

Program: Clinical Medicine & Public Health

This document outlines the scope of themes that may be included in the Olympiad tests. The themes are grouped by areas and are followed by a list of recommended references in the Russian and English languages.

Olympiad winner's skill set by subject

The Olympiad winner knows:

- the basics of normal and pathological human anatomy;
- the basics of normal and pathological human physiology;
- the basics of etiology, pathogenesis, risk factors, clinical manifestations, principles of diagnostics of human diseases and methods of their pharmaceutical and surgical treatment;
- the basics of organizing scientific research in medicine and the principles of analysis of its results;
- public health criteria and methods of their calculation and analysis;
- strategies for health promotion and the principles of developing health promotion programs.

Content

Section 1. Basic medical research (Fundamental medicine)

1. Basics of human anatomy
2. Basics of human physiology
3. Human pathology (pathological human anatomy and pathological human physiology)
4. Pharmacology, clinical pharmacology

Section 2. General and internal medicine (Fundamentals of cardiac & cardiovascular systems, endocrinology, respiratory system, gastroenterology & hepatology, hematology, nephrology, therapeutic dentistry)

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. Oral hypoglycemic drugs, their mechanism and use.
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.
12. Therapeutic dentistry: classification, diagnosis, and treatment of hard tooth tissue diseases, pulpal and periapical pathology, periodontal and oral mucosa diseases.

Section 3. Surgery (Fundamentals of general and oral surgery)

1. Anatomy of the anterior abdominal wall. Surgical anatomy of abdominal and thoracic organs. Blood supply of internal organs.

2. Hernias of the anterior abdominal wall. Classification. Principles of surgical treatment.
3. Algorithm of examination of the patient with abdominal pain. Differential diagnosis of abdominal pain. Acute abdominal diseases (appendicitis, cholecystitis, pancreatitis, complications of ulcer disease, acute intestinal obstruction) and peritonitis. Diagnostic algorithm and treatment strategies for acute abdominal pain.
4. Obstructive jaundice. Anatomy of the biliary tract. Pathophysiological basis of the obstructive jaundice syndrome and its clinical manifestations. Principles of decompression and surgical treatment of obstructive jaundice.
5. Basic principles of treatment of surgical patients (principles of surgery and evidence-based medicine, asepsis and antisepsis, prevention and treatment of surgical infections and thromboembolic complications in surgical patients, fluid therapy and principles of nutritive support in surgery).
6. Oral surgery: etiology, pathogenesis, pathological anatomy, clinical picture, diagnosis, methods of treatment and routing of patients in oral surgery.

Section 4. Public Health

1. Public health and its determinants
2. Demography: subject matter, sections, rates, and trends
3. Disability: definition, causes, trends, approaches to rehabilitation
4. Morbidity: definition, causes, trends
5. Methods of studying health. Basics of statistics: organization of scientific research, types of statistical values, methods of evaluation of the relationship between values and the reliability of results

Section 5. Health promotion

1. Risk factors, classifications, and methods of assessment of risk factors
2. Prevention: types, goals, objectives, and criteria of the effectiveness of prevention
3. Prevention strategies: population strategy, high-risk strategy, and individual strategies

Recommended literature

Section 1. Basic medical research (Fundamental medicine).

Sources in English	Topic
1. Alyautdin, R. N. Pharmacology. Illustrated textbook / ed. R. N. Alyautdin. Moscow: GEOTAR-Media, 2020. 312 p. https://www.studentlibrary.ru/ru/book/ISBN9785970456651.html (free access).	Pharmacology, clinical pharmacology
2. Costanzo L. S. Physiology. 6th Edition. Elsevier, 2018. 516 p. https://archive.org/details/CostanzoPhysiology6thEditionC2018Txtbk (free access).	Basics of human physiology
3. Saltykov A.B., Khitrov A.N., Grachev S.V. et al. Pathology: Textbook. MIA, 2020. 304 p. https://knigabook.com/books/saltykov-av-pathology--textbook--ab-saltykov-an-khitrov-sv-grachev-et-al-2020-izd-mia-2605675 (partial access).	General pathology. Pathological human anatomy and pathological human physiology.
4. Sapin M.R., Kolesnikov. L.L., Nikitjuk D.B. Textbook of human anatomy: For medical students. In 2 volumes.	Basics of human anatomy

