

Learning Objectives in pathophysiology
For students of the Faculty of Pharmacy
Pharmacy 2

1. Pathology of erythropoiesis
2. Changes in the shape and size of erythrocytes. their degenerate forms
3. Changes in circulating blood volume and hematocrit
4. Pathogenesis of hypovolemia
5. Pathogenesis of hypervolemia
6. Erythrocytosis
7. Anemias. Principles of their classification
8. Posthemorrhagic anemia
9. Hemolytic anemias
10. Iron deficiency anemias
11. B12 vitamin deficiency anemia
12. Hypo and aplastic anemias
13. Quantitative and qualitative changes of leukocytes
14. Changes in the leukocyte formula
15. Leukocytosis
16. Leukemias
17. Leukopenia
18. Slowing down blood clotting
19. Increased blood clotting
20. Mechanism of Erythrocyte sedimentation rate changes
21. Forms of heart failure
22. Mechanism of heart failure developed due to overload
23. Mechanism of heart failure developed due to myocardial damage

24. Cardiosclerosis
25. Compensatory mechanisms during heart failure
26. Peculiarities of hypertrophied myocardium
27. Clinical manifestations of heart failure and principles of treatment
28. Forms of heart rhythm disorders
29. Arrhythmias developed as a result of violation of automaticity
30. Extrasystolic arrhythmia
31. Arrhythmias developed as a result of conduction disturbances
32. Flashing arrhythmia
33. Vascular failure
34. Violation of nervous regulation of vascular tone
35. Violation of vascular humoral regulation
36. Pathogenesis of hypertensive disease
37. Etiology of hypertensive disease
38. Arterial hypotension
39. Atherosclerotic damage of vascular walls
40. Pathogenesis of atherosclerosis
41. Failure of external breathing
42. Violation of lung ventilation
43. Forms of pulmonary ventilation disorders
44. Violation of lung perfusion
45. Disturbance of diffusion in lungs
46. Changes in the act of breathing
47. Shortness of breath
48. Etiology of ulcer disease
49. Pathogenesis of ulcer disease
50. Pancreatic dysfunction
51. Indigestion in the intestines
52. Constipation, forms of constipation

53. Violation of the protective function of the liver
54. Forms of Jaundice
55. Pathological components of urine
56. Etiology and pathogenesis of endocrine disorders
57. Hypothyroidism
58. Hyperthyroidism
59. Pain. Antinociceptive system
60. Neuroses. their pathogenesis