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: 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 and the gross examination of formalin fixed organs or tissues 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 practical and theoretical examination.

1. 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.

2. Final test consists of 100 questions. The minimum of the points to pass the Final test is 51.

Before the final exam, a student has to enter three quizzes, but it is not compulsory to pass a quiz. In other words, a student has to enter a given quiz, but has not to pass it before the final exam. The student gains the bonus of 2 points for the quiz if passed only
at the first attempt. A student must retake a given quiz which is not awarded with points. Entering the final exam, a student may have gained a total bonus of 6 points from three quizzes (passed at a first attempt) and at least 1 point from Practical exam (5 slides) which is obligatory (a total of 7 points).

Practical Exam: 3 correct slides 1 point
4 correct slides 2 points
5 correct slides 3 points

In addition, the student is awarded for class attendance with up to 3 points which represent the hours attended of the total 90 hours of lectures:

Attended hours: 61 - 70 = 1 pt
71 - 80 = 2 pts
81 - 90 = 3 pts

FINAL MARK:
Final test (minimum 51/100) + Total Quiz bonus points at the first attempt + Practical exam + Lectures attendance.
Minimal total score to pass the Final exam is 52 points (51 final test pts + 1 practical exam point = 52 pts); maximum total score is 112 pts.

The final marks are the following:

<table>
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<tr>
<th>Total score points</th>
<th>Final mark</th>
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<td>52 - 68</td>
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Three quizzes will be organized during the school year. It is obligatory to enter the quiz, but it is not obligatory to pass it. Each quiz consists of 30 questions. Each question offers five different answers, but only one answer is correct. At least 51% of the questions (16/30) should be answered correctly to pass the quiz. Only the first successful attempt is granted with 2 points per quiz. A student may get a total of 6 bonus points from 3 quizzes. The points from the quizzes are included to the Final mark.

First quiz (including General pathology and Neoplasia) will be organized at the end of the first semester.
The second quiz (including the following chapters of Systemic pathology: Cardiovascular system, Respiratory system, Hematopoietic system, Endocrine system & Breast, Skin, Skeletal system) will be organized at the end of March, and the third quiz (including the following chapters of Systemic pathology: Head and Neck pathology, Gastrointestinal tract, Hepatobiliary system, Neuropathology, Genital system, Nephropathology) during the last week of the second semester.
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

5. Circulatory disorders ……………………………………………………………………………….4 hrs

6. Immunopathology………………………………………………………………………………….2 hr
7. Transplantation


8. Genetic and pediatric diseases


9. Environmental diseases


10. Neoplasia


SYSTEMIC PATHOLOGY (59 hrs)

1. Cardiovascular system


2. Respiratory system


3. Head and neck

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
Pathology of pregnancy: ectopic pregnancy, gestational trophoblastic disease, hydatidiform mole, choriocarcinoma.

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…………………………………………………………………………6 hrs

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

14. Diseases of peripheral nervous system and skeletal muscle……………………………..1 hr
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)

I. 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

II. 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 phlegmonose (Phlegmonose appendicitis)
Lymphadenitis tuberculosa (TBC) (Tuberculous lymphadenitis)
Cysticercosis cerebri (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 fibrinoso-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)
Ulcer ventriculi chronicum (Gastric peptic ulcer)
Colitis ulcerosa chronic (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 hepe (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 thyroideae (Goiter)
Hashimoto thyreoiditis (struma lymphomatosa) (Hashimoto thyreoiditis)
Carcinoma papillare glandulae thyroideae (Papillary carcinoma of the thyroid gland)
Carcinoma folliculare glandulae thyroideae (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 leptomenigitis)
Leptomeningitis tuberculosa (Tuberculous leptomenigitis)
Encephalitis virosa (Viral encephalitis)
Meningioma
Glioblastoma multiforme

III. AUTOPSY (5 x 4 hrs + 1 hr ppt histology)
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 Jasmina Marković Lipkovski
dr Gordana Basta Jovanović
dr Ivan Borić
dr Svetislav Tatil
dr Dimitrije Brašanac
dr Jelena Sopta
dr Tatjana Teržić
dr Nada Tomanović
dr Sanja Radojević-Škodrić
dr Zorica Stojčić

