



Non-Commercial Educational Institution
Educational-Scientific-Production Complex
«International University of Kyrgyzstan»

Quality Management System
Academic and methodological complex of the discipline
«Nephrology»
MEP of «General Medicine» ISM IUK

INTERNATIONAL UNIVERSITY OF KYRGYZSTAN
INTERNATIONAL SCHOOL OF MEDICINE
Department of Therapy



Syllabus

OF THE DISCIPLINE
«ENDOCRINOLOGY»

Main educational program

specialty of **560001 General Medicine (for foreign citizens)**
(code, direction name / specialty)

qualification of the graduate: general practitioner
(the qualification of the graduate is indicated in accordance with SES HPE)

Full-time education

Course 3

Semester 5.6

Credit / Exam 6

Total curriculum credits 2.7

Work program developer: Sarieva Zh.M.

Head of the Department: Prof. Baitova G. M.

Bishkek 2021



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1. The work program of the academic discipline

1.1.Explanatory note

- **Mission of the ISM IUK** – *training of competent specialists in the field of medicine, consistent with international standards and traditions of medical ethics, ready for continuous professional growth using modern achievements of science and practice, to solve public health problems.*

Annotation of the academic discipline

The program is focused on teaching foreign citizens.

Endocrinology is one of the main sections, the study of which lays down theoretical knowledge and practical skills in examining somatic patients with diseases of the endocrine organs.

Internal medicine is one of the leading disciplines that form clinical thinking in students, laying a solid foundation for future professional activities. This discipline is compulsory for study at a medical school.

• **Goals and objectives of the discipline**

The purpose of mastering the discipline Internal Diseases (Endocrinology) is to master professional medical examination skills; diagnostic tactics and individualized therapy; filling out medical documentation; methods of providing emergency care, rehabilitation of patients with diseases of the endocrine organs.

Tasks:

1. Improvement of knowledge of etiopathogenesis, clinical picture, methods of diagnostics of diseases of the endocrine system.
2. Improving knowledge of the basics of therapy and rehabilitation of endocrinological patients.
3. Improving the skills and abilities of using the syndromological approach in carrying out differential diagnostic measures for diseases of the organs of the endocrine system.

• **Place of discipline in the structure of MEP (prerequisites, postrequisites).**

The content of the discipline "Endocrinology" is based on the content of such previous disciplines as "Normal Anatomy", "Normal Physiology", "Pathological Physiology", "Basic and Clinical Pharmacology", "Propedeutics of Internal Diseases".

Subsequently, the knowledge gained in the course of studying the discipline "Endocrinology" will be necessary in the study of disciplines "Family medicine", "Outpatient therapy", "Professional pathology".



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Competencies of students, formed as a result of mastering discipline, the planned results of mastering the discipline.

The student's competencies, formed as a result of mastering the discipline: PC-2; PC-13; PC-14;

Professional competencies:

PC-2 - is able and ready to conduct and interpret a survey, physical examination, clinical examination, the results of modern laboratory and instrumental studies, to write a medical record of an outpatient and inpatient adult and child.

PK-13 - is able to identify in patients the main pathological symptoms and syndromes of diseases, using knowledge of the basics of biomedical and clinical disciplines, taking into account the course of pathology in organs, systems of the body as a whole, to analyze the patterns of functioning of organs and systems in various diseases and pathological processes, use the algorithm for making a diagnosis (main, concomitant, complications), taking into account the ICD-10, carry out the main diagnostic measures to identify urgent and life-threatening conditions;

PC-14 - is able to perform basic therapeutic measures for the most common diseases and conditions in adults and children;

After mastering this discipline, the student:

will know

- anatomical and physiological, age and sex characteristics of the functioning of organs and systems of a healthy person;
- the essence and methodology of the most common methods of laboratory and instrumental examination of the respiratory system, blood circulation, digestion, urination, hematopoiesis, etc. in a healthy person;
- normal indicators of laboratory and instrumental examination methods.

