CURRICULUM OF PATHOLOGY

I OBJECTIVES

The Pathology is at the core of medicine and bridges basic science and clinical practice. It involves the investigation of the etiopathogenic mechanisms of different diseases and their structural, pathomorphological presentations (gross, light microscopic and ultrastructural changes). Traditionally, the discipline is divided into general and systemic pathology. General pathology focuses on the fundamental cellular and tissue responses to pathologic stimuli, while the systemic pathology examines the particular response of specialized organs.

II COURSE STRUCTURE

The course includes 90 hours of lectures and 136 hours of practical exercises. Students will have active participation in three forms of practical exercises: an autopsy procedures, histopathological examination of tissue slides and slide seminars.

a) The autopsy provides the students with gross examination of diseased organs and different morphological lesions in order to find relationships between the disease and the causes of death. The anatomo-clinical confrontation is the model for determination of major disease and cause of death.

b) Histopathological examination of different tissue slides using light microscopy will be performed by students (after introduction lecture), in order to recognize the main morphological lesions.

c) Slide seminars with Power Point presentations will be performed covering the main topics of all sections of pathology.

III EVALUATION OF KNOWLEDGE

The performance of each student will be evaluated through preexam activities and final exam.

Preexam activities are estimated by maximum 30 points: of them, two colloquia: maximum 20 points, lectures and exercises attendance: maximum 6 points (4 points for the lectures and 2 points for all seminars and microscopy exercises in both semesters, ie. 1 point per semester), and maximum 4 points for activities during the exercises (seminars, microscopy and autopsies). The points for the lecture attendance during the both semesters are gained as follows: 1 point for the 25% of lectures, 2 points for 26-50% of lectures, 3 points for 51-75% of lectures and 76-100% of lectures. Final exam is composed of practical and theoretical examination, ie. final test. Practical exam is eliminatory. It consists of five histopathological slides. A student has to recognize and write the correct Latin/English diagnosis of at least three of them in order to take the Final test.

Final exam gains maximum 70 points, of which: practical exam, max 20 points and final test, max 50 points. Final test score: max 100 test points. To pass the final test, a student must have minimum 51 correct answers.

Final exam score: maximum 100 points.

Final mark is calculated with formula and gained as follows:
Points Final mark
51 - 60 = 6
61 – 70 = 7
71 – 80 = 8
81 – 90 = 9
91 – 10= 10

Two colloquia will be organized during the school year. Before the final exam, a student has to enter both colloquia, but it is not compulsory to pass a colloquium. In other words, a student has to enter a given colloquium, and to retake it if failed, but is not obliged to pass it. Each colloquium consists of 30 questions. Each question offers five different answers, and only one answer is correct. At least 51% of the questions (16/30) should be answered correctly to pass the colloquium.

IV PROGRAM

Program course in pathology is divided in two semesters of fifteen-week duration. The first semester consists of 4 hours of lectures and 5 hours of practical exercises per week. Second semester consists of 2 hours of lectures and 4 hours of practical work per week.

Pathology program for the entire school year includes:

A) LECTURES (90 hrs)

GENERAL PATHOLOGY (31 hrs)

1. Introduction to pathology.................................................................1 hr
Definition, object of study, historical development of pathology, methods, task and importance in diagnostic therapy and prognosis of diseases, importance of pathology in scientific research in medicine.

2. Basic pathology of cell and extracellular matrix.............................6 hrs

3. Inflammation and infective diseases...............................................6 hrs
4. Tissue repair .............................................................1 hr
   Cell regeneration. Repair by connective tissue – granulation tissue. Wound healing.
   Mechanisms involved in repair. Factors modifying the quality of reparative response.

5. Circulatory disorders .........................................................4 hrs
   Thrombosis. Embolism. Ischaemia and infarction.

6. Immunopathology ............................................................2 hr
   Immunologic tissue injury (hypersensitivity reactions). Autoimmune diseases.
   Immunologic deficiency syndromes. Primary immunodeficiencies. Acquired
   immunodeficiency syndrome (AIDS).

7. Transplantation ..............................................................1 hr
   Morphology of hyperacute, acute and chronic rejection. Methods of increasing graft
   survival. Transplantation of bone marrow and solid organs. Graft-versus host disease.

8. Genetic and pediatric diseases .............................................2 hrs
   General characteristics of pediatric tumors. Benign tumors of childhood. Malignant
   pediatric tumors: neuroblastic, Wilms tumor, rhabdomyosarcoma, pediatric lymphomas.

9. Environmental diseases .....................................................2 hrs
   Injuries by chemical and physical agents. Effects of ionizing radiation. Nutritional

10. Neoplasia ......................................................................6 hrs
    Tumor terminology and classification. Tumor components and secondary changes in
    tumors. General characteristics of benign and malignant tumors. General pathology of
    epithelial and mesenchymal tumors. Metastatic spread and localization of metastases.
    Local and systemic effects of tumors on the host. Oncogenes and antioncogenes. Tumor
    modifications of normal cell control mechanisms (DNA repair, apoptosis, telomeric
    activity, adhesion molecules). Carcinogens (chemical, radiation, viral). Grading and
    staging of cancer. Diagnostic techniques in oncologic pathology.

