# Postgraduate Track Program: Clinical Medicine and Public Health

# 1. Olympiad Winner's Skill Set

To win the Olympiad, you should have a firm grasp of medical concepts and techniques, namely:

- basics of normal and pathological human anatomy;
- basics of normal and pathological human physiology;
- basics of etiology, pathogenesis, risk factors, clinical manifestations, principles of diagnostics of human diseases, and methods for their pharmaceutical and surgical treatment;
- basics of evidence-based medicine and organization of scientific research in medicine; analysis of findings; oral and written presentation of the data obtained;
- public health criteria; calculation and analysis of these criteria;
- features of infectious disease epidemiology; measures for infectious diseases prevention and control;
- approaches to health promotion; development of preventive measure programs.

# 2. List of Eligible Degree Programs

**2.1.** List of Master's Programs 32.04.01 Public Health

### 2.2. List of Doctoral Programs

- 3.3.1 Anatomy and Anthropology
- 3.3.3 Pathological Physiology
- 3.3.2 Pathological Anatomy
- 3.3.6 Pharmacology, Clinical Pharmacology
- 1.5.5 Human and Animal Physiology
- 3.1.30 Gastroenterology and Dietetics
- 3.1.28 Hematology and Blood Transfusion
- 3.1.29 Pulmonology
- 3.1.20 Cardiology
- 3.1.2 Maxillofacial Surgery
- 3.1.7 Dentistry
- 3.1.18 Internal Medicine
- 3.1.32 Nephrology
- 3.1.9 Surgery
- 3.1.19 Endocrinology
- 3.1.22 Infectious Diseases
- 3.2.2 Epidemiology

3.2.3 Public Health, Organization, and Sociology of Healthcare; Medical and Social Expertise

# **ONE CLICK TO OPEN ALL DOORS**

# 3. Program Content

### **Anatomy and Morphology**

- 1. Basics of cell and tissue structure
- 2. Anatomy of the human body's major systems

### Physiology

- 1. Cell physiology
- 2. Physiology of excitable tissues
- 3. Characteristics of body function regulation
- 4. General principles of the physiology of the body's major systems

#### Pathology

1. Fundamentals of general pathology: typical pathological changes and processes. Basic patterns in the development of pathological processes and conditions. Morphological changes in organs and tissues in pathological processes.

2. Fundamentals of clinical pathology: typical forms of pathology affecting tissues, organs, and organ systems.

### Pharmacology

- 1. General pharmacology.
- 2. Drugs primarily impacting on the afferent part of the peripheral system.
- 3. Agents affecting efferent innervation.
- 4. Drugs influencing the central nervous system.
- 5. Drugs affecting the function of executive bodies and systems.
- 6. Drugs inhibiting inflammation and regulating immune processes.
- 7. Antimicrobial, antifungal, antiviral, antiparasitic, and antitumor agents.

#### **General Medicine and Medical Care**

1. Arterial hypertension. Classification. Clinical features. Diagnostics. Treatment.

2. Coronary heart disease. Etiology. Pathogenesis. Risk factors. Classification. Clinical manifestations. Diagnostics. Treatment.

3. Type 2 diabetes mellitus. Clinical manifestations, diagnostics. Groups of oral hypoglycemic drugs. Features of application.

- 4. Anemia. Differential diagnosis.
- 5. Pneumonia. Classification. Clinical manifestations. Diagnostics. Treatment.

6. Chronic obstructive pulmonary disease. Etiology. Clinical manifestations. Diagnostics. Treatment.

7. Acid-related diseases of the gastrointestinal tract. Classification. Clinical manifestations. Diagnostics. Treatment.

8. Inflammatory bowel diseases. Classification. Clinical manifestations. Diagnostics. Treatment.

9. Chronic hepatitis. Classification. Etiology. Diagnostics. Treatment. Complications.

10. Liver cirrhosis. Etiology. Classification. Clinical manifestations. Diagnostics. Principles of treatment. Complications.

11. Chronic kidney disease. Stages. Clinical manifestations. Diagnostics. Treatment.

#### Surgery

1. Procedure for examining a patient with abdominal pain. Differential diagnosis of abdominal pain. Acute diseases of abdominal cavity organs (appendicitis, cholecystitis, pancreatitis, complications of peptic ulcer disease, acute intestinal obstruction) and peritonitis. Diagnostic algorithm and treatment strategy in acute abdominal syndrome.

2. Structure of the anterior abdominal wall. Hernias of the anterior abdominal wall. Classification. Principles of surgical treatment.

3. Minimally invasive and robot-assisted operations in surgery. Organization of the operating room for video-endoscopic operations. Features of surgical access and manipulation in minimally invasive procedures. Laparoscopic cholecystectomy and appendectomy.

4. Principles of surgical repair of tissues. Surgical accesses and sutures. Vascular suture. Implantable medical items (stents, homo- and allografts, prostheses, implants). Methods for tissue fixation in surgery.

5. Perioperative medicine (asepsis and antisepsis, prevention and treatment of surgical infections, thromboembolic complications in surgical patients, fluid therapy and principles of nutritional support). Fundamentals of evidence-based medicine in surgery. Patient safety in surgery.

#### **Dentistry and Oral Surgery**

1. Therapeutic dentistry: classification, diagnosis, and treatment of hard tooth tissues diseases, pulpal and periapical pathology, periodontal and oral mucosa diseases.

2. Oral surgery: etiology, pathogenesis, pathological anatomy, clinical picture, diagnosis, treatment methods, routing of oral surgery patients.

#### **Infectious Diseases**

- 1. Morbidity: concept, causes, manifestations.
- 2. Classification of infectious diseases.
- 3. Epidemic process: definition, manifestations, components.
- 4. Sources of infections: concept, types of sources, classification of diseases by source.
- 5. Mechanisms and routes of transmission, transmission factors, and their interaction.
- 6. Susceptibility to infectious diseases, herd and individual immunity.

7. Immunoprophylaxis of infectious diseases: history and fundamentals of the method, types of immunobiological drugs, vaccination schedules.

#### **Public Health**

- 1. Public health and its determinants
- 2. Demography: subject matter, branches, rates, trends
- 3. Disability: definition, causes, trends, approaches to rehabilitation

4. Health research methods. Basics of statistics: organization of scientific research, types of statistical values, methods for evaluating the reliability of results and the relationships between values

- 5. Risk factors, classifications, methods for assessing risk factors
- 6. Prevention: types, goals, objectives, prevention effectiveness criteria
- 7. Prevention strategies: population strategy, high risk strategy, individual strategies

## 4. Recommended References

#### 4.1. Reading List

#### Anatomy and Morphology

Sources in English	Tonio
Sources in English	Торіс
1. Essentials of anatomy and	1. Basics of cell and tissue structure
physiology/Valerie C. Scanlon, Tina Sanders.	2. Anatomy of the human body's major
— 5th ed. A. David Company. 2007. 622 p.	systems
https://repository.poltekkes-	
kaltim.ac.id/1144/1/Essentials%20of%20Ana	
tomy%20and%20Physiology%20(%20PDFD	
rive%20).pdf (free access).	
2. Sapin M.R., Kolesnikov. L.L., Nikitjuk	1. Basics of cell and tissue structure
D.B. Textbook of human anatomy: For	2. Anatomy of the human body's major
medical students. In 2 volumes. Vol. 1/ Ed. by	systems
M.R. Sapin Second Ed. Moscow: New	
Wave Publishing Agency, 2019. 416 p.	
https://archive.org/details/006240629/page/5/	
mode/2up (free access).	
3. Tortora Gerard J. Principles of Anatomy	1. Basics of cell and tissue structure
and Physiology. 13th Edition. Wiley, 2012.	2. Anatomy of the human body's major
1536 p.	systems
https://archive.org/details/principlesofanat000	
0tort_d4c9 (partial access).	

Sources in Russian	Торіс
1. Анатомия человека [Электронный	1. Basics of cell and tissue structure
ресурс]: учебник / Сапин М.Р М.:	2. Anatomy of the human body's major
ГЭОТАР-Медиа, 2020. Т. 1.	systems
https://jasulib.org.kg/wp-	
content/uploads/2022/04/2Сапин-М.Р	
Анатомия-человека-т1pdf (free access).	
2. Анатомия и физиология человека: атлас	1. Basics of cell and tissue structure
/ Д. Б. Никитюк, С. В. Клочкова, Н. Т.	2. Anatomy of the human body's major
Алексеева; под ред. Д. Б. Никитюка	systems

Москва: ГЭОТАР-Медиа, 2023. 368 с.	
https://www.rosmedlib.ru/book/ISBN978597	
<u>0480793.html</u> (partial access).	
3. Большой атлас анатомии человека / пер.	1. Anatomy of the human body's major
с англ. Ю. В. Букановой. Москва: Астрель,	systems
Кладезь, 2013. 192 с.	
<u>https://msrabota.ru/content/book_docs/Винсе</u>	
<u>нт%20Перез%20-</u>	
<u>%20Большой%20атлас%20анатомии%20че</u>	
<u>ловекаpdf</u> (free access).	
4. Сапин, М. Р. Анатомия человека. В 2	Anatomy of the human body's major systems
томах. Т. II: учебник / Под ред. М. Р.	
Сапина - Москва: ГЭОТАР-Медиа, 2013	
456 c.	
https://www.rosmedlib.ru/ru/book/ISBN9785	
970425954.html (ограниченный доступ).	

