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>
<thead>
<tr>
<th>Total score points</th>
<th>Final mark</th>
</tr>
</thead>
<tbody>
<tr>
<td>52 – 68</td>
<td>6</td>
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<td>69 – 79</td>
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<td>80 – 90</td>
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<td>91 – 101</td>
<td>9</td>
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<tr>
<td>102 – 112</td>
<td>10</td>
</tr>
</tbody>
</table>

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

10. Skin

11. Skeletal system, joints and soft tissue tumors

12. Organs of special senses

13. Central nervous system

14. Diseases of peripheral nervous system and skeletal muscle
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 + 1hr 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 myocardi (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)
III Histopathological features of inflammation
Pleuritis fibrinoso-purulenta (Fibrinous-purulent pleuritis)
Abscessus hepatic (Liver abscess)
Phlegmon cutis (Phlegmon of the skin)
Appendicitis phlegmonosa (Phlegmonous 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)
Ulcus 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 hepate (Metastatic gastric adenocarcinoma to the liver)
Hepatitis virosa (Acute viral hepatitis)
Cirrhosis hepatis (Hepatic cirrhosis)
Carcinoma hepatis hepatocellulare (Hepatocellular carcinoma of the liver)

IX Histopathological features of endocrine glands and breast diseases
Struma colloidae 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 prostatica (Benign prostatic hyperplasia)
Graviditas tubaria (Ectopic pregnancy of the Fallopian tube)
Hyperplasia endometrii simplex nonatypica (Simple endometriual 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 malignant (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

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 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 – saradnik u nastavi  
dr Relja Kovačević – saradnik u nastavi

Coordinator for Pathology: Prof dr Zorica Stojšić  
E-mail address: zstojsic@med.bg.ac.rs
<table>
<thead>
<tr>
<th>DAY</th>
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<th>HOUR</th>
<th>SUBJECT</th>
<th>SPEAKER</th>
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<td>(12-12,45)</td>
<td>Introduction to pathology</td>
<td>Prof Z. Stojšić</td>
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<td>(13-13,45)</td>
<td>Cellular adaptations</td>
<td>Prof M. Skender</td>
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<td>Gazibara</td>
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<td>Tue, October 14</td>
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<td>Disturbances in metabolism</td>
<td>Prof J. Marković</td>
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<td>Lipkovski</td>
<td>(13-13,45)</td>
<td>Hyaline change &amp; amyloidosis</td>
<td>Prof J. Marković</td>
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<td>Subcellular responses to injury</td>
<td>Prof S. Tatić</td>
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<td>Disturbances of minerals and pigments metabolism</td>
<td>Prof S. Tatić</td>
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<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>Prof S. Tatić</td>
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<td>Inflammation</td>
<td>Prof S. Tatić</td>
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<td>Prof S. Tatić</td>
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<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 4</td>
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<td>Circulatory disorders</td>
<td>Doc N. Tomanović</td>
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<td>Doc N. Tomanović</td>
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<td>Gazibara</td>
<td>(13-13,45)</td>
<td>Healing and repair</td>
<td>Prof M. Skender</td>
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<td>Wed, November 12</td>
<td>(10-10,45)</td>
<td>Immunopathology</td>
<td>Doc dr S.</td>
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<td>Radojević Škodrić</td>
<td>(11-11,45)</td>
<td>Immunopathology</td>
<td>Doc dr S.</td>
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<td>Mon, November 17</td>
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<td>Transplantation</td>
<td>Prof J. Marković</td>
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<td>Lipkovski</td>
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<td>Nutritional diseases</td>
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<td>Tue, November 18</td>
<td>(12-12,45)</td>
<td>Injuries by heat and cold &amp; Effects of ionizing radiation</td>
<td>Prof Z. Stojšić</td>
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Mon, November 24  (12-12,45)  Neoplasia  
(13-13,45)  Neoplasia  
Prof D. Brašanac

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

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

Tue, December 2  (12-12,45)  Genetic disorders 
SYSTEMIC PATHOLOGY

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

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

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

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

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

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

Vasiljević

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

Mon, January 12  (12-12,45)  Skeletal system  
(12,45-13,30)  Skeletal system  
(13,30-14,15)  Skeletal system  
Doc J. Sopta

