

Ist Institute of Pathology – Stomatology

General Pathology incl. General Oncology

1. Methods of pathology: Biopsy, cytology incl. clinical implications
2. Methods of pathology: Autopsy
3. Histological and other special techniques
4. Disease and its causes
5. Death and postmortal changes
6. Necrosis, apoptosis
7. Atrophy
8. Agenesis/aplasia, atresia, hypoplasia, ectopia including examples. Chromosomal abnormalities and single gene alterations including examples.
9. Cystic fibrosis/mucoviscidosis. Inborn storage disorders.
10. Amyloidosis.
11. Pathology of pigments and pigmentations, incl. icterus
12. Pathologic calcifications, stones
13. Pathology of nutrition. Consequences of malnutrition and obesity.
14. Hypertrophy, hyperplasia
15. Regeneration, reparation
16. Metaplasia, dysplasia
17. Oedema
18. Hyperemia, venous congestion
19. Focal disorders of blood supply, ischemia, infarction
20. Haemorrhage.
21. Thrombosis, embolism
22. Shock
23. Heart failure - types, causes, complications
24. Causes and course of inflammation
25. Inflammation – general microscopic and macroscopic changes
26. Classification and morphologic patterns of inflammation
27. Granulomatous inflammation
28. Immune system and its functions
29. Immune reactions
30. Transplantation
31. Primary and secondary immunodeficiency incl. HIV
32. Autoimmune diseases
33. Mechanisms of bacteria and virus-induced injury
34. Skin infections
35. Respiratory system infections
36. Gastrointestinal system infections
37. Genitourinary system infections
38. Nervous system infections
39. Injury by physical and chemical agents, incl. environmental pollution
40. Ageing and death
41. Definitions, preneoplastic lesions, pseudotumors
42. Classification of tumors, grading and staging of tumors
43. Structure, growth of tumors, invasion and metastases
44. Intraepithelial neoplasia, carcinoma in situ
45. Carcinogenesis, etiology of tumors
46. Effects of tumor on host
47. Mesenchymal tumors excl. haematopoietic neoplasms
48. Neoplastic disorders of bone marrow
49. Malignant lymphomas
50. Tumors of the superficial epithelium
51. Tumors of the glandular epithelium
52. Neuroendocrine tumors
53. Neuroectodermal tumors of the NS
54. Tumors of melanocytes
55. Mixed tumors, germinal tumors
56. Choriocarcinoma, mesothelioma

II. Systematic Pathology incl. Systematic Oncology

1. Congenital and acquired heart diseases
2. Pericardial diseases, endocarditis
3. Myocardial diseases incl. ischemic heart disease
4. Hypertension
5. Atherosclerosis and other arterial regressive changes
6. Vascular diseases incl. inflammatory
7. Pathology of the veins and lymphatic vessels.
8. Tumors of the heart + vessels. Pathology of the spleen and the thymus incl. tumors
9. Non-neoplastic lymphadenopathy
10. Anaemia
11. Disorders of blood coagulation and haemostasis
12. Pathology of the upper respiratory tract incl. tumors
13. Vascular disease of the lungs
14. Obstructive airways disease
15. Interstitial lung disease
16. Infections of the lower respiratory tract
17. Lung tumors
18. Pathology of the pleura incl. tumors
19. Pathology of the esophagus incl. tumors
20. Pathology of the stomach incl. tumors
21. Developmental and vascular intestinal disorders, malabsorption
22. Inflammatory intestinal diseases incl. infections
23. Pathology of the peritoneum, obstructive disease, ileus
24. Neoplasms of the small and large intestine
25. Metabolic and circulatory disorders of the liver
26. Acute and chronic liver disease
27. Liver cirrhosis, tumors of the liver
28. Pathology of the extrahepatic biliary tract incl. tumors
29. Pathology of exocrine pancreas incl. tumors
30. Kidney – congenital and vascular diseases, cysts
31. Glomerular diseases
32. Tubulointerstitial disorders incl. nephritis
33. Pathology of the urinary tract
34. Tumors of the kidney and urinary tract
35. Pathology of the male genital tract incl. tumors
36. Pathology of the external female genital tract incl. tumors
37. Pathology of the uterine corpus incl. tumors
38. Pathology of the fallopian tubes and ovaries incl. tumors
39. Pathology of the pregnancy
40. Inflammations, proliferative disorders and benign tumors of the breast
41. Malignant tumors of the breast
42. Cerebrovascular disease, CNS trauma
43. Congenital defects, age related defects, degenerative disorders incl. dementia.
44. CNS infections, demyelinating and metabolic disorders
45. Intracranial tumors
46. Pathology of the peripheral nervous system, the eye and the ear, incl. tumors
47. Pathology of the pituitary, diffuse endocrine system (incl. neuroendocrine neoplasias/carcinoids)
48. Pathology of the thyroid and parathyroid glands, incl. tumors
49. Pathology of the endocrine pancreas and adrenal glands, incl. tumors
50. Pathology of the bone incl. tumors
51. Pathology of the joints
52. Pathology of the connective tissue and muscle incl. tumors
53. Infections and non-infectious inflammatory lesions of the skin
54. Eczema/dermatitis, bullous disorders, ulcers. Pathology of the skin adnexa
55. Skin tumors and pseudotumorous lesions

III. Oral Pathology:

1. Disorders of development of teeth (number, size, form).
2. Disorders of development of teeth (structure) and cranofacial anomalies
3. Non-odontogenic cysts of the jaws and oral soft tissues, including developmental cysts
4. Odontogenic cysts
5. Postnatal and acquired abnormalities of teeth
6. Dental caries – aetiology and immunology
7. Dental caries - pathology
8. Disorders of dental pulp
9. Periapical diseases
10. Periodontal diseases
11. Physical and chemical injuries of the oral mucosa.
12. Bacterial, protozoal infections of the oral mucosa
13. Fungal, viral infections of the oral mucosa
14. Oral ulceration, vesiculobullous and dermatologic diseases
15. Oral manifestation of systemic diseases and other disorders of oral mucosa
16. Hematologic disorders, allergic and immunologic diseases
17. Hyperplastic disorders of oral mucosa; melanocytic lesions and malignant melanoma
18. Keratoses and precancerous (or premalignant) lesions and conditions
19. Oral epithelial tumors
20. Salivary gland pathology excl. tumors
21. Salivary gland tumors
22. Odontogenic tumors
23. Soft tissue tumors and lesions
24. Non-neoplastic bone pathology
25. Bone tumors
26. Diseases of the temporomandibular joints; neuromuscular diseases