

## Self-study topics 3rd year general medicine

### Cardiology

Coronary artery disease, chronic forms  
Acute coronary syndrome  
Complications of acute myocardial infarction  
Heart failure: pathogenesis, clinical forms, diagnosis  
Heart failure: pharmacotherapy  
Heart failure: non-pharmacological treatment  
Atrial fibrillation and Supraventricular tachyarrhythmias  
Ventricular arrhythmias  
Bradyarrhythmias  
Sudden cardiac death  
Cardiopulmonary resuscitation  
Essential arterial hypertension  
Cardiovascular prevention  
Pulmonary embolism  
Infective endocarditis  
Aortic dissection  
Aortic stenosis  
Mitral insufficiency  
Secondary arterial hypertension  
Dilated and hypertrophic cardiomyopathy  
Pericardial disease  
Valvular heart disease (excluding aortic stenosis and mitral insufficiency)  
Critical limb ischemia  
Peripheral artery disease, chronic forms  
Deep vein thrombosis and superficial thrombophlebitis  
Chronic venous insufficiency  
Raynaud's phenomenon and other vasomotor disorders  
Aortic aneurysm

## **Pneumology**

Bronchial asthma

Small-cell lung cancer

Non-small-cell lung cancer

Pleural effusion, pleuritis, empyema

Approach to patient with cough

Respiratory failure

Interstitial lung diseases

Chronic obstructive pulmonary disease

Tuberculosis

Pneumonia

Pneumothorax

Cystic fibrosis in adults

Pulmonary function testing (obstruction, restriction, hyperinflation, gas transfer)

Pulmonary heart disease and pulmonary hypertension (primary, secondary)

Eosinophilic lung diseases

Sarcoidosis

Hypersensitivity pneumonitis

Pneumoconiosis (coal workers, silicosis, asbestosis)

Tracheitis, bronchitis, and bronchiolitis

Bronchiectasis and pulmonary abscess

## **Nephrology**

Pathologic findings in urine tests; proteinuria/hematuria; nephrotic syndrome

Acute kidney injury; causes, diagnosis, treatment

Methods of assessing renal function

Chronic kidney disease (CKD); definition, CKD classification, clinical picture

Rapidly progressive glomerulonephritis

Acute and chronic tubulointerstitial non-infectious nephritis

Urinary tract infections – acute and chronic

Renal replacement therapy – dialysis; principles, modalities

Drug-induced nephrotoxicity; drug dosing in renal impairment

Native kidney biopsy; indications, contraindications, pre-biopsy evaluation, interpretation

Symptoms and signs of kidney diseases

Pathologic findings in urine tests; proteinuria/hematuria; nephrotic syndrome

Acute kidney injury; causes, diagnosis, treatment

Methods of assessing renal function

Chronic kidney disease (CKD); definition, CKD classification, clinical picture

Rapidly progressive glomerulonephritis

Acute and chronic tubulointerstitial non-infectious nephritis

Urinary tract infections – acute and chronic

Renal replacement therapy – dialysis; principles, modalities

Native kidney biopsy; indications, contraindications, pre-biopsy evaluation, interpretation

Pathologic findings in urine tests; proteinuria/hematuria; nephrotic syndrome

Acute kidney injury; causes, diagnosis, treatment

Methods of assessing renal function

Chronic kidney disease (CKD); definition, CKD classification, clinical picture

Rapidly progressive glomerulonephritis

Acute and chronic tubulointerstitial non-infectious nephritis

Urinary tract infections – acute and chronic

Renal replacement therapy – dialysis; principles, modalities

Drug-induced nephrotoxicity; drug dosing in renal impairment

Native kidney biopsy; indications, contraindications, pre-biopsy evaluation, interpretation

**Recommended reading:**

**Textbooks:**

Oxford Handbook of Internal medicine

Kumar and Clark's Clinical Medicine

**On-line:**

<https://reference.medscape.com/>

[http://www.wikidoc.org/index.php/Main\\_Page](http://www.wikidoc.org/index.php/Main_Page)