### Physiology

1 Ilysiology	
Sources in English	Торіс
1.Costanzo L. S. Physiology. 6th Edition.	1. Cell physiology
Elsevier, 2018. 516 p.	2. Physiology of excitable tissues
https://archive.org/details/CostanzoPhysiology	3. Characteristics of body function regulation
6thEditionC2018Txtbk (free access).	4. General principles of the physiology of the
	body's major systems
2. Guyton and Hall textbook of medical	1. Cell physiology
physiology / John Hall 12th ed. Elsevier	2. Physiology of excitable tissues
Science. 2010. 1091 p.	3. Characteristics of body function regulation
https://repository.poltekkes-	4. General principles of the physiology of the
kaltim.ac.id/1147/1/Guyton%20and%20Hall%	body's major systems
20Textbook%20of%20Medical%20Physiology	
<u>%20(%20PDFDrive%20).pdf</u> (free access).	
3. Normal physiology : textbook / ed. K.	1. Cell physiology
V. Sudakov. Moscow: GEOTAR-Media. 2022.	2. Physiology of excitable tissues
728 p.	3. Characteristics of body function regulation
https://www.geotar.ru/lots/NF0023345.html	4. General principles of the physiology of the
(partial access).	body's major systems

Sources in Russian	Торіс
1. Лапкин М. М. Избранные лекции по	1.Cell physiology
нормальной физиологии. Москва: ГЭОТАР-	2. Physiology of excitable tissues
Медиа, 2019.544 с.	3. Characteristics of body function regulation
https://www.studentlibrary.ru/en/book/ISBN97	4. General principles of the physiology of the
85970446782.html (partial access).	body's major systems

2. Ноздрачёв А. Д. Нормальная физиология	1. Cell physiology
Москва: ГЭОТАР-Медиа, 2019. 1088 с.	2. Physiology of excitable tissues
https://www.studentlibrary.ru/ru/book/ISBN97	3. Characteristics of body function regulation
85970445938.html (partial access).	4. General principles of the physiology of the
	body's major systems
3. Нормальная физиология: Учебник / Н.А.	1. Cell physiology
Агаджанян, В.М. Смирнов. — 3-е изд., испр.	2. Physiology of excitable tissues
и доп. М.: ООО «Издательство	3. Characteristics of body function regulation
«Медицинское информационное агентство».	4. General principles of the physiology of the
2012. 576 c. <u>https://e-</u>	body's major systems
library.sammu.uz/uploads/books/Rus%20tilida	
gi%20adabiyotlar/Физиология/Н_А_Агаджан	
<u>ян_Нормальная_физиология.pdf</u> (free	
access).	

### Pathology

Sources in English	Торіс
1.Harsh Mohan. Textbook of pathology. Jaypee Brothers Medical Pub; 6th edition. 933 pages <u>https://drive.google.com/file/d/1jhA1AqpsOlR</u> <u>7NE5MyWvd6nPyVIL7CMkK/view</u> (free access).	<ol> <li>Fundamentals of general pathology: typical pathological changes and processes. Basic patterns of development of pathological processes and conditions. Morphological changes in organs and tissues in pathological processes.</li> <li>Fundamentals of clinical pathology: typical forms of the pathology of tissues, organs, and systems of organs</li> </ol>
2.Pathological anatomy edited by V.S. Paukov M.: GEOTAR-Media; 2022;752 <u>https://www.geotar.ru/lots/NF0023226.html</u> (partial access).	<ol> <li>Fundamentals of general pathology: typical pathological changes and processes. Basic patterns of development of pathological processes and conditions. Morphological changes in organs and tissues in pathological processes.</li> <li>Fundamentals of clinical pathology: typical forms of the pathology of tissues, organs, and systems of organs</li> </ol>
3. Saltykov A.B., Khitrov A.N., Grachev S.V. et al. Pathology: Textbook. MIA, 2020. 304 p. https://medkniga.ru/knigi/37138#gallery (partial access).	<ol> <li>Fundamentals of general pathology: typical pathological changes and processes. Basic patterns of development of pathological processes and conditions. Morphological changes in organs and tissues in pathological processes.</li> <li>Fundamentals of clinical pathology: typical forms of the pathology of tissues, organs, and systems of organs</li> </ol>

Sources in Russian	Торіс
1. Ремизов И.В. Основы патологии:	1. Fundamentals of general pathology: typical
учебник. М.: КНОРУС, 2016. 240 с.	pathological changes and processes. Basic
https://jasulib.org.kg/wp-	patterns of development of pathological
content/uploads/2023/01/8И.ВРемизов-	processes and conditions. Morphological
В.АДорошенкоОСНОВЫ-	changes in organs and tissues in pathological
ПАТОЛОГИИ.pdf (free access).	processes.
	2. Fundamentals of clinical pathology: typical
	forms of the pathology of tissues, organs, and
	systems of organs
2. Патологическая анатомия: учебник: в 2 т.	1. Fundamentals of general pathology: typical
/ под ред. В. С. Паукова. 3-е изд., перераб.	pathological changes and processes. Basic
Москва: ГЭОТАР-Медиа, 2022. Т. 1. Общая	patterns of development of pathological
патология. 752 с.	processes and conditions. Morphological
https://www.rosmedlib.ru/book/ISBN9785970	changes in organs and tissues in pathological
470954.html?ysclid=lx4saltmub152171075	processes.
(partial access).	2. Fundamentals of clinical pathology: typical
	forms of the pathology of tissues, organs, and
	systems of organs.
3. Патологическая анатомия: в 2 т. Т. 2.	Fundamentals of clinical pathology: typical
Частная патология: учебник / под ред. В. С.	forms of the pathology of tissues, organs, and
Паукова. 3-е изд., перераб. Москва:	systems of organs
ГЭОТАР-Медиа/ 2022. 544	
c. <u>https://www.rosmedlib.ru/book/ISBN97859</u>	
70470961.html?ysclid=lx4se2h5vm776011644	
(partial access).	
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### Pharmacology

Sources in English	Торіс
1. Alyautdin, R. N. Pharmacology. Illustrated	1. General pharmacology.
textbook / ed. R. N. Alyautdin. Moscow:	2. Drugs primarily impacting on the afferent
GEOTAR-Media, 2020. 312 p.	part of the peripheral system.
https://www.studentlibrary.ru/ru/book/ISBN97	3. Agents affecting efferent innervation.
85970456651.html (partial access).	4. Drugs influencing the central nervous
	system.
	5. Drugs affecting the function of executive
	bodies and systems.
	6. Drugs inhibiting inflammation and
	regulating immune processes.
	7. Antimicrobial, antifungal, antiviral,
	antiparasitic, and antitumor agents.

2. Janet Stringer. Basic Concepts in	1. General pharmacology.
Pharmacology: What you Need to Know for	2. Drugs primarily impacting on the afferent
Each Drug Class: 4th (fourth) Edition.	part of the peripheral system.
McGraw-Hill Companies. 2011.254 p.	3. Agents affecting efferent innervation.
http://repo.upertis.ac.id/1876/1/Basic%20Conc	4. Drugs influencing the central nervous
epts%20In%20Pharmacology.pdf (free access).	system.
	5. Drugs affecting the function of executive
	bodies and systems.
	6. Drugs inhibiting inflammation and
	regulating immune processes.
	7. Antimicrobial, antifungal, antiviral,
	antiparasitic, and antitumor agents.
3. Kharkevitch, D. A. Pharmacology: textbook /	1. General pharmacology.
D. A. Kharkevitch Translation of Russian	2. Drugs primarily impacting on the afferent
textbook, 12th edition, revised and improved	part of the peripheral system.
Moscow : GEOTAR-Media, 2023 2nd	3. Agents affecting efferent innervation.
edition. 680 p.	4. Drugs influencing the central nervous
https://www.rosmedlib.ru/book/ISBN9785970	system.
470886.html (partial access).	5. Drugs affecting the function of executive
	bodies and systems.
	6. Drugs inhibiting inflammation and
	regulating immune processes.
	7. Antimicrobial, antifungal, antiviral,
	antiparasitic, and antitumor agents.
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Sources in Russian	Торіс
1. Аляутдин Р.Н., Преферанский Н.Г.,	1. General pharmacology.
Преферанская Н.Г. Фармакология. М.:	2. Drugs primarily impacting on the afferent
ГЭОТАРМедиа, 2020. 441 с.	part of the peripheral system.
http://mkmeridian.kz/f/alyautdin_2020_farma.	3. Agents affecting efferent innervation.
pdf (free access).	4. Drugs influencing the central nervous system.
	5. Drugs affecting the function of executive
	bodies and systems.
	6. Drugs inhibiting inflammation and
	regulating immune processes.
	7. Antimicrobial, antifungal, antiviral,
	antiparasitic, and antitumor agents.
2. Основы фармакологии [Электронный	1. General pharmacology.
ресурс]: учебник / Д.А. Харкевич 2-е изд.,	2. Drugs primarily impacting on the afferent
испр. и доп. М.: ГЭОТАР-Медиа, 2015.	part of the peripheral system.
https://e-	3. Agents affecting efferent innervation.
library.sammu.uz/uploads/books/Rus%20tilida	4. Drugs influencing the central nervous
gi%20adabiyotlar/%D0%A4%D0%B0%D1%8	system.

<u>0%D0%BC%D0%B0%D0%BA%D0%BE%D</u>	5. Drugs affecting the function of executive
<u>0%BB%D0%BE%D0%B3%D0%B8%D1%8F</u>	bodies and systems.
<u>/%D0%9E%D1%81%D0%BD%D0%BE%D0</u>	6. Drugs inhibiting inflammation and
$\underline{\%B2\%D1\%88}\underline{\%D1\%84\%D0\%B0\%D1\%80}$	regulating immune processes.
<u>%D0%BC%D0%B0%D0%BA%D0%BE%D0</u>	7. Antimicrobial, antifungal, antiviral,
<u>%BB%D0%BE%D0%B3%D0%B8%D0%B8</u> _	antiparasitic, and antitumor agents.
<u>%D0%94_%D0%90_%D0%A5%D0%B0%D1</u>	
<u>%80%D0%BA%D0%B5%D0%B2%D0%B8</u>	
<u>%D1%87_2015.pdf</u> (free access).	
3.Фармакология: учебник / под ред. А. А.	1. General pharmacology.
Свистунова, В. В. Тарасова. — 4-е изд.,	2. Drugs primarily impacting on the afferent
электрон. — М.: Лаборатория знаний. 2021.	part of the peripheral system.
771 с.	3. Agents affecting efferent innervation.
https://profmedsestra.ru/f/farmakologiya.pdf	4. Drugs influencing the central nervous
(free access).	system.
	5. Drugs affecting the function of executive
	bodies and systems.
	6. Drugs inhibiting inflammation and
	regulating immune processes.
	7. Antimicrobial, antifungal, antiviral,
	antiparasitic, and antitumor agents.
	<b>_</b>

### **General Medicine and Medical Care**

Название источника на английском	Соответствующая тема		
языке			
1. Goldman L., Schafer A. Goldman-Cecil	1. Arterial hypertension. Classification.		
Medicine, 2-Volume Set. 26th Edition.	Clinical features. Diagnostics. Treatment.		
Elsevier, 2019. 2944 p.	2. Type 2 diabetes mellitus. Clinical		
https://www.elsevier.com/books/goldman-	manifestations, diagnostics. Groups of oral		
cecil-medicine-2-volume-set/goldman/978-0-	hypoglycemic drugs. Features of application.		
<u>323-53266-2</u> (partial access).	3. Anemia. Differential diagnosis.		
	4. Pneumonia. Classification. Clinical		
	manifestations. Diagnostics. Treatment.		
	5. Chronic obstructive pulmonary disease.		
	Etiology. Clinical manifestations. Diagnostics.		
	Treatment.		
	6. Inflammatory bowel diseases.		
	Classification. Clinical manifestations.		
	Diagnostics. Treatment.		
	7. Chronic hepatitis. Classification.		
	Etiology. Diagnostics. Treatment.		
	Complications.		
	8. Liver cirrhosis. Etiology.		
	Classification. Clinical manifestations.		

