I. General Pathology

- 1. Biopsy: techniques of obtaining tissue samples, various kindsŤ of bioptical specimens, tissue processing, frozen sections
- 2. Cytology: techniques of obtaining tissue samples, variousŤ kinds of cytological specimens
- 3. Autopsy, its importance, the autopsy protocol and its parts
- 4. Histological methods, stainings, light and electron microscopy, histochemistry, immunohistochemistry and other special techniques
- 5. Disease and its causes
- 6. Death and postmortal changes
- 7. Necrosis types, causes and further evolution
- 8. Atrophy types, causes and further evolution
- 9. Intracellular accumulations of lipids, proteins andŤ carbohydrates, single-gene inborn disorders
- 10. Amyloidosis
- 11. Pigments and pigmentations
- 12. Icterus
- 13. Pathologic calcifications, stones
- 14. Pathology of nutrition
- 15. Hypertrophy, hyperplasia
- 16. Regeneration, reparation
- 17. Metaplasia, dysplasia
- 18. Edema
- 19. Hyperemia, venostasis
- 20. Focal disorders of blood supply, ischemia, infarction
- 21. Haemorrhage
- 22. Thrombosis incl. DIC
- 23. Embolisation, metastasis
- 24. Shock
- 25. Heart failure types, causes, complications
- 26. Causes of inflammation
- 27. Pathophysiology of inflammation
- 28. Inflammation microscopic and macroscopic changes
- 29. Classification and morphologic patterns of inflammation
- 30. Specific granulomatous inflammation and its examples (leprosy, Ť sarcoidosis, rhinoscleroma, etc.)
- 31. Tuberculosis: general morphology
- 32. Tuberculosis: preimmune type
- 33. Tuberculosis: organ tuberculosis of adult type
- 34. Syphilis
- 35. Immune system and its functions
- 36. Immune reactions
- 37. Transplantation
- 38. Primary and secondary immunodeficiency
- 39. Autoimmune diseases
- 40. HIV, AIDS
- 41. Mechanisms of bacteria and virus-induced injury
- 42. Bacteriemia, sepsis, pyemia
- 43. Skin infections
- 44. Respiratory system infections
- 45. Gastrointestinal system infections
- 46. Genitourinary system infections
- 47. Nervous system infections
- 48. Staphylococcal infections

- 49. Streptococcal infections
- 50. Infectious hepatitis
- 51. Environmental pollution
- 52. Injury by physical agents
- 53. Injury by chemical agents

II. Oncology

- 1. Definitions, preneoplastic lesions, pseudotumors
- 2. Classification of tumors
- 3. Structure, growth of tumorsŤ
- 4. Invasion and metastases
- 5. Characteristics of benign and malignant tumors
- 6. Carcinoma in situ
- 7. Carcinogenesis, etiology of tumors
- 8. Effects of tumor on host
- 9. Grading and staging of tumors, tumor prognosis
- 10. Fibroma, myxoma, lipoma, angioma (+ sarcomas)
- 11. Chondroma, chordoma, osteoma (+sarcomas)
- 12. Leiomyoma, leiomyosarcoma, rhabdomyoma, rhabdomyosarcoma
- 13. Hemoblastoses, myeloproliferative syndrome
- 14. Hodgkinřs disease
- 15. Non-Hodgkin malignant lymphomas Kiel classification
- 16. Tumors of the squamous stratified epithelium
- 17. Tumors of transitional epithelium
- 18. Benign tumors of the glandular epithelium
- 19. Malignant tumors of the glandular epithelium
- 20. APUDomas and carcinoid tumors
- 21. Neuroectodermal tumors of the CNS
- 22. Tumors of the meninges and peripheral nervous system
- 23. Tumors of melanocytes
- 24. Mixed tumors, germinal tumors
- 25. Choriocarcinoma, mesothelioma
- 26. Tumors of the heart
- 27. Tumors of the lymph nodes
- 28. Tumors of the upper respiratory tract
- 29. Bronchopulmonary tumors
- 30. Tumors of the oral cavity, incl. salivary glands andŤ odontogenic tumors
- 31. Tumors of the esophagus and stomach
- 32. Neoplasms of the small and large intestine
- 33. Tumors of the liver, biliary tract and pancreas
- 34. Tumors of the kidney and urinary tract
- 35. Testicular tumors
- 36. Tumors of the prostate and penis
- 37. Vulvar and cervical tumors
- 38. Tumors of the endometrium and myometrium
- 39. Tumors of the ovary
- 40. Tumors of the breast
- 41. Intracranial tumors
- 42. Tumors of the endocrine system
- 43. Tumors of the musculoskeletal system
- 44. Skin tumors and pseudotumorous lesions