Vol. 1/ Ed. by M.R. Sapin. - Second Ed. Moscow: New Wave Publishing Agency, 2019. 416 p. https://archive.org/details/006240629/page/5/mode/2up (free access).	
5.Tortora Gerard J. Principles of Anatomy and Physiology. 13th Edition. Wiley, 2012. 1536 p. https://archive.org/details/principlesofanat0000tort_d4c9 (partial access).	Basics of human anatomy. Basics of human physiology

Sources in Russian	Topic
1.Аляутдин Р.Н., Преферанский Н.Г., Преферанская Н.Г. Фармакология. М.: ГЭОТАРМедиа, 2020. 441 с. http://mkmeridian.kz/f/alyautdin_2020_farma.pdf (free access).	Pharmacology, clinical pharmacology
2.Лапкин М. М. Избранные лекции по нормальной физиологии. Москва: ГЭОТАР-Медиа, 2019.544 с. https://www.studentlibrary.ru/en/book/ISBN9785970446782.html (partial access).	Basics of human physiology
3.Ноздрачёв А. Д. Нормальная физиология Москва: ГЭОТАР-Медиа, 2019. 1088 с. https://www.studentlibrary.ru/ru/book/ISBN9785970445938.html (partial access).	Basics of human physiology
4. Ремизов И.В. Основы патологии: учебник. М.: КНОРУС, 2016. 240 с. https://jasulib.org/kg/wp-content/uploads/2023/01/8.-И.В.-Ремизов-В.А.-Дорошенко.-ОСНОВЫ-ПАТОЛОГИИ.pdf (free access).	General pathology. Pathological human anatomy and pathological human physiology
5. Сапин М.Р., Билич Г.Л. Нормальная анатомия человека: Учебник. В 2 кн. Кн. 1. — М.: ООО «Медицинское информационное агентство», 2010. 480 с.: ил. https://www.cpkmed.ru/materials/El_Biblio/AktualDoc/anatomija/7.pdf (free access).	Basics of human anatomy
6. Сапин М.Р., Билич Г.Л. Нормальная анатомия человека: Учебник. В 2 кн. Кн. 2. — М.: ООО «Медицинское информационное агентство», 2010. 584 с.: ил. https://cpkmed.ru/materials/El_Biblio/AktualDoc/anatomija/8.pdf (free access).	Basics of human anatomy

Section 2. General and internal medicine (Fundamentals of cardiac & cardiovascular systems, endocrinology, respiratory system, gastroenterology & hepatology, hematology, nephrology, therapeutic dentistry)

Sources in English	Topic
<p>1. Goldman L., Schafer A. Goldman-Cecil Medicine, 2-Volume Set. 26th Edition. Elsevier, 2019. 2944 p. https://www.elsevier.com/books/goldman-cecil-medicine-2-volume-set/goldman/978-0-323-53266-2 (partial access).</p>	<p>Arterial hypertension. Classification. Clinical features. Diagnostics. Treatment</p> <p>Type 2 diabetes mellitus. Clinical manifestations, diagnostics. Groups of oral hypoglycemic drugs, their mechanism and use.</p> <p>Anemia. Differential diagnosis</p> <p>Pneumonia. Classification. Clinical manifestations. Diagnostics. Treatment</p> <p>Chronic obstructive pulmonary disease. Etiology. Clinical manifestations. Diagnostics. Treatment</p> <p>Inflammatory bowel diseases. Classification. Clinical manifestations. Diagnostics. Treatment</p> <p>Chronic hepatitis. Classification. Etiology. Diagnostics. Treatment. Complications</p> <p>Liver cirrhosis. Etiology. Classification. Clinical manifestations. Diagnostics. Principles of treatment. Complications</p> <p>Chronic kidney disease. Stages. Clinical manifestations. Diagnostics. Treatment</p>
<p>2. Hui D., Leung A. A., Ma C. Approach to Internal Medicine A Resource Book for Clinical Practice Springer Cham, 2022. 540 p. https://link.springer.com/book/10.1007/978-3-030-72980-6#about-book-content (partial access).</p>	<p>Arterial hypertension. Classification. Clinical features. Diagnostics. Treatment</p> <p>Coronary heart disease. Etiology. Pathogenesis. Risk factors. Classification. Clinical manifestations. Diagnostics. Treatment</p> <p>Type 2 diabetes mellitus. Clinical manifestations, diagnostics. Groups of oral hypoglycemic drugs, their mechanism and use</p> <p>Anemia. Differential diagnosis</p> <p>Pneumonia. Classification. Clinical manifestations. Diagnostics. Treatment</p> <p>Chronic obstructive pulmonary disease. Etiology. Clinical manifestations. Diagnostics. Treatment. Acid-related diseases of the gastrointestinal tract. Classification. Clinical manifestations. Diagnostics. Treatment</p> <p>Inflammatory bowel diseases. Classification. Clinical manifestations. Diagnostics. Treatment</p>

