UNIWERSYTET MIKOŁAJA KOPERNIKA W TORUNIU
Collegium Medicum im. Ludwika Rydygiera w Bydgoszczy
Katedra Patomorfologii Klinicznej
ul. M. Curie Skłodowskiej 9, 85-094 Bydgoszcz
tel./fax: 52 585 4200, 52 585 4049
e-mail: patomorfologia@cm.umk.pl

SCHEDULE AND DESCRIPTION OF CLASSES FOR THE 2nd YEAR OF THE MEDICAL FIELD 2020/2021

The subject "Pathomorphology" as part of the module "Pathology" in the academic year 2020/2021 consists of:
- 30 hours of lectures
- 30 hours of seminars
- 30 hours of tutorials

LECTURES:

They are conducted synchronously on-line on the MS Teams platform. in the team Department of Clinical Pathomorphology, at the link:
https://teams.microsoft.com/l/team/19%3ac77a80ce5a944465a8643bfd19da95c3%40thread.tacv2/conversations?groupId=161dae92-0224-4793-8dad-7ea0652f19c4&tenantId=e80a627f-ef94-4aa9-82d6-c7ec9cfca324

Lecture's topics:
1. Lymphomas – Dariusz Grzanka, MD, Dsc, prof. UMK
2. Gastrointestinal tract pathology part 1 - Dariusz Grzanka, MD, Dsc, prof. UMK
3. Gastrointestinal tract pathology part 2 - Dariusz Grzanka, MD, Dsc, prof. UMK
4. Gastrointestinal tract pathology part 3 - Dariusz Grzanka, MD, Dsc, prof. UMK
5. Pathology of the urinary system – Łukasz Szylberg, MD, Dsc, prof. UMK
6. Pathology of the female reproductive system, part 1 - Dariusz Grzanka, MD, Dsc, prof. UMK
7. Pathology of the female reproductive system, part 2 - Dariusz Grzanka, MD, Dsc, prof. UMK
8. Summary of seminars, part 1
9. Pathology of the male reproductive system - Łukasz Szylberg, MD, Dsc, prof. UMK
10. Head and neck pathology - Łukasz Szylberg, MD, Dsc, prof. UMK
11. Central nervous system pathology - Łukasz Szylberg, MD, Dsc, prof. UMK
12. Dermatopathology - Dariusz Grzanka, MD, Dsc, prof. UMK
13. Pathology in everyday practice - clinical cases - Łukasz Szylberg, MD, Dsc, prof. UMK
14. Summary of lecture topics.
15. Summary of seminars, part 2

SEMINARS:

They are conducted asynchronously and synchronously online. The asynchronous part consists in watching multimedia presentations prepared by academic teachers on the Moodle platform. There is a separate material for each topic. The synchronous part takes place on the MS Teams platform, in real time, according to the schedule set by the Dean's Office of the Faculty of Medicine.
Group 1 – Wednesday 12:00 – 14:15 – Natalia Skoczylas – Makowska, MD PhD
Group 2 – Thursday 12:00 – 14:15 – Magda Zwolińska, MD
Group 3 – Monday – 17:30 – 19:45 – Jakub jóźwicki, MD, PhD
Group 4 – Monday – 15:00 – 17:15 – Łukasz Szylberg. Md. Dsc, prof. UMK

As part of the seminar, topics on Organ Pathology are carried out, according to the note:

1. **Pathology of the liver, bile ducts and pancreas :**

Issues to be prepared by students (presentation):
- Hemochromatosis
- Primary sclerosing cholangitis.
- Cholelithiasis and cholecystitis.

- Non-Alcoholic Liver Steato-Hepatitis (NASH).
- Tumors of the gallbladder.
- Pancreatitis

Topics to be mastered by all students:

- Patterns of hepatic injury
- Acute and chronic viral hepatitis
- Drug and toxin-induced liver disease.
- Portal hypertension and cirrhosis.
- Hemochromatosis
- Primary sclerosing cholangitis.
- Hepatic circulatory disorders
- Cholelithiasis and cholecystitis
- Hepatic infectious diseases.
- Autoimmune hepatitis.
- Alcoholic liver disease.
- Non-Alcoholic Liver Steato-Hepatitis (NASH).
- Liver failure.
- Metabolic liver diseases
- Cholestatic syndromes and intrahepatic bile ducts' disorders
- Benign and malignant tumors of liver
- Tumors of the gallbladder.
- Pancreatitis
- Neoplasms of exocrine pancreas.

