

**Entrance exam program  
for the postgraduate Ph.D. programme  
in CLINICAL MEDICINE (Subject code: 36.06.01)  
GENERAL MEDICINE PROFILE**

**General Medicine**

Analysis of the Main Indicators of the Obstetric and Gynecological Hospital and Antenatal Clinics. Ways to Reduce Maternal and Perinatal Mortality. Topographic Anatomy of the Pelvic Organs and Retroperitoneal Space. Topography of the Ureters and Pelvic Vessels. Medical and Genetic Counseling in Obstetrics. Course and Maintenance of Pregnancy in the First Trimester. Prenatal Care. Course and Maintenance of Pregnancy in the Third Trimester. Prenatal Care. Modern Principles of Physiological Labor (Signs of Readiness of the Body of a Pregnant Woman for Childbirth, Diagnosis Methods, Beginning and Nature of Labor). Preparatory Period. Course and Periodical Management of Labor. Prediction of Possible Complications. Risk Groups for Complicated Pregnancy and Childbirth. Preventive Healthcare at Antenatal Clinics. Preventive Healthcare for Complications in Physiological Childbirth. Habitual Noncarrying of Pregnancy. Pregnancy and Childbirth Management Tactics under Varying Degrees of Severity of Gestosis. Preterm Labor Management. Obstetric Hemorrhage. Thrombophilic Complications in Obstetrics. Postpartum Purulent-Septic Diseases (Causes, Pathogenesis, Clinic, Diagnosis, Treatment, Preventive Healthcare, Rehabilitation). Morphological and Functional Structure of the Female Reproductive System. Modern Research Methods in Gynecology. Echography Possibilities in Gynecology. Operational Organization in the Gynecological Hospital. Internal Endometriosis. External Genital Endometriosis. Hysteromyoma. Inflammatory Diseases of Female Genital Organs. Tubo-ovarian Abscess. Genital Chlamydia. Bacterial Vaginosis. Complications After Surgery on the Pelvic Organs (Peritonitis, Intestinal Obstruction, Intra-Abdominal Bleeding, Injuries to Adjacent Organs, etc.). Ectopic Pregnancy. Ovarian Apoplexy. Ovarian Torsion. Dysfunctional Uterine Bleeding in the Juvenile Period. Dysfunctional Uterine Bleeding in the Reproductive Period. Dysfunctional Uterine Bleeding in Premenopausal Women. Polycystic Ovarian Syndrome. Premenstrual Syndrome. Climacteric Syndrome. Post-castration Syndrome. Amenorrhea. Testicular Feminization Syndrome. Family Planning. Abortion in the 1st and 2nd Trimesters and its Consequences. Modern Assisted Reproductive Technologies. Genital Prolapse. Hormone Replacement Therapy in Gynecology. Types of Drugs. Indications, Contraindications. Complications. Dilated Cardiomyopathy, Modern Principles of Diagnosis. Hypertrophic Cardiomyopathy, Classification, Diagnosis. Restrictive Cardiomyopathy, Primary and Secondary, Diagnosis. Ischemic Heart Disease, Classification, Principles of Diagnosis. Diagnosis of Myocarditis, Etiologic Classification. Pulmonary Hypertension, Classification, Diagnosis. Modern Principles of Treatment of Patients with Primary Pulmonary Hypertension. Differential Diagnosis of Cardialgia. Atrial Fibrillation, Classification, Principles of Therapy. Acute Heart Failure, Diagnosis, Treatment. Diagnosis of Pulmonary Embolism. Chronic Heart Failure, Classification, Diagnosis. Modern Principles of Treatment of CHF Patients. Pericarditis, Classification, Diagnosis. What Diseases are Classified as Diffuse Connective Tissue Diseases. What are the Main Differences Between Rheumatoid Arthritis and Seronegative Spondylarthritis. What Factors can Provoke the Development of Systemic Lupus Erythematosus. What Immunological Markers are Detected in Systemic Lupus Erythematosus. What are the Main Groups of Drugs Used to Treat Systemic Lupus Erythematosus. What Organs and Systems are Most Often Affected By