	<p>Chronic hepatitis. Classification. Etiology. Diagnostics. Treatment. Complications</p> <p>Liver cirrhosis. Etiology. Classification. Clinical manifestations. Diagnostics. Principles of treatment. Complications</p> <p>Chronic kidney disease. Stages. Clinical manifestations. Diagnostics. Treatment</p>
<p>3. Kasper D., Fauci A., Hauser S, Longo D., Jameson J., Loscalzo J. Harrison's Principles of Internal Medicine. 19th ed. New York: McGraw Hill Education, 2015. 3984 p. https://archive.org/details/DennisL.KasperAnthonyS.FauciStephenHauserDanLongoJ.LarryJamesonJosephLoscalzoHar/page/n905/mode/2up (free access).</p>	<p>Arterial hypertension. Classification. Clinical features. Diagnostics. Treatment</p> <p>Coronary heart disease. Etiology. Pathogenesis. Risk factors. Classification. Clinical manifestations. Diagnostics. Treatment</p> <p>Type 2 diabetes mellitus. Clinical manifestations, diagnostics. Groups of oral hypoglycemic drugs, their mechanism and use</p> <p>Anemia. Differential diagnosis</p> <p>Pneumonia. Classification. Clinical manifestations. Diagnostics. Treatment</p> <p>Chronic obstructive pulmonary disease. Etiology. Clinical manifestations. Diagnostics. Treatment</p> <p>Acid-related diseases of the gastrointestinal tract. Classification. Clinical manifestations. Diagnostics. Treatment</p> <p>Inflammatory bowel diseases. Classification. Clinical manifestations. Diagnostics. Treatment</p> <p>Chronic hepatitis. Classification. Etiology. Diagnostics. Treatment. Complications</p> <p>Liver cirrhosis. Etiology. Classification. Clinical manifestations. Diagnostics. Principles of treatment. Complications</p> <p>Chronic kidney disease. Stages. Clinical manifestations. Diagnostics. Treatment</p>
<p>4. Jarrah A. Al-T. Internal Medicine An Illustrated Radiological Guide Second Edition. Springer International Publishing Switzerland, 2017, 597 p. https://link.springer.com/content/pdf/10.1007/978-3-319-39747-4.pdf (free access).</p>	<p>Arterial hypertension. Classification. Clinical features. Diagnostics. Treatment</p> <p>Coronary heart disease. Etiology. Pathogenesis. Risk factors. Classification. Clinical manifestations. Diagnostics. Treatment</p>

	<p>Type 2 diabetes mellitus. Clinical manifestations, diagnostics. Groups of oral hypoglycemic drugs. Their application</p> <p>Anemia. Differential diagnosis</p> <p>Pneumonia. Classification. Clinical manifestations. Diagnostics. Treatment</p> <p>Chronic obstructive pulmonary disease. Etiology. Clinical manifestations. Diagnostics. Treatment</p> <p>Acid-related diseases of the gastrointestinal tract. Classification. Clinical manifestations. Diagnostics. Treatment</p> <p>Inflammatory bowel diseases. Classification. Clinical manifestations. Diagnostics. Treatment</p> <p>Liver cirrhosis. Etiology. Classification. Clinical manifestations. Diagnostics. Principles of treatment. Complications</p> <p>Chronic kidney disease. Stages. Clinical manifestations. Diagnostics. Treatment</p>
<p>5.Rajendran A., Sivapathasundharam B. Shafer's Textbook of Oral Pathology, 6/e 6th Edition. Elsevier, 2009 https://shop.elsevier.com/books/shafers-textbook-of-oral-pathology-6-e/unknown/978-81-312-1570-8 (partial access).</p>	<p>Therapeutic dentistry: classification, diagnosis, and treatment of hard tooth tissue diseases, pulpal and periapical pathology, periodontal and oral mucosa diseases.</p>