SYSTEMIC PATHOLOGY (59 hrs)

1. Cardiovascular system ......................................................6 hrs
   Valvular heart diseases. Primary myocardial diseases. Congenital heart diseases.
   Pericardial diseases. Cardiac tumors.

2. Respiratory system ..........................................................6 hrs

3. **Head and neck** ...........................................................................................................1 hr
Pathology of nasal cavity and accessory air sinuses: inflammations, tumors.
Pathology of the oral cavity and salivary glands: congenital anomalies, inflammations, premalignant lesions, tumors and tumor like conditions.
Pathology of larynx: inflammations, tumors.

4. **Gastrointestinal tract, peritoneum and pancreas** .........................................................5 hrs

5. **Liver and the biliary tract** .............................................................................................4 hrs

6. **Hematopoietic and lymphoid system** .........................................................................5 hrs

7. **Kidney and lower urinary tract** ..................................................................................6 hrs

8. Female and male genital system.................................................................6 hrs

9. Endocrine system and breast.................................................................4 hrs

10. Skin.................................................................3 hrs

11. Skeletal system, joints and soft tissue tumors.......................................5 hrs

12. Organs of special senses.................................................................1 hr

13. Central nervous system .................................................................6 hrs

14. Diseases of peripheral nervous system and skeletal muscle…………………..1hr
Basic pathological processes of the peripheral nerves. Inflammatory, metabolic, toxic and hereditary neuropathies. Basic pathological processes of skeletal muscle. Pathology of neuromuscular diseases.

PRACTICAL EXERCISES: 136 hrs
Seminar: 60 hrs
Microscopic slide demonstrations: 45 hrs
Microscopy reviews: 6 hrs
Autopsies: 25 hrs
Total: 136 hrs
The autopsy consists of 4 hrs + 1 hr of PPT presentation of autopsy histology in e-classroom (total: 5 hrs per autopsy)

1. SLIDE SEMINARS AND GROSS DEMONSTRATIONS (15 x 4 hrs = 60 hrs)
BASIC PATHOLOGY OF CELL AND EXTRACELLULAR MATRIX
PATHOLOGY OF INFLAMMATION AND REPAIR
PATHOLOGY OF CIRCULATORY DISORDERS
GENERAL PATHOLOGY OF NEOPLASIA
PATHOLOGY OF CARDIOVASCULAR SYSTEM
PATHOLOGY OF RESPIRATORY SYSTEM
PATHOLOGY OF GASTROINTESTINAL TRACT
PATHOLOGY OF HEPATOBILIARY SYSTEM
PATHOLOGY OF ENDOCRINE SYSTEM AND BREAST
NEPHROPATHOLOGY
PATHOLOGY OF GENITAL SYSTEM
PATHOLOGY OF HEMATOPOIETIC AND LYMPHOID SYSTEM
PATHOLOGY OF SKIN
PATHOLOGY OF SKELETAL SYSTEM AND JOINTS
NEUROPATHOLOGY

2. MICROSCOPIC SLIDE DEMONSTRATIONS
   (15 x 3 hrs + 1 x 3 hrs as slide review at the end of each semester)

I Histopathological features of basic injury of cells and extracellular matrix
Atrophia et sclerosis testis (Testicular atrophy with sclerosis)
Atrophia fusca hepatic (Brown atrophy of the liver)
Amyloidosis renis (Renal amyloidosis)
Amyloidosis lienis (Amyloidosis of the spleen)
Hyalinosis vasorum lienis (Hyalinosis of the blood vessels)
Infiltratio adiposa myocardii (Fatty ingrowth of the myocardium)
Metamorphosis adiposa hepatis diffusa (Fatty change of the liver)

II Histopathological features of circulatory disorders
Hyperaemia passiva pulmonis chronica (Haemosiderosis pulmonum)  
(Pulmonary haemosiderosis)
Necrosis hepatis centralis haemorrhagica (Hemorrhagic necrosis of the liver)
Hyperaemia passiva lienis chronica (Chronic passive congestion of the spleen)
Thrombus venae in organisatione (Organization of the venous thrombus)
Infarctus anaemicus renis (White (pale) infarct of the kidney)
Infarctus haemorrhagicus pulmonis (Hemorrhagic infarct of the lung)

III Histopathological features of inflammation
Pleuritis fibrinoso-purulenta (Fibrinous-purulent pleuritis)
Abscessus hepatic (Liver abscess)
Phlegmone cutis (Phlegmone of the skin)
Appendicitis phlegmonosa (Phlegmonose appendicitis)
Lymphadenitis tuberculosa (TBC) (Tuberculous lymphadenitis)
Cysticercosis cerebr (Cerebral cysticercosis)
Granuloma corporis alieni (Foreign body type granuloma)

IV Histopathological features of benign and malignant tumors
Papilloma mucosae oris (Oral mucosal papilloma)
Polypus cervicis uteri (Cervical polyp)
Adenoma tubulare intestini coli (Adenomatous polyp of the colon)
Malignant cells on smear preparation (Malignant cells in cytological smears)
HSIL cervicis uteri (Cervical high grade squamous intraepithelial lesion (HSIL)
Carcinoma planocellulare invasivum cervicis uteri (Invasive squamous cell carcinoma of uterine cervix)
Adenocarcinoma pulmonis (Pulmonary adenocarcinoma)
Carcinoma metastaticum in medulla ossis (Metastatic carcinoma to the bone marrow)
Carcinoma metastaticum in nodo lymphatico (Metastatic carcinoma to the lymph node)