## **ONE CLICK TO OPEN ALL DOORS**

	Diagnostics. Principles of treatment.
	Complications.
	9. Chronic kidney disease. Stages.
	Clinical manifestations. Diagnostics. Treatment.
2. Hui D., Leung A. A., Ma C. Approach to	1. Arterial hypertension. Classification.
Internal Medicine	Clinical features. Diagnostics. Treatment.
A Resource Book for Clinical Practice	2. Coronary heart disease. Etiology.
Springer Cham, 2022. 540 p.	Pathogenesis. Risk factors. Classification.
https://link.springer.com/book/10.1007/978-3-	Clinical manifestations. Diagnostics. Treatment.
030-72980-6#about-book-content	3. Type 2 diabetes mellitus. Clinical
(partial access).	manifestations, diagnostics. Groups of oral
	hypoglycemic drugs. Features of application.
	4. Anemia. Differential diagnosis.
	5. Pneumonia. Classification. Clinical
	manifestations. Diagnostics. Treatment.
	6. Chronic obstructive pulmonary disease.
	Etiology. Clinical manifestations. Diagnostics.
	Treatment.
	7. Acid-related diseases of the
	gastrointestinal tract. Classification. Clinical
	manifestations. Diagnostics. Treatment.
	8. Inflammatory bowel diseases.
	Classification. Clinical manifestations.
	Diagnostics. Treatment.
	9. Chronic hepatitis. Classification.
	Etiology. Diagnostics. Treatment.
	Complications.
	10. Liver cirrhosis. Etiology.
	Classification. Clinical manifestations.
	Diagnostics. Principles of treatment.
	Complications.
	11. Chronic kidney disease. Stages.
	Clinical manifestations. Diagnostics. Treatment.
3.Jarrah A. Al-T. Internal Medicine An	1. Arterial hypertension. Classification.
Illustrated Radiological Guide Second Edition.	Clinical features. Diagnostics. Treatment.
Springer International Publishing Switzerland,	2. Coronary heart disease. Etiology.
2017, 597 p.	Pathogenesis. Risk factors. Classification.
https://link.springer.com/content/pdf/10.1007/9	Clinical manifestations. Diagnostics. Treatment.
78-3-319-39747-4.pdf (partial access).	3. Type 2 diabetes mellitus. Clinical
	manifestations, diagnostics. Groups of oral
	hypoglycemic drugs. Features of application.
	<ol> <li>Anemia. Differential diagnosis.</li> </ol>
	<ol> <li>Anenna: Differential diagnosis.</li> <li>Pneumonia. Classification. Clinical</li> </ol>
	manifestations. Diagnostics. Treatment.

	6. Chronic obstructive pulmonary disease.
	Etiology. Clinical manifestations. Diagnostics.
	Treatment.
	7. Acid-related diseases of the gastrointestinal
	tract. Classification. Clinical manifestations.
	Diagnostics. Treatment.
	8. Inflammatory bowel diseases.
	Classification. Clinical manifestations.
	Diagnostics. Treatment.
	9. Liver cirrhosis. Etiology. Classification.
	Clinical manifestations. Diagnostics. Principles
	of treatment. Complications.
	10. Chronic kidney disease. Stages. Clinical
	manifestations. Diagnostics. Treatment.
4. Kasper D., Fauci A., Hauser S, Longo	1. Arterial hypertension. Classification.
D., Jameson J., Loscalzo J. Harrison's	Clinical features. Diagnostics. Treatment.
Principles of Internal Medicine. 19th ed. New	2. Coronary heart disease. Etiology.
York: McGraw Hill Education, 2016. 3984 p.	Pathogenesis. Risk factors. Classification.
https://archive.org/details/DennisL.KasperAnth	Clinical manifestations. Diagnostics.
onyS.FauciStephenHauserDanLongoJ.LarryJa	Treatment.
mesonJosephLoscalzoHar (free access).	3. Type 2 diabetes mellitus. Clinical
	manifestations, diagnostics. Groups of oral
	hypoglycemic drugs. Features of application.
	4. Anemia. Differential diagnosis.
	5. Pneumonia. Classification. Clinical
	manifestations. Diagnostics. Treatment.
	6. Chronic obstructive pulmonary disease.
	Etiology. Clinical manifestations. Diagnostics.
	Treatment.
	7. Acid-related diseases of the
	gastrointestinal tract. Classification. Clinical
	manifestations. Diagnostics. Treatment.
	8. Inflammatory bowel diseases.
	5
	Diagnostics. Treatment.
	9. Chronic hepatitis. Classification.
	Etiology. Diagnostics. Treatment.
	Complications.
	10. Liver cirrhosis. Etiology.
	Classification. Clinical manifestations.
	Diagnostics. Principles of treatment.
	Complications.

11.	Chronic	kidney	disease.	Stages.
Clinica	ıl mar	nifestations	s. Dia	gnostics.
Treatm	ient.			

Sources in Russian	Торіс
1. Ахмедов В.А. Диагноз при заболеваниях	1. Arterial hypertension. Classification.
внутренних органов. Формулировка,	Clinical features. Diagnostics. Treatment.
классификации. / под. ред. В. А. Ахмедова.	2. Coronary heart disease. Etiology.
М.: ГЭОТАР-Медиа, 2016. 256 с.	Pathogenesis. Risk factors. Classification.
https://www.rosmedlib.ru/book/ISBN9785970	Clinical manifestations. Diagnostics.
438725.html (partial access).	Treatment.
	3. Type 2 diabetes mellitus. Clinical
	manifestations, diagnostics. Groups of oral
	hypoglycemic drugs. Features of application.
	4. Anemia. Differential diagnosis.
	5. Pneumonia. Classification. Clinical
	manifestations. Diagnostics. Treatment.
	6. Chronic obstructive pulmonary disease.
	Etiology. Clinical manifestations. Diagnostics.
	Treatment.
	7. Acid-related diseases of the
	gastrointestinal tract. Classification. Clinical
	manifestations. Diagnostics. Treatment.
	8. Inflammatory bowel diseases.
	Classification. Clinical manifestations.
	Diagnostics. Treatment.
	9. Chronic hepatitis. Classification.
	Etiology. Diagnostics. Treatment.
	Complications. 10. Liver cirrhosis. Etiology.
	Classification. Clinical manifestations.
	Diagnostics. Principles of treatment.
	Complications.
	11. Chronic kidney disease. Stages.
	Clinical manifestations. Diagnostics.
	Treatment.
2. Дедов И.И. Эндокринология.	Type 2 diabetes mellitus. Clinical
Национальное руководство. Краткое	manifestations, diagnostics. Groups of oral
издание / под ред. И. И. Дедова, Г. А.	hypoglycemic drugs. Features of application.
Мельниченко 2-е изд., перераб. и доп.	
Москва: ГЭОТАР-Медиа, 2020. 832	
c. https://www.rosmedlib.ru/book/ISBN97859	
70455609.html (partial access).	

3.Ивашкин В.Т. Гастроэнтерология.	1. Acid-related diseases of the gastrointestinal
Национальное руководство / под ред. В. Т.	tract. Classification. Clinical manifestations.
Ивашкина, Т. Л. Лапиной – Москва:	Diagnostics. Treatment.
ГЭОТАР-Медиа, 2018. 464 с.	2. Inflammatory bowel diseases.
https://www.rosmedlib.ru/book/ISBN9785970	Classification. Clinical manifestations.
444061.html (partial access).	Diagnostics. Treatment.
	3. Chronic hepatitis. Classification. Etiology.
	Diagnostics. Treatment. Complications.
	4. Liver cirrhosis. Etiology. Classification.
	Clinical manifestations. Diagnostics. Principles
	of treatment. Complications.
4.Ройтберг Г.Е., Струтынский А.В.	1. Arterial hypertension. Classification.
Внутренние болезни. Сердечно-сосудистая	Clinical features. Diagnostics. Treatment.
система. МЕДпресс, 2021. 904с. <u>https://book-</u>	2. Coronary heart disease. Etiology.
med.ru/products/19212749 (partial access).	Pathogenesis. Risk factors. Classification.
	Clinical manifestations. Diagnostics. Treatment.
5. Рукавицын, О. А. Гематология / под ред.	Anemia. Differential diagnosis.
Рукавицына О. А. Москва: ГЭОТАР-Медиа,	
2024. 920	
c. https://www.geotar.ru/lots/NF0027848.html	
(partial access).	
6. Сахин В. Т. Анемия хронических	Anemia. Differential diagnosis.
заболеваний / под общ. ред. Крюкова Е. В. –	
Москва: ГЭОТАР-Медиа, 2020. 160 с.	
https://www.studentlibrary.ru/book/ISBN9785	
<u>970459232.html</u> (partial access).	
7. Чучалин А. Г. Пульмонология / под ред.	1.Pneumonia. Classification. Clinical
Чучалина А. Г. Москва: ГЭОТАР-Медиа,	manifestations. Diagnostics. Treatment.
2020. 768 c.	2. Chronic obstructive pulmonary disease.
https://www.rosmedlib.ru/book/ISBN9785970	Etiology. Clinical manifestations. Diagnostics.
453230.html (partial access).	Treatment.
8.Шилов Е. М. Нефрология. Клинические	Chronic kidney disease. Stages. Clinical
рекомендации / под ред. Е. М. Шилова, А. В.	manifestations. Diagnostics. Treatment.
Смирнова, Н. Л. Козловской. Москва:	
ГЭОТАР-Медиа, 2016. 816 с.	
https://www.rosmedlib.ru/book/ISBN9785970	
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### Surgery

