

Program: Clinical Medicine and Public Health

This document outlines the scope of themes, which 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 owns the methods of their pharmaceutical and surgical treatment
- the basics of organizing scientific research in medicine and can analyze its results
- the public health criteria and knows how to calculate and analyze them
- approaches to health promotion and can develop programs of preventive measures

Content

Section 1. Basic medical research. Fundamental medicine)

1. Basics of normal human anatomy.
2. Basics of normal human physiology.
3. General pathology - pathological human anatomy and pathological human physiology.
4. Pharmacology, clinical pharmacology.

Section 2. General and internal medicine

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 their 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.

Section 3. Surgery

1. Anatomy of the anterior abdominal wall. Surgical anatomy of abdominal and thoracic organs. The 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 development of obstructive jaundice syndrome and clinical manifestations. Principles of decompression and surgical treatment in obstructive jaundice syndrome.
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).

Section 4. Public Health

1. Public health and its determinants
2. Demography: subject matter, sections, rates, 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 the results

Section 5. Health promotion

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

Recommended literature

Section 1. Basic medical research (Fundamental medicine)

Sources	Corresponding 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 normal human physiology.
3. Saltykov A.B., Khitrov A.N., Grachev S.V. et al. Pathology: Textbook. MIA, 2020. 304p. https://knigabook.com/books/saltykov-av-pathology--textbook--ab-saltykov-an-khitrov-sv-grachev-et-al-2020-izd-mia-2605675 (free access).	General pathology - pathological human anatomy and pathological human physiology.
4. Sapin M.R. Kolesnikov L.L., Nikitjuk D.B.	Basics of normal human anatomy.

<p>Textbook of human anatomy: For medical students. In 2 volumes. 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).</p>	
<p>5. Tortora Gerard J. Principles of Anatomy and Physiology. 13th Edition. Wiley, 2012. 1536 p. https://archive.org/details/principlesofanat0000tort_d4c9 (partial access).</p>	<ul style="list-style-type: none"> • Basics of normal human anatomy. • Basics of normal human physiology.
<p>6. 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).</p>	Pharmacology, clinical pharmacology.
<p>7. Лапкин М. М. Избранные лекции по нормальной физиологии. Москва: ГЭОТАР-Медиа, 2019. 544 с. https://www.studentlibrary.ru/en/book/ISBN9785970446782.html (partial access).</p>	Basics of normal human physiology.
<p>8. Ноздрачев А. Д. Нормальная физиология. Москва: ГЭОТАР-Медиа, 2019. 1088 с. https://www.studentlibrary.ru/ru/book/ISBN9785970445938.html (partial access).</p>	Basics of normal human physiology.
<p>9. Ремизов И.В. Основы патологии: учебник. М.: КНОРУС, 2016. 240 с. https://static.myshop.ru/product/f16/242/2416373.pdf (free access).</p>	General pathology - pathological human anatomy and pathological human physiology.
<p>10. 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).</p>	Basics of normal human anatomy.
<p>11. 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://anatomy.tma.uz/wp-content/uploads/2018/12/%D0%A1%D0%B0%D0%BF%D0%B8%D0%BD_%D0%9C_%D0%A0_%D0%91%D0%B8%D0%BB%D0%B8%D1%87_%D0%93_%D0%9B_%D0%9D%D0%BE%D1%80%D0%BC%D0%B0%D0%BB%D1%8C%D0%BD%D0%B0%D1%8F-2.pdf (free access).</p>	Basics of normal human anatomy.