Sources in Russian	Topic
<p>1. Ахмедов В.А. Диагноз при заболеваниях внутренних органов. Формулировка, классификации. / под. ред. В. А. Ахмедова. М.: ГЭОТАР-Медиа, 2016. 256 с. https://www.rosmedlib.ru/book/ISBN9785970438725.html (partial access).</p>	<p>Arterial hypertension. Classification. Clinical features. Diagnostics. Treatment</p> <p>Coronary heart disease. Etiology. Pathogenesis. Risk factors. Classification. Clinical manifestations. Diagnostics. Treatment</p> <p>Type 2 diabetes mellitus. Clinical manifestations, diagnostics. Groups of oral hypoglycemic drugs, their mechanism and use</p> <p>Anemia. Differential diagnosis</p> <p>Pneumonia. Classification. Clinical manifestations. Diagnostics. Treatment</p>

	<p>Chronic obstructive pulmonary disease. Etiology. Clinical manifestations. Diagnostics. Treatment</p> <p>Acid-related diseases of the gastrointestinal tract. Classification. Clinical manifestations. Diagnostics. Treatment</p> <p>Inflammatory bowel diseases. Classification. Clinical manifestations. Diagnostics. Treatment. Chronic hepatitis. Classification. Etiology. Diagnostics. Treatment. Complications</p> <p>Liver cirrhosis. Etiology. Classification. Clinical manifestations. Diagnostics. Principles of treatment. Complications</p> <p>Chronic kidney disease. Stages. Clinical manifestations. Diagnostics. Treatment.</p>
<p>2.Боровский Е. В. .Терапевтическая стоматология: Учебник для студентов медицинских вузов / Под ред. Е. В. Боровского. — М.: ООО «Медицинское информационное агентство», 2011. 840 с. https://e-library.sammu.uz/uploads/books/O'zbek%20tilidagi%20adabiyotlar/Стоматология/Е_В_Боровский_Терапевтическая_стоматология_2_011_829_с_.pdf (free access).</p>	<p>Therapeutic dentistry: classification, diagnosis, and treatment of hard tooth tissue diseases, pulpal and periapical pathology, periodontal and oral mucosa diseases.</p>
<p>3. Дедов И.И. Эндокринология. Национальное руководство. Краткое издание / под ред. И. И. Дедова, Г. А. Мельниченко. - 2-е изд., перераб. и доп. Москва: ГЭОТАР-Медиа, 2020. 832 с. https://www.rosmedlib.ru/book/ISBN9785970455609.html (partial access).</p>	<p>Type 2 diabetes mellitus. Clinical manifestations, diagnostics. Groups of oral hypoglycemic drugs, their mechanism and use</p>
<p>4.Ивашкин В.Т. Гастроэнтерология. Национальное руководство / под ред. В. Т. Ивашкина, Т. Л. Лапиной – Москва: ГЭОТАР-Медиа, 2018. 464 с. https://www.rosmedlib.ru/book/ISBN9785970444061.html (partial access).</p>	<p>Acid-related diseases of the gastrointestinal tract. Classification. Clinical manifestations. Diagnostics. Treatment</p> <p>Inflammatory bowel diseases. Classification. Clinical manifestations. Diagnostics. Treatment. Chronic hepatitis. Classification. Etiology. Diagnostics. Treatment. Complications</p> <p>Liver cirrhosis. Etiology. Classification. Clinical manifestations. Diagnostics. Principles of treatment. Complications</p>
<p>5.Ройтберг Г.Е., Струтынский А.В. Внутренние болезни. Сердечно-сосудистая система. МЕДпресс, 2021. 904с.</p>	<p>Arterial hypertension. Classification. Clinical features. Diagnostics. Treatment</p>