understand

- the results of biochemical and clinical studies of a healthy person

be able to

- conduct a survey of the patient and / or his relatives and obtain complete information about the disease, establishing the possible causes of the disease in typical cases;
- conduct a physical examination of a healthy patient (examination, palpation, auscultation, blood pressure measurement, determination of the properties of the arterial pulse, etc.)
- normal indicators of laboratory and instrumental examination methods;
- collect complaints and anamnesis from the patient,
- conduct an objective examination of a healthy patient,
- measure height, weight and calculate body mass index,



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– draw up a plan for laboratory and instrumental examination of the patient

will be able to use

- physical examination methods in a healthy person
- knowledge of laboratory and instrumental research in the further training program and determination of treatment tactics
- physical examination data and the results of the patient's study in writing a student case history
- skills for the formation of positive medical behavior in the adult population, adolescents and children, motivation for a healthy lifestyle, including the elimination of bad habits that adversely affect the health of the younger generation;

will be able to carry out

- search for information from various sources, work with information in global computer networks, use the capabilities of modern information technologies to solve professional problems;
- conversations with the patient about health promotion, healthy lifestyle and disease prevention;
- informing the patient and their relatives;
-

able to analyze:

- The goals and significance of the patient's research method and their purpose, taking into account the indications and contraindications
- interpretation of anamnesis data, objective examination of the patient, his laboratory and instrumental data;

able to evaluate:

- the state of health, the influence of lifestyle factors, the environment and the organization of medical care on it.

1.2. Recommended educational technologies

For the development of students of the educational discipline "Endocrinology", the acquisition of knowledge and the formation of professional competencies, the following educational technologies are used:

- *lectures - electronic presentations;*
- *lecture-visualization*
- *brainstorm*
- *small group method*
- *classes with the use of simulators, models, simulators,*
- *analysis of clinical cases,*
- *preparation and protection of medical history*
- *attendance at medical conferences*



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- *preparation and defense of abstracts.*

1.3. The scope of the discipline and types of educational work

Full-time form of education

According to the curriculum 2021	5th sem.	Total	
		in hours	in credits
Total labor intensity	60	60	1.6
Classroom work	36	36	1
Lectures	18	20	0.5
Practical lessons	18	20	0.5
Independent work	24	24	0.6
CPC	12	12	0.3
SRSP	12	12	0.3
Final control type	Offset		

According to the curriculum 2021	6th.	Total	
		in hours	in credits
Total labor intensity	38	38	1
Classroom work	22	22	0.6
Lectures	10	10	0.3
Practical lessons	12	12	0.3
Independent work	16	16	0.4
CPC	8	8	0.2
SRSP	8	8	0.2
Final control type	Offset		

1.4. Discipline structure

1.4.1. Thematic plan for the study of the discipline and competency matrices

5 semester

№	Sections names and discipline topics (lectures and practical exercises)	Class works				Total class work hours	SIWT	SIW	Formed competence	Used educational technologies, teaching means and methods	Current and midterm academic performance control forms
		lectures	seminars	practical classes	laboratory works						
	Module 1										T
1	Topic 1. Syndrome of thyrotoxicosis.	2		2	4	2		PC-2; PC-13; PC-14;	LV, MG, KS	S, Pr, Zs, D	




