OSP-PO2-T PATHOLOGY FOR DENTAL STUDENTS 2

Course director:

DR. TAMÁS TORNÓCZKI, associate professor Department of Pathology • tornoczki.tamas@pte.hu

4 credit - final exam - Obligatory subject for the Pre-clinical module - spring semester - recommended semester: 6

Number of hours/semester: 28 lectures + 0 practices + 28 seminars = total of 56 hours

Course headcount limitations (min.-max.): 5 – 999 Prerequisites: see your Recommended Curriculum

Topic

There is a special emphasis during the course on the clinicopathological view of the diseases, i.e., understanding the relationship of the clinical symptoms, macroscopical and microscopical changes of the diseased organs. By the end of the academic year, a basic clinicopathological affinity and competence in differential diagnosis is required of the students. Fundamentals and major examples of specific, organ pathology are discussed.

Since this is a curriculum designated with specific regard to dentistry students, special emphasis will be placed on the oral pathology and head-neck pathology chapters.

The systemic pathology course involves the major fields of organ pathology: pulmonary pathology, haematopathology, gastrointestinal pathology, pathology of the liver, pancreas and biliary system, pathology of the skin, cardiovascular pathology, oral pathology, pathology of the head and neck, pathology of the endocrine organs, nephropathology, pathology of male and female genital system and breast pathology.

Pathology education of dentistry students consists of 28 lectures and 28 histopathology seminars (14 practices) with the emphasis on oral pathology. The education during the second semester is carried out by the leader and colleagues of the Oral Pathology Unit (Faculty) of the Pathology Department.

The third-year students are expected to acquire the pathogenesis, the macroscopy and partly the microscopy of the main pathological changes which occure in this region. This reference knowledge could be used for the ongoing dental studies and especially later in consultations with the oral pathologists. The attendance to the Oral Pathology course and the knowledge picked up there -beside the general requirements- are obligatory to the approval of the two semesters.

Conditions for acceptance of the semester

Absences exceeding 15% of the practical classes will result in not signing the gradebook. Maximum absence: 2 practices. Each missed seminar has to be made up for with another group in the same week.

Mid-term exams

Final exam for the dentist students includes two slides and 2 exam questions.

Making up for missed classes

Absences exceeding 15% of the practical classes will result in not signing the gradebook. Maximum absence: 2 practices. Each missed seminar has to be made up for with another group in the same week.

Reading material

Obligatory literature

Robbins: Basic Pathology Medicina 2014.

- Literature developed by the Department

Tornóczky, Kajtár: Oral Pathology Histology Notes (also available here: http://aok.pte.hu/hu/egyseg/oktatasianyagok/230 limited amounts of printed version is available at our secretary office)

Lecture slides are found on the homepage of Department of Pathology.

- Notes
- Recommended literature

R.A. Cawson, E.W. Odell: Cawson's Essentials of Oral Pathology and Oral Medicine. 8th Edition, Churchill Livingstone, Elsevier, 2012 ISBN, 978-0443-10365-0

Antonio Cardesa, Pieter J. Slootweg: Pathology of the Head and Neck. Springer-Verlag, 2006, ISBN 10-3-540-30628-5, 2006

Sook-Bin Woo: Oral Pathology: A comprehensive atlas and text. Esevier-Saunders, 2012, ISBN:978-1-4377-2226-0 JA. Regezi, JJ. Sciubba, RCK. Jordan: Oral Pathology. Clinicopathlogical correlations. 6th Edition, Elsevier, 2012, ISBN: 978-1-4557-0262-6

Lectures

PATHOLOGY OF THE RESPIRATORY SYSTEM (2 LECTURES)

Pathology of the lung 1.

