

BOARD EXAM TOPIC LIST – PHARMACOLOGY 2018

1. Characterization of drug – receptor binding. Dose – response curves.
2. Targets for drug action and the role of signal transduction pathways, agonist and antagonist effects.
3. Absorption, distribution, accumulation, metabolism and elimination of drugs. Typical blood concentration curves.
4. Factors influencing the drug effect. Adverse effects and drug interactions.
5. Parasympathomimetics and parasympatholytics. Drug therapy of urinary incontinence.
6. Sympathomimetic and sympatholytic drugs.
7. Local anesthetics.
8. Skeletal muscle relaxants and spasmolytic drugs.
9. General anesthetics and perioperative medication.
10. Sedative and hypnotic drugs, anxiolytics. Drug therapy of anxiety and sleeping disorders.
11. Opioid analgesics. Practical aspects of analgesia.
12. Antipsychotic drugs. Drug therapy of schizophrenia.
13. Antidepressants and mood-stabilizing drugs.
14. Drugs of abuse and drug dependence.
15. Antiepileptics.
16. Drugs applied in neurodegenerative disorders. Drug therapy of Parkinson's disease.
17. Drug therapy of headaches.
18. Non-steroidal antiinflammatory drugs and drugs used in gout.
19. Drugs used in rheumatoid arthritis.
20. Antihistamines and the pharmacotherapy of allergic rhinitis.
21. Drugs applied in chronic heart failure, therapeutic principles.
22. Antidysrhythmic drugs.
23. Antihypertensive drugs, therapeutic principles.
24. Drugs used in ischemic heart disease, therapeutic principles.
25. Antidyslipidemic drugs.

26. Diuretics and their clinical uses.
27. Drugs used in the treatment of bronchial asthma and COPD, therapeutic principles.
28. Anticoagulants. Drug therapy of deep vein thrombosis.
29. Antithrombotic and fibrinolytic drugs.
30. Retinoids. Drug therapy of acne.
31. Water soluble vitamins. Drugs affecting the hemopoietic system.
32. Drugs used in peptic ulcer and GERD, therapeutic principles.
33. Laxatives and antidiarrheal drugs. Therapy of constipation and diarrhea.
34. Antiemetic and prokinetic drugs and the principles of their therapeutic uses.
35. Pharmacology of female sex hormones. Contraceptives.
36. Pharmacology of male sex hormones. Drug therapy of benign prostate hyperplasia and erectile dysfunction.
37. Drugs that affect calcium and bone metabolism. Drug therapy of osteoporosis.
38. Drugs affecting carbohydrate metabolism, therapy of diabetes mellitus.
39. Corticosteroids and their systemic and topical administrations.
40. Drugs affecting the pituitary and thyroid.
41. Protein synthesis inhibitor antibacterial drugs. Antimycobacterial drugs.
42. Cell wall synthesis inhibitor antibacterial drugs. Therapeutic principles of community acquired respiratory tract infections.
43. Nucleic acid synthesis inhibitor antibacterial drugs. Therapeutic principles of community acquired urinary tract infections.
44. Drugs used in herpes and influenza virus infections.
45. Antiretroviral drugs.
46. Antifungal drugs. Therapy of fungal skin infections.
47. Immunosuppressants, drugs used in organ transplantation.
48. Antiprotozoal and anthelmintic drugs.
49. Cytotoxic anticancer drugs.
50. Cytostatic anticancer drugs.

Mechanism of action, indications, side effects, interactions and clinical uses of the specific drugs should be mentioned. Use the druglists. In addition to Pharmacology and toxicology the exam also covers the subjects of Basic medical pathophysiology and Drug therapy.