Sources in English	Торіс
1. Bland K.I., Sarr M.G., Büchler M.W.,	1. Procedure for examining a patient with
Csendes A., Garden O.J. General principles of	abdominal pain. Differential diagnosis of
Surgery: Handbooks in General Surgery.	abdominal pain. Acute diseases of abdominal

0.11 100	· · · · · · · · · · · · · · · · · · ·
Springer, 2011. 198 p.	cavity organs (appendicitis, cholecystitis,
https://link.springer.com/book/9781849963800	pancreatitis, complications of peptic ulcer
(partial access).	disease, acute intestinal obstruction) and
	peritonitis. Diagnostic algorithm and treatment
	strategy in acute abdominal syndrome.
	2. Principles of surgical tissue repair. Surgical
	accesses and sutures. Vascular suture.
	Implantable medical items (stents, homo- and
	allografts, prostheses, implants). Methods for
	tissue fixation in surgery.
2. Brunicardi F. C., Andersen D. K., Billiar	1. Procedure for examining a patient with
T.R., Dunn D.L., Kao L. S., Hunter J.G.,	abdominal pain. Differential diagnosis of
Matthews J.B., Pollock R. E. Schwartz's	abdominal pain. Acute diseases of abdominal
Principles of Surgery, 11th edition. McGraw	cavity organs (appendicitis, cholecystitis,
Hill, 2019. 2224 p.	pancreatitis, complications of peptic ulcer
https://accessmedicine.mhmedical.com/book.as	disease, acute intestinal obstruction) and
px?bookID=2576#216202639 (partial access).	peritonitis. Diagnostic algorithm and treatment
	strategy in acute abdominal syndrome.
	2. Structure of the anterior abdominal wall.
	Hernias of the anterior abdominal wall.
	Classification. Principles of surgical treatment.
	3. Minimally invasive and robot-assisted
	operations in surgery. Organization of the
	operating room for video-endoscopic
	operations. Features of surgical access and
	manipulations in the performance of minimally
	invasive interventions. Laparoscopic
	cholecystectomy and appendectomy.
	4. Principles of surgical tissue repair. Surgical
	accesses and sutures. Vascular suture.
	Implantable medical items (stents, homo- and
	allografts, prostheses, implants). Methods for
	tissue fixation in surgery.
3. Evidence-Based Surgery. A Guide to	Perioperative medicine (asepsis and antisepsis,
Understanding and Interpreting the Surgical	prevention and treatment of surgical infections,
Literature. A. Thoma, S. Sprague, S.H.	thromboembolic complications in surgical
Voineskos, Ch.H. Goldsmith. Springer Cham.	patients, fluid therapy and principles of
2019. 360 p. <u>https://doi.org/10.1007/978-3-030-</u>	nutritional support). Fundamentals of evidence-
<u>05120-4 (partial access)</u> .	based medicine in surgery. Patient safety in surgery.
4. Gossage J., Modarai B., Sahai A., Worth R.	Procedure for examining a patient with
100 cases in surgery. 2nd edition. CRC Press,	abdominal pain. Differential diagnosis of
2017. 241 p.	abdominal pain. Acute diseases of abdominal
https://umfmed.wordpress.com/wp-	cavity organs (appendicitis, cholecystitis,
	and appendictus, choice jstitis,

content/uploads/2013/03/100-casessurgery.pdf	pancreatitis, complications of peptic ulcer
(free access).	disease, acute intestinal obstruction) and
	peritonitis. Diagnostic algorithm and treatment
	strategy in acute abdominal syndrome.
5. Kirk's Basic Surgical Techniques 8th edition	1. Minimally invasive and robot-assisted
by Fiona Myint. Paperback ISBN:	operations in surgery. Organization of the
97804431136739 7 8 - 0 - 4 4 3 - 1 1 3 6 7 -	operating room for video-endoscopic
3eBook ISBN: 9780443114434 2024 Elsevier	operations. Features of surgical access and
Limited https://shop.elsevier.com/books/kirks-	manipulations in the performance of minimally
basic-surgical-techniques/myint/978-0-443-	invasive interventions. Laparoscopic
<u>11367-3</u> (partial access).	cholecystectomy and appendectomy.
	2. Principles of surgical tissue repair. Surgical
	accesses and sutures. Vascular suture.
	Implantable medical items (stents, homo- and
	allografts, prostheses, implants). Methods for
	tissue fixation in surgery.

Sources in Russian	Торіс
1. Госсадж Дж. А., Модарай Б., Сахай А.,	Procedure for examining a patient with
Уорт Р. 100 клинических разборов.	abdominal pain. Differential diagnosis of
Хирургия /Пер. с англ. под ред.	abdominal pain. Acute diseases of abdominal
А.Ф.Черноусова, Т.В.Хоробрых. М.:	cavity organs (appendicitis, cholecystitis,
ГЭОТАР-Медиа, 2009. 282 с.	pancreatitis, complications of peptic ulcer
https://knigogid.ru/books/97556-100-	disease, acute intestinal obstruction) and
klinicheskih-razborov-hirurgiya (partial	peritonitis. Diagnostic algorithm and treatment
access).	strategy in acute abdominal syndrome.
2. Затевахин И.И., Пасечник И.Н., Лядов	Perioperative medicine (asepsis and antisepsis,
К.В. Программа ускоренного	prevention and treatment of surgical infections,
выздоровления хирургических больных.	thromboembolic complications in surgical
Fast track. М.: ГЭОТАР-Медиа, 2019. 208 с.	patients, fluid therapy and principles of
https://www.rosmedlib.ru/book/ISBN9785970	nutritional support). Fundamentals of evidence-
4 43484.html (partial access).	based medicine in surgery. Patient safety in
	surgery.
3. Мьинт Ф.Основы хирургической техники	1. Structure of the anterior abdominal wall.
по Кирку. – Перевод с англ. – М.:	Hernias of the anterior abdominal wall.
Издательство Панфилова, 2020. – 280 с.:	Classification. Principles of surgical treatment.
илл. https://panphilovs.wixsite.com/website-	2. Minimally invasive and robot-assisted
1/kirk-basic-surgical (partial access).	operations in surgery. Organization of the
	operating room for video-endoscopic
	operations. Features of surgical access and
	manipulations in the performance of minimally
	invasive interventions. Laparoscopic
	cholecystectomy and appendectomy.

	3. Principles of surgical tissue repair. Surgical
	accesses and sutures. Vascular suture.
	Implantable medical items (stents, homo- and
	allografts, prostheses, implants). Methods for
	tissue fixation in surgery.
4. Хирургия по Шварцу в 3-х томах. Под	1. Procedure for examining a patient with
ред. Ф.Ч. Бруникарди; Пер. с англ.; Под ред.	abdominal pain. Differential diagnosis of
А.Ш. Ревишвили, Ю.В. Белова, В.И.	abdominal pain. Acute diseases of abdominal
Белоконева. ГЭОТАР-Медиа, 2023 г. 784 с.	cavity organs (appendicitis, cholecystitis,
Серия · Доказательная медицина.	pancreatitis, complications of peptic ulcer
https://www.geotar.ru/lots/NF0027617.html	disease, acute intestinal obstruction) and
(partial access).	peritonitis. Diagnostic algorithm and treatment
	strategy in acute abdominal syndrome.
	2. Structure of the anterior abdominal
	wall. Hernias of the anterior abdominal wall.
	Classification. Principles of surgical treatment.
	3. Minimally invasive and robot-assisted
	operations in surgery. Organization of the
	operating room for video-endoscopic
	operations. Features of surgical access and
	manipulations in the performance of minimally
	invasive interventions. Laparoscopic
	cholecystectomy and appendectomy.
	4. Principles of surgical tissue repair.
	Surgical accesses and sutures. Vascular suture.
	Implantable medical items (stents, homo- and
	allografts, prostheses, implants). Methods for
	tissue fixation in surgery.
	5. Perioperative medicine (asepsis and
	antisepsis, prevention and treatment of surgical
	infections, thromboembolic complications in
	surgical patients, fluid therapy and principles of
	nutritional support). Fundamentals of evidence-
	based medicine in surgery. Patient safety in
	surgery.
	suigery.

## **Dentistry and Oral Surgery**

Sources in English		Торіс	
1.Rajendran A.,	Sivapathasundharam B.	Therapeutic dentistry: classification, diagnosis,	
Shafer's Textbook	of Oral Pathology, 6/e	and treatment of hard tooth tissues diseases,	
6th Edition.	Elsevier, 2009	pulpal and periapical pathology, periodontal and	
https://shop.elsevier.com/books/shafers-		oral mucosa diseases.	
textbook-of-oral-pathology-6-e/unknown/978-			
81-312-1570-8 (part	ial access).		

2.Tarasenko S. V. Oral Surgery: textbook / ed.	Oral surgery: etiology, pathogenesis,
by S. V. Tarasenko. Moscow: GEOTAR-	pathological anatomy, clinical picture,
Media, 2023 640	diagnosis, treatment methods and routing of oral
p. https://www.geotar.ru/lots/NF0023765.html.	surgery patients
(partial access).	
3.Therapeutic dentistry: textbook / O. O.	Therapeutic dentistry: classification, diagnosis,
Yanushevich, Yu. M. Maximovskiy, L. N. Maxi	and treatment of hard tooth tissues diseases,
movskaya, L. Yu. Orekhova. Moscow:	pulpal and periapical pathology, periodontal and
GEOTAR-Media, 2021. 672 p.	oral mucosa diseases.
https://www.geotar.ru/lots/NF0018080.html?ys	
clid=lxf43onsg0928541255 (partial access).	

Sources in Russian	Торіс
1. Болезни зубов и полости рта: учебник / И.	Therapeutic dentistry: classification, diagnosis,
М. Макеева, Т. С. Сохов, М. Я. Алимова [и	and treatment of hard tooth tissues diseases,
др.]. Москва : ГЭОТАР- Медиа, 2020. 256 с.	pulpal and periapical pathology, periodontal
https://www.geotar.ru/lots/NF0016807.html	and oral mucosa diseases.
(partial access).	
2. Боровский Е. В. Терапевтическая	Therapeutic dentistry: classification, diagnosis,
стоматология: Учебник для студентов	and treatment of hard tooth tissues diseases,
медицинских вузов / Под ред. Е. В.	pulpal and periapical pathology, periodontal
Боровского. М.: ООО «Медицинское	and oral mucosa diseases.
информационное агентство», 2011. 840 с.	
https://e-	
library.sammu.uz/uploads/books/O'zbek%20til	
idagi%20adabiyotlar/Стоматология/Е_В_Бор	
овский_Терапевтическая_стоматология_201	
1_829_cpdf (free access).	
3. Тарасенко, С. В. Хирургическая	Oral surgery: etiology, pathogenesis,
стоматология: учебник / под ред. С. В.	pathological anatomy, clinical picture,
Тарасенко. Москва: ГЭОТАР-Медиа, 2021.	diagnosis, treatment methods and routing of
672 с.	oral surgery patients.
https://www.geotar.ru/lots/NF0019821.html	
(partial access).	