Dermatomyositis. What Diseases are Included in the Seronegative Spondylarthritis Group. What Factors contribute to the Development of Osteoporosis. X-rays of what Joints should be Performed for the Diagnosis of Rheumatoid Arthritis. In which Joints Osteoarthritis Most Often Develops. What are the Main Causes of Reactive Arthritis. What is the Biochemical Indicator of Gout. What Drugs Can Contribute to the Development of an Acute Attack of Gout. What are the Typical Skin Manifestations of Systemic Lupus Erythematosus. Under What Disease does the Pouch Symptom Develop? Modern Concepts of Gastroesophageal Reflux Disease. Current Approaches to Gastritis Diagnosis. Importance of Helicobacter Pylori in the Pathogenesis of Acid-Dependent Diseases of the Stomach and Duodenum. Gallbladder Diseases and their Diagnosis. Chronic Pancreatitis in the Therapist's Understanding. Viral Chronic Liver Disease (Hepatitis B Virus). Viral Chronic Liver Disease (Hepatitis C Virus). Alcoholic Liver Disease. Non-alcoholic Fatty Liver Disease. Primary Biliary Cirrhosis. Primary Sclerosing Cholangitis. Crohn's Disease. UC. Irritable Bowel Syndrome. Diverticular Bowel Disease. What is the Most Common Cause of Iron Deficiency Anemia in Women of Childbearing Age. What is the Most Common Cause of Iron Deficiency Anemia in Men. What is the Tactics of Treatment of Patients with Iron Deficiency Anemia. Result What Causes Occurs Hypochromic Nature of Anaemia. What are the Main Clinical Signs of Intravascular Hemolysis. What are the Main Clinical Signs of Intracellular Hemolysis. What are the Main Laboratory Signs of Hemolysis. What are the Main Reasons for the Development of Symptomatic Autoimmune Hemolytic Anemia. Autoimmune Thrombocytopenia: Pathogenesis, Clinical Symptoms, Modern Principles of Treatment. What are the Main Clinical Manifestations of Acute Leukemia and their Modern Laboratory Diagnosis. Multiple Myeloma – Clinical Features, Diagnosis and Principles of Treatment. Hodgkin's Lymphoma – Clinical Features, Diagnosis and Principles of Treatment. Megaloblastic Anemia (B12 –Deficiency) – Causes, Diagnosis and Treatment. Hemophilia-Pathogenesis, Clinical Manifestations, Diagnosis, Modern Principles of Treatment. Modern Types of Direct Anticoagulants. Modern Classification of Pneumonia. Introduction of Patients with Community-Acquired Pneumonia in Outpatient Settings. Principles of Treatment of Patients with Pneumonia. Risk Factors for Chronic Obstructive Pulmonary Disease. Necessary Instrumental and Laboratory Methods for the Diagnosis of Chronic Obstructive Pulmonary Disease. Treatment of Patients with Stable COPD. Modern Approach to the Diagnosis of Bronchial Asthma. Modern Understanding of Interstitial Lung Disease. Principles of Treatment of Chronic Glomerulonephritis. Algorithm of Examination of a Patient with Chest Pain. Dysphagia Syndrome. Choice of Surgery for Esophageal Cancer. Surgical Treatment of Gastroesophageal Reflux Disease. Diagnostic Algorithm for the Formation of Palpable Mammary Gland. Methods of Treatment of Breast Cancer. Differential Diagnosis of Palpable Neck Masses. Differential Diagnosis of Mass Lesions of the Thyroid Gland. Modern Methods of Treatment of Peritonitis. Abdominal Sepsis: Definition, Diagnosis. Abdominal Sepsis: Choice of Treatment. Extraabdominal Causes of Abdominal Pain. Modern Methods of Treatment of Pancreonecrosis. Diagnosis and Treatment of Acute Cholecystitis. Differential Diagnosis of Ascites. Differential Diagnosis of Upper Gastrointestinal Bleeding. Indications for Surgical Treatment of Bleeding Ulcers of the Stomach and Duodenum. Selection of the Method of Surgery for Bleeding from Gastric and Duodenal Ulcers. Algorithm of Examination of a Patient with Bleeding from the Lower Gastrointestinal Tract. Management of Treatment of Patients with Bleeding from Esophageal Varicose Veins. Differential Diagnosis of Portal Hypertension. Selection of the method of surgery for portal hypertension. Diagnosis and Treatment of Cholangitis. Differential Diagnosis of Jaundice.

Treatment of Patients with Obstructive Jaundice as a Consequence of Cholelithiasis. Diagnosis and Treatment of Pancreatic Cancer. Choice of Treatment of Pleural Empyema. Treatment of Lung Abscesses. Choice of Treatment of Cysts of the Pancreas. Minimally Invasive Endoscopic Technology in the Treatment of Tumors of the Esophagus and Stomach. Minimally Invasive Endoscopic Technologies in the Treatment of Diseases of the Liver, Pancreas. Differential Diagnosis of Focal Liver Lesions. Adhesive Disease: Clinic, Diagnosis and Choice of Treatment. Tactics of Treatment for Obturative Colonic Obstruction. Differential Diagnosis and Choice of Treatment of Stenosis of the Output Division of Stomach. Selection of the Method of Surgery for Gastric Cancer. Arterial Ischemia Syndrome. Differential Diagnosis of Pain in the Legs. Tactics of Treatment for Obliterating Diseases of the Arteries of the Lower Extremities. Aneurysms of the Abdominal Aorta: Definition, Diagnosis, Indications for Surgical Treatment. Vasorenal Hypertension. Modern Methods of Treatment of Varicose Veins of the Lower Extremities. Deep vein thrombosis of the lower extremities: Clinic, Diagnostics, Methods of Treatment. Preventive Healthcare Methods for Pulmonary Embolism. Differential Diagnosis of Anorectal Disease.

