N17 Tislér A	G20 Miheller P	D9 Kempler P
14:15-15:00	E1 Igaz P	G18 Székely H	G22 Hritz I	E2 Takács I
15:15-16:00	S19 Ledó N S212 Patai Á S13 Mészáros Sz	S18 Studinger P S112 Mihály E S12 Dohán O	S17 Pethő Á S111 Székely H S14 Dohán O /Reismann P	S15 Nagy G S16 Kollár R S11 Bakos B

Week #2

	MONDAY	TUESDAY	WEDNESDAY	FRIDAY
8:15-9:45	S27 Tislér A S210 Folhoffer A S24 Horváth Cs	S28 Studinger P S211 Hagymási K S23 Tóth M / Tőke J	S29 Pethő Á S110 Hegyi P S21 Szücs N /Tőke J	S25 Kocsis Gy S26 Reismann P S22 Szili B
10:00-12:15	bedside practice	bedside practice	bedside practice	bedside practice
13:15-14:00	D10 Tabák Á	E3 Lakatos PA	N15 Ledó N	E4 Reismann P
14:15-15:00	N14 Studinger P	D11 Kocsis Gy	E5 Tóth M	G21 Mihály E
15:15-16:00	S19 Ledó N S212 Patai Á S13 Mészáros Sz	S18 Studinger P S112 Mihály E S12 Dohán O	S17 Pethő Á S111 Székely H S14 Dohán O /Reismann P	S15 Nagy G S16 Kollár R S11 Bakos B

Week #3

	MONDAY	TUESDAY	WEDNESDAY	FRIDAY
8:15-9:45	S27 Tislér A S210 Folhoffer A S24 Horváth Cs	S28 Studinger P S211 Hagymási K S23 Tóth M / Tőke J	S29 Pethő Á S110 Hegyi P S21 Szücs N /Tőke J	S25 Kocsis Gy S26 Reismann P S22 Szili B
10:00-12:15	bedside practice	bedside practice	bedside practice	bedside practice
13:15-14:00	E6 Igaz P	G23 Hagymási K	G19 Patai Á	E8 Horváth Cs
14:15-15:00	G24 Hegyi P	E7 Szücs N	N16 Wagner L	D12 Szathmári M
15:15-16:00	S19 Ledó N S212 Patai Á S13 Mészáros Sz	S18 Studinger P S112 Mihály E S12 Dohán O	S17 Pethő Á S111 Székely H S14 Dohán O /Reismann P	S15 Nagy G S16 Kollár R S11 Bakos B

Week #4

	MONDAY	TUESDAY	WEDNESDAY	FRIDAY
8:15-9:45	RETAKE	RETAKE		
10:00-12:15	bedside practice !	RETAKE		
13:15-14:00	RETAKE	RETAKE		
14:15-15:00	RETAKE	RETAKE		
15:15-16:00	RETAKE	RETAKE		

Week #5

	MONDAY	TUESDAY- FRIDAY
10:00-11:00	written exam	oral exam (9:00-13:30)

Suggested print, electronic, online material:

1. Lynn S. Bickley: Bates' Guide to Physical Examination and History Taking. (Wolters Kluwer, 12th Ed., 2016.)
2. Kumar & Clark's Clinical Medicine. Ed. Feather, Randall, Waterhouse. Elsevier, 10th ed. 2020. ISBN 9780702078682
3. Harrison's Principles of Internal Medicine. Ed. Jameson, Fauci, Kasper, Hauser, Longo, Loscalzo. 20th ed. McGraw Hill Inc. 2018
4. Lecture slides provided online after registration (bell.semmelweis.hu/)

Budapest, 25/08/2022

Prof. Dr. Takács István
course director