## **Infectious Diseases**

Sources in English	Торіс
1.Bonita, Ruth, Beaglehole, Robert, Kjellström,	1. Morbidity: concept, causes, manifestations.
Tord and World Health	2. Epidemic process: definition,
Organization. (2006). Basic epidemiology, 2nd	manifestations, components. Basic epidemic
ed. World Health Organization.	process theories.
https://iris.who.int/handle/10665/43541 (free	
access)	

2.David D. Celentano, Moyses Szklo (2019)	1. Morbidity: concept, causes, manifestations.
Gordis Epidemiology	2. Classification of infectious diseases.
https://books.google.ru/books/about/Gordis_Epi	3. Epidemic process: definition,
demiology.html?id=QrJ4ugEACAAJandredir_es	manifestations, components. Basic epidemic
c=y (partial access)	process theories.
	4. Sources of infections: concept, types of
	sources, classification of diseases by source
3. Dicker, Richard C. et al. (2006). Principles of	1. Morbidity: concept, causes, manifestations.
epidemiology in public health practice; an	2. Classification of infectious diseases.
introduction to applied epidemiology and	3. Epidemic process: definition,
biostatistics. 3rd ed.	manifestations, components. Basic epidemic
https://stacks.cdc.gov/view/cdc/6914 (free	process theories.
access)	4. Sources of infections: concept, types of
	sources, classification of diseases by source
4.Kenrad E. Nelson, Carolyn Masters Williams	1. Mechanisms and routes of transmission,
(2014) Infectious Disease Epidemiology: Theory	transmission factors, and their interaction.
and Practice	2. Susceptibility to infectious diseases,
https://books.google.ru/books/about/Infectious_	population and individual immunity.
Disease_Epidemiology.html?id=tzHwMgEACA	3. Immunoprophylaxis of infectious diseases:
AJandredir_esc=y (partial access)	history and fundamentals of the method, types
	of immunobiological drugs, vaccination
	schedules.
5.Sharon E. Straus, Paul Glasziou, W. Scott	1. Morbidity: concept, causes, manifestations.
Richardson, R. Brian Haynes. (2018) Evidence-	2. Epidemic process: definition,
Based Medicine: How to Practice and Teach	manifestations, components. Basic epidemic
EBM.	process theories.
https://books.google.ru/books/about/Evidence_B	
ased_Medicine.html?id=BkRPDwAAQBAJandr	
edir_esc=y (partial access)	

Sources in Russian	Торіс
1.Бражников, А. Ю. Общая эпидемиология с	Epidemic process: definition, manifestations,
основами доказательной медицины:	components. Basic epidemic process theories.
руководство к практическим занятиям /	
Бражников А. Ю., Брико Н.И., Кирьянова Е.	
В., Миндлина А. Я., Покровский В. И.,	
Полибин Р. В., Торчинский Н. В., И. П.	
Палтышева. Москва: ГЭОТАР-Медиа, 2017.	
496 с.	
https://www.rosmedlib.ru/book/ISBN978597044	
2555.html (partial access)	
2.Эпидемиология: учебник: в 2 томах. Т. 1 / Н.	1. Morbidity: concept, causes, manifestations.
И. Брико, Л. П. Зуева, В. И. Покровский [и	2. Classification of infectious diseases.
др.]. Москва: ООО «Издательство	

«Медицинское информационное агентство»,	3. Epidemic process: definition,
2013. 832 c.	manifestations, components. Basic epidemic
https://medkniga.ru/knigi/760 (partial access)	process theories.
3.Эпидемиология: учебник / под ред. Н. И.	1. Sources of infections: concept, types of
Брико. Москва: ГЭОТАР-Медиа, 2023. 656 с.:	sources, classification of diseases by source.
ил.https://www.studentlibrary.ru/book/ISBN978	2. Mechanisms and routes of transmission,
5970472279.html (partial access)	transmission factors, and their interaction.
	3. Susceptibility to infectious diseases,
	population and individual immunity.
	4. Immunoprophylaxis of infectious diseases:
	history and fundamentals of the method, types
	of immunobiological drugs, vaccination
	schedules.

### **Public Health**

Sources in English	Торіс
1.Begun D.N., Borshchuk E.L., Begun T.V.	1. Demography: subject matter, branches,
Course book for practical training in the sphere	rates, trends
of public health and health care. Orenburg:	2. Health research methods. Basics of statistics:
OrSMU, 2018. 121	organization of scientific research, types of
p.https://www.orgma.ru/files/kafedry/kafedra-	statistical values, methods for evaluating the
obshzestvennogo-zdorovya-i-	reliability of results and the relationships
zdravoohraneniya-	between values
1/info_stud/new/FF2/Textbook.pdf (free	
access).	
2. Donev D., Pavlekovic G., Zaletel L. Health	Prevention: types, goals, objectives, prevention
promotion and disease prevention. Hans Jacobs	effectiveness criteria
Publishing Company, 2007. 807 p.	
https://www.researchgate.net/profile/Doncho-	
Donev/publication/37683756_Concepts_and_P	
rinciples_in_Health_Promotion/links/0fcfd509	
81298aa4d8000000/Concepts-and-Principles-	
in-Health-Promotion.pdf (free access).	
3. Gorbunov V. I., Vozzhennikova G. V., Isaeva	1. Public health and its determinants
I. N., Gorbunov M. V. cognitionealth and	2. Demography: subject matter, branches,
Healthcare: main ways of cognition: text book.	rates, trends
Ulyanovsk: UlSU, 2017. 182 p.	3. Disability: definition, causes, trends,
https://www.ulsu.ru/media/uploads/iriskor%40	approaches to rehabilitation
mail.ru/2017/10/27/Public%20health.pdf (free	
access).	
4. Mahajan B.K., Roy R. N., Saha I., Gupta	1. Risk factors, classifications, methods for risk
M.C. Mahajan and Gupta Textbook of	factor assessment
	2. Prevention: types, goals, objectives,
Brothers Medical Publishers, 2013. 732 p.	prevention effectiveness criteria

## **ONE CLICK TO OPEN ALL DOORS**

https://www.ruseducation.in/books/Mahajan4t	
h.pdf (free access).	
5.Outwater A.H., Leshabari S. C. International	1. Prevention: types, goals, objectives,
Encyclopedia of Public Health (Second	prevention effectiveness criteria
Edition). 2017, pp. 338-349.	2. Prevention strategies: population strategy,
https://www.researchgate.net/publication/3104	high risk strategy, individual strategies
53018_Disease_Prevention_An_Overview	
(free access).	
6.World Health Organization and World	Disability: definition, causes, trends, approaches
Bank. (2011). World report on disability	to rehabilitation
2011.350 p.	
https://apps.who.int/iris/handle/10665/44575	
(free access).	
7.World Health Organization. (2009). Global	Risk factors, classifications, methods for risk
health risks: mortality and burden of disease	factor assessment
attributable to selected major risks. World	
Health Organization. 70 p.	
https://apps.who.int/iris/handle/10665/44203	
(free access).	

Sources in Russian	Торіс
1. Глобальные факторы риска для здоровья.	Risk factors, classifications, methods for risk
Смертность и бремя болезней,	factor assessment
обусловленные некоторыми основными	
факторами риска. 70 с.	
https://apps.who.int/iris/bitstream/handle/1066	
5/44203/9789244563878_rus.pdf (free access).	
2.Медик В. А., Лисицин В. И. Общественное	1. Public health and its determinants
здоровье и здравоохранение. 4-е изд.,	2. Demography: subject matter, branches,
перераб. и доп. М.: ГЭОТАР-Медиа, 2017.	rates, trends
496 c. http://bono-	3. Disability: definition, causes, trends,
esse.ru/blizzard/Biblio/OZZ/Uchebniki/Medik	approaches to rehabilitation
_OZZ_uchebnik_2017.pdf (free access).	
3. Решетников В.А. Общественное здоровье	1. Public health and its determinants
населения Российской Федерации: Учебник	2. Demography: subject matter, branches,
/ Под ред. В.А.Решетникова. Москва: ООО	rates, trends
«Издательство «Медицинское	3. Disability: definition, causes, trends,
информационное агентство», 2022. 336 с.	approaches to rehabilitation
https://www.mmbook.ru/catalog/organizatsija-	4. Risk factors, classifications, methods for
zdrav/110474-detail (partial access).	risk factor assessment
	5. Prevention: types, goals, objectives,
	prevention effectiveness criteria

4. Решетников В.А. Организация	1. Risk factors, classifications, methods for risk
медицинской помощи в Российской	factor assessment
Федерации/ под ред. Решетникова В.А. М.:	2. Prevention: types, goals, objectives,
ООО «Издательство «Медицинское	prevention effectiveness criteria
информационное агентство», 2018. 432 с.	3. Prevention strategies: population strategy,
https://www.medlib.ru/library/library/books/21	high risk strategy, individual strategies
726 (partial access).	
5. Решетников В.А. Основы статистического	Health research methods. Basics of statistics:
анализа в медицине/ под ред. Решетникова	organization of scientific research, types of
В.А. М.: ООО «Издательство «Медицинское	statistical values, methods for evaluating the
информационное агентство», 2019. 176 с.	reliability of results and the relationships
https://www.mmbook.ru/catalog/organizatsija-	between values.
zdrav/109686-detail (partial access).	