ASSISTENTS:
dr Sofija Glumac
dr Emilja Manojlović-Gašić
dr Radmila Janković
dr Martina Bosil
dr Duško Dundjerović
dr Ljiljana Bogdanović
dr Jelena Vježica
dr Novica Borić i ši saradnik u nastavi
dr Relja Kovačević i ši saradnik u nastavi

Coordinator for Pathology: Prof dr Zorica Stojčić
E-mail address: zstojsic@med.bg.ac.rs
LECTURES IN PATHOLOGY

V SEMESTER 2014/2015
(Lectures are held at the Institute of Pathology, Library room, 1st floor)

GENERAL PATHOLOGY

Mon, October 13  
12-12,45  Introduction to pathology  
(13-13,45)  Cellular adaptations  
Gazibara  
Prof. Z. Stojčić  
Prof. M. Skender

Tue, October 14  
12-12,45  Disturbances in metabolism  
Lipkovski  
Prof. J. Marković

Tue, October 14  
13-13,45  Disturbances of minerals  
Lipkovski  
Hyaline change & amyloidosis  
Prof. J. Marković

Mon, October 20  
12-12,45  Subcellular responses to injury  
(13-13,45)  Disturbances of minerals and pigments metabolism  
Prof. S. Tatić  
Prof. S. Tatić

Tue, October 21  
12-12,45  Apoptosis & Necrosis  
Lipkovski  
(13-13,45)  Inflammation  
Prof. J. Marković  
Prof. S. Tatić

Mon, October 27  
12-12,45  Inflammation  
(13-13,45)  Inflammation  
Prof. S. Tatić  
Prof. S. Tatić

Tue, October 28  
12-12,45  Infectious diseases  
(13-13,45)  Infectious diseases  
Prof. S. Tatić  
Prof. S. Tatić

Mon, November 3  
12-12,45  Infectious diseases  
(13-13,45)  Circulatory disorders  
Prof. S. Tatić  
Doc. N. Tomanović

Tue, November 4  
12-12,45  Circulatory disorders  
(13-13,45)  Circulatory disorders  
Doc. N. Tomanović  
Doc. N. Tomanović

Mon, November 10  
12-12,45  Circulatory disorders  
(13-13,45)  Healing and repair  
Doc. N. Tomanović  
Prof. M. Skender

Wed, November 12  
10-10,45  Immunopathology  
Radojević Škodrić  
(11-11,45)  Immunopathology  
Doc. dr. S.

Radojević Škodrić

Mon, November 17  
12-12,45  Transplantation  
Lipkovski  
(13-13,45)  Nutritional diseases  
Prof. J. Marković  
Prof. M. Skender

Tue, November 18  
12-12,45  Injuries by heat and cold & Effects of ionizing radiation  
Prof. Z. Stojčić
Mon, November 24
(12-12,45) Neoplasia Prof D. Brašanac
(13-13,45) Neoplasia Prof D. Brašanac

Tue, November 25
(12-12,45) Neoplasia Prof D. Brašanac
(13-13,45) Neoplasia Prof D. Brašanac

Mon, December 1
(12-12,45) Neoplasia Prof D. Brašanac
(13-13,45) Pediatric diseases Prof D. Brašanac

Tue, December 2
(12-12,45) Genetic disorders Prof D. Brašanac

SYSTEMIC PATHOLOGY

Tue, December 2
(13-13,45) Respiratory system Doc J. Sopta

Mon, December 8
(12-12,45) Respiratory system Doc J. Sopta
(13-13,45) Respiratory system Doc J. Sopta

Tue, December 9
(12-12,45) Respiratory system Doc J. Sopta
(13-13,45) Respiratory system Doc J. Sopta

Mon, December 15
(12-12,45) Respiratory system Doc J. Sopta
(13-13,45) Cardiovascular system Prof J. Vasiljević

Tue, December 16
(12-12,45) Cardiovascular system Prof J. Vasiljević
(13-13,45) Cardiovascular system Prof J. Vasiljević