2. **Pathology of the gastrointestinal tract.**

Issues to be prepared by students (presentation):

- Crohn's disease
- Ulcerative colitis
- Appendicitis
- Ischemic bowel disease.
- Celiac disease
- Intestinal obstruction.

Topics to be mastered by all students:

- Oral cavity diseases
- Obstructive and vascular diseases.
- Reflux Esophagitis
- Barrett Esophagus
- Esophageal tumors
- Gastropathy, acute and chronic gastritis
- Gastric polyps and tumors.
- Intestinal obstruction.
- Inflammatory intestinal and diarrheal diseases including Crohn's disease and ulcerative colitis
- Vascular disorders of bowel
- Colonic polyps and tumors including diseases of the appendix and Meckel's diverticulum.
- Congenital anomalies and diseases of gastrointestinal tract
- Diverticular disease.
- Ischemic bowel disease.

3. **Pathology of the male genital system:**

Issues to be prepared by students (presentation):

- Diseases of the Penis,
- Germ-cell tumors of the Testis,
- Benign Prostatic Hyperplasia.

Topics to be mastered by all students:

- Diseases of the Scrotum, Testis and Epididymis,
- Diseases of the Prostate and the preoperative diagnostics.

4. **Pathology of heart and vascular diseases**

Issues to be prepared by students (presentation):

- Vasculitis-introduction
- Granulomatosis with polyangitis, Churg-Strauss Syndrome, Buerger Disease
- Abdominal aortic aneurysm

Topics to be mastered by all students:

- Congenital anomalies of blood vessels
- Blood pressure regulation
- Hypertensive vascular disease
- Vascular Wall Response to Injury
- Arteriosclerosis
- Atherosclerosis
- Aneurysm and Dissections
- Vasculitis
- Disorders of Bood Vessel Hyeperreactivity
- Varicose veins
- Thrombophlebitis and Phlebothrombosis
- Superior and Inferior Vena Cava Syndromes
- Lymphangitis and Lymphedema
- Tumors of blood vessels
- Pathology of vascular Intervention
- Herat failure
- Congenital Herat Disease
- Ischemic Herat Disease
- Arrythmias
- Hypertensive Heart Disease
- Valvural Heart Disase
- Cardiomyopathies and Myocarditis
- Percardial Disease
- Cardiac Tumors
- Cardiac Transplantation

5. **Pathology of the female reproductive system part I:**

Issues to be prepared by students (presentation):

- Vaginitis and Tumors of the Vagina
- Endometritis
- Endometriosis, Adenomyosis

Topics to be mastered by all students:

- Vulvitis and tumors of the Vulva
- Cervicitis and Tumors of the Cervix
- Abnormal Uterine Bleeding
- Proliferative Lesions of the Endometrium and Myometrium

6. Pathology of the female reproductive system part II:

Issues to be prepared by students (presentation):

- Cystic and inflammatory lesions of the ovaries and fallopian tubes.
- Pregnancy Diseases
- Placental Inflammations and Infections

Topics to be mastered by all students:

- Anatomy and Histology of the Ovary and Fallopian Tube.
- Neoplasms of the Ovary.
- Neoplasms of the Fallopian Tube
- Gestational Trophoblastic Disease
- Ectopic pregnancy
- Gestosis.

7. Pathology of the musculoskeletal system:

Topics to be mastered by all students:

- MSC Tumors
- Metastases in the MSC
- MSC inflammations
- Osteoarthritis
- Congenital sceleton dieseases
- Osteoporosis, osteomalacia
- Rickets
- Miopathies
- Tendinopathy

8. Pathology of the respiratory tract:

Issues to be prepared by students (presentation):

- ARDS.
- Pneumonia.
- Bronchial asthma
- Cor pulmonale (Pulmonary heart)
- Histoclinic of laryngeal cancer
- Nasopharyngeal cancer.