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2	Topic 2. Syndrome of hypothyroidism.	2		2		4	2		PC-2; PC-13; PC-14;	LV, MG, Tr, KS	S, Pr, Zs, D
3	Topic 3. Iodine deficiency diseases.	2		2		4		2	PC-2; PC-13; PC-14;	LV, MG, KS	S, Pr, Zs, D
4	Topic 4. Hyperparathyroidism.	2		2		4	2		PC-2; PC-13; PC-14;	LV, MG, KS	S, Pr, Zs, D
5	Topic 5. Hypoparathyroidism.	2		2		4		2	PC-2; PC-13; PC-14;	LV, MG, KS	S, Pr, Zs, D
6	Topic 6. Syndrome of hypercortisolism.	2		2		4	2	2	PC-2; PC-13; PC-14;	LV, MG, KS	S, Pr, Zs, D
7	Topic 7. Syndrome of hypocorticism.	2		2		4		2	PC-2; PC-13; PC-14;	LV, MG, KS	S, Pr, Zs, D
8	Topic 8. Hypopituitarism syndrome	2		2		4	2	2	PC-2; PC-13; PC-14;	LV, MG, KS	S, Pr, Zs, D
9	Topic 9. Hyperpituitarism syndrome	2		2		4	2	2	PC-2; PC-13; PC-14;	LV, MG, KS	S, Pr, Zs, D
	Total hours by discipline:	18		18		36	12	12			

6 semestr

№	Sections names and discipline topics (lectures and practical exercises)	Class works				Total class work hours	SIWT	SIW	Formed competence	Used educational technologies, teaching means and methods	Current and midterm academic performance control forms
		lectures	seminars	practical classes	laboratory works						
	Module 1										T
1	Topic 1. Diabetes mellitus	2		2		4	2	2	PC-2; PC-13; PC-14;	LV, MG, KS	S, Pr, Zs, D
2	theme 2. Treatment of diabetes 1 type	2		2		4	2		PC-2; PC-13; PC-14;	LV, MG, Tr, KS	S, Pr, Zs, D
3	Topic 3. Treatment of type 2 diabetes mellitus	2		2		4		2	PC-2; PC-13; PC-14;	LV, MG, KS	S, Pr, Zs, D
4	Topic 4. Acute complications of diabetes mellitus	2		2		4	2	2	PC-2; PC-13; PC-14;	LV, MG, KS	S, Pr, Zs, D

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5	Topic 5. Micro- and macrovascular complications of diabetes mellitus.	2		2		4	2	2	PC-2; PC-13; PC-14;	LV, MG, KS	S, Pr, Zs, D
	Test			2		2					S, Pr, Zs, D
6	Total hours by discipline:	10		12		22	8	8			

Abbreviation for designations of educational technologies, teaching means and methods:

Traditional lecture (L), lecture-visualization (LV), problem based lecture (PBL), press-conference-lecture (PCL), conference-class (CC), Training (T), debates (D), brain storming (BS), master class (MC), «round table» (RT), activation of creative activity (ACA), regulated discussion (RD), forum typed discussion (F), business and role learning game (BG, RG), small group method (SG), classes using simulators (S), computer simulation (CS), analysis of clinical cases (ACC), preparation and protection of medical history (MH), use of computer training programs (CTP), interactive atlases (IA), attending medical conferences, consultations (AMC), participation in scientific and practical conferences (SPC), congresses, symposia (Sym), student academic research work (SARW), subject Olympiads (O), preparation of written analytical works (AW), preparation and defense of abstracts (A), design technology (DT), excursions (E), дистанционные образовательные технологии (DLT).

Abbreviation for designations current and midterm academic performance control forms: T – testing, Pr – practical skills (abilities) mastering assessment, CS – case study, CW – control work, CT – control task, MH – writing and protecting medical history, CP – writing and defending a curatorial paper, A – writing and defending an abstract, I – test interview, R – preparation of a report, etc.

1.4.2. Organization of students' independent work

5 semester

No.	The topic of the student's independent work:	SRS task	Recommended literature	Timing surrender (week number)
1	Thyroiditis	Presentation, abstract	1. Aled Rees, Miles Levy, Andrew Lansdown / Endocrinology and Diabetes at a Glance, 2017 2. Shlomo Melmed, MD / Williams textbook of endocrinology, 12th edition 2011 3. SHLOMO MELMED, THE PITUITARY, FOURTH EDITION. 2017 4. Michael T. McDermott, MD ENDOCRINE SECRETS, Sixth Edition, 2013	1
2	Thyroid cancer	Presentation, abstract	1. Aled Rees, Miles Levy, Andrew Lansdown / Endocrinology and Diabetes at a Glance, 2017	2