Mon, December 22
(12-12,45) Cardiovascular system Prof J. Vasiljević
(13-13,45) Cardiovascular system Prof J. Vasiljević

Vasiljević

Tue, December 23
(12-12,45) Cardiovascular system Prof J. Vasiljević
(13-13,45) Skeletal system Doc J. Sopta

Mon, January 12
(12-12,45) Skeletal system Doc J. Sopta
(12.45-13.30) Skeletal system Doc J. Sopta
(13.30-14.15) Skeletal system Doc J. Sopta

Tue, January 13
(12-12,45) Pathology of the breast Prof S. Tatılı
(13-13,45) Endocrine system Prof S. Tatılı

Mon, January 19
(12-12,45) Endocrine system Prof S. Tatılı
(13-13,45) Endocrine system Prof S. Tatılı

Tue, January 20
(12-12,45) Pathology of the skin Prof D Brašanac
(13-13,45) Pathology of the skin Prof D Brašanac

Mon, January 26
(12-12,45) Pathology of the skin Prof D Brašanac
(13-13,45) Hematopoietic system Doc T Terzić
Tue, January 27  
(12-12,45)  
Hematopoietic system  
Doc T Terzić
(13-13,45)  
Hematopoietic system  
Doc T Terzić

Wed, January 28  
(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 2014/2015
(All practical sessions will be held at the Institute of Pathology)

Wed, October 15, 2014  15.45 – 18
MICROSCOPIC SLIDE DEMONSTRATIONS
Basic injury of cells and extracellular matrix
Prof Z Stojić & Ass. E. Manojlović Gajić
Lab. tech. B. Manasijević

Wed, October 22, 2014  14.17
SLIDE SEMINAR AND GROSS
Basic pathology of cell and extracellular matrix
Prof S. Tatić

Wed, October 29, 2014  14.16,15
MICROSCOPIC SLIDE DEMONSTRATIONS
Histopathological features of inflammation
Prof S. Tatić & Ass R. Janković
Lab. Tech. M Stojković

Wed, November 5, 2014  14.17
SLIDE SEMINAR AND GROSS
Pathology of inflammation and repair
Prof S. Tatić

Wed, November 12, 2014  14.16,15
MICROSCOPIC SLIDE DEMONSTRATIONS
Histopathological features of circulatory disorders
Doc N. Tomanović & Ass. D. Dundjerović
Lab. tech. D. Bajić

Wed, November 19, 2014  14.17
SLIDE SEMINAR AND GROSS
Pathology of circulatory disorders
Doc N. Tomanović
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<tr>
<td>Wed, November 26, 2014</td>
<td>14 ĭ 16,15</td>
<td>MICROSCOPIC SLIDE DEMONSTRATIONS</td>
<td>Histopathological features of benign tumors</td>
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<td>Doc dr T. Terzić &amp; Ass. Dr Lj.</td>
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<td>Wed, December 3, 2014</td>
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<td>SLIDE SEMINAR AND GROSS</td>
<td>General pathology of neoplasia</td>
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<td>Prof D. Brašanac</td>
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<td>MICROSCOPIC SLIDE DEMONSTRATIONS</td>
<td>Histopathological features of lung diseases</td>
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<td>SLIDE SEMINAR AND GROSS</td>
<td>Pathology of the cardiovascular system</td>
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<td>SLIDE SEMINAR AND GROSS</td>
<td>Pathology of the skeletal system</td>
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<td>Wed, January 28, 2015</td>
<td>14 ĭ 16,15</td>
<td>MICROSCOPIC SLIDE DEMONSTRATIONS</td>
<td>Slide review V semester &amp; Signature</td>
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<td>Prof dr Z. Stojić &amp; Ass S. Glumac</td>
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<td>Lab. tech. Dućın Pavlić</td>
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<td>Fri, January 30, 2015</td>
<td>14,00 - 14,45</td>
<td>QUIZ I (General pathology and Neoplasia)</td>
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PRACTICAL EXERCISES - MICROSCOPIC SLIDE DEMONSTRATIONS

