

## **Preparations with influence on the respiratory system and antiallergic medication**

1. Determine the indications for antitussive drugs.
2. Determine the pharmacodynamic effects of acetylcysteine.
3. Determine beta-adrenomimetics as bronchodilators by duration of action.
4. Determine the therapeutic effects of beta-adrenomimetics in bronchial asthma.
5. Determine the side effects of inhaled beta-adrenomimetics.
6. Determine M-cholinoblockers as ultralong-acting bronchodilators.
7. Determine the therapeutic effects of M-cholinoblockers in bronchial asthma.
8. Determine the indications of M-cholinoblockers as bronchodilators.
9. Determine the inhaled glucocorticoids used in bronchial asthma.
10. Determine the therapeutic effects of glucocorticoids in bronchial asthma.
11. Determine the side effects of inhaled glucocorticoids as bronchodilators.
12. Determine the therapeutic effects of methylxanthines in bronchial asthma.
13. Determine the adverse reactions of methylxanthines as a function of concentration.
14. Determine the indications of methylxanthines.
15. Determine the antiallergic drugs used in anaphylactic shock.
16. Determine the effects of H1-antihistamines of the III-rd generation.
17. Determine H1-antihistamines of the II-rd generation.
18. Determine the pharmacodynamic effects of H1-antihistamines of the first generation.
19. Determine the indications of H1-antihistamines with antiallergic purpose.
20. Determine the side effects of H1-antihistamines.
21. Determine the effects of epinephrine in anaphylactic shock.
22. Determine the effects of glucocorticoids as antiallergic.
23. Determine the indications of glucocorticoids as antiallergic.
24. Determine the indications of mast cell degranulation inhibitors.
25. Determine the drugs used in asthma attacks.

## **Preparations with an influence on the cardiovascular system and diuretics**

2. Determine the particularity or particularities of the antiarrhythmic effect of drugs from group 1A
3. Determine the particularity or particularities of the antiarrhythmic effect of drugs from group 1B
4. Determine the indication or indications of antiarrhythmic drugs from group 1B
5. Determine the particularity or particularities of the antiarrhythmic effect of beta-adrenoblockers
6. Determine the particularity or particularities of the antiarrhythmic effect of calcium channel blockers
7. Determine the particularity or particularities of the antiarrhythmic effect of amiodarone
8. Determine the side effects of amiodarone
9. Determine the effects of cardiac glycosides on the heart
10. Determine the electrocardiographic changes induced by therapeutic doses of cardiac glycosides
11. Determine the clinical picture of poisoning with cardiac glycosides
12. Determine the drugs used in cardiac glycoside poisoning
12. Determine the pharmacokinetic characteristics of digoxin
13. Determine the pharmacokinetic features of strophanthin
14. Determine the peculiarities of the antianginal effect of nitrates at the systemic level
15. Determine the adverse reactions of nitrates
16. Determine the peculiarities of the antianginal effect of beta-adrenoblockers
17. Determine the peculiarities of the antianginal effect of calcium channel blockers
18. Determine the drugs used in attacks of angina pectoris

19. Determine direct-acting factor Xa antagonist anticoagulants
20. Determine the antiplatelet drugs
21. Determine the clinical effects characteristic for standard heparin
22. Determine the peculiarities of the anticoagulant effect of low molecular weight heparins
23. Determine the particularities of the antiplatelet effect of acetylsalicylic acid
24. Determine the laboratory investigations necessary to evaluate the effectiveness of heparin
25. Determine the laboratory investigations necessary to evaluate the effectiveness of indirect anticoagulants
26. Determine the direct anticoagulant thrombin antagonist
27. Determine the indications of fibrinolytics with indirect action
28. Determine the adverse reactions of standard heparin
29. Determine the indications of synthetic antifibrinolytics
30. Determine the peculiarities of the hemostatic effect of vitamin K agents
31. Determine the groups of neurotropic antihypertensive drugs
32. Determine the antihypertensive drugs with influence on the renin-angiotensin- aldosterone system
33. Determine the indications of centrally acting alpha-2-adrenomimetics and imidazoline receptor agonists
34. Determine the peculiarities of the antihypertensive effect of beta- adrenoblockers
35. Determine the peculiarities of the antihypertensive effect of calcium channel blockers
36. Determine the peculiarities of the antihypertensive effect of angiotensine converting enzyme inhibitors
37. Determine the effects of angiotensine converting enzyme inhibitors
38. Determine the side effects of angiotensine converting enzyme inhibitors
39. Determine the specifics of the antihypertensive effect of angiotensin receptor blockers
40. Determine the drugs used in emergencies and hypertensive crises
41. Determine the particularities of use of alpha-adrenomimetics as antihypotensive agents
42. Determine the specifics of use of alpha-beta-adrenomimetics as antihypotensives
43. Determine the pharmacodynamic peculiarities of dopaminomimetics
44. Determine the indications of dopaminomimetics
45. Determine the pharmacodynamic effects of isothioureia derivatives as antihypotensives
46. Determine the peculiarities of the antihypotensive action of glucocorticoids
47. Determine the drugs used in hypotonic arterial hypotension
48. Determine the drugs used in hypertension-type arterial hypotension
49. Determine the peculiarities of action of loop diuretics
50. Determine the indications for loop diuretics
51. Determine the adverse reactions of loop diuretics
52. Determine the peculiarities of action of thiazide and non-thiazide diuretics
53. Determine the particularities of action of diuretics of competitive antagonists of aldosterone
54. Determine the peculiarities of the antihypertensive effect of diuretics
55. Determine the pharmacodynamic effects of dextrans 40,70.