https://book-med.ru/products/19212749 (partial access).	Coronary heart disease. Etiology. Pathogenesis. Risk factors. Classification. Clinical manifestations. Diagnostics. Treatment
6. Рукавицын, О. А. Гематология / под ред. Рукавицына О. А. Москва: ГЭОТАР-Медиа, 2019. 784 с. https://www.rosmedlib.ru/book/ISBN9785970452707.html?ysclid=lm33t6q0l5984671582 (ограниченный доступ).	Anemia. Differential diagnosis
7. Сахин В. Т. Анемия хронических заболеваний / под общ. ред. Крюкова Е. В. – Москва: ГЭОТАР-Медиа, 2020. 160 с. https://www.studentlibrary.ru/book/ISBN9785970459232.html (partial access).	Anemia. Differential diagnosis
8. Чучалин А. Г. Пульмонология / под ред. Чучалина А. Г. Москва: ГЭОТАР-Медиа, 2020. 768 с. https://www.rosmedlib.ru/book/ISBN9785970453230.html (partial access).	Pneumonia. Classification. Clinical manifestations. Diagnostics. Treatment Chronic obstructive pulmonary disease. Etiology. Clinical manifestations. Diagnostics. Treatment
9. Шилов Е. М. Нефрология. Клинические рекомендации / под ред. Е. М. Шиловой, А. В. Смирнова, Н. Л. Козловской. Москва: ГЭОТАР-Медиа, 2016. 816 с. https://www.rosmedlib.ru/book/ISBN9785970437148.html (partial access).	Chronic kidney disease. Stages. Clinical manifestations. Diagnostics. Treatment

Section 3. Surgery (Fundamentals of general and oral surgery)

Sources in English	Topic
1. Bland K.I., Sarr M.G., Büchler M.W., Csendes A., Garden O.J. General principles of Surgery: Handbooks in General Surgery. Springer, 2011. 198 p. https://link.springer.com/book/9781849963800 (partial access).	Anatomy of the anterior abdominal wall. Surgical anatomy of abdominal and thoracic organs. The blood supply of internal organs Hernias of the anterior abdominal wall. Classification. Principles of surgical treatment. Obstructive jaundice. Anatomy of the biliary tract. Pathophysiological basis of development of obstructive jaundice syndrome and clinical manifestations. Principles of decompression and surgical treatment in obstructive jaundice syndrome Basic principles of treatment of surgical patients (principles of surgery and evidence-based medicine, asepsis and antisepsis, prevention and treatment of surgical infections and thromboembolic complications in surgical

	patients, fluid therapy and principles of nutritive support in surgery).
2. Brunicardi F. C., Andersen D. K., Billiar T.R., Dunn D.L., Kao L. S., Hunter J.G., Matthews J.B., Pollock R. E. Schwartz's Principles of Surgery, 11th edition. McGraw Hill, 2019. 2224 p. https://mega.nz/file/7Mti1YxK#5qI09wRK6DrHGXYbkrzNurUNIN40035fWAoiAyHRnHA (free access).	Anatomy of the anterior abdominal wall. Surgical anatomy of abdominal and thoracic organs. The blood supply of internal organs. Hernias of the anterior abdominal wall. Classification. Principles of surgical treatment. Examination of the patient with abdominal pain. Differential diagnosis of abdominal pain. Acute abdominal diseases (appendicitis, cholecystitis, pancreatitis, complications of ulcer disease, acute intestinal obstruction) and peritonitis. Diagnostic algorithm and treatment strategies for acute abdominal pain.
3. Gossage J., Modarai B., Sahai A., Worth R. 100 cases in surgery. 2nd edition. CRC Press, 2017. 241 p. https://umfmed.files.wordpress.com/2013/03/100-casesurgery.pdf (free access).	Examination of the patient with abdominal pain. Differential diagnosis of abdominal pain Acute abdominal diseases (appendicitis, cholecystitis, pancreatitis, complications of ulcer disease, acute intestinal obstruction) and peritonitis. Diagnostic algorithm and treatment strategies for acute abdominal pain. Obstructive jaundice. Anatomy of the biliary tract. Pathophysiological basis of development of obstructive jaundice syndrome and clinical manifestations. Principles of decompression and surgical treatment in obstructive jaundice syndrome.
4. Tarasenko S. V. Oral Surgery: textbook / ed. by S. V. Tarasenko. - Moscow : GEOTAR-Media, 2023. - 640 p. https://www.geotar.ru/lots/NF0023765.html 1. (partial access).	Oral surgery: etiology, pathogenesis, pathological anatomy, clinical picture, diagnosis, methods of treatment and routing of patients in oral surgery