V Histopathological features of cardiovascular diseases
Myofibrosis cordis (Fibrosis of the myocardium)
Myocarditis virosa (Viral Myocarditis)
Benign nephrosclerosis
Atherosclerosis aortae (Aortic atherosclerosis)
Infarctus myocardii (Myocardial infarct)

VI Histopathological features of lung diseases
Pneumonia fibrinosa s. cruposa (stadium hepatisationis griseae) (Lobar pneumonia)
Bronchopneumonia fibrinosa-purulenta (Lobular pneumonia)
Bronchopneumonia caseosa tuberculosa (Tuberculous caseous bronchopneumonia)
Tuberculosis miliaris pulmonis (Miliary tuberculosis of the lung)
Membranae hylineae pulmonum (ARDS) (Acute respiratory distress (ARDS) or Diffuse alveolar damage)
Emphysema pulmonum (Pulmonary emphysema)
Small cell carcinoma (Small cell pulmonary carcinoma)
VII Histopathological features of gastrointestinal diseases
Adenoma pleomorphe (Pleomorphic adenoma (Mixed tumor) of the salivary gland)
Gastritis chronica (Chronic gastritis)
Adenocarcinoma ventriculi (Gastric adenocarcinoma)
Ulcus ventriculi chronicum (Gastric peptic ulcer)
Colitis ulcerosa chronica (Chronic ulcerative colitis)
Adenocarcinoma intestini coli (Adenocarcinoma of the colon)
Carcinoma pancreatis (Pancreatic carcinoma)

VIII Histopathological features of liver diseases
Cholestasis (Cholestasis)
Adenocarcinoma ventriculi metastaticum in hepate (Metastatic gastric adenocarcinoma to the liver)
Hepatitis virosa (Acute viral hepatitis)
Cirrhosis hepatis (Hepatic cirrhosis)
Carcinoma hepatis hepatocellularare (Hepatocellular carcinoma of the liver)

IX Histopathological features of endocrine glands and breast diseases
Struma colloides glandulae thyreoideae (Goiter)
Hashimoto thyreoiditis (struma lymphomatosa) (Hashimoto thyreoiditis)
Carcinoma papillare glandulae thyreoideae (Papillary carcinoma of the thyroid gland)
Carcinoma folliculare glandulae thyreoideae (Follicular carcinoma of the thyroid gland)
Pheochromocytoma
Fibrocystic changes of the breast
Fibroadenoma mammae (Breast fibroadenoma)
Carcinoma mammae ductale invasivum (Ductal invasive carcinoma of the breast)

X Histopathological features of renal diseases
Pyelonephritis purulenta (Purulent pyelonephritis)
Glomerulocapilaris endocapilaris s. acuta (Acute poststreptococcal proliferative glomerulonephritis)
Nephropathia diabetica (Diabetic nephropathy)
Carcinoma transitiocellulare (urotheliale) papillare (Papillary transitional cell (urothelial) carcinoma of the bladder)
Carcinoma lucidocellulare renis (Renal cell carcinoma)
Wilms tumor

XI Histopathological features of male and female genital tract diseases
Epididymitis purulenta subacuta (Subacute purulent epididymitis)
Seminoma testis (Seminoma of the testis)
Hyperplasia nodularis prostatae (Benign prostatic hyperplasia)
Graviditas tubaria (Ectopic pregnancy of the Fallopian tube)
Hyperplasia endometrii simplex nonatypica (Simple endometrial hyperplasia without atypia)
Adenocarcinoma endometrii (Endometrial adenocarcinoma)
Cystadenoma ovarii serosum (Serous ovarian cystadenoma)
Mola hydatidosa (Hydatiform mole)
Choriocarcinoma
Teratoma maturum (Mature teratoma)

**XII Histopathological features of hematopoietic diseases**
Hyperplasia follicularis lymphonodi (Follicular hyperplasia of the lymph node)
Hodgkin lymphoma
Small lymphocyte lymphoma
Diffuse large B-cell lymphoma
Burkitt lymphoma

**XIII Histopathological features of skin lesions**
Naevus naevocellularis (Common melanocytic nevus)
Keratosis seborrhoica (Seborrheic keratosis)
Dermatofibroma
Haemangioma cutis (Haemangioma of the skin)
Melanoma malignum (Malignant melanoma)
Carcinoma planocellulare cutis (Squamous cell carcinoma)
Carcinoma basocellulare cutis (Basal cell carcinoma)

**XIV Histopathological features of bone and joint diseases and soft tissue tumors**
Synovitis chronica (Chronic synovitis)
Osteomyelitis chronica (Chronic osteomyelitis)
Chondroma
Sarcoma Ewing (Ewing’s sarcoma)
Tumor gigantocellulare (Giant cell tumor)
Osteosarcoma
Lipoma
Leiomyoma
Rhabomyosarcoma
Leiomyosarcoma

**XV Histopathological features of CNS diseases**
Haemorrhagia cerebri hypertensiva (Hypertensive cerebral hemorrhage)
Infarctus cerebri (Cerebral infarct)
Leptomeningitis purulenta (Purulent leptomeningitis)
Leptomeningitis tuberculosa (Tuberculous leptomeningitis)
Encephalitis virosa (Viral encephalitis)
Meningioma
Glioblastoma multiforme