## 4.2. Recommended Online Courses Anatomy and Morphology

Online courses	Link	Summary
in English		
Anatomy and	https://alison.com/c	This course covers the structure and functions of major
Physiology of the	ourse/anatomy-	human body systems, including cells, tissues, skin,
Human Body	and-physiology-of-	metabolism, and circulatory, respiratory, digestive,
	the-human-body	nervous, sensory, urinary, muscular, and reproductive
		systems. It also addresses common disorders or
		diseases related to each system.
Easy Anatomy	https://www.classc	The course provides information about anatomical
and Physiology	entral.com/course/	structures of the human body, understanding of
(Platinum	udemy-easy-	anatomical terminology and the physiology of human
Edition)	anatomy-and-	body systems.
	physiology-	
	platinum-editio-	
	41526	
Introduction to	https://sechenov.on	This course aims to teach students how to locate,
anatomy.	line/course/introdu	identify, and display the facial nerve, including its
Selected topics	ction-to-anatomy	origin from the brain and skull cavity, as well as its
		branches. Students will also learn to describe the
		nerve's anatomy, topography, and branching areas.
Understanding	https://www.classc	This course presents an essential guide to
the Human Body:	entral.com/course/t	understanding the anatomy and physiology of the main
An Introduction	he-great-courses-	systems and organs of the human body.
to Anatomy and	plus-	
Physiology, 2nd	understanding-the-	
Edition	human-body-an-	
	introduction-to-	

	anatomy-and-	
	physiology-2nd-	
	edition-52995	
Online courses	Link	Summary
in Russian		Summary
Анатомия	https://onling.pn/g	This course provides an understanding of the principles
	https://online.pnzg	
внутренних	u.ru/enrol/index.ph	of the body's structural and functional unity, its
органов	p?id=83	interaction with changing environmental conditions,
(Anatomy of		and the influence of environmental, genetic, and social
Internal Organs)		factors on the development and structure of the human body.
Наш богатый	https://stepik.org/c	This course provides fundamental knowledge in human
внутренний	ourse/194971/prom	anatomy, covering the musculoskeletal system, central
мир: об	o#toc	nervous system, cardiovascular system, respiratory
анатомии		system, genitourinary system, digestive system,
просто и		endocrine system, and sensory organs.
интересно (Our		
Rich Inner		
World: Anatomy		
Explained		
Simply and		
Engagingly)		
Per aspera:	https://medclass.ss	This course is devoted to the main sections of anatomy:
анатомия для	mu.ru/courses/916	Osteoarthrology, myology, neurology, angiology,
подготовки к	26/?ysclid=lz6u5td	splanchnology, endocrinology, esthesiology.
ЕГЭ и	zhh230532333	
олимпиадам		
(Per Aspera:		
Anatomy for		
Preparing for the		
Unified State		
Exam and		
Olympiads)		

# Physiology

Online courses	Link	Summary
in English		
Anatomy and	https://alison.com/c	The course covers the structure and functions of the
Physiology of the	ourse/anatomy-	major systems of the human body, including cells and
Human Body	and-physiology-of-	tissues, skin, metabolism, and the circulatory,
	the-human-body	respiratory, digestive, nervous, sensory, urinary,
		muscular, and reproductive systems. It also addresses

# **ONE CLICK TO OPEN ALL DOORS**

Easy Anatomy and Physiology (Platinum Edition)https://www.classc entral.com/course/ udemy-easy- anatomy-and- physiology- platinum-editio- 41526The course provides informat structures of the human understanding of anatomical physiology of human body systeIntroductory Human Physiologyhttps://www.classc entral.com/course/ humanphysio-380The course helps master the k physiology and homeostasis. It co of the nervous, endocrine, card and urinary systems, and also ex sensory organs, muscles, reproductive systems.Understanding the Human Body: An Introduction to Anatomy and Physiology, 2nd Editionhttps://www.classc entral.com/course/ humanphysio-380This course presents an understanding the anatomy and systems and organs of the human systems and organs of the human systems and organs of the human systems and organs of the human physiology-2nd- edition-52995Online courses in RussianLinkSummary foundational knowledge of the processes underlying organ regulation. This understanding course/spbu/INTR	tion about anatomical body, offering an terminology and the ems. ey concepts of human explores the physiology iovascular, respiratory, camines the roles of the gastrointestinal, and essential guide to
Easy Anatomy and Physiology (Platinumhttps://www.classc entral.com/course/ udemy-easy- anatomy-and- physiology- platinum-editio- 41526The course provides informat structures of the human understanding of anatomical physiology of human body systeIntroductory Humanhttps://www.classc entral.com/course/ humanphysio-380The course helps master the k physiology and homeostasis. It of of the nervous, endocrine, card and urinary systems, and also ex sensory organs, muscles, reproductive systems.Understanding the Human Body: An Introduction to Anatomy and Physiology, 2nd Editionhttps://www.classc entral.com/course/ humanphysio-380This course presents an understanding the anatomy and 	body, offering an terminology and the ems. ey concepts of human explores the physiology iovascular, respiratory, camines the roles of the gastrointestinal, and essential guide to
Humanentral.com/course/ humanphysio-380physiology and homeostasis. It effectsPhysiologyhumanphysio-380of the nervous, endocrine, card and urinary systems, and also ex- sensory organs, muscles, reproductive systems.Understanding the Human Body: An Introduction to Anatomy and Physiology, 2nd Editionhttps://www.classc entral.com/course/t he-great-courses- plus- understanding-the- human-body-an- introduction-to- anatomy-and- physiology-2nd- edition-52995This course presents an understanding the anatomy and systems and organs of the human- body-an- introduction-to- anatomy-and- physiology-2nd- 	explores the physiology iovascular, respiratory, camines the roles of the gastrointestinal, and essential guide to
Physiologyhumanphysio-380of the nervous, endocrine, card and urinary systems, and also er sensory organs, muscles, reproductive systems.Understanding the Human Body:https://www.classc entral.com/course/t he-great-courses- to Anatomy and plus- understanding-the- human-body-an- introduction-to- anatomy-and- 	iovascular, respiratory, aamines the roles of the gastrointestinal, and essential guide to
the Human Body: An Introduction to Anatomy and Physiology, 2nd Editionentral.com/course/t entral.com/courses- plus- understanding-the- human-body-an- introduction-to- 	e
in Russian	
Введение в физиологиюhttps://openedu.ru/ course/spbu/INTRThe primary goal of this of foundational knowledge of the processes underlying organ regulation. This understanding	
физиологию (Introduction to Physiology)course/spbu/INTR OP/foundational knowledge of the processes underlying organ regulation. This understanding	
(Introduction to Physiology)OP/processes underlying organ regulation. This understanding	course is to provide
Physiology) regulation. This understanding	
of individual organ functions processes vital for human life.	enables the integration into a single set of
Физиология https://stepik.org/c This course focuses on the physical and t	••••••
высшей нервной ourse/105574/prom executive functions, examining	ha maahaniana 1. 1. 1. 1
деятельности o?search=4719178 complex animal behavior and hu	
(Physiology of 496 covers methodologies for s	uman brain functions. It
Higher-Orderexecutive functions and explExecutiveacquired forms of behavior.	uman brain functions. It studying higher-order
Functions)	uman brain functions. It
Физиология https://openedu.ru/ The purpose of the course	uman brain functions. It studying higher-order
	aman brain functions. It studying higher-order ores both innate and
сердца и сто соизс/spou/тити understanding of the nearts pr дисфункции EART/?session=sp molecular, cellular, and organ le	iman brain functions. It studying higher-order ores both innate and e is to provide an
(Physiology of ring_2021	iman brain functions. It studying higher-order ores both innate and e is to provide an imary functions at the

the heart and its	the mechanisms of	regulation	and identify	the	main
dysfunctions)	dysfunctions of the h	heart.			

### Pathology

Online courses	Link	Summary
in English		
Brain Biomarkers for Assessment of Brain Damage	https://sechenov.on line/course/brain- biomarkers	The course provides an in-depth examination of innovative methodologies for the serological assessment of brain damage, focusing on various conditions, such as ischemic strokes, traumatic brain injuries (ranging from concussions to coma), and incomplete spinal cord injuries. Comprehensive research and clinical data are presented, highlighting the correlation between biomarker levels and clinical
Cell Injury and Cell Death	https://sechenov.oo nline/course/cell- injury-and-cell- death	outcomes. This MOOC provides an overview of the factors causing cell injury, including chemical, physical, and intrinsic factors. It covers various cell adaptations (both physiological and pathological) that occur in response to these injuries, as well as different types of cell death that may occur if the cell cannot adapt. This includes programmed and non-programmed types of cell death such as apoptosis, autophagy, and necrosis, along with their numerous subtypes. The course discusses these subtypes in detail, focusing particularly on the molecular mechanisms of apoptosis and autophagy.
General Pathophysiology	https://openedu.ru/ course/spbu/GENP ATHOPH/?session =spring_2023	This course covers the subject and methods of pathophysiology, including its role within biomedical sciences and its historical development. It addresses general nosology, which encompasses the concepts of health and disease, general etiology and pathogenesis, pathological processes and states, and the impact of causal factors, conditions, reactivity, and somatotype in pathology.
Pathology	https://www.classc entral.com/course/ biology-tsinghua- university- pathology-bing-li- xue-19573	The course introduces the causes and development of many diseases, ranging from tissue inflammation and cancer to cardiovascular diseases, which are increasing annually. It covers topics from cellular damage and repair to diseases affecting human organs and systems.
Online courses	Link	Summary
in Russian		

Патология и	https://openedu.ru/	The course is aimed at developing knowledge in
патологическая	course/spbu/GENP	students about pathological anatomy, the general
анатомия:	AT/?session=sprin	methodology of complex analysis of pathological
общие вопросы	g_2021	processes, the nature of human diseases, inflammatory
(Pathology and		processes, disorders of tissue and cellular growth.
Pathological		
Anatomy:		
General Issues)		
Общая	https://stepik.org/c	This course, devoted to the basics of pathophysiology,
патофизиология	ourse/102981/prom	includes three modules: introduction into
(часть 1)	0	pathophysiology, general nosology, and general
(General		etiology.
Pathophysiology:		
Part 1)		
Решение задач	https://sechenov.on	The course introduces the basics of etiology and
по патологии	line/course/resenie-	pathogenesis of typical pathological processes and
(Solving	zadac-po-obsej-	typical forms of pathology. It includes fundamental
Problems in	patologii	concepts of pathology as a basic science, illustrated
Pathology)		through case studies.
Типовые	https://openedu.ru/	This course covers the definitions of basic concepts,
патологические	course/rudn/RUDN	classification, descriptions of etiology, and
процессы	_22/	mechanisms of development and outcomes of typical
(Typical		pathological processes. It investigates cellular
pathological		pathology, disorders of regional blood flow,
processes)		inflammation, immunity, immunopathology, and
		allergies.