Sources in Russian	Topic
1. Госсадж Дж. А., Модарай Б., Сахай А., Уорт Р. 100 клинических разборов. Хирургия /Пер. с англ. под ред. А.Ф.Черноусова, Т.В.Хоробрых. М.: ГЭОТАР-Медиа, 2009. 282 с. https://knigogid.ru/books/97556-100-klinicheskikh-razborov-hirurgiya (partial access).	Examination of the patient with abdominal pain. Differential diagnosis of abdominal pain. Acute abdominal diseases (appendicitis, cholecystitis, pancreatitis, complications of ulcer disease, acute intestinal obstruction) and peritonitis. Diagnostic algorithm and treatment strategies for acute abdominal pain.
2. Затевахин И.И., Пасечник И.Н., Лядов К.В. Программа ускоренного выздоровления хирургических больных. Fast track. М.: ГЭОТАР-Медиа, 2019. 208 с.	Basic principles of treatment of surgical patients (principles of surgery and evidence-based medicine, asepsis and antisepsis, prevention and treatment of surgical infections and thromboembolic complications in surgical

https://www.rosmedlib.ru/book/ISBN9785970443484.html (partial access).	patients, fluid therapy and principles of nutritive support in surgery).
3. Крылов Н. Н. Хирургические болезни: в 2 т.: Т. 1: учебник / под ред. Крылова Н. Н. Москва: ГЭОТАР-Медиа, 2019. 816 с. https://www.studentlibrary.ru/book/ISBN9785970450987.html (partial access).	Anatomy of the anterior abdominal wall. Surgical anatomy of abdominal and thoracic organs. The blood supply of internal organs Hernias of the anterior abdominal wall. Classification. Principles of surgical treatment Examination of the patient with abdominal pain. Differential diagnosis of abdominal pain. Acute abdominal diseases (appendicitis, cholecystitis, pancreatitis, complications of ulcer disease, acute intestinal obstruction) and peritonitis. Diagnostic algorithm and treatment strategies for acute abdominal pain Obstructive jaundice. Anatomy of the biliary tract. Pathophysiological basis of development of obstructive jaundice syndrome and clinical manifestations. Principles of decompression and surgical treatment in obstructive jaundice syndrome
4. Крылов Н. Н. Хирургические болезни: Т. 2: учебник / под ред. Крылова Н. Н. Москва: ГЭОТАР-Медиа, 2019. 592 с. https://www.studentlibrary.ru/book/ISBN9785970450994.html (partial access).	Examination of the patient with abdominal pain. Differential diagnosis of abdominal pain. Acute abdominal diseases (appendicitis, cholecystitis, pancreatitis, complications of ulcer disease, acute intestinal obstruction) and peritonitis. Diagnostic algorithm and treatment strategies for acute abdominal pain
5. Тарасенко С. В. Хирургическая стоматология. Учебник./ Под редакцией С. В. Тарасенко. Москва: ГЭОТАР-Медиа, 2021. 672 с. https://www.geotar.ru/lots/NF0019821.html (partial access).	Oral surgery: etiology, pathogenesis, pathological anatomy, clinical picture, diagnosis, methods of treatment and routing of patients in oral surgery

Section 4. Public Health

Sources in English	Topic
1. Begun D.N., Borshchuk E.L., Begun T.V. Course book for practical training in the sphere of public health and health care. Orenburg: OrSMU, 2018. 121 p. https://www.orgma.ru/files/kafedry/kafedra-obshzestvennogo-zdorovya-i-zdravoohraneniya-1/info_stud/new/FF2/Textbook.pdf (free access).	Demography: subject matter, sections, rates, trends Morbidity: definition, causes, trends Methods of studying health. Basics of statistics: organization of scientific research, types of statistical values, methods of

	evaluation of relationship between values and the reliability of the results
2. Gorbunov V. I., Vozzhennikova G. V., Isaeva I. N., Gorbunov M. V. Public health and Healthcare: main ways of cognition: text book. Ulyanovsk: UISU, 2017. 182 p. https://www.ulsu.ru/media/uploads/iriskor%40mail.ru/2017/10/27/Public%20health.pdf (free access).	Public health and its determinants Demography: subject matter, sections, rates, trends Disability: definition, causes, trends, approaches to rehabilitation Morbidity: definition, causes, trends
3. Kicha D.I., Fomina A.V., Abramov A.U., Makaryan A.S., Rukodayniy O.V. Practice-based approach to public health and training: учебное пособие. Moscow: RUDN, 2017. 84 p. https://fnmo.rudn.ru/upload/iblock/579/57919ca8084a010526d940929869b099.pdf (free access).	Public health and its determinants Demography: subject matter, sections, rates, trends Disability: definition, causes, trends, approaches to rehabilitation Methods of studying health. Basics of statistics: organization of scientific research, types of statistical values, methods of evaluation of relationship between values and the reliability of the results
4. World Health Organization & World Bank. (2011). World report on disability 2011.350 p. https://apps.who.int/iris/handle/10665/44575 (free access).	Disability: definition, causes, trends, approaches to rehabilitation