#### **Preparations with influence on the Digestive system**

1. Determine the correct statements about dosage principles of pancreatic enzyme preparations.
2. Determine the efficacy criteria of pancreatic enzyme preparations.
3. Determine the particularities of the antiulcer effect of H<sub>2</sub>-histamine blockers.
4. Determine the side effects of H<sub>2</sub>-histamine blockers.
5. Determine the manifestations of the antiulcer effect of proton pump inhibitors.
6. Determine the side effects of proton pump inhibitors.
7. Determine the possible consequences of marked inhibition of gastric secretion by proton

pumpinhibitors.

8. Determine the beneficial effects of prostaglandin analogues as antiulcer remedies.
9. Determine the advantages of combining magnesium and aluminum compounds as antacids.
10. Explain mechanism of NSAIDs-related ulcers.
11. Determine the effects of dopamine-blocking and serotonergic prokinetics.
12. Determine the indications for prokinetics.
13. Determine the mechanisms of action of activated charcoal as an antifatulent.
14. Determine the indications for bulk laxatives.
15. Determine the indications for laxatives by softening the stool.
16. Determine the indications for osmotic purgatives.
17. Determine the indications for irritating purgatives with action on the large intestine.
18. Determine the specific indication of serotonin antagonists as antivomitives.
19. Determine the antiemetics recommended for the treatment of patients with nausea secondary to vertigo or motion sickness.
20. Determine the antiemetics that can increase the duration of the QT interval and carry the risk of cardiotoxic reactions:
21. Determine the particularities of the antidiarrheal effect of opioids.
22. Select the correct statement about loperamide therapeutic use.
23. How do antacids affect drug absorption?
24. Select characteristics of the secretory effect of pump inhibitors.
25. Determine the advantages of clinical use of silymarin.
26. Name central nervous system adverse effects of metoclopramide.
27. Determine the advantages of clinical use of ademetionine.
28. Determine particularities of cholelitholytic agents.
29. Determine the advantages of clinical use of ursodeoxycholic acid.
30. Determine the pharmacodynamic peculiarities of antifatulent remedies.

### **Analgesic and anti-inflammatory preparations**

1. Select the correct statement about selective nonsteroidal anti-inflammatory drugs.
2. Select the pharmacological effects of NSAIDs.
3. Select the correct statements about the anti-inflammatory effect of glucocorticoids.
4. Select the indications of NSAIDs.
5. Select the non-steroidal anti-inflammatory drug that selectively inhibits COX-1.
6. Select side effects of NSAIDs.
7. Select the clinical effects on CNS of opioid analgesics.
8. Select the indications of opioid analgesics.
9. Select the effects of opioid analgesics on the digestive and urinary tract
10. Select the effects of opioid analgesics on the respiratory and cardiovascular systems
11. Select the correct statement about opioid tolerance.
12. Select the particularities of the analgesic effect of paracetamol.
13. Select the particularities of the analgesic effect of tramadol.
14. Select cardiovascular side effects of NSAIDs.
15. Name the unwanted effects of NSAIDs in pregnancy.