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

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

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

Mon, January 26  (12-12,45)  Pathology of the skin  
(13-13,45)  Hematopoietic system  
Doc T Terzić
**PATHOLOGY - PRACTICAL EXERCISES**  
**V SEMESTER 2014/2015**  
*(All practical sessions will be held at the Institute of Pathology)*

<table>
<thead>
<tr>
<th>Date</th>
<th>Time (h)</th>
<th>Topic</th>
<th>Instructor(s)</th>
<th>Laboratory Assistant(s)</th>
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| Wed, October 15, 2014 | 15.45 – 18 | MICROSCOPIC SLIDE DEMONSTRATIONS  
Basic injury of cells and extracellular matrix | Prof Z. Stojšić & Ass. E. Manojlović Gačić  
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 | |
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<tr>
<td>Wed, November 19, 2014</td>
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<td>SLIDE SEMINAR AND GROSS Pathology of</td>
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<td></td>
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<td>Circulatory disorders Doc N. Tomanović</td>
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<td>and malignant tumors</td>
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<td>Bogdanović</td>
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<td>Wed, December 3, 2014</td>
<td>14 – 17</td>
<td>SLIDE SEMINAR AND GROSS General pathology of neoplasia Prof D. Brašanac</td>
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<td>Wed, December 17, 2014</td>
<td>14 – 17</td>
<td>SLIDE SEMINAR AND GROSS Pathology of the respiratory system Doc J. Sopta</td>
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<td>Wed, January 14, 2015</td>
<td>14 – 17</td>
<td>SLIDE SEMINAR AND GROSS Pathology of the cardiovascular system Prof J. Vasiljević</td>
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<td>Fri, January 16, 2015</td>
<td>13-16</td>
<td>SLIDE SEMINAR AND GROSS Pathology of the skeletal system Doc J. Sopta</td>
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<tr>
<td>Wed, January 21, 2015</td>
<td>14 – 17</td>
<td>MICROSCOPIC SLIDE DEMONSTRATIONS Pathology of the skeletal system Doc J. Sopta &amp; Sar. u nastavi R.Kovačević Lab. tech. Đ. Ćurčić</td>
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<td>Wed, January 28, 2015</td>
<td>14 – 16,15</td>
<td>MICROSCOPIC SLIDE DEMONSTRATIONS Slide review V semester &amp; Signature Prof dr Z. Stojšić &amp; Ass S. Glumac Lab. tech. Dušan Pavić</td>
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</table>
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. Amyloidosis renis (Renal amyloidosis)
4. Amyloidosis lienis (Amyloidosis of the spleen)
5. Hyalinosis vasorum lienis (Hyalnosis of the blood vessels of the spleen)
6. Infiltratio adiposa myocardii (Fatty ingrowth of the myocardium)
7. Metamorphosis adiposa hepatis 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 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 26, 2014)**
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)

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**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)
Mon, February 23  (12-12,45)  Soft tissue tumors  Doc. J. Sopća
(13–13,45)  Head and neck  Prof Z. Stojšić

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

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

Mon, March 16 (12-12,45)  Gastrointestinal system  Prof Z. Stojšić
(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
(14-14,45)  Neuropathology  Prof M. Skender

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

Gazibara
(14-14,45)  Neuropathology  Prof M. Skender

Gazibara
Mon, April 20  (12-12,45)  Neuropathology  Prof M. Skender
Gazibara
(13-13,45)  Diseases of PNS and  Prof M. Skender
Gazibara
(14-14,45)  skeletal muscle  Organs of special sense  Prof M. Skender

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

Jovanović
(14-14,45)  Nephropathology  Prof

Jovanović
Mon, May 4  (12-12,45)  Nephropathology  Prof J. Marković
Lipkovski
(13-13,45)  Nephropathology  Prof J. Marković

Lipkovski
(14-14,45)  Nephropathology  Prof J. Marković
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. Tatić