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			<p>2. Shlomo Melmed, MD / Williams textbook of endocrinology, 12th edition 2011</p> <p>3. SHLOMO MELMED, THE PITUITARY, FOURTH EDITION. 2017</p> <p>4. Michael T. McDermott, MD ENDOCRINE SECRETS, Sixth Edition, 2013</p>	
3	Growth hormone deficiency.	Presentation, abstract	<p>1. Aled Rees, Miles Levy, Andrew Lansdown / Endocrinology and Diabetes at a Glance, 2017</p> <p>2. Shlomo Melmed, MD / Williams textbook of endocrinology, 12th edition 2011</p> <p>3. SHLOMO MELMED, THE PITUITARY, FOURTH EDITION. 2017</p> <p>4. Michael T. McDermott, MD ENDOCRINE SECRETS, Sixth Edition, 2013</p>	3
4	Diabetes insipidus	Presentation, abstract	<p>1. Aled Rees, Miles Levy, Andrew Lansdown / Endocrinology and Diabetes at a Glance, 2017</p> <p>2. Shlomo Melmed, MD / Williams textbook of endocrinology, 12th edition 2011</p> <p>3. SHLOMO MELMED, THE PITUITARY, FOURTH EDITION. 2017</p> <p>4. Michael T. McDermott, MD ENDOCRINE SECRETS, Sixth Edition, 2013</p>	4
5	Pheochromocytoma	Presentation, abstract	<p>1. Aled Rees, Miles Levy, Andrew Lansdown / Endocrinology and Diabetes at a Glance, 2017</p> <p>2. Shlomo Melmed, MD / Williams textbook of endocrinology, 12th edition 2011</p> <p>3. SHLOMO MELMED, THE PITUITARY, FOURTH EDITION. 2017</p> <p>4. Michael T. McDermott, MD ENDOCRINE SECRETS, Sixth Edition, 2013</p>	5
6	Empty Turkish Saddle Syndrome	Presentation, abstract	<p>1. Aled Rees, Miles Levy, Andrew Lansdown / Endocrinology and Diabetes at a Glance, 2017</p> <p>2. Shlomo Melmed, MD / Williams textbook of endocrinology, 12th edition 2011</p> <p>3. SHLOMO MELMED, THE PITUITARY, FOURTH EDITION. 2017</p>	6



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			4. Michael T. McDermott, MD ENDOCRINE SECRETS, Sixth Edition, 2013	
7	Hyperprolactinemia	Presentation, abstract	1. Aled Rees, Miles Levy, Andrew Lansdown / Endocrinology and Diabetes at a Glance, 2017 2. Shlomo Melmed, MD / Williams textbook of endocrinology, 12th edition 2011 3. SHLOMO MELMED, THE PITUITARY, FOURTH EDITION. 2017 4. Michael T. McDermott, MD ENDOCRINE SECRETS, Sixth Edition, 2013	7

6 semester

No.	The topic of the student's independent work:	SRS task	Recommended literature	Timing surrender (week number)
1	Prevention of obesity. Healthy lifestyle.	Presentation, abstract	1. Aled Rees, Miles Levy, Andrew Lansdown / Endocrinology and Diabetes at a Glance, 2017 2. Shlomo Melmed, MD / Williams textbook of endocrinology, 12th edition 2011 3. Jay S. Skyler, MD / Atlas of Diabetes, Fourth Edition 2012 4. Michael T. McDermott, MD ENDOCRINE SECRETS, Sixth Edition, 2013	1
2	Self-control and education for type 1 and type 2 diabetes.	Presentation, abstract	1. Aled Rees, Miles Levy, Andrew Lansdown / Endocrinology and Diabetes at a Glance, 2017 2. Shlomo Melmed, MD / Williams textbook of endocrinology, 12th edition 2011 3. Jay S. Skyler, MD / Atlas of Diabetes, Fourth Edition 2012 4. Michael T. McDermott, MD ENDOCRINE SECRETS, Sixth Edition, 2013	2
3	Insulin therapy and calculation of food by bread units.	Presentation, abstract	1. Aled Rees, Miles Levy, Andrew Lansdown / Endocrinology and Diabetes at a Glance, 2017 2. Shlomo Melmed, MD / Williams textbook of endocrinology, 12th edition 2011 3. Jay S. Skyler, MD / Atlas of Diabetes, Fourth Edition 2012 4. Michael T. McDermott, MD ENDOCRINE SECRETS, Sixth Edition, 2013	3