## Pharmacology

Online courses	Link	Summary
in English		
Introduction to	https://www.edx.or	This course explores the mechanisms of
Pharmacology	g/course/introducti	pharmaceutical drugs at the molecular level. It delves
	on-to-	into various drug classes and deciphers how they affect
	pharmacology?inde	systems within the human body. The course offers
	x=productandquery	detailed knowledge in pharmacokinetics, drug toxicity,
	ID=159059e498dd	therapeutics, and drug discovery.
	81d034d7dd8f79e1	
	d165andposition=1	
	0	
Introduction to	https://www.classc	The course provides information on categorizing drugs,
Pharmacology	entral.com/classroo	including their classes, names, and schedules. It covers
	m/youtube-	methods of drug administration, pharmacokinetics,
		pharmacodynamics, and the main groups of drugs.

	pharmacology- 80239	
Pharmacology of	https://stepik.org/c	The main objective of the course is to provide systemic
Antibacterial	ourse/123136/prom	knowledge on pharmacokinetic and pharmacodynamic
Agents	0	parameters of the main groups of antibacterial agents
		and offer an insight into their proper and safe use. It
		covers rational antibacterial use, pharmacodynamics,
		pharmacokinetics, indications, contraindications,
		adverse drug reactions of the main classes of natural
		antibiotic and synthetic agents, and parameters of their
		safety and use in specific populations of patients.
Online courses	Link	Summary
in Russian		
Основы	https://stepik.org/c	The course examines modern principles of antibiotic
клинического	ourse/6699/promo?	use in clinical practice. Special attention is paid to the
использования	search=471870080	problem of antibacterial resistance and ways to
антибиотиков	1	overcome it.
(Basics of		
Clinical Use of		
Antibiotics)		
Основы	https://stepik.org/c	The course focuses on the pharmacology of the main
фармакологии	ourse/174121/prom	groups of drugs.
(Fundamentals of	o?search=4714797	
Pharmacology)	885	
Фармакология	https://stepik.org/c	This course covers the issues of general pharmacology
общая и частная	ourse/185488/prom	- the concepts of pharmacokinetics, enzyme kinetics,
(General and	o?search=4714797	and pharmacodynamics, while also focusing on
Particular	881	particular pharmacology, namely the characteristics of
Pharmacology)		the main groups of drugs.

## General Medicine and Medical Care

Online courses	Link	Summary
in English		
Basic	https://sechenov.on	This course reviews key aspects of the anatomy and
symptomatology	line/course/pancrea	physiology of the pancreas and the complex regulation
of pancreatic	tic-diseases	of exocrine pancreatic secretion. It presents current
diseases		opinions on the etiology, pathogenesis, and
		classification of both acute and chronic pancreatitis.
		Clinical manifestations and diagnostic evaluation of
		acute and chronic pancreatitis are discussed in detail.

Chronic	https://www.ijhn-	The course provides evidence-based strategies for the
Obstructive	education.org/cont	
	e	assessment and management of COPD among older adults.
Pulmonary	ent/supplemental-	aduns.
Disease (COPD)	course-chronic-	
	obstructive-	
	pulmonary-disease-	
	copd-0#group-tabs-	
	node-course-	
	default1	
Chronic	https://www.my-	This course covers the diagnosis and management of
respiratory	mooc.com/en/moo	respiratory care/primary care in resource-constrained
diseases (CRD)	c/chronic-	countries.
in primary care	respiratory-	
settings	diseases-crd-in-	
	primary-care-	
	settings/	
Diabetes Mellitus	https://sechenov.on	This MOOC is devoted to an urgent and important
and Ischemic	line/course/diabete	problem of modern medicine—a combination of
Heart Disease—	s-mellitus-and-	ischemic heart disease and diabetes. The questions of
Important Issue	ischemic-heart-	epidemiology and pathogenetic mechanisms of the
in Modern	disease-important-	development of these diseases are considered. The
Medicine	issue-in-modern-	course covers diagnostic criteria and clinical features of
	medicine	coronary heart disease in patients with diabetes are
		highlighted. Attention is paid to major risk factors for
		the occurrence and progression of coronary heart
		disease, as well as the development of complications of
		coronary heart disease and diabetes. The course also
		explores the main aspects of managing and treating
		patients with diabetes and coronary heart disease
		discussed.
Distance Course	https://edu.kpfu.ru/	This course offers fundamental knowledge in patient
for Foreign	enrol/index.php?id	care and focuses on developing practical skills,
Students: The	=3666	including primary care skills and research techniques.
Practice of		
Obtaining		
Primary Practical		
Skills, Including		
Primary Skills		
and Skills of		
Research		
Activities:		
Patient Care		

	1	
General Physical	https://edu.kpfu.ru/	This course provides general knowledge in physical
Examination of	enrol/index.php?id	examination of the patient and offers an introduction to
the Patient—	=6493	internal diseases.
Introduction to		
Internal Diseases		
Global Health	https://alison.com/c	This online course of the Global Health Initiative is
Initiative:	ourse/global-	devoted to Chronic Obstructive Pulmonary Disease
Chronic	health-initiative-	(COPD). It covers the development, symptoms, types,
Obstructive	chronic-	and treatment of Chronic Obstructive Pulmonary
Pulmonary	obstructive-	Disease (COPD).
Disease	pulmonary-disease-	
Awareness	awareness-revised	
Introduction to	https://www.lecturi	This course introduces students to the medical field of
Hematology	o.com/medical-	hematology. It is divided into two parts: basic and
	courses/introductio	advanced. The course covers topics such as blood and
	n-	its formation, diseases of the blood system, and
	hematology.course	bleeding disorders therapy.
	#/	
Nutrition, Heart	https://www.edx.or	This course highlights the importance of nutrition and
Disease, and	g/course/nutrition-	lifestyle in the development and treatment of
Diabetes	heart-disease-and-	cardiovascular diseases and diabetes mellitus. It tracks
	diabetes	current research progress on diabetes, cardiovascular
		disease, and other cardiometabolic disorders. It also
		explores how these cardiometabolic diseases can be
		prevented in individuals and populations through
		lifestyle and dietary modifications.
Online courses	Link	Summary
in Russian		
Анемии в	https://sechenov.on	The course introduces the basic principles of
практике врача-	line/course/anemii-	diagnosing anemia. Modern diagnostic and therapeutic
терапевта (Ane	v-praktike-vraca-	approaches to iron deficiency anemia, anemia caused
mia as	terapevta	by cobalamin and folate deficiency, and anemia of
Encountered by		chronic diseases are discussed in detail. Diagnostic and
the General		therapeutic approaches to anemia occurring during
Practitioner)		pregnancy are discussed separately.
Артериальная	https://sechenov.on	This course covers the history of the study of arterial
гипертензия (Art	line/course/arterial	hypertension, explores the use of modern
erial	naa-gipertenzia	antihypertensive medications, and examines
Hypertension)		approaches to diagnosing and treating resistant arterial
		hypertension.
Пневмонии	https://sechenov.on	This course explores various types of pneumonia,
(Types of	line/course/pnevmo	including several nosological units. It covers current
Pneumonia)	nii	perspectives on diagnosing, treating, and managing
		patients with community-acquired pneumonia,

nosocomial	pneumonia,	and	ventilator-associated
pneumonia.			

## Surgery

Online courses	Link	Summary
in English		
Abdominal and	https://www.lecturi	Intra-abdominal and pelvic pathology encompasses a
Genitourinary	o.com/medical-	greater diversity of conditions than that associated with
Emergencies	courses/abdominal-	any other organ system. Common causes include
	and-genitourinary-	abdominal surgery, penetrating abdominal trauma,
	emergencies.course	appendicitis, pancreatitis, diverticulitis, perforated
	#/	viscus, biliary disease, and primary peritonitis.
		This course helps develop a systematic approach to
		identifying the cause of abdominal and/or
		genitourinary trauma and to develop a standardized approach to treatment.
Anatomy of the	https://learnsurgery	This course covers the clinical anatomy of the
Abdominal Wall	online.com/course/	abdominal wall, focusing on the anterolateral and
	anatomy-of-the-	posterior abdominal wall muscles, as well as abdominal
	abdominal-wall-	incisions.
	course/	
Basics of Surgery	https://sechenov.on	The first part of the course explores the surgical
	line/course/basic-	anatomy of the abdomen, offering an understanding of
	of-surgery	human anatomy from a surgeon's perspective. The
		second part addresses acute abdominal syndrome, a
		major syndrome in general surgery, to develop clinical
		thinking. The third part examines mechanical jaundice
		as a specific case of surgical pathology, demonstrating
		the clinical application of the knowledge acquired in the previous sections.
Basic	https://sechenov.on	This course reviews the key aspects of pancreas
	line/course/pancrea	anatomy and physiology, along with the complex
of pancreatic	tic-diseases	regulation of exocrine pancreatic secretion. It covers
diseases	the diseases	current opinions on the etiology, pathogenesis, and
		classification of both acute and chronic pancreatitis.
		Clinical manifestations and diagnostic evaluation of
		acute and chronic pancreatitis are also discussed.
Online courses	Link	Summary
in Russian		
Заболевания	https://sechenov.on	This course is devoted to liver diseases that are
печени	line/course/zabolev	challenging to diagnose at an early stage due to the
(хирургия)	ania-peceni-	absence of clinical manifestations. It covers cirrhotic
	hirurgia	transformation of the liver and portal hypertension in

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(Liver Diseases:		various diseases: acquired and congenital
Surgery)		transformation of the bile ducts and vascular structures,
		metabolic disorders resulting from thrombus formation
		in the portal and hepatic veins. The pathogenesis of
		liver cirrhosis and portal hypertension, modern
		diagnostic methods and modern treatment methods are
		described. The course covers cystic liver formations,
		including parasitic and non-parasitic liver cysts, as well
		as liver abscesses. The issues of early diagnosis and
		prevention of parasitic formations of the liver are
		covered, alongside clinical experience in treating
		patients with liver diseases using minimally invasive
		surgery under ultrasound and X-ray television control.
Частные	https://sechenov.on	This course introduces particular issues of herniology:
вопросы	line/course/herniol	various types of hernias of the anterior abdominal wall
герниологии	ogy	and diaphragm, as well as methods of their treatment,
(Particular Issues		from classical to modern.
of Herniology)		
Шовный	https://stepik.org/c	The course provides a range of didactic materials for
материал и узлы	ourse/95692/promo	learning the technique of surgical knotting and covers
в хирургии	?search=47185054	the theoretical foundations of suture materials.
(Suture Material	13	
and Knotting in		
Surgery)		