### **Recommended literature:**

1. Obstetrics [Electronic resource]: National Guideline / [V. V. Avrutskaya et al.]; sec. ed. E. Aylamazyan [et al.]. – Moscow: GEOTAR-Media, 2013.
2. Gynecology [Electronic resource]: National Guideline.: short ed. / ed. G. M. Savelyeva [et al.]. – Moscow: GEOTAR-Media, 2013. – 704 p.: il.
3. Hacker, N. Obstetrics and Gynecology [Electronic resource]: text illustrations / Neville F. Hacker, Joseph C. Gambon, Calvin J. Hobel; translated from English under the editorship of E. Ailamazyan. – Moscow: GEOTAR-Media, 2012.
4. Gynecology [Text]: [Textbook for higher vocational education] / [B. Baisova, D. Bizhanova, V. Breusenko et. al.]; under the editorship of G. Savelyeva, V. Breusenko. – 4th ed., updated and revised – Moscow: GEOTAR-Media, 2012
5. Savelyev, G. Hysteroscopy [Electronic resource]: Atlas and Guidelines / G. Savelyeva, V. Breusenko, L. Kapushev. – Moscow: GEOTAR-Media, 2014. – 243 p.: il.
6. Internal Medicine [Text]: [Textbook for higher vocational education]: in 2 t. / [R. Abdulkhakov, D. T. Abdurakhmanov, V. Avdeev et al.]; ed. V. Moiseeva, K. Martynov, N. Mukhina. – 3rd ed., updated and revised Vol.1. – Moscow: GEOTAR-Media, 2012.
7. Makolkin, K. Internal Medicine [Electronic resource]: [Textbook for higher vocational education] / K. Makolkin, S. Ovcharenko, A. Sulimov. – 6th ed., updated and revised – Moscow: GEOTAR-Media, 2013. - 765 p.: il.
8. Storozhakov, G. K. Outpatient Therapy [Electronic resource]: [Textbook for higher vocational education] / K. Storozhakov, I. K. Chukaeva, A. Alexandrov. – 2nd ed., updated and revised – Moscow: GEOTAR-Media, 2013. – 636 p.: il.
9. Surgical Diseases [Electronic resource]: Textbook: in 2 vol. Vol. 1 / ed. S. Savelieva, K. Kiriyenko. – 2nd ed. – Moscow: GEOTAR-Media, 2014. – 719 p.: il.
10. Clinical Surgery [Electronic resource]: National Guideline.: in 3 vol. Vol. 2 / [A. Shulutko et al.]; ed. S. Savelieva, K. Kiriyenko. – Moscow: GEOTAR-Media, 2013. – 825 p.: il. – URL: <http://marc.rsmu.ru:8020/marcweb2/Default.asp>.
11. Vascular Surgery According to Haimovich [Electronic resource]: [guide: in 2 vol.] Vol. 1 / ed. E. Asher; translated from English. ed. V. Pokrovsky. – Moscow: BINOM. Laboratoriya Znaniy, 2012. – 534 p.
12. Surgical Diseases: [Textbook for higher vocational education]: in 2 vol. Vol. 1 / N. Merzlikin, N. Brazhnikova, B. Alperovich, V. Yu. Tshai. – Moscow: GEOTAR-Media, 2012.

13. Acute Abdominal Pathology [Electronic resource]: Translated from English. / [D. Klain et al]; ed. by D. Klain, L. Sted. – 3rd ed. (el.) – Moscow: BINOM. Laboratoriya Znaniy, 2014. – 296 p. – (Emergency Medicine).

**Internet resources:**

[http://www.iss-sic.ch/w\\_journal.htm](http://www.iss-sic.ch/w_journal.htm)

<http://americanjournalofsurgery.com/>

<http://www.annalsofvascularsurgery.com/>

<http://archsurg.ama-assn.org/>

[http://www.iss-sic.ch/w\\_journal.htm](http://www.iss-sic.ch/w_journal.htm)

<http://www.thelancet.com>