General medicine

General Pharmacology

- 1. What is pharmacology. Subdivisions of pharmacology.
- 2. Historical development of pharmacology. Drug names.
- 3. Basic principles of pharmacokinetics: Mechanisms of drug passage across the membranes.
- 4. Bioavailability. Factors influencing bioavailability.
- 5. Routes of drug administration enteral administration
- 6. Routes of drug administration parenteral administration
- 7. Absorption of drugs.
- 8. Distribution of drugs.
- 9. Drug metabolism.
- 10. Drug excretion.
- 11. Changes of drug action after repeated application (accummulation, tolerance, tachyphylaxis)
- 12. How drugs act; Receptors definition and principles of action
- 13. Harmful effects of drugs. Therapeutic index.
- 14. Drug allergy.
- 15. Drug abuse and dependence.
- 16. Effects of age, sex and disease on drug disposition.
- 17. Genetic factors influencing drug action.
- 18. Drug interactions.
- 19. Specific and non-specific therapy of intoxications.
- 20. Discovery of drugs. Evaluation of drugs.

Special Pharmacology

- 1. Basic principles in peripheral neurotransmission.
- 2. Pharmacological effects of adrenergic neurotransmitters.
- 3. Drugs affecting adrenergic neurotrasmission. Adrenergic agonists
- 4. (sympathomimetics).
- 5. Adrenergic antagonists (sympatholytics).
- 6. Acetylcholine as a cholinergic neurotransmitter.
- 7. Cholinergic agonists (parasympathomimetics).
- 8. Cholinergic antagonists (parasympatholytics).
- 9. Ganglionic blocking agents and peripheral myorelaxants.
- 10. Basic principles in CNS neurotransmission.
- 11. Classical (typical) antipsychotic drugs
- 12. Atypical antipsychotic drugs.
- 13. Antidepressants.
- 14. Antianxiety and hypnotic drugs.
- 15. Stimulants of CNS.
- 16. Antiepileptics.
- 17. Antiparkinsonics.
- 18. Analgesic and antipyretic drugs.
- 19. Nonsteroidal antiinflammatory drugs.
- 20. Dugs used to treat gout and rheumatoid arthritis.

- 21. Opioid analgesics.
- 22. Symptoms and therapy of opioid analgesic poisoning
- 23. Local anaesthetics.
- 24. General anaesthetics.
- 25. Cardiac glycosides.
- 26. Antianginal drugs.
- 27. Antidysrhythmic drugs.
- 28. Diuretics.
- 29. Antihypertensive drugs.
- 30. Lipid-lowering drugs.
- 31. Antitussives
- 32. Antiasthmatics with bronchodilatory effect
- 33. Antiasthmatics with anti-inflammatory effect
- 34. Drugs used to treat gastric ulcer.
- 35. Laxatives.
- 36. Antidiarrhoeal drugs
- 37. Mechanism of action of antibiotics, resistance, classification.
- 38. Natural (classic) penicillins.
- 39. Penicillins with broader spectrum.
- 40. Cephalosporins.
- 41. Aminoglycosides. Glycopeptides.
- 42. Tetracyclines and chloramphenicol.
- 43. Macrolides, lincosamides.
- 44. Sulphonamides and quinolones.
- 45. Antimycobacterial agents.
- 46. Antiviral drugs
- 47. Antifungal drugs.
- 48. Antiprotozoal and antihelmintic drugs.
- 49. Drugs used in the treatment of neoplastic diseases (classification, adverse reactions).
- 50. Drugs used for the treatment of neoplastic diseases alkylating agents, antimetabolites
- 51. Drugs used for the treatment of neoplastic diseases anticancer antibiotics, alkaloids
- 52. Drugs used for the treatment of neoplastic diseases biological and hormonal treatment.
- 53. Immunosupressants and immunomodulators.
- 54. Histamine-antihistaminics. Antiserotonic drugs. Antivomiting drugs.
- 55. Drugs used to treat thyroid gland dysfunction.
- 56. Female sex hormones, oral contraceptives.
- 57. Male sex hormones, anabolics
- 58. Glucocorticosteroids and mineralocorticosteroids.
- 59. Insulin and its analogues.
- 60. Oral antidiabetic drugs.
- 61. Anticoagulants.
- 62. Antiaggregatory drugs.
- 63. Fibrinolytics, antianaemic drugs.