3. **AUTOPSY (5 x 4 hrs + 1 class histology in PPt)**
Autopsies will be performed in VI semester. Each autopsy is followed by 45-min PPT presentation of the histological findings in e-classroom.
LITERATURE

Kumar V, Abbas AK, FaustoN, Mitchell RN. Robbins basic pathology. Saunders Elsevier, Philadelphia

PROFESSORS:
dr Jovan Vasiljević  
dr Milica Skender Gazibara  
dr Gordana Basta Jovanović  
dr Jasmina Marković Lipkovski  
dr Ivan Boričić  
dr Svetislav Tatić  
dr Dimitrije Brašanac  
dr Jelena Sopta  
dr Tatjana Terzić  
dr Nada Tomanović  
dr Sanja Radojević-Škodrić  
dr Zorica Stojšić

ASSISTENTS:
dr Sofija Glumac  
dr Emilija Manojlović-Gačić  
dr Radmila Janković*  
dr Martina Bosić  
dr Duško Dundjerović*  
dr Ljiljana Bogdanović  
dr Jelena Vještica  
dr Novica Boričić  
dr Relja Kovačević  
dr Ivana Savić  
dr Danilo Obradović  
dr Maja Životić - saradnik u nastavi

* Doctors in the post of assistant until November 11, 2015
<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Topic</th>
<th>Lecturer</th>
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<tbody>
<tr>
<td>Mon, October 12</td>
<td>(12-12,45)</td>
<td>Introduction to pathology</td>
<td>Prof Z Stojišić</td>
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<td>Gazibara</td>
<td>(13-13,45)</td>
<td>Cellular adaptations</td>
<td>Prof M Skender</td>
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<td>Tue, October 13</td>
<td>(12-12,45)</td>
<td>Disturbances in metabolism</td>
<td>Prof J Marković</td>
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<td>Lipkovski</td>
<td>(13-13,45)</td>
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<td>Hyaline change &amp; amyloidosis</td>
<td>Prof J Marković</td>
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<td>Mon, October 19</td>
<td>(12-12,45)</td>
<td>Subcellular responses to injury</td>
<td>Prof S Tatić</td>
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<td>(13-13,45)</td>
<td>Disturbances of minerals and pigments metabolism</td>
<td>Prof S Tatić</td>
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<td>Tue, October 20</td>
<td>(12-12,45)</td>
<td>Apoptosis &amp; Necrosis</td>
<td>Prof J Marković</td>
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<td>Lipkovski</td>
<td>(13-13,45)</td>
<td>Inflammation</td>
<td>Prof S Tatić</td>
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<td>Inflammation</td>
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<td>Inflammation</td>
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<td>Tue, October 27</td>
<td>(12-12,45)</td>
<td>Infectious diseases</td>
<td>Prof S Tatić</td>
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<td>(13-13,45)</td>
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<td>Prof S Tatić</td>
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<td>Mon, November 2</td>
<td>(12-12,45)</td>
<td>Infectious diseases</td>
<td>Prof S Tatić</td>
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<td>(13-13,45)</td>
<td>Circulatory disorders</td>
<td>Doc N Tomanović</td>
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<td>Tue, November 3</td>
<td>(12-12,45)</td>
<td>Circulatory disorders</td>
<td>Doc N Tomanović</td>
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<td>(13-13,45)</td>
<td>Circulatory disorders</td>
<td>Doc N Tomanović</td>
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<td>Mon, November 9</td>
<td>(12-12,45)</td>
<td>Circulatory disorders</td>
<td>Doc N Tomanović</td>
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<td></td>
<td>(13-13,45)</td>
<td>Healing and repair</td>
<td>Prof M Skender</td>
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<tr>
<td>Gazibara</td>
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<td>Tue, November 10</td>
<td>(12-12,45)</td>
<td>Immunopathology</td>
<td>Doc dr S Radojević</td>
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<td>Škodrić</td>
<td>(13-13,45)</td>
<td>Immunopathology</td>
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<td>Mon, November 16</td>
<td>(12-12,45)</td>
<td>Transplantation</td>
<td>Prof J Marković</td>
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<td>Lipkovski</td>
<td>(13-13,45)</td>
<td>Nutritional diseases</td>
<td>Prof M Skender</td>
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<td>Gazibara</td>
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<td>Tue, November 17</td>
<td>(12-12,45)</td>
<td>Injuries by heat and cold &amp; Effects of ionizing radiation</td>
<td>Prof Z Stojišić</td>
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<td>(13-13,45)</td>
<td>Neoplasia</td>
<td>Prof D Brašanac</td>
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Mon, November 23  (12-12,45) Neoplasia  Prof D Brašanac
   (13-13,45) Neoplasia  Prof D Brašanac
Tue, November 24  (12-12,45) Neoplasia  Prof D Brašanac
   (13-13,45) Neoplasia  Prof D Brašanac
Mon, November 30  (12-12,45) Neoplasia  Prof D Brašanac
   (13-13,45) Pediatric diseases  Prof D Brašanac
Tue, December 1   (12-12,45) Genetic disorders  Prof D Brašanac