Dr. Smuk Gábor

2 Pathology of the lung 2.

Dr. Smuk Gábor

DERMATOPATHOLOGY (2 LECTURES)

3 Dermatopathology I: common skin lesions occuring in the head and neck region.

Dr. Gyömörei Csaba

4 Dermatopathology II: systemic skin diseases with oral cavity manifestations

Dr. Gyömörei Csaba

HAEMATOPATHOLOGY (2 LECTURES)

5 Ontogenesis of the lymphoid cells. General characteristics of lymphomas.

Dr. Kajtár Béla

6 Hematological malignancies of the head and neck region.

Dr. Kajtár Béla

PATHOLOGY OF THE GASTROINTESTINAL TRACT (2 LECTURES)

7 Diseases of the esophagus and stomach

Dr. Bogner Barna István

8 Pathology of the small and large intestines

Dr. Bogner Barna István

CARDIOVASCULAR PATHOLOGY (4 LECTURES)

9 Ischaemic heart diseases

Dr. Tornóczki Tamás

10 Endocarditis, myocarditis

Dr. Tornóczki Tamás

11 Congenitalis heart diseases Cardiomyopathies

Dr. Tornóczki Tamás

12 Vasculitidies, vascular tumors

Dr. Tornóczki Tamás

ORAL PATHOLOGY (7 LECTURES)

13 Infective disorders of the oral cavity.

Dr. Tornóczki Tamás

Non infective disorders of the oral cavity.

Dr. Tornóczki Tamás

15 Epithelial lesions of the oral cavity

Dr. Tornóczki Tamás

Epithelial neoplasms of the oral cavity. Pathogenetic role of HPV.

Dr. Tornóczki Tamás

17 Pathology of the salivary glands. 1.

Dr. Tornóczki Tamás

Pathology of the salivary glands. 2.

Dr. Tornóczki Tamás

19 Mesenchymal lesions of the oral cavity

Dr. Tornóczki Tamás

ENDOCRINOPATHOLOGY (2 LECTURES)

20 Hypophysis tumors. Pathology of the thyroid gland I (developmental anomalies, hyperplasias, thireoiditides)
Dr. Tornóczki Tamás

Pathology of the thyroid gland II (neoplaias). Pathology of the parathyroid glands. Pathology of the adrenals.

NEPHRO- AND UROPATHOLOGY (2 LECTURES)

22 Pathology of kidney tumours. Kidney failure.

Dr. Kereskai László

Dr. Tornóczki Tamás

23 Inflammations and tumors of the urinary system.

Dr. Kereskai László

PATHOLOGY OF THE LIVER, PANCREAS AND THE BILIARY SYSTEM (2 LECTURES)

- 24 Liver diseases.
 - Dr. Bogner Barna István
- 25 Pathology of the pancreas and the biliary tract.
 - Dr. Bogner Barna István

PATHOLOGY OF THE MALE, FEMALE GENITALIA AND THE BREAST (3 LECTURES)

- Pathology of the testis, epididymis and prostate.
 - Dr. Semjén Dávid
- 27 Pathology of the ovaries and uterus.
 - Dr. Kálmán Endre
- 28 Pathology of the breast.
 - Dr. Kálmán Endre

Practices

Seminars

- 1 Pulmonology
- 2 Pulmonology
- 3 Dematopathology
- 4 Dematopathology
- 5 Haematopathology
- 6 Haematopathology
- 7 Gastroenteropathology
- 8 Gastroenteropathology
- 9 Cardiovascular Pathology
- 10 Cardiovascular Pathology
- 11 Pathology of the oral cavity 1
- 12 Pathology of the oral cavity 1
- Pathology of the oral cavity 2
- Pathology of the oral cavity 2
- 15 Pathology of the oral cavity 3
- Pathology of the oral cavity 3
- 17 Pathology of the oral cavity 4
- Pathology of the oral cavity 4
- 19 Endocrinopathology
- 20 Endocrinopathology
- 21 Nephropathology
- 22 Nephropathology
- 23 Liver, pancreas pathology
- 24 Liver, pancreas pathology
- Male, female genital pathology and breast pathology
- Male, female genital pathology and breast pathology
- 27 Consultation
- 28 Consultation

Exam topics/questions

SLIDES

- I. PATHOLOGY OF THE RESPIRATORY SYSTEM
- 1. CMV pneumonitis
- 2. Carcinoma microcellulare pulmonum
- 3. Carcinoma planocellulare pulmonum
- II. DERMATOPATHOLOGY
- 4. Seborrheic keratosis
- 5. Basal cell carcinoma
- 6. Nodular melanoma