Sources in Russian	Topic
1. Медик В. А., Лисицин В. И. Общественное здоровье и здравоохранение. 4-е изд., перераб. и доп. М.: ГЭОТАР-Медиа, 2017. 496 с. http://bono-esse.ru/blizzard/Biblio/OZZ/Uchebniki/Medik_OZZ_uchebnik_2017.pdf (free access).	Public health and its determinants Demography: subject matter, sections, rates, trends Disability: definition, causes, trends, approaches to rehabilitation Morbidity: definition, causes, trends
2. Решетников В.А. Общественное здоровье населения Российской Федерации: Учебник / Под ред. В.А.Решетникова. Москва: ООО «Издательство «Медицинское информационное агентство», 2022. 336 с. https://www.mmbook.ru/catalog/organizatsija-zdrav/110474-detail (partial access).	Public health and its determinants Demography: subject matter, sections, rates, trends Disability: definition, causes, trends, approaches to rehabilitation Morbidity: definition, causes, trends
3. Решетников В.А. Основы статистического анализа в медицине/ под ред. Решетникова В.А. М.: ООО «Издательство «Медицинское информационное агентство», 2019. 176 с. https://www.mmbook.ru/catalog/organizatsija-zdrav/109686-detail (partial access).	Methods of studying health. Basics of statistics: organization of scientific research, types of statistical values, methods of evaluation of relationship between values and the reliability of the results

Section 5. Health promotion

Sources in English	Topic
1. Donev D., Pavlekov G., Zaletel L. Health promotion and disease prevention. Hans Jacobs Publishing Company, 2007. 807 p. https://www.researchgate.net/profile/Doncho-Donev/publication/37683756_Concepts_and_Principles_in_Health_Promotion/links/0fcfd50981298aa4d8000000/Concepts-and-Principles-in-Health-Promotion.pdf (free access).	Prevention: types, goals, objectives, criteria for the effectiveness of prevention
2. Mahajan B.K., Roy R. N., Saha I., Gupta M.C. Mahajan & Gupta Textbook of Preventive and Social Medicine. Jaypee Brothers Medical Publishers, 2013. 732 p. https://www.jaypeebrothers.com/pgDetails.aspx?book_id=9789350901878 (partial access).	Risk factors, classifications, methods of assessment of risk factors Prevention: types, goals, objectives, criteria for the effectiveness of prevention
3. Outwater A.H., Leshabari S. C. International Encyclopedia of Public Health (Second Edition). 2017, pp. 338-349. https://www.researchgate.net/publication/310453018_Disease_Prevention_An_Overview (free access).	Prevention: types, goals, objectives, criteria for the effectiveness of prevention Prevention strategies: population strategy, high risk strategy, individual strategies
4. World Health Organization. (2009). Global health risks: mortality and burden of disease attributable to selected major risks. World Health Organization. 70 p. https://apps.who.int/iris/handle/10665/44203 (free access).	Risk factors, classifications, methods of assessment of risk factors

Sources in Russian	Topic
1. Глобальные факторы риска для здоровья. Смертность и бремя болезней, обусловленные некоторыми основными факторами риска. 70 с. https://apps.who.int/iris/bitstream/handle/10665/44203/9789244563878_rus.pdf (free access).	Risk factors, classifications, methods of assessment of risk factors
2. Решетников В.А. Общественное здоровье населения Российской Федерации: Учебник / Под ред. В.А.Решетникова. Москва: ООО «Издательство «Медицинское информационное агентство», 2022. 336 с.	Risk factors, classifications, methods of assessment of risk factors Prevention: types, goals, objectives, criteria for the effectiveness of prevention

https://www.mmbook.ru/catalog/organizatsija-zdrav/110474-detail (partial access).	
3. Решетников В.А. Организация медицинской помощи в Российской Федерации/ под ред. Решетникова В.А. М.: ООО «Издательство «Медицинское информационное агентство», 2018. 432 с. https://www.medlib.ru/library/library/books/21726 (partial access).	Risk factors, classifications, methods of assessment of risk factors# Prevention: types, goals, objectives, criteria for the effectiveness of prevention Prevention strategies: population strategy, high risk strategy, individual strategies