SYSTEMIC PATHOLOGY

Tue, December 1   (13-13,45) Respiratory system  Prof J Sopta
Mon, December 7   (12-12,45) Respiratory system  Prof J Sopta
   (13-13,45) Respiratory system  Prof J Sopta
Tue, December 8   (12-12,45) Respiratory system  Prof J Sopta
   (13-13,45) Respiratory system  Prof J Sopta
Mon, December 14  (12-12,45) Respiratory system  Prof J Sopta
   (13-13,45) Cardiovascular system  Prof J Vasiljević
Tue, December 15  (12-12,45) Cardiovascular system  Prof J Vasiljević
   (13-13,45) Cardiovascular system  Prof J Vasiljević
Mon, December 21  (12-12,45) Cardiovascular system  Prof J Vasiljević
   (13-13,45) Cardiovascular system  Prof J Vasiljević

Mon, January 11   (12-12,45) Skeletal system  Prof J Sopta
   (12,45-13,30) Skeletal system  Prof J Sopta
   (13,30-14,15) Skeletal system  Prof J Sopta
Tue, January 12   (12-12,45) Pathology of the breast  Prof S Tatić
   (13-13,45) Endocrine system  Prof S Tatić
Mon, January 18   (12-12,45) Endocrine system  Prof S Tatić
   (13-13,45) Endocrine system  Prof S Tatić
Tue, January 19   (12-12,45) Pathology of the skin  Prof D Brašanac
   (13-13,45) Pathology of the skin  Prof D Brašanac
Mon, January 25   (12-12,45) Pathology of the skin  Prof D Brašanac
   (13-13,45) Hematopoietic system  Doc T Terzić
Tue, January 26   (12-12,45) Hematopoietic system  Doc T Terzić
(13-13,45) Hematopoietic system Doc T Terzić

Wed, January 27 (8-8,45) Hematopoietic system Doc T Terzić
(8,45-9,30) Hematopoietic system Doc T Terzić

Notice: bolded terms denote exceptional dates due to holiday leaves

PATHOLOGY - PRACTICAL EXERCISES
V SEMESTER 2015/2016
(All practical sessions are held at the Institute of Pathology)

Wed, October 14, 2015 15,45 – 18
MICROSCOPIC SLIDE DEMONSTRATIONS
Basic injury of cells and extracellular matrix
Prof Z Stojšić & assistants: D Dundjerovic, R Jankovic
Lab. tech. B Manasijević

Wed, October 21, 2015 14 – 17
SLIDE SEMINAR AND GROSS
Basic pathology of cell and extracellular matrix
Prof S Tatić

Wed, October 28, 2015 14 – 16,15
MICROSCOPIC SLIDE DEMONSTRATIONS
Histopathological features of inflammation
Prof S Tatić & assistants: R Janković, D Dundjerovic
Lab. tech. M Krstić

Wed, November 4, 2015 14 – 17
SLIDE SEMINAR AND GROSS
Pathology of inflammation and repair
Prof S Tatić

Thr, November 12, 2015 7,45 –10
MICROSCOPIC SLIDE DEMONSTRATIONS
Histopathological features of circulatory disorders
Doc N Tomanović & assistants: E Manojlović-Gačić, D Obradović
Lab. tech. D Bajić
<table>
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<tr>
<th>Date</th>
<th>Time</th>
<th>Event Description</th>
<th>Speaker(s)</th>
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<tr>
<td>Wed, November 18, 2015</td>
<td>14 – 17</td>
<td>SLIDE SEMINAR AND GROSS Pathology of circulatory disorders</td>
<td>Doc N Tomanović</td>
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<td>Wed, November 25, 2015</td>
<td>14 – 16,15</td>
<td>MICROSCOPIC SLIDE DEMONSTRATIONS Histopathological features of benign tumors</td>
<td>Doc T Terzić &amp; assistants: Lj</td>
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<td>Lab. tech. D Tomić</td>
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<td>Wed, December 2, 2015</td>
<td>14 – 17</td>
<td>SLIDE SEMINAR AND GROSS</td>
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<tr>
<td>Wed, December 9, 2015</td>
<td>14 – 16,15</td>
<td>MICROSCOPIC SLIDE DEMONSTRATIONS Histopathological features of lung diseases</td>
<td>Prof J Sopta &amp; assistants: M Bosić, I Savić</td>
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<td>Lab. tech. D Bogičević</td>
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<tr>
<td>Wed, December 16, 2015</td>
<td>14 – 17</td>
<td>SLIDE SEMINAR AND GROSS Pathology of the respiratory system</td>
<td>Prof J Sopta</td>
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<td>Lab. tech. D Ćurčić</td>
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<tr>
<td>Wed, January 13, 2016</td>
<td>14 – 17</td>
<td>SLIDE SEMINAR AND GROSS Pathology of the skeletal system</td>
<td>Prof J Vasiljević</td>
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<td>Fri, January 15, 2016</td>
<td>13-16</td>
<td>SLIDE SEMINAR AND GROSS Pathology of the skeletal system</td>
<td>Prof J Sopta &amp; assistants: R Kovačević, N</td>
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<td>Wed, January 20, 2016</td>
<td>14 – 17</td>
<td>MICROSCOPIC SLIDE DEMONSTRATIONS Pathology of the skeletal system</td>
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<td>Wed, January 27, 2016</td>
<td>14 – 16,15</td>
<td>MICROSCOPIC SLIDE DEMONSTRATIONS</td>
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NOTICE!
Fri, January 22, 2016  14 - 14,45  Colloquium I  (General pathology, neoplasia, respiratory system, cardiovascular system, skeletal system)
Fri, January 29, 2016  14 – 14,45  Colloquium I repeat
I Histopathological features of basic injury of cells and extracellular matrix (Wed, October 14, 2015)
1. Atrophia et sclerosis testis (Testicular atrophy with sclerosis)
2. Atrophia fusca hepatic (Brown atrophy of the liver)
3. Amyloidosis renis (Renal amyloidosis)
4. Amyloidosis lienis (Amyloidosis of the spleen)
5. Hyalinosis vasorum lienis (Hyalinosis of the blood vessels of the spleen)
6. Infiltratio adiposa myocardi (Fatty ingrowth of the myocardium)
7. Metamorphosis adiposa hepatis diffusa (Fatty change of the liver)