Section 2. Medicine, general & internal

ONE CLICK TO OPEN ALL DOORS

Sources	Corresponding 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>	<ul style="list-style-type: none"> • Arterial hypertension. Classification. Clinical features. Diagnostics. Treatment. • Type 2 diabetes mellitus. Clinical manifestations, diagnostics. Groups of oral hypoglycemic drugs. Features of their application. • Anemia. Differential diagnosis. • Pneumonia. Classification. Clinical manifestations. Diagnostics. Treatment. • Chronic obstructive pulmonary disease. Etiology. Clinical manifestations. Diagnostics. Treatment. • Inflammatory bowel diseases. Classification. Clinical manifestations. Diagnostics. Treatment. • Chronic hepatitis. Classification. Etiology. Diagnostics. Treatment. Complications. • Liver cirrhosis. Etiology. Classification. Clinical manifestations. Diagnostics. Principles of treatment. Complications. • Chronic kidney disease. Stages. Clinical manifestations. Diagnostics. Treatment.
<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>	<ul style="list-style-type: none"> • Arterial hypertension. Classification. Clinical features. Diagnostics. Treatment. • Coronary heart disease. Etiology. Pathogenesis. Risk factors. Classification. Clinical manifestations. Diagnostics. Treatment. • Type 2 diabetes mellitus. Clinical manifestations, diagnostics. Groups of oral hypoglycemic drugs. Features of their application. • Anemia. Differential diagnosis. • Pneumonia. Classification. Clinical manifestations. Diagnostics. Treatment. • Chronic obstructive pulmonary disease. Etiology. Clinical manifestations. Diagnostics. Treatment. • Acid-related diseases of the gastrointestinal tract. Classification. Clinical manifestations. Diagnostics. Treatment. • Inflammatory bowel diseases. Classification. Clinical manifestations. Diagnostics. Treatment. • Chronic hepatitis. Classification. Etiology.

	<p>Diagnostics. Treatment. Complications.</p> <ul style="list-style-type: none"> • Liver cirrhosis. Etiology. Classification. Clinical manifestations. Diagnostics. Principles of treatment. Complications. • Chronic kidney disease. Stages. Clinical manifestations. Diagnostics. Treatment.
<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://ps.1lib.tw/book/2712198/656cbe (free access).</p>	<ul style="list-style-type: none"> • Arterial hypertension. Classification. Clinical features. Diagnostics. Treatment. • Coronary heart disease. Etiology. Pathogenesis. Risk factors. Classification. Clinical manifestations. Diagnostics. Treatment. • Type 2 diabetes mellitus. Clinical manifestations, diagnostics. Groups of oral hypoglycemic drugs. Features of their application. • Anemia. Differential diagnosis. • Pneumonia. Classification. Clinical manifestations. Diagnostics. Treatment. • Chronic obstructive pulmonary disease. Etiology. Clinical manifestations. Diagnostics. Treatment. • Acid-related diseases of the gastrointestinal tract. Classification. Clinical manifestations. Diagnostics. Treatment. • Inflammatory bowel diseases. Classification. Clinical manifestations. Diagnostics. Treatment. • Chronic hepatitis. Classification. Etiology. Diagnostics. Treatment. Complications. • Liver cirrhosis. Etiology. Classification. Clinical manifestations. Diagnostics. Principles of treatment. Complications. • Chronic kidney disease. Stages. Clinical manifestations. Diagnostics. Treatment.
<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>	<ul style="list-style-type: none"> • Arterial hypertension. Classification. Clinical features. Diagnostics. Treatment. • Coronary heart disease. Etiology. Pathogenesis. Risk factors. Classification. Clinical manifestations. Diagnostics. Treatment. • Type 2 diabetes mellitus. Clinical manifestations, diagnostics. Groups of oral hypoglycemic drugs. Features of their application. • Anemia. Differential diagnosis. • Pneumonia. Classification. Clinical