Recommended online courses

Section 1. Basic medical research (Fundamental medicine)

1. Anatomy: Musculoskeletal and Integumentary Systems (Coursera) <https://www.coursera.org/learn/anatomy403-1x>
2. Brain Biomarkers for Assessment of Brain Damage (Sechenov Online) <https://sechenov.online/course?id=126>
3. Cell Injury and Cell Death (Sechenov Online) <https://sechenov.online/course?id=117>
- Human Anatomy: Musculoskeletal Cases (EdX) <https://www.edx.org/course/anatomyx-musculoskeletal-cases?index=product&queryID=c118e36642e283c40206d0060f4af53c&position=2>
4. Introduction to Pharmacology (EdX) <https://www.edx.org/course/introduction-to-pharmacology?index=product&queryID=159059e498dd81d034d7dd8f79e1d165&position=10>

Section 2. General and internal medicine (Fundamentals of cardiac & cardiovascular systems, endocrinology, respiratory system, gastroenterology & hepatology, hematology, nephrology, therapeutic dentistry)

1. Chronic respiratory diseases (CRD) in primary care settings (My-mooc) <https://www.my-mooc.com/en/mooc/chronic-respiratory-diseases-crd-in-primary-care-settings/>
2. Global Health Initiative: Chronic Obstructive Pulmonary Disease Awareness (Alison) <https://alison.com/course/global-health-initiative-chronic-obstructive-pulmonary-disease-awareness-revised>
3. Introduction to Dental Materials Science (Stepik.org) <https://stepik.org/course/54265/promo>
4. Nutrition, Heart Disease and Diabetes (edX) <https://www.edx.org/course/nutrition-heart-disease-and-diabetes>
5. Chronic Obstructive Pulmonary Disease (COPD) (ijhn-education) <https://www.ijhn-education.org/content/supplemental-course-chronic-obstructive-pulmonary-disease-copd-0#group-tabs-node-course-default1>

Section 3. Surgery (Fundamentals of general and oral surgery)

1. Abdominal and Genitourinary Emergencies (Lecturio) [https://www.lecturio.com/medical-courses/abdominal-and-genitourinary-emergencies.course#/#](https://www.lecturio.com/medical-courses/abdominal-and-genitourinary-emergencies.course#/)
2. Anatomy Of The Abdominal Wall (Learnsurgeryonline) <https://learnsurgeryonline.com/course/anatomy-of-the-abdominal-wall-course/>
3. Anatomy of the Chest, Neck, Abdomen, and Pelvis (Coursera) <https://www.coursera.org/learn/trunk-anatomy>
4. Free learning in functional dentistry (OHI-S) <https://ohi-s.com/webinars-courses/167549/>
5. General Surgery (Lecturio) <https://www.lecturio.com/medical-courses/general-surgery.course#/#>

Section 4. Public Health

1. Data and Health Indicators in Public Health Practice (Coursera)
<https://www.coursera.org/learn/data-public-health?action=enroll#syllabus>
2. Epidemiology: The Basic Science of Public Health (Coursera)
<https://www.coursera.org/learn/epidemiology#syllabus>
3. Introduction to Statistics (Stepik) <https://stepik.org/course/701/syllabus>

Section 5. Health promotion

1. Basics of Health Promotion and Education Intervention (Classcentral)
<https://www.classcentral.com/course/swayam-basics-of-health-promotion-and-education-intervention-91645>
2. Bridging healthcare and society (Class Central)
<https://www.classcentral.com/course/healthcare-and-society-11947?fbclid=IwAR2R1yipuww-6vy27lFGLSZxkuHmfPYPCnyPFIBUUbqRseU2iUxDXTstdg>
3. Foundations of Public Health Practice: Health Protection (Classcentral)
<https://www.classcentral.com/course/health-protection-17355>
4. Population health: disease prevention and management (My-mooc) <https://www.my-mooc.com/ru/mooc/population-health-disease-prevention-and-management/>
5. Population Health: Fundamentals of Population Health Management (Class Central)
<https://www.classcentral.com/course/fundamentals-population-health-managemen-13057>
6. Population Health: Health & Health Behaviour (Class Central)
<https://www.classcentral.com/course/healthbehaviour-13568>