II Histopathological features of inflammation (Wed, October 28, 2015)
14. Pleuritis fibrinoso-purulenta (Fibrinous-purulent pleuritis)
15. Abscessus hepatic (Liver abscess)
16. Phlegmone cutis (Phlegmone of the skin)
17. Appendicitis phlegmonosa (Phlegmonose appendicitis)
18. Lymphadenitis tuberculosa (TBC) (Tuberculous lymphadenitis)
19. Cysticercosis cerebri (Cerebral cysticercosis)
20. Granuloma corporis alieni (Foreign body type granuloma)

III Histopathological features of circulatory disorders (Thr, November 12, 2015)
8. Hyperaemia passiva pulmonis chronica (Haemosiderosis pulmonum) (Pulmonary haemosiderosis)
9. Necrosis hepatis centralis haemorrhagica (Hemorrhagic necrosis of the liver)
10. Hyperaemia passiva lienis chronica (Chronic passive congestion of the spleen)
11. Thrombus venae in organisatione (Organization of the venous thrombus)
12. Infarctus anaemicus renis (White (pale) infarct of the kidney)
13. Infarctus haemorrhagicus pulmonis (Hemorrhagic infarct of the lung)

IV Histopathological features of benign and malignant tumors (Wed, November 25, 2015)
21. Papilloma mucosae oris (Papilloma of the oral mucosa)
22. Polypus cervicis uteri (Cervical polyp)
23. Adenoma tubulare intestini coli (Adenomatous polyp of the colon)
24. Malignant cells on smear preparation (Malignant cells in cytological smears)
25. HSIL cervicis uteri (Cervical high grade squamous intraepithelial lesion (HSIL))
26. Carcinoma planocellulare invasivum cervicis uteri (Invasive squamous cell carcinoma of uterine cervix)
27. Adenocarcinoma pulmonis (Pulmonary adenocarcinoma)
28. Carcinoma metastaticum in medulla ossis (Metastatic carcinoma to the bone marrow)
29. Carcinoma metastaticum in nodo lymphatico (Metastatic carcinoma to the lymph node)
V  Histopathological features of lung diseases (Wed, December 9, 2015)
36. Pneumonia fibrinosa s. cruposa (stadium hepatisationis griseae) (Lobar pneumonia)
37. Bronchopneumonia fibrinosa-purulenta (Lobular pneumonia)
38. Bronchopneumonia caseosa tuberculosa (Tuberculous caseous bronchopneumonia)
39. Tuberculosis miliaris pulmonis (Miliary tuberculosis of the lung)
40. Membranae hylineae pulmonum (ARDS) (Acute respiratory distress (ARDS) or Diffuse alveolar damage)
41. Emphysema pulmonum (Pulmonary emphysema)
42. Small cell lung carcinoma (oat cell) (Small cell carcinoma (Oat cell))

VI Histopathological features of cardiovascular diseases (Wed, December 23, 2015)
30. Myofibrosis cordis (Fibrosis of the myocardium)
31. Myocarditis virosa (Viral myocarditis)
32. Benign nephrosclerosis
33. Atherosclerosis aortae (Atherosclerosis of the aorta)
34. Infarctus myocardii (Myocardial infarct)
   Polyarteritis nodosa (Demonstration slide)

VII Histopathological features of bone and joint diseases and soft tissue tumors
(Wed, January 20, 2016)
91. Synovitis chronica (Chronic synovitis)
92. Osteomyelitis chronica (Chronic osteomyelitis)
93. Chondroma
94. Sarcoma Ewing (Ewing’s sarcoma)
95. Tumor gigantocellulare (Giant cell tumor)
96. Osteosarcoma
97. Lipoma
98. Leiomyoma
99. Rhabdomyosarcoma
100. Leiomyosarcoma