9. Pathology of the endocrine system:

Issues to be prepared by students (presentation):

- Adrenal insufficiency
- Hyperadrenalism
- Adrenocortical neoplasms
- Hyperparathyroidism and Hypoparathyroidism
- Pancreatic neuroendocrine tumors
- Multiple Endocrine Neoplasia (MEN) Syndromes

10. Central nervous system pathology:

Issues to be prepared by students (presentation):

- Alzheimer Disease
- Meningiomas
- Oligodendroglioma and ependymoma

Topics to be mastered by all students:

- Edema, herniation, and hydrocephalus
- Cerebrovascular Dideases
- Central Nervous System Trauma
- Congenital malformations and Perinatal Brain Injury
- Infections of the Nervous System
- Diseases of Myelin
- Genetic Metabolic Diseases
- Acquired Metabolic and Toxic Disturbances
- Neurodegenerative Diseases
- Tumors of CNS

11. Immunohistochemical staining.

12. Urinary tract pathology:

Issues to be prepared by students (presentation):

- Clear Cell Renal Cell Cracinoma, Chromophobe renal cell carcinoma
- Nephrosclerosis and malignant hypertension
- Urinary outflow obstruction

Topics to be mastered by all students:

- Clinical manfestations of Renal Disases2
- Glomerular Disases
- Disases affecting Tubules and Interstitium
- Diseases involving Renal Blood Vessels
- Chrinic Kidney Disases
- Cystic Diseases of the Kidney
- Urinary Outflow Obstruction
- Congenital and Developmental Anomalies
- Renal Neoplasms
- Pathology of ureter, urinary bladder and urethra

13. Hematopathology:

Issues to be prepared by students (presentation):

- Reactive leukocytosis and infectious mononucleosis
- Diffuse Large B- cell Lymphoma, follicular lymphoma
- Multiple myeloma

Topics to be mastered by all students:

- Anemia and of blood loss
- Anemia of Diminished Erythropoesis and hemolytic anemia
- Polycythemia
- Nonneoplastic Disorders of White Cells
- Neoplastic Proliferations of White Cells
- Disseminated Intravscular Coagulation

- Thrombocytopenia
- Coagulation Disordes
- Complications of Transfusion
- Disorders of Spleen and Thymus

14. Pathology of the breast and skin:

Issues to be prepared by students (presentation):

- Neoplasms and pseudo-cancerous changes of the skin.
- Histoclinic of basal cell carcinoma of the skin.
- Histoclinic of Bowen's disease of the skin.
- Histoclinic of squamous cell carcinoma of the skin.
- Melanocytic nevi.
- Histoclinic of skin melanoma.

15. Molecular biology.

During the semester, each student is required to prepare 3 presentations on the above-mentioned topics in a group of 2.
Topics 7, 11 and 15 are excluded from the presentation.

TUTORIALS:

The 30 hours of exercises are divided into two parts.
15 hours are carried out on line synchronously - 1 hour for each seminar every week at the hours designated by the Dean's Office (schedule as for the seminar)
As part of these exercises, there are also short overview videos on individual preparations and topics of classes. Individual histopathological cases are discussed there.
The second 15 hours are divided into 7 stationary meetings, 2 hours each (last 3 hours). As part of these classes, the following topics will be covered:
1. Participation in the post-mortem examination
2. Participation in cutting out biological material
3. Laboratory classes - Immunohistochemistry
4. Laboratory classes - Gynecological cytology
5. Laboratory classes - Molecular biology
6. Microscopic exercises no. 1
7. Microscopic exercises no. 2

Each dean's group within these exercises is divided into 4 subgroups and depending on the schedule of classes - each will have all the topics covered

CONDITIONS FOR CREDITING THE COURSE:

During the semester, 2 Colloqiums are planned (test 30 theoretical and 10 practical questions, each containing 5 possible answers with 1 ver Extractor and 4 distractors)
Colloquiums will be carried out during the lecture - Colloquium No.1 in lecture 8, and Colloquium No.2 at lecture 15.
In order to pass the subject, it is necessary to attend ALL classes, pass 3 presentations at seminars and obtain 60% of the points that can be obtained from 2 tests (40 points each) and lecture (40 points).

Detailed information can be found in the regulations of the course.

The Pathology Module exam is carried out as described in the Module Regulations.

KIEROWNIK
Katedry Patomorfologii Klinicznej
Prof. Dr. Hab. Dariusz Szczanka, prof. UMK