	<p>manifestations. Diagnostics. Treatment.</p> <ul style="list-style-type: none"> • Chronic obstructive pulmonary disease. Etiology. Clinical manifestations. Diagnostics. Treatment. • Acid-related diseases of the gastrointestinal tract. Classification. Clinical manifestations. Diagnostics. Treatment. • Inflammatory bowel diseases. Classification. Clinical manifestations. Diagnostics. Treatment. • Liver cirrhosis. Etiology. Classification. Clinical manifestations. Diagnostics. Principles of treatment. Complications. • Chronic kidney disease. Stages. Clinical manifestations. Diagnostics. Treatment.
<p>5. 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>	<ul style="list-style-type: none"> • Arterial hypertension. Classification. Clinical features. Diagnostics. Treatment. • Coronary heart disease. Etiology. Pathogenesis. Risk factors. Classification. Clinical manifestations. Diagnostics. Treatment. • Type 2 diabetes mellitus. Clinical manifestations, diagnostics. Groups of oral hypoglycemic drugs. Features of their application. • Anemia. Differential diagnosis. • Pneumonia. Classification. Clinical manifestations. Diagnostics. Treatment. • Chronic obstructive pulmonary disease. Etiology. Clinical manifestations. Diagnostics. Treatment. • Acid-related diseases of the gastrointestinal tract. Classification. Clinical manifestations. Diagnostics. Treatment. • Inflammatory bowel diseases. Classification. Clinical manifestations. Diagnostics. Treatment. • Chronic hepatitis. Classification. Etiology. Diagnostics. Treatment. Complications. • Liver cirrhosis. Etiology. Classification. Clinical manifestations. Diagnostics. Principles of treatment. Complications. • Chronic kidney disease. Stages. Clinical manifestations. Diagnostics. Treatment.
<p>6. Дедов И. И. Эндокринология. Национальное руководство. Краткое издание</p>	<p>Type 2 diabetes mellitus. Clinical manifestations, diagnostics. Groups of oral</p>

/ 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).	hypoglycemic drugs. Features of their application.
7.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).	<ul style="list-style-type: none"> • Acid-related diseases of the gastrointestinal tract. Classification. Clinical manifestations. Diagnostics. Treatment. • Inflammatory bowel diseases. Classification. Clinical manifestations. Diagnostics. Treatment. • Chronic hepatitis. Classification. Etiology. Diagnostics. Treatment. Complications. • Liver cirrhosis. Etiology. Classification. Clinical manifestations. Diagnostics. Principles of treatment. Complications.
8.Ройтберг Г.Е., Струтынский А.В. Внутренние болезни. Сердечно-сосудистая система. МЕДпресс, 2021. 904с. https://book-med.ru/products/19212749 (partial access).	<ul style="list-style-type: none"> • Arterial hypertension. Classification. Clinical features. Diagnostics. Treatment. • Coronary heart disease. Etiology. Pathogenesis. Risk factors. Classification. Clinical manifestations. Diagnostics. Treatment.
9. Рукавицын, О. А. Гематология / под ред. Рукавицына О. А. Москва: ГЭОТАР-Медиа, 2019. 784 с. https://kingmed.info/media/book/5/4548.pdf (free access).	Anemia. Differential diagnosis.
10. 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.
11. Чучалин А. Г. Пульмонология / под ред. Чучалина А. Г. Москва: ГЭОТАР-Медиа, 2020. 768 с. https://www.rosmedlib.ru/book/ISBN9785970453230.html (partial access).	<ul style="list-style-type: none"> • Pneumonia. Classification. Clinical manifestations. Diagnostics. Treatment. • Chronic obstructive pulmonary disease. Etiology. Clinical manifestations. Diagnostics. Treatment.
12.Шилов Е. М. Нефрология. Клинические рекомендации / под ред. Е. М. Шилова, 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

Sources	Corresponding topic
<p>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).</p>	<ul style="list-style-type: none"> • 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).
<p>2. Brunicaudi 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 (partial access).</p>	<ul style="list-style-type: none"> • 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. • 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.
<p>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).</p>	<ul style="list-style-type: none"> • 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.

	<ul style="list-style-type: none"> • 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. 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).	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.
5. Затевахин И.И., Пасечник И.Н., Лядов К.В. Программа ускоренного выздоровления хирургических больных. Fast track. М.: ГЭОТАР-Медиа, 2019. 208 с. https://www.rosmedlib.ru/book/ISBN9785970443484.html (partial access).	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. 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).	<ul style="list-style-type: none"> • 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. • 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. • 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.
7. Крылов Н. Н. Хирургические болезни: Т. 2:	Algorithm of examination of the patient

учебник / под ред. Крылова Н. Н. Москва: ГЭОТАР-Медиа, 2019. 592 с. https://www.studentlibrary.ru/book/ISBN9785970450994.html . (partial access).	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.
8. Сажин А.В., Климиашвили А.Д. Общая хирургия. М.: МИА, 2019. 424 с. https://ru1lib.org/book/11967955/5a68ec (free access).	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.