Fri, February 20 14 - 16,15
MICROSCOPIC SLIDE
DEMONSTRATIONS
Endocrine system and breast pathology
Prof S. Tatić & 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. Brašanac

Fri, February 27 14 – 16,45
MICROSCOPIC SLIDE
DEMONSTRATION
Histopathological features of skin diseases
Thr, March 5      14 – 16,45  MICROSCOPIC SLIDE

Histopathological features of hematopoietic diseases
Doc T. Terzić & Sar. u nastavi N. Boričić
Lab. tech. D. Bogićević

Thr, March 12     14 – 17  SLIDE SEMINAR AND GROSS

Pathology of the hematopoietic system
Doc T. Terzić

Thr, March 19     14 – 17  SLIDE SEMINAR AND GROSS

Gastrointestinal system, pancreas and peritoneum
Prof Z. Stojšić

Thr, March 26     14 -16,15  MICROSCOPIC SLIDE

Gastrointestinal system
Prof Z. Stojšić & Ass R. Janković
Lab. tech. D. Bajić

NOTICE! Fri, March 27  14,00 - 14,45: QUIZ II (Cardiovascular system, Respiratory system, Skeletal system, Skin, Hematopoietic system, Endocrine system and Breast)

Thr, April 2       14 – 17  SLIDE SEMINAR AND GROSS

Pathology of the liver and biliary tract
Prof I. Boričić

Thr, April 9       14 – 16, 15  MICROSCOPIC SLIDE DEMONSTRATIONS

Histopathological features of liver diseases
Prof I. Boričić & Ass J. Vještica
Lab. tech. M. Tašić

Thr. April 16      14 – 16,45  MICROSCOPIC SLIDE DEMONSTRATIONS

Histopathological features of CNS diseases
Prof M. Skender-Gazibara & Ass. E. Manojlović Gačić
Lab. tech. M. Kostić
<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Event Description</th>
<th>Faculty/Assessors</th>
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<tr>
<td>Thr. April 23</td>
<td>14 – 17</td>
<td>SLIDE SEMINAR AND GROSS</td>
<td>Neuropathology&lt;br&gt;M. Skender Gazibara</td>
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<td>Thr. April 30</td>
<td>14 – 17</td>
<td>SLIDE SEMINAR AND GROSS</td>
<td>Nephropathology&lt;br&gt;G. Basta Jovanović</td>
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<td>Thr. May 7</td>
<td>14 - 16,15</td>
<td>MICROSCOPIC SLIDE DEMONSTRATIONS</td>
<td>renal diseases&lt;br&gt;Prof dr J. Marković&lt;br&gt;Lipkovski &amp; Ass. J. Vještica &amp; D. Tomić</td>
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<td>Thr. May 14</td>
<td>14 – 17</td>
<td>SLIDE SEMINAR AND GROSS</td>
<td>Male &amp; female&lt;br&gt;Prof J. Marković Lipkovski</td>
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<td>Thr. May 21</td>
<td>14 – 16,15</td>
<td>MICROSCOPIC SLIDE DEMONSTRATIONS</td>
<td>Male &amp; female genital tract&lt;br&gt;Prof G. Basta Jovanović &amp; Ass. Lj. Bogdanović&lt;br&gt;Lab. tech. D. Pavić</td>
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<td>Thr. May 28</td>
<td>14 – 16,15</td>
<td>MICROSCOPIC SLIDE DEMONSTRATIONS</td>
<td>Slide review (V&amp;VI semester) &amp; signature&lt;br&gt;Prof Z. Stojšić, Ass. D. Dundjerović&lt;br&gt;Lab. tech. B. Manasijević</td>
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**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 colloidae glandulae thryeoidae (Goiter)
55. Hashimoto thryeoiditis (struma lymphomatosa) (Hashimoto thryeoiditis)
56. Carcinoma papillare glandulae thryeoidae (Papillary carcinoma of the thyroid gland)
57. Carcinoma folliculare glandulae thryeoidae (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 pleomorphae (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 hepatitis (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 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 21, 2015)
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 28, 2015)

Belgrade
October, 2014

Coordinator for Pathology

Prof dr Z. Stojšić
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