# Dentistry and Oral Surgery

Online courses	Link	Summary
in English		
Discover	https://www.classc	This course offers an understanding of tooth anatomy
Dentistry	entral.com/course/	and development, explores various treatments and
	discover-dentistry-	dental materials, and provides insights into the future
	1249	of dentistry.
Free Learning in	https://ohi-	The focus of the course is on TMJ anatomy, diagnosis
Functional	s.com/webinars-	of TMJ disorders and orofacial pain, as well as
Dentistry	courses/167549/	differential diagnosis of orofacial pain.
Introduction to	https://stepik.org/c	The course focuses on mastering professional
Dental Materials	ourse/54265/promo	terminology, theoretical foundations, and practical
Science		skills related to impression materials, gypsum products,
		and dental ceramics.
Online courses	Link	Summary
in Russian		

Гнойно-	https://sechenov.on	The course provides fundamental information on the
воспалительные	line/course/flegmo	etiology, pathogenesis, clinical manifestations,
заболевания	ny-abscessy-	diagnosis, differential diagnosis, and treatment
челюстно-	osteonekrozy	principles for common purulent-inflammatory diseases
лицевой	j	of the maxillofacial region that require inpatient care.
области:		
флегмоны,		
абсцессы,		
остеонекрозы		
(Purulent-		
inflammatory		
diseases of the		
maxillofacial		
region:		
phlegmons,		
abscesses,		
osteonecroses)	1	
Комплексный	https://sechenov.on	This course aims to enhance dentists' skills in using X-
подход в	line/course/komple	ray examination methods for diagnosing and
рентгенологичес	ksnyj-podhod	developing rehabilitation plans for orthodontic
кой диагностике		patients.
зубочелюстных		
аномалий		
(Comprehensive		
Approach to		
Radiological		
Diagnosis of		
Dental and		
Maxillofacial		
Anomalies)		
Морфология	https://online.pnzg	The course aims to provide knowledge about the
зубов (Dental	u.ru/enrol/index.ph	structure of the human dentofacial apparatus and its
Morphology)	p?id=92	constituent organs and tissues. It incorporates recent
		advances in macro- and microscopic anatomy,
		physiology, and biology. The course also focuses on
		the structure of the human dentofacial system.
Стоматология	https://online.pnzg	The course develops an understanding of the tooth
(Dentistry)	u.ru/enrol/index.ph	structure and the most common dental pathologies:
	p?id=81	caries, pulpitis, periodontitis, and non-carious tooth
		lesions.

# **Infectious Diseases**

Online courses	Link	Summary
in English		
Epidemics	https://www.course ra.org/learn/hkuepi demics	This course explores the history, impact, and management of epidemics, providing insights into the spread of diseases, public health strategies, and the societal implications of major outbreaks.
Epidemiology: The Basic Science of Public Health	https://www.course ra.org/learn/epidem iology#syllabus	This course allows students to delve into the fundamental principles of epidemiology and its crucial role in safeguarding public health. It explores key concepts, data analysis techniques, and real-world applications to reveal the science behind disease spread and prevention.
Infectious Disease Transmission Models for Decision-Makers	https://www.course ra.org/learn/infecti ous-disease- transmission- models-for- decision-makers	This course provides a comprehensive understanding of infectious disease transmission models and their practical implications for decision-makers. Students can explore the dynamics of disease spread, intervention strategies, and the use of models to inform effective public health policies.
Measuring Disease in Epidemiology	https://www.course ra.org/learn/measur ing-disease- epidemiology	The course teaches how to calculate key epidemiological indicators, interpret data, and apply findings to public health practice.
Online courses	Link	Summary
in Russian		
Delta-V: курс по иммунопрофила ктике (Delta-V: An Immunoprophyla xis Course)	https://stepik.org/c ourse/126522/prom o?search=4371774 002	The purpose of this course is to enhance the awareness of medical professionals, particularly nursing staff, about immunoprophylaxis, with a focus on vaccination issues.
Hayчно- обоснованная медицинская практика. Поиск доказательной информации (Scientifically Based Medical Practice: Seeking Evidence-Based Information)	https://sechenov.on line/course/dokazat elnoj-informacii	The course introduces the history and basic approaches of evidence-based medicine, examining its evolution from early attempts to standardize medical practice to modern methods of assessing and applying clinical research. In addition, the course covers clinical question formulation techniques, a fundamental skill for any healthcare professional. Students learn about the structure and significance of a correctly formulated question using the PICO (Patient-Intervention- Comparison-Outcome) format, explore classifications of evidence-based medicine databases, and form an understanding of the principles of using technology and evidence-based medicine in a doctor's practice.

Основные	https://www.course	This online course covers key methods and tools for
эпидемиологиче	ra.org/learn/epidem	measuring disease spread, while describing how to
ские	iology-tools	calculate epidemiological indicators, analyze data, and
инструменты		apply results to public health practice.
для практики		
общественного		
здравоохранени		
я (Basic		
Epidemiological		
Tools for Public		
Health Practice)		
Эпидемии -	https://www.course	This online course offers an in-depth study of the
динамика	ra.org/learn/epidem	dynamics of infectious diseases, including methods for
инфекционных	ics	analyzing epidemiological data and strategies for
заболеваний		disease control. It covers the basic principles of
(Epidemics—		epidemiology with a focus on practical skills to
Dynamics of		effectively respond to various epidemic situations.
Infectious		
Diseases)		

### **Public Health**

Online courses	Link	Summary
in English		
Basics of Health	https://www.classc	This course provides a comprehensive understanding
Promotion and	entral.com/course/s	of health promotion and education interventions, which
Education	wayam-basics-of-	are key competencies for public health professionals. It
Intervention	health-promotion-	covers how to define and assess the needs for these
	and-education-	interventions, and focuses on practical skills for
	intervention-91645	planning, implementing, and evaluating health
		promotion and education programs.
Elements of	https://sechenov.on	This course covers fundamental concepts in
Biostatistics for	line/course/element	biostatistics, including population and sample
Medical Students	s-of-biostatistics-	definitions, calculations of the mean, variance, and
	for-medical-	standard deviation, as well as graphical presentations of
	students	distributions. The method of the least squares is
		explained along with its applications. The course also
		describes hypothesis testing for the mean, variance, and
		the significance of correlation dependencies. All topics
		are illustrated with examples, including mathematical
		calculations and explanations of the final results.
Foundations of	https://www.classc	The three modules of the course explore the scope,
Public Health	entral.com/course/	principles, and nuances of health protection in the

Practice: Health	health-protection-	context of public health practice. Beginning with the
Protection	17355	basics of Water, Sanitation, and Health (WASH) based interventions, the course introduces the science and principles of practical microbiology. It moves on to consider vaccines, incident management and the threat posed by a wide range of man-made and natural
		environmental threats.
Introduction to	https://sechenov.on	The course introduces the basics of research
Research	line/course/researc	methodology, including types of research design, the
Methodology	h-methodology	research life cycle, and principles of data description. It
		covers the main statistical methods used in research and
		provides examples of how to interpret the results of
	1	statistical tests.
Public Health as	https://sechenov.on	The course introduces fundamental definitions and key
a Key Resource for the Wellbeing	line/course/public- health	indicators crucial for understanding public health, such as demographic metrics, morbidity rates, and measures
of Society	nearth	of disability. It explores methods for studying public
		health and analyzing health data. The training covers
		the identification and impact of major risk factors for
		noncommunicable diseases, including lifestyle choices,
		environmental factors, and genetic predispositions.
		Additionally, the course examines evidence-based
		approaches to disease prevention and health promotion
		strategies. It equips participants with the skills to design
		and implement effective public health interventions. Overall, the course provides a solid foundation in
		public health principles and practices for professionals
		in health policy, research, and community health.
Population	https://www.my-	This course provides knowledge needed to identify key
Health: Disease	mooc.com/ru/mooc	socio-economic and cultural determinants of
Prevention and	/population-health-	population health outcomes, analyze the impact of
Management	disease-prevention-	socio-cultural factors on access to health care, and
	and-management/	adjust health promotions and interventions
	• // -	accordingly.
Population	https://www.classc	This course covers the fundamental principles of
Health: Fundamentals of	entral.com/course/f undamentals-	population health management, focusing on analyzing
Population	population-health-	current healthcare challenges and designing solutions using this approach. It also explains the rationale
Health	managemen-13057	behind the current transformation in healthcare value,
Management		exploring leading frameworks in population health
Ŭ		management.
Online courses	Link	Summary
in Russian		

Демография	https://sechenov.on	The course covers the fundamentals of demography as
(Demography)	line/course/demogr	a science, providing a comprehensive understanding of
	afia	its theoretical and practical aspects. It also examines the
		basic methods for studying demographic indicators,
		including statistical and analytical tools used to
		estimate population size, birth rate, mortality,
		migration and other key demographic processes.
		Special attention is paid to studying the characteristics
		and trends of demographic indicators in Russia and
		abroad.
Общественное	https://sechenov.on	The course covers essential concepts and principles of
здоровье и	line/course/obsestv	public health, including the organization of healthcare
здравоохранени	ennoe-zdorove	systems and factors affecting public health. It places
e (Public Health		special emphasis on public health indicators, risk
and Healthcare)		factors, prevention of noncommunicable diseases, and
		statistical methods for public health research.
Сохранение	https://sechenov.on	The course covers the fundamentals of a healthy
здоровья и	line/course/sohrane	lifestyle and contemporary methods for preventing
профилактика	nie-zdorovia	socially significant diseases in Russia. It delves into
социально		organizing preventive work with the population,
значимых		modern approaches to medical examinations for
заболеваний		specific adult groups, and preventive medical
(Health		screenings for adults. Additionally, the course
Preservation and		addresses health assessment methods and principles for
Prevention of		creating personalized recommendations for
Socially		maintaining a healthy lifestyle. Further topics include
Significant		health concepts, cancer and precancerous conditions,
Diseases)		and cancer prevention.