Section 4. Public Health

Sources	Corresponding 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-zdravooohraneniya-1/info_stud/new/FF2/Textbook.pdf (free access).	<ul style="list-style-type: none"> • 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).	<ul style="list-style-type: none"> • 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).	<ul style="list-style-type: none"> • 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	Disability: definition, causes, trends,

Bank. (2011). World report on disability 2011. 350 p. https://apps.who.int/iris/handle/10665/44575 (free access).	approaches to rehabilitation
5.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).	<ul style="list-style-type: none"> • Public health and its determinants • Demography: subject matter, sections, rates, trends • Disability: definition, causes, trends, approaches to rehabilitation • Morbidity: definition, causes, trends
6. 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).	<ul style="list-style-type: none"> • Public health and its determinants • Demography: subject matter, sections, rates, trends • Disability: definition, causes, trends, approaches to rehabilitation • Morbidity: definition, causes, trends
7.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	Corresponding 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. http://www.aspu.edu.sy/laravel-filemanager/files/18/%D9%85%D8%B1%D8%A7%D8%AC%D8%B9%20%D8%B5%D9%8A%D8%AF%D9%84%D8%A9/Mahajan%20and%20Gupta%20Textbook%20of%20Preventive%20and%20Social%20Medicine.%204th%20Edition.pdf (free access).	<ul style="list-style-type: none"> • 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.	• Prevention: types, goals, objectives, criteria

International Encyclopedia of Public Health (Second Edition). 2017, pp. 338-349. https://www.researchgate.net/publication/310453018_Disease_Prevention_An_Overview (свободный доступ).	for the effectiveness of prevention <ul style="list-style-type: none"> 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
5. 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
6. 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).	<ul style="list-style-type: none"> Risk factors, classifications, methods of assessment of risk factors Prevention: types, goals, objectives, criteria for the effectiveness of prevention
7. 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).	<ul style="list-style-type: none"> 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 (EdX) <https://www.edx.org/course/anatomy-musculoskeletal-and-integumentary-systems?index=product&queryID=529fe40bdf9577237e1b2b6a716400c8&position=16>
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>
4. Human Anatomy: Musculoskeletal Cases (EdX) <https://www.edx.org/course/anatomy-musculoskeletal-cases?index=product&queryID=c118e36642e283c40206d0060f4af53c&position=2>
5. Introduction to Pharmacology (EdX) <https://www.edx.org/course/introduction-to-pharmacology?index=product&queryID=159059e498dd81d034d7dd8f79e1d165&position=10>

Section 2. Medicine, general & internal

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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. Diabetes – the Essential Facts (Coursera) <https://www.coursera.org/learn/diabetes-essential-facts>
3. Global Health Initiative: Chronic Obstructive Pulmonary Disease Awareness (Alison) <https://alison.com/course/global-health-initiative-chronic-obstructive-pulmonary-disease-awareness-revised>
4. Nutrition, Heart Disease and Diabetes (edX) <https://www.edx.org/course/nutrition-heart-disease-and-diabetes>
5. Supplemental course - 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

1. Anatomy Of The Abdominal Wall (Learnsurgeryonline) <https://learnsurgeryonline.com/course/anatomy-of-the-abdominal-wall-course/>
2. Anatomy of the Chest, Neck, Abdomen, and Pelvis (Coursera) <https://www.coursera.org/learn/trunk-anatomy>
3. 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>
4. Mathematical Teletraffic Theory (Openlearning) <https://www.openlearning.com/courses/mathematical-teletraffic-theory/?cl=1>

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=IwAR2R1yiipuww-6vy27IFGLSZxkuHmfPYPcnyPFIBUUbqRseU2iUxDXTstdg>
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>