- 7. Bullous pemphigoid
- 8. Psoriasis

III. HAEMATOPATHOLOGY

- 9. Toxoplasma lymphadenitis
- 10. Follicular lymphoma
- 11. CLL/SLL infiltration in lymph node
- 12. Diffuse large B-cell lymphoma
- 13. Hodgkin lymphoma
- 14. CML, CP smear

IV. PATHOLOGY OF THE GASTROINTESTINAL TRACT

- 15. Helicobacter pylori infection (Whartin-Starry)
- 16. Coeliac disease- subtotal/total villous arophy (Marsh 3c)
- 17. Carcinoid of the appendix
- 18. Rectal adenocarcinoma

V. CARDIOVASCULAR PATHOLOGY

- 19. Viralis myocarditis
- 20. Arteritis temporalis
- 21. Kaposi sarcoma

VI-IX. ORAL PATHOLOGY

- 22. Squamous cell papilloma
- 23. Keratoacanthoma
- 24. Squamous cell carcinoma
- 25. Nasopharyngeal carcinoma (lymphoepithelial carcinoma)
- 26. Keratinizing squamous cell metaplasia
- 27. Epulis (peripheral giant cell granuloma) pyogen granuloma
- 28. Buccal fibroma
- 29. granular cell tumor (Abrikosoff-tumor)
- 30. Orofacial actinomycosis
- 31. Sialoadenitis chronica in the submandibular gland (Küttner-tumor), sialolithiasis
- 32. Lymphoepithelial cyst (intraparotideal)
- 33. Mucocele (extravasation type)
- 34. Sjögren syndrome lymphocytic sialoadenitis (minor salivary gland)
- 35. Pleiomorphic adenoma
- 36. Warthin tumor (cystadenoma papillare lymphomatosum)
- 37. Adenoid cystic carcinoma
- 38. Mucoepidermoid carcinoma
- 39. Fibrous dysplasia of the jaw
- 40. Ameloblastoma (unicystic type)
- 41. Oral lichen
- 42. Verrucous type squamous cell carcinoma
- 43. Plasma cell granuloma (epulis)
- 44. Radicular cyst
- 45. Odontogen keratocyst (keratocystic odontogen tumor)
- 46. Crohn" s disease, oal caviy
- 47. Salivary gland MALT lymphoma
- 48. BION (bisphosphonate induced osteonecrosis)
- 49. Plasma cell myeloma, jaw
- 50. Pemphigus vulgaris, oral cavity
- 51. Leukoplakia: in situ carcinoma
- 52. Oral candidiasis

X. ENDOCRINOPATHOLOGY

- 53. Papaillary carcinoma of the thyroid gland
- 54. Basedow-Graves disease
- 55. Hashimoto"s-thyreoiditis
- 56. Parathyroideal adenoma
- 57. Phaeochromocytoma

XI. NEPHRO- AND UROPATHOLOGY

- 58. Clear cell renal cell carcinoma
- 59. Urothelial carcinoma of the renal pelvis

XII. PATHOLOGY OF THE LIVER, PANCREAS AND THE BILIARY SYSTEM

- 60. HBs-antigen positivity (Shikata)
- 61. Chronic hepatitis
- 62. Hepatocellular carcinoma in cirhotic liver

XIII. PATHOLOGY OF THE MALE, FEMALE GENITALIA AND THE BREAST

- 63. Prostate adenocarcinoma
- 64. Seminoma
- 65. Endometrial adenocarcinoma curettage
- 66. Serous papillary cystadenocarcinoma of the ovaries
- 67. Invasive ductal carcinoma

THEORETICAL QUESTIONS

I. PATHOLOGY OF THE RESPIRATORY SYSTEM

- 1. Diseases of the upper airways.
- 2. Infections of the lower airways (nosocomial, community acquired and opportunistic infections). ARDS
- 3. Chronic obstructive lung diseases: general caracteristics, types
- 4. Malignant tumors of the lung

II. DERMATOPATHOLOGY

- 5. Melanocytic lesions
- 6. Epithelial tumors of the skin
- 7. Inflammatory skin diseases

III. HAEMATOPATHOLOGY

- 8. Reactive lymph node changes
- 9. Lymphomas in the head and neck region
- 10. Myeloid neoplasias