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4	Diabetic foot syndrome	Presentation, abstract	1. Aled Rees, Miles Levy, Andrew Lansdown / Endocrinology and Diabetes at a Glance, 2017 2. Shlomo Melmed, MD / Williams textbook of endocrinology, 12th edition 2011 3. Jay S. Skyler, MD / Atlas of Diabetes, Fourth Edition 2012 4. Michael T. McDermott, MD ENDOCRINE SECRETS, Sixth Edition, 2013	4
5	Gestational diabetes mellitus	Presentation, abstract	1. Aled Rees, Miles Levy, Andrew Lansdown / Endocrinology and Diabetes at a Glance, 2017 2. Shlomo Melmed, MD / Williams textbook of endocrinology, 12th edition 2011 3. Jay S. Skyler, MD / Atlas of Diabetes, Fourth Edition 2012 4. Michael T. McDermott, MD ENDOCRINE SECRETS, Sixth Edition, 2013	5

1.4. Control questions for the course:

1. Epidemiology and classification of diabetes
2. Risk factors of type 2 diabetes, diagnosis of carbohydrate metabolism disorders in the risk group.
3. DM type 1, etiology and pathogenesis.
4. Clinic, diagnosis of type 1 diabetes mellitus
5. DM type 2, etiology and pathogenesis.
6. Clinic, diagnosis of type 2 diabetes mellitus
7. Principles of type 2 diabetes mellitus treatment: oral hypoglycemic drugs.
8. Indications for insulin therapy in type 2 diabetes mellitus
9. Etiology, pathogenesis, classification of macrovascular complications of diabetes mellitus.
10. Features of ischemic heart disease in patients with diabetes mellitus.
11. Etiology, pathogenesis, classification of microvascular complications of diabetes mellitus.
12. Classification of diabetic retinopathy. The principles of diagnosis and treatment.
13. Classification of diabetic nephropathy. The principles of diagnosis and treatment.
14. Classification of diabetic neuropathy. Diagnostic and Treatment Principles
15. Etiology and pathogenesis of diabetic ketoacidosis and coma.
16. Clinical variants of the course of diabetic ketoacidosis and coma.
17. Diagnostics, treatment of diabetic ketoacidosis and coma.
18. Hyperosmolar hyperglycemic states, diagnostics, principles of treatment.