### **Hormonal preparations of the thyroid gland, antidiabetics and glucocorticoids**

1. Why is liothyronine not recommended for routine replacement therapy?
2. Determine the signs of levothyroxine toxicity.
3. Determine the dosing principles of levothyroxine.
4. Determine the pharmacokinetic peculiarities of thyroid preparations:
5. Select clinical situations when propylthiouracil is more advantageous than other thioamides.
6. Determine the side effects of antithyroid thioamides:

7. Highlight the disadvantages of therapy with iodine preparations as antithyroid remedies:
8. Determine the correct statement about prandial insulins.
9. Determine the correct statement about basal insulins.
10. Determine the clinical manifestations of hypoglycemia in case of insulin overdose:
11. Determine the dosing principles of insulin preparations:
12. Determine the particularities of the hypoglycemic effect of biguanides:
13. Safety concerns and side effects of thiazolidinediones are:
14. Determine the particularities of the hypoglycemic effect of GLP-1 receptor agonists:
15. Determine side effects of sodium-glucose cotransporter-2 inhibitors:
16. Name glucocorticoids with salt-retaining effects.
17. Determine the characteristics of the non-genomic mechanism of action of glucocorticoids:
18. Determine the glucocorticoid with the most marked non-genomic mechanism of action:
19. Determine the metabolic effects of glucocorticoids:
20. Determine the adverse reactions of glucocorticoids.

### **Antibiotics and Chemotherapeutics of diverse chemical structure**

1. Determine the peculiarities of the spectrum of action of semisynthetic aminopenicillins.
2. Determine the characteristic side effects of penicillins.
3. Determine the V-th generation of cephalosporins.
4. Determine the peculiarities of the spectrum of action of cephalosporins of the II generation.
5. Determine the peculiarities of the spectrum of action of cephalosporins of the IV generation.
6. Determine the adverse effects of cephalosporins.
7. Determine the peculiarities of the spectrum of action of aminoglycosides.
8. Determine the characteristic adverse reactions of aminoglycosides.
9. Determine the pharmacokinetic peculiarities of aminoglycosides.
10. Determine the peculiarities of the action spectrum of glycopeptides.
11. Determine the characteristic adverse reactions of tetracyclines.
12. Determine the peculiarities of the spectrum of action of polymyxins.
13. Determine the characteristic adverse reactions of polymyxins.
14. Determine the characteristic adverse reaction of lincosamides.
15. Determine the most rational combination of antibiotic groups.
16. Determine the specific indication or indications of nitroimidazole derivatives.
17. Determine the antimicrobial groups of choice in the treatment of Bac.fragilis infection.
18. Determine the composition of combined systemic sulfonamides.
19. Determine the indication or indications of sulfonamides azocompounds.
20. Determine the adverse reactions of sulfonamides.
21. Determine the peculiarities of the spectrum of action of fluoroquinolones.
22. Determine the characteristic side effects of fluoroquinolones.
23. Determine the peculiarities of the spectrum of action of oxazolidinediones.
24. Determine the specific indications for second-generation tetracyclines.
25. Determine the reserve group antibiotics according to the WHO AWaRe classification.
26. Determine the drug of choice in the treatment of pseudomembranous colitis.
27. Determine the adverse reactions characteristic of oxazolidinediones.
28. Determine which antibiotics are assigned to the dose-dependent group.
29. Determine which antibiotics are assigned to the time-dependent group.
30. Determine antibiotics that manifest post-antibiotic (cumulative) action.

### **Preparations with influence on the CNS**

1. Determine the groups of sedative drugs.
2. Determine the indication or indications of sedative drugs.

3. Determine long-acting anxiolytic or anxiolytics.
4. Determine the pharmacodynamic effects of anxiolytics.
5. Determine the indications of anxiolytics.
6. Determine the side effects of anxiolytics.
7. Determine groups of antipsychotics (neuroleptics) according to the clinical spectrum.
8. Determine the peculiarities of the mechanism of action of antipsychotics.
9. Determine the manifestations of the psychosedative effect of antipsychotics.
10. Determine the manifestations of the antipsychotic effect of antipsychotics.
11. Determine the indications of antipsychotics in psychiatry.
12. Determine the CNS side effects of antipsychotics.
13. Determine endocrine side effects of antipsychotics.
14. Determine cardiovascular side effects of antipsychotics.
15. Determine the clinical manifestations of the antidepressant effect of antidepressant drugs.
16. Determine the pharmacodynamic effects of antidepressants.
17. Determine the indications of nootropic drugs.
18. Determine the adverse reactions of CNS stimulants from the group of phenylalkylamines.
19. Determine the indications of CNS stimulants from the group of methylxanthines.
20. Determine the vegetative effects of antipsychotics.
21. Determine the symptoms of neuroleptic malignant syndrome.
22. Determine the anxiolytics used as antidepressants.
23. Determine the contraindications of anxiolytics.
24. Determine the indications of the lithium salts.
25. What are the causes of serotonin syndrome?