IV. PATHOLOGY OF THE GASTROINTESTINAL TRACT

- 11. Diseases of the oesophagus
- 12. Pathology of the stomach
- 13. Pathology of the small intestines
- 14. Colorectal pathology

V. CARDIOVASCULAR PATHOLOGY

- 15. Angina pectoris és chronic ischemic heart disease, sudden cardiac death
- 16. Clinicopathology of acute myocardial infarction
- 17. Pathology of valvular disorders (inflammatory and degenerative)
- 18. Cardiomyopathies, cardial tumors
- 19. Myocarditides, pathology of the pericardium
- 20. Congenital heart diseases
- 21. Arterioclerosis, types and clinicopathology of aneurysms
- 22. Pathogenesis, classification and clinicopathology of vasculitides, vascular tumors

VI. ORAL PATHOLOGY

- 23. Infective inflammatory diseases of the oral mucosa
- 24. Non infective inflammatory diseases of the oral mucosa
- 25. Benign epithelial lesions of the oral mucosa
- 26. Role of the HPV subtypes in the pathogenesis of benign and malignant lesions of the oral mucosa
- 27. Precancerous conditions. Leukoplaky and its differential diagnosis. Erythroplaky.
- 28. Malignant epithelial neoplasms of the oral cavity: histology types, localisation and pathogenesis
- 29. Benign mesenchymal lesions of the oral cavity and the jaws
- 30. Malignant mesenchymal lesions of the oral cavity and the jaws
- 31. Inflammatory lesions of the salivary glands: sialoadenitis, sialolithiasis, Mikulicz syndrome, Sjögren syndrome.
- 32. Tumor-like lesions of the salivary glands and oral mucosa.
- 33. Benign tumors of the salivary gland
- 34. Malignant tumors of the salivary gland
- 35. Odontogenic and non odontogenic cysts
- 36. Odontogenic tumors

VII. PATHOLOGY OF THE ENDOCRINE SYSTEM

- 37. Anterior lobe pituitary tumors. hypophysis elülső lebenyének tumorai. Congenital anomalies of the thyroid gland, conditions associated with hyperplasia
- 38. Thyreoiditides, thyroid neoplasias
- 39. Hyperplasia, adenoma of the parathyroid gland
- 40. Adrenal gland hyperplasia, atrophy, tumors of the adrenal cortex. Tumors of the adrenal medulla.

VIII. NEPHRO- AND UROPATHOLOGY

- 41. Renal failure. Tumors of the kidney.
- 42. Cystitides, tumors of the bladder and ureter

IX. PATHOLOGY OF HTE LIVER, PANCREAS AND THE BILIARY SYSTEM

- 43. Pathology of the liver
- 44. Diseases of the biliary tract and the pancreas

X. PATHOLOGY OF THE MALE, FEMALE GENITALIA AND THE BREAST

- 45. Prostate adenocarcinoma (pathogenesis, morphology, screening, diagnosis)
- 46. Testicular tumors, classification, tumor markers
- 47. Carcinoma of the cervix (pathogenesis, pathomorphology, screening)
- 48. Epithelial benign and malignant tumors of the uterine corpus. Mesenchymal neoplasms of the uterus.
- 49. Cysts and tumors of the ovaries (surface epithelial, germ cell tumors, sex cord stromal tumors, metastases)
- 50. Mastitides (lactational, ductal ectasis, fat necrosis, galactocele), mastopathies (fibrocystic changes). Fibroepithelial tumors
- 51. Carcinoma of the breast: pathogenesis, types, prognosis

Comment: The Department of Pathology reserves the right to propose minor modifications in the curriculum

Participants

Dr. Bogner Barna István (FWINMS), Dr. Czina Márton (DQBJDS), Dr. Gyömörei Csaba (HW4NIX), Dr. Kálmán Endre (H4MBX2), Dr. Kaszás Bálint (C6EZUZ), Dr. Pap Anita (DO1ZZP), Dr. Semjén Dávid (D3T05F), Dr. Tornóczki Tamás (FND8FK), Dr. Vida Livia (XJJ5MJ)