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19. Hypoglycemia, hypoglycemic coma, etiopathogenesis, clinical picture, diagnosis, emergency care.
20. Lactic acidosis, diagnosis, principles of treatment
21. Differential diagnosis of coma in diabetes mellitus.
20. Diffuse toxic goiter (Graves' disease), etiology, pathogenesis
22. Diffuse toxic goiter. Clinic, diagnostics, treatment principles ..
23. Hypothyroidism. Classification, etiology, pathogenesis, clinical picture, diagnosis, treatment.
24. Features of the clinic and diagnosis of secondary hypothyroidism.
25. Thyroiditis, classification, diagnosis, treatment principles.
26. Hypoparathyroidism, diagnosis, treatment principles.
27. Hyperparathyroidism, diagnosis, treatment principles.
28. Iodine deficiency diseases. Classification. The role of iodine in the human body.
29. Prevention of IDD: mass, group, individual. IDD risk groups
30. Endemic and sporadic goiter, diagnosis and treatment
31. Chronic adrenal insufficiency. Etiology, pathogenesis, clinic, principles of diagnosis and treatment.
32. Differential diagnosis of primary and secondary CNI.
33. Acute adrenal insufficiency, Addison's crisis, principles of diagnosis and treatment ..
34. Itsenko-Cushing's disease, etiopathogenesis, clinical picture, principles of diagnosis and treatment
35. Differential diagnosis of the disease and Itsenko-Cushing's syndrome.
36. Acromegaly. Etiopathogenesis, clinical picture, principles of diagnosis and treatment
37. Diabetes insipidus. Etiopathogenesis, clinical picture, principles of diagnosis and treatment
38. Hypopituitarism. Etiopathogenesis, clinical picture, principles of diagnosis and treatment
39. Growth deficiency. Etiopathogenesis of diseases of the anterior pituitary gland.
40. Etiopathogenesis of obesity, classification, obesity as a risk factor for other diseases.
42. Clinical manifestations of obesity.
43. Prevention and treatment of obesity.

1.5 Educational-methodical and informational support of the discipline - recommended textbooks, teaching aids and Internet resources:

a) main literature:

1. Anthony S. Fauci, Braunwald, Kasper, Longo, Jameson, Loscalzo Harrison's Principles of Internal Medicine, 17th Edition 2012



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2. Stuart Ralston, Ian Penman, Mark Strachan, Richard Hobson Davidsons Principles & Practice Of Medicine, 23th Edition 2018

3. Aled Rees, Miles Levy, Andrew Lansdown / Endocrinology and Diabetes at a Glance, 2017

4. Shlomo Melmed, MD / Williams textbook of endocrinology, 12th edition 2011

5. Jay S. Skyler, MD / Atlas of Diabetes, Fourth Edition 2012

b) additional literature:

1. Stephen J. Mcphee, "Current Medical Diagnosis & Treatment". 2009

2. Elsevier "Clinical Examination.A Systematic Guide To Physical Diagnosis" Australia. 2014

3. "Physical examination and history taking" Barbara Bates 2005

4. "The human body in health and disease" Ruth L. Memmler, Barbara Janson Cohen 2001

5. ABM Abdullah, MN Alam MRCP, "Long Cases in Clinical Medicine" First Edition :. 2013

6. RAlagappan. Chennai, Tamil Nadu Manual of Practical Medicine "Fourth Edition. India.

c) software and Internet resources:

On-line paperless journal of general medicine

International Diabetes Federation: IDF.org

<http://atrium.cor.neva.ru/bomj/index.html>

Clinical pharmacology and therapy

<http://www.clinpharma.com/magazine/cf-menu.htm>

Clinical endoscopy

<http://www.endo.ru>

Medical journals on MEDI.RU

<http://www.medi.ru/doc/0000.htm>

Russian medical journal

<http://www.rmj.net>

Pharmateca

<http://www.pharmateca.ru>

Pharmaceutical Bulletin

http://fv.bionika.ru/index_fv.htm

Pharmaceutical Bulletin

<http://www.fb.ru>

Consilium Medicum

<http://www.consilium-medicum.com>

JAMA Journal of the American Medical Association

<http://www.ama-assn.org/public/journals/jama/jamahome.htm>

<http://www.ama-assn.org/public/journals/archives.htm>



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The lancet

<http://www.thelancet.com>

New England Journal of Medicine

<http://www.nejm.org>

On-line journals of the American Medical Association

<http://acponline.org/index.html>

A series of international medical On-line journals for physicians of various specialties

<http://www.priory.com/pme.htm>

<http://www.priory.co.uk/med.htm>

Endocrinology Reviews and Commentaries

<http://journals.endocrinology.org/RevArtCom.htm>

St. Francis Journal of Medicine - Full-text journal of general medical profile

<http://journal.ned.edu>

The online Journal of Cardiology

<http://www.hrt.org>

British Medical Journal

<http://www.bmj.com>