V SEMESTER 2014-2015

I Histopathological features of basic injury of cells and extracellular matrix (Wed, October 15, 2014)
1. Atrophia et sclerosis testis (Testicular atrophy with sclerosis)
2. Atrophia fusca hepatic (Brown atrophy of the liver)
3. Amylodosis renis (Renal amyloidosis)
4. Amylodosis lienis (Amyloidosis of the spleen)
5. Hyalinosis vasorum lienis (Hyalinosis of the blood vessels of the spleen)
6. Infiltratio adiposa myocardii (Fatty ingrowth of the myocardium)
7. Metamorphosis adiposa hepati diffusa (Fatty change of the liver)

II Histopathological features of inflammation (Wed, October 29, 2014)
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 (Wed, November 2, 2014)
8. Hyperaemia passiva pulmonis chronic (Haemosiderosis pulmonum) (Pulmonary haemosiderosis)
9. Necrosis hepatis centralis haemorrhagica (Hemorrhagic necrosis of the liver)
10. Hyperaemia passiva lienis chronic (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 26, 2014)
21. Papilloma mucosae oris (Papilloma of the oral mucosa)
22. Polypus cervix (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 cervix (Cervical high grade squamous intraepithelial lesion (HSIL))
26. Carcinoma planocellulare invasivum cervix (Invasive squamous cell carcinoma of uteri 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 10, 2014)
36. Pneumonia fibrinosa s. cruposa (stadium hepatisationis griseae) (Lobar pneumonia)
37. Bronchopneumonia fibrinoso-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 24, 2014)
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 21, 2015)
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 28, 2015)
LECTURES IN PATHOLOGY  VI SEMESTER  2014/2015

Mon, February 23  (12-12,45)  Soft tissue tumors   Doc. J. Sopta
(13-13,45)  Head and neck  Prof Z. Stojčić

Mon, March 2  (12-12,45)  Gastrointestinal system   Prof Z. Stojčić
(13-13,45)  Gastrointestinal system  Prof Z. Stojčić

Mon, March 9  (12-12,45)  Gastrointestinal system   Prof Z. Stojčić
(13-13,45)  Gastrointestinal system  Prof Z. Stojčić

Mon, March 16 (12-12,45)  Gastrointestinal system  Prof Z. Stojčić
(13-13,45)  Pathology of the liver  Prof I. Boričić

Mon, March 23 (12-12,45)  Pathology of the liver  Prof I. Boričić
(13-13,45)  Pathology of the liver  Prof I. Boričić

Mon, March 30  (12-12,45)  Pathology of the biliary tract  Prof I. Boričić
(13-13,45)  Neuropathology  Prof M. Skender Gazibara

Mon, April 6  (12-12,45)  Neuropathology  Prof M. Skender Gazibara
(13-13,45)  Neuropathology  Prof M. Skender

Mon, April 20 (12-12,45)  Neuropathology  Prof M. Skender Gazibara
(13-13,45)  Diseases of PNS and skeletal muscle  Prof M. Skender Gazibara

Mon, April 27 (12-12,45)  Nephropathology  Prof dr G. Basta Jovanović
(13-13,45)  Nephropathology  Prof dr G. Basta Gazibara

Dr G. Basta Jovanović
Mon, May 4  (12-12,45)  Nephropathology  Prof J. Marković Gazibara
(13-13,45)  Nephropathology  Prof J. Marković

Mon, May 11  (12-12,45)  Nephropathology  Prof J. Marković Gazibara
(13-13,45)  Nephropathology  Prof J. Marković

Mon, May 18  (12-12,45)  Nephropathology  Prof J. Marković Gazibara
(13-13,45)  Nephropathology  Prof J. Marković

Mon, May 25  (12-12,45)  Nephropathology  Prof J. Marković Gazibara
(13-13,45)  Nephropathology  Prof J. Marković
Mon, May 11 (12-12,45) Female genital system Prof G. Basta
Jovanović
(13-13,45) Female genital system Prof G. Basta
Jovanović
Mon, May 18 (12-12,45) Female genital system Prof G. Basta
Jovanović
(13-13,45) Female genital system Prof G. Basta Jovanović
Mon, May 25 (12-12,45) Male genital system Prof J. Marković
Lipkovski
(13-13,45) Male genital system Prof J. Marković
Lipkovski