Slide review (Wed, January 27, 2016)
<table>
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<tr>
<th>Lectures in Pathology</th>
<th>VI Semester</th>
<th>2015/2016</th>
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<tr>
<td>Mon, February 22</td>
<td>(12-12,45)</td>
<td>Soft tissue tumors  Prof J Sopta</td>
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<td>(13–13,45)</td>
<td>Head and neck       Prof Z Stojšić</td>
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<td>Mon, February 29</td>
<td>(12-12,45)</td>
<td>Gastrointestinal system Prof Z Stojšić</td>
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<td>Gastrointestinal system Prof Z Stojšić</td>
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<td>Mon, March 7</td>
<td>(12-12,45)</td>
<td>Gastrointestinal system Prof Z. Stojšić</td>
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<td>Gastrointestinal system Prof Z. Stojšić</td>
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<td>Mon, March 14</td>
<td>(12-12,45)</td>
<td>Gastrointestinal system Prof Z Stojšić</td>
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<td>(13-13,45)</td>
<td>Pathology of the liver Prof I. Boričić</td>
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<td>Mon, March 21</td>
<td>(12-12,45)</td>
<td>Pathology of the liver Prof I. Boričić</td>
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<td>Pathology of the liver Prof I Boričić Gazibara</td>
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<td>Mon, March 28</td>
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<td>Pathology of the biliary tract Prof I Boričić Gazibara</td>
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<td>Neuropathology Prof M Skender Gazibara</td>
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<td>Mon, April 4</td>
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<td>Neuropathology Prof M Skender Gazibara</td>
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<td>Mon April 11</td>
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<td>Neuropathology Prof M Skender Gazibara</td>
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<td>Neuropathology Prof M Skender Gazibara</td>
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<td>Mon April 18</td>
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<td>Neuropathology Prof M Skender Gazibara</td>
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<td>Diseases of PNS and skeletal muscle Prof M Skender Gazibara</td>
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<td>Organs of special sense Prof M. Skender Gazibara</td>
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<td>Mon, April 25</td>
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<td>Nephropathology Prof dr G Basta Jovanović</td>
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<td>Jovanović dr G Basta Jovanović</td>
<td>(13-13,45)</td>
<td>Nephropathology Prof dr G Basta Jovanović</td>
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<td>Mon, May 9</td>
<td>(12-12,45)</td>
<td>Nephropathology Prof J Marković Lipkovski</td>
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<td>(13-13,45)</td>
<td>Nephropathology Prof J Marković Lipkovski</td>
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Mon, May 16  (12-12,45)  Female genital system  Prof G Basta

Mon, May 23  (12-12,45)  Female genital system  Prof G Basta

Mon, May 30  (12-12,45)  Male genital system  Prof J Marković

PATHOLOGY - PRACTICAL EXERCISES
VI SEMESTER 2015/2016

IMPORTANT!
During this week BOTH slide seminar and microscopic slide demonstration will be held on Thursday and Friday, respectively:

Thr, February 18  14 - 17  SLIDE SEMINAR AND GROSS DEMONSTRATIONS
breast pathology
Prof S Tatić

Fri, February 19  14 - 16,15  MICROSCOPIC SLIDE DEMONSTRATIONS
Endocrine system and breast pathology
Prof S Tatić & assistants: R Kovacevic, D Obradović
Lab tech M. Krstić

IMPORTANT!
During this week BOTH slide seminar and microscopic slide demonstration will be held on Thursday and Friday, respectively:

Thr, February 25  14 -17  SLIDE SEMINAR AND GROSS DEMONSTRATIONS
Pathology of the skin
Prof D Brašanac

Fri, February 26  14 – 16,45  MICROSCOPIC SLIDE DEMONSTRATION
Histopathological features of skin diseases
Prof D Brašanac & assistants: M Bosić, J
Lab. tech. D Pavić

Thr, March 3 14 – 16,45
DEMONSTRATIONS
Histopathological features of hematopoietic diseases
Doc T Terzić & assistants: N Boričić, I Savić
Lab. tech. D Bogićević

Thr, March 10 14 – 17
DEMONSTRATIONS
hematopoietic system

Thr, March 17 14 – 17
DEMONSTRATIONS
Gastrointestinal system, pancreas and
peritoneum

Thr, March 24 14-16,15
DEMONSTRATIONS
Gastrointestinal system

Thr, March 31 14 – 17
DEMONSTRATIONS
liver and biliary tract

Thr, April 7 14 – 16, 15
MICROSCOPIC SLIDE DEMONSTRATIONS
Histopathological features of liver diseases
Prof I. Boričić & assistants: S Glumac, I Savić
Lab. tech. D Ćurčić

Thr. April 14 14 – 16,45
MICROSCOPIC SLIDE DEMONSTRATIONS
Histopathological features of CNS diseases
Prof M Skender-Gazibara & assistants: E Manojlović Gačić,
N Boričić
Lab. tech. D Pavić

Thr. April 21 14 – 17
DEMONSTRATIONS
SLIDE SEMINAR AND GROSS
Neuropathology
Prof M Skender Gazibara

Thr. April 28 14 – 17
DEMONSTRATIONS

SLIDE SEMINAR AND GROSS

Nephropathology
Prof dr J Marković-Lipkovski

Thr. May 5 14 - 16,15

MICROSCOPIC SLIDE DEMONSTRATIONS

Histopathological features of
Prof dr G Basta-Jovanović

renal diseases
& assistants: Lj Bogdanović,

D Obradović
Lab. tech. D. Bogićević

Thr. May 12 14 – 17
DEMONSTRATIONS

genital tract

SLIDE SEMINAR AND GROSS

Male & female

Prof dr G Basta-Jovanović

Thr. May 19 14 – 16,15

MICROSCOPIC SLIDE DEMONSTRATIONS

Male & female genital tract
Prof dr J Marković-Lipkovski & assistants: J Vještica, M Životić
Lab. tech. D Tomić

Thr. May 26 14 – 16,15

MICROSCOPIC SLIDE DEMONSTRATIONS

Slide review (V&VI semester) &
signature

Prof Z Stojšić & assistants: I Savić, M Bosić
Lab. tech. B. Manasijević

NOTICE!
Fri, May 13, 2016 14 - 14,45
Colloquium II (skin, hematopoietic system,
endocrine

system and breast, head and neck, gastrointestinal system,
liver and biliary tract, nephropathology, neuropathology)

Fri, May 20, 2016 14 – 14,45
Colloquium II repeat

Five (5) autopsies with a 45-min PPT presentation of histological findings in e-classroom will be performed in the VI semester.