III. Special Pathology

- 1. Congenital heart disease
- 2. Pericardial disease
- 3. Endocarditis
- 4. Acquired heart disease (vitia cordis acquisita)
- 5. Myocarditis
- 6. Cardiomyopathy
- 7. Ischemic heart disease
- 8. The heart in hypertension
- 9. Atherosclerosis and other arterial dystrophies
- 10. Arteritis
- 11. Aneurysms
- 12. Pathology of the veins and lymphatic vessels
- 13. Posthemorrhagic and hemolytic anemia
- 14. Anemias of diminished erythropoesis, polycytemia
- 15. Bleeding disorders
- 16. Pathology of the spleen
- 17. Nonneoplastic disorders of white cells
- 18. Pathology of the thymus
- 19. Nose and paranasal cavities
- 20. Larynx and trachea
- 21. Pediatric lung diseases
- 22. Bronchitis, asthma
- 23. Bronchiectasia, bronchostenosis
- 24. Emphysema, atelectasis
- 25. Pulmonary edema
- 26. Pulmonary thrombembolism
- 27. Pulmonary hypertension
- 28. Acute and chronic restrictive lung diseases
- 29. Classification of pulmonary infections, lobar pneumonia
- 30. Bronchopneumonia
- 31. Primary atypical pneumonias, fungal infections
- 32. Pulmonary tuberculosis
- 33. Pleura
- 34. Diseases of the oral cavity
- 35. Pathology of salivary glands
- 36. Pathology of the esophagus
- 37. Gastritis
- 38. Peptic ulcers
- 39. Developmental disorders, diverticulosis
- 40. Intestinal vascular disorders
- 41. Inflammatory diseases, obstructive disease, ileus
- 42. Enteritis, appendicitis, colitis
- 43. Malabsorption syndrome
- 44. Pathology of the peritoneum
- 45. Liver: metabolism of the bilirubin, jaundice, hepatic failure
- 46. Hereditary disorders of bilirubin metabolism, pediatric liverŤ disease
- 47. Circulatory disorders of the liver
- 48. Viral hepatitis

- 49. Drug- and toxin-induced liver disease
- 50. Liver cirrhosis
- 51. Hemochromatosis, Wilsonřs disease, alpha-1-antitrypsinŤ deficiency
- 52. Cholangitis and liver abscess
- 53. Cholecystitis, cholelithiasis
- 54. Mucoviscidosis
- 55. Acute hemorrhagic necrosis of the pancreas, pancreatitis
- 56. Kidney malformation, renal cysts
- 57. Blood supply disorders of the kidney
- 58. Glomerular diseases, pathogenesis and classification
- 59. Causes of the nephritic syndrome
- 60. Causes of the nephrotic syndrome
- 61. Tubulointerstitial nephritis
- 62. Acute tubular and diffuse cortical necrosis
- 63. Hydronephrosis, renal stones
- 64. Pathology of the renal pelvis, urether and urinary bladder
- 65. Pathology of the penis and prostate
- 66. Pathology of the testis
- 67. Pathology of the vulva and vagina
- 68. Pathology of the cervix uteri, endometritis, endometriosis
- 69. Dysfunctional uterine bleeding and endometrial hyperplasia
- 70. Pathology of Fallopian tubes and ovaries
- 71. Pathology of the pregnancy
- 72. Inflammations and fibrocystic changes of the breast
- 73. Intracranial hypertension, cerebral edema, hydrocephalus
- 74. Intracranial nontraumatic hemorrhage
- 75. Intracranial injuries
- 76. Ischemic cerebral disease
- 77. Pachymeningitis, leptomeningitis
- 78. Purulent encephalitis
- 79. Viral and other encephalitis
- 80. Degenerative diseases classification, Parkinsonřs andŤ Huntingtonřs disease, amyotrophic lateral sclerosis
- 81. Alzheimerřs disease, multiple sclerosis, nutritional andŤ metabolic encephalopathies
- 82. Pathology of the hypophysis
- 83. Pathology of the thyroid gland
- 84. Pathology of the parathyroid glands
- 85. Pathology of the endocrine pancreas, diabetes mellitus
- 86. Pathology of the adrenal glands
- 87. Skeletal muscle pathology
- 88. Hereditary diseases of the musculoskeletal system
- 89. Metabolic diseases of the musculoskeletal systemŤ osteomalacia, rachitis, avitaminosis C, osteoporosis, vonŤ Recklinghausenřs disease
- 90. Osteomyelitis, tuberculosis, m. Paget, fibrous dysplasia, Ť hypertrophic osteoathropathy
- 91. Osteoarthritis, suppurative arthritis, rheumatoid arthritis, Ť spondyloarthropathias
- 92. Infections and non-infectious inflammatory lesions of the skin
- 93. Granulomatous lesions, vascular lesions of the skin
- 94. Pathology of the dermal connective tissue