PATHOLOGY - PRACTICAL EXERCISES
VI SEMESTER 2014/2015

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

Thr, February 19 14 - 17 SLIDE SEMINAR AND GROSS
DEMONSTRATIONS Endocrine system and
breast pathology
Prof S. Tatíć

Fri, February 20 14 - 16,15 MICROSCOPIC SLIDE
DEMONSTRATIONS Endocrine
system and breast pathology
Prof S. Tatíć & Ass. D. Dundjerović
Lab. tech. M. Kostić

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

Thr, February 26 14 - 17 SLIDE SEMINAR AND GROSS
DEMONSTRATIONS Pathology of the skin
Prof D. Bračanac

Fri, February 27 14 – 16,45 MICROSCOPIC SLIDE
DEMONSTRATION
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<td>Prof D. Brašnanac &amp; Ass M. Bosil</td>
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<td>Lab. tech. M. Stojkovi</td>
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<td>NOTICE! Fri, March 27</td>
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Thr. April 23 14 ÷ 17
DEMONSTRATIONS

SLIDE SEMINAR AND GROSS

Neuropathology
Prof M. Skender Gazibara

Thr. April 30 14 ÷ 17
DEMONSTRATIONS

SLIDE SEMINAR AND GROSS
Nephropathology
Prof G. Basta Jovanović

Thr. May 7 14 ÷ 16,15

MICROSCOPIC SLIDE DEMONSTRATIONS
renal diseases
Lipkovski & Ass J. Vjeğica
D. Tomić

Thir. May 14 14 ÷ 17
DEMONSTRATIONS

Male & female genital tract

Prof J. Marković Lipkovski

Thr. May 21 14 ÷ 16,15

MICROSCOPIC SLIDE DEMONSTRATIONS

Male & female genital tract
Prof G. Basta Jovanović & Ass. Lj. Bogdanović
Lab. tech. D. Pavlić

Thr. May 28 14 ÷ 16,15

MICROSCOPIC SLIDE DEMONSTRATIONS
signature

Prof Z. Stojğić, Ass. D. Dundjerović
Lab. tech. B. Manasijević

NOTICE!  Fri, May 29 14.00 – 14.45: QUIZ III (Head and neck pathology, Gastrointestinal system, Liver and biliary tract, Nephropathology, Neuropathology).

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 2014/2015

VIII Histopathological features of endocrine glands and breast diseases (Fri, Feb 20, 2015)
54. Struma colloides glandulae thyreoideae (Goiter)
55. Hashimoto thyreoiditis (struma lymphomatosa) (Hashimoto thyroiditis)
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 27, 2015)
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 5, 2015)
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 26, 2015)
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 9, 2015)
49. Cholestasis (Cholestasis)
50. Adenocarcinoma ventriculi metastaticum in hepate (Metastatic gastric adenocarcinoma to the liver)
51. Hepatitis virosa (Acute viral hepatitis)
52. Cirrhosis hepatis (Hepatic cirrhosis)
53. Carcinoma hepatis hepatocellulare (Hepatocellular carcinoma of the liver)

XIII Histopathological features of CNS diseases (Thr, April 16, 2015)
101. Haemorrhagia cerebri hypertensiva (Hypertensive cerebral hemorrhage)
102. Infarctus cerebri (Cerebral infarct)
103. Leptomeningitis purulenta (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 7, 2015)
62. Pyelonephritis purulenta (Purulent pyelonephritis)
63. Glomerulocapilaris endocapilaris s. acuta (Acute poststreptococcal proliferative glomerulonephritis)
64. Nephropathia diabetica (Diabetic nephropathy)
65. Carcinoma transitiozellulare (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 21, 2015)
69. Epididymitis purulenta subacuta (Subacute purulent epididymitis)
70. Seminoma testis (Seminoma of the testis)
71. Hyperplasia nodularis prostaticae (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 28, 2015)

Coordinator for Pathology
Professor Zorica Stojšić
e-mail: zstojsic@med.bg.ac.rs