PRACTICAL EXERCISES – MICROSCOPIC SLIDE DEMONSTRATIONS

VI SEMESTER 2015/2016

VIII Histopathological features of endocrine glands and breast diseases (Fri, Feb 19, 2016)

54. Struma colloiides glandulae thyreoideae (Goiter)
55. Hashimoto thyreoiditis (struma lymphomatosa) (Hashimoto thyreoiditis)
56. Carcinoma papillare glandulae thyreoideae (Papillary carcinoma of the thyroid gland)
57. Carcinoma folliculare glandulae thyreoideae (Follicular carcinoma of the thyroid gland)
58. Pheochromocytoma
59. Fibrocystic changes of the breast
60. Fibroadenoma mammae (Breast fibroadenoma)
61. Carcinoma mammae ductale invasivum (Ductal invasive carcinoma of the breast)

IX  Histopathological features of skin lesions (Fri, Feb 26, 2016)
84. Naevus naevocellularis (Common melanocytic nevus)
85. Keratosis seborrhoica (Seborrheic keratosis)
86. Dermatofibroma
87. Haemangioma cutis (Haemangioma of the skin)
88. Melanoma malignum (Malignant melanoma)
89. Carcinoma planocellulare cutis (Squamous cell carcinoma)
90. Carcinoma basocellulare cutis (Basal cell carcinoma)

X  Histopathological features of hematopoietic diseases (Thr, March 3, 2016)
79. Hyperplasia follicularis lymphonodi (Follicular hyperplasia of the lymph node)
80. Hodgkin lymphoma
81. Small lymphocyte lymphoma
82. Diffuse large B-cell lymphoma
83. Burkitt lymphoma

XI Histopathological features of gastrointestinal diseases (Thr. March 24, 2016)
42. Adenoma pleomorphe (Pleomorphic adenoma (Mixed tumor) of the salivary gland)
43. Gastritis chronica (Chronic gastritis)
44. Adenocarcinoma ventriculi (Gastric adenocarcinoma)
45. Ulcus ventriculi chronicum (Gastric peptic ulcer)
46. Colitis ulcerosa chronica (Chronic ulcerative colitis)
47. Adenocarcinoma intestini coli (Adenocarcinoma of the colon)
48. Carcinoma pancreatis (Pancreatic carcinoma)

XII Histopathological features of liver diseases (Thr. April 7, 2016)
49. Cholestasis (Cholestasis)
50. Adenocarcinoma ventriculi metastaticum in hepate (Metastatic gastric adenocarcinoma to the liver)
51. Hepatitis virosa (Acute viral hepatitis)
52. Cirrhosis hepatitis (Hepatic cirrhosis)
53. Carcinoma hepatitis hepatocellulare (Hepatocellular carcinoma of the liver)

XIII Histopathological features of CNS diseases (Thr, April 14, 2016)
101. Haemorrhagia cerebri hypertensiva (Hypertensive cerebral hemorrhage)
102. Infarcitus cerebri (Cerebral infarct)
103. Leptomeningitis purulent (Purulent leptomeningitis)
104. Leptomeningitis tuberculosa (Tuberculous leptomeningitis)
105. Encephalitis virosa (Viral encephalitis)
106. Meningioma
107. Glioblastoma multiforme

XIV Histopathological features of renal diseases (Thr, May 5, 2016)
62. Pyelonephritis purulenta (Purulent pyelonephritis)
63. Glomerulocapilaris endocapilaris s. acuta (Acute poststreptococcal proliferative glomerulonephritis)
64. Nephropathia diabetica (Diabetic nephropathy)
65. Carcinoma transitiocellulare (urotheliale) papillare (Papillary transitional cell (urothelial) carcinoma of the bladder)
66. Carcinoma lucidocellulare renis (Renal cell carcinoma)
67. Wilms tumor

XV Histopathological features of male and female genital tract diseases (Thr. May 19, 2016)
69. Epididymitis purulenta subacuta (Subacute purulent epididymitis)
70. Seminoma testis (Seminoma of the testis)
71. Hyperplasia nodularis prostatae (Benign hyperplasia of the prostate)
72. Graviditas tubaria (Ectopic pregnancy of the Fallopian tube)
73. Hyperplasia endometrii simplex nonatypica (Simple endometrial hyperplasia without atypia)
74. Adenocarcinoma endometrii (Endometrial adenocarcinoma)
75. Cystadenoma ovarii serosum (Serous ovarian cystadenoma)
76. Mola hydatidosa (Hydatiform mole)
77. Choriocarcinoma
78. Teratoma maturum (Mature teratoma)

Slide review (V & VI semester) (Thr, May 26, 2016)

Coordinator for Pathology
Prof. Dr. Z. Stojšić
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