Syllabus

Pathological Physiology 1 Winter Semester 2021/2022 Week 9

General Medicine

The valid color of Covid Automat of Košice district for the week from 15.11.2021 to 21.11.2021 changes to black. Therefore, based on the Covid automat for winter semester AY 2021/22, the seminars will be online via MS Teams.

A. Online lecture via Microsoft Teams

- 1. Pathogenesis V
 - Immunopathology introduction
 - Hypersensitivity classification; mechanisms
 - Immunodeficiency classification, mechanisms; inborn and acquired immunodeficiencies
 - Autoimmunity pathogenesis; classification; organ/system related and polysystemic disorders

B. Online seminars via Microsoft Teams according to schedules on department webpage (patfyz.medic.upjs.sk)

- 1. **T**: Inflammation
 - Chronic inflammation etiopathogenesis, forms, characteristics, chronic inflammation and tumors,
- 2. S: Immunopathology
 - Immunology overview
 - Hypersensitivity classification; mechanisms
 - Immunodeficiency classification, mechanisms; inborn and acquired immunodeficiencies
 - Autoimmunity pathogenesis; classification; organ/system related and polysystemic disorders
- 3. Examination of knowledge (quiz, oral examination)
- 4. Presentations of the selected topics according to the group schedules

Dental Medicine

A. Online lecture via Microsoft Teams

- 1. Pathogenesis IV
 - Immunopathology introduction
 - Hypersensitivity classification; mechanisms
 - Immunodeficiency classification, mechanisms; inborn and acquired immunodeficiencies
 - Autoimmunity pathogenesis: classification; organ/system related and polysystemic disorders

B. Online seminars via Microsoft Teams according to schedules on department webpage (patfyz.medic.upjs.sk)

- 1. **T**: Immunopathology
 - Disorders of immunity in dentistry
- 2. **S:** Immunopathology
 - Immunodeficiency -inborn and acquired immunodeficiencies, HIV and AIDS
 - Autoimmunity organ/system related and polysystemic disorders
- 3. Examination of knowledge (quiz, oral examination)
- 4. Presentations of the selected topics according to the group schedules

Seminars (S) = special topics for discussion; **Tutorials & homeworks & exams (T)** = discussions, consultations, oral and quiz exams on the current topics.

<u>Note</u>: The range of topics and their time-table during the tutorials and seminars in each group is determined by the teacher and to a large extent, by the presentations, consultation interests, questions and readiness of the group and may

vary in between groups. Neither tutorials nor seminars are lectures, but dialogue and discussion and thus require an active participation and preparation of students for the topics.

Recommended audiovisual materials

Hypersensitivity

- Type I Hypersensitivity | Clinical Presentation https://www.youtube.com/watch?v=Y9tlk9-Wj8s
- Type II Hypersensitivity Mechanisms (Described Concisely)https://www.youtube.com/watch?v=dSM-TwWTtV0
- Type III hypersensitivity (immune complex mediated) causes, symptoms & pathology https://www.youtube.com/watch?v=0T_SAXyMs_c
- Type IV hypersensitivity (cell-mediated) causes, symptoms, treatment & pathology https://www.voutube.com/watch?v=6wOiDrObk_A
- Food allergy causes, symptoms, diagnosis, treatment, pathology https://www.youtube.com/watch?v=WwehfCel36o
- Allergic Rhinitis causes, symptoms, diagnosis, treatment, pathology https://www.youtube.com/watch?v=3YkkNAvd9J4&list=PLMw7FqKp1DgpYCAbqcCJemplAlcLwmgbs&index=23
- Eczema (atopic dermatitis) causes, symptoms, diagnosis, treatment, pathology https://www.youtube.com/watch?v=L5oRHWsJJJA&list=PLMw7FqKp1DgpYCAbqcCJemplAlcLwmgbs&index=6
- Serum Sickness causes, symptoms, diagnosis, treatment, pathology https://www.youtube.com/watch?v=mwplow3yz9Y&list=PLMw7FqKp1DgpYCAbqcCJemplAlcLwmgbs&index=16
 Autoimmunity
- Immune tolerance An introduction https://www.youtube.com/watch?v=rHx30H3dUKQ
- Central T cell Tolerance Positive and Negative Selection https://www.youtube.com/watch?v=2iEBTeAgtFY
- Central B cell Tolerance: Receptor Editing, Clonal Deletion and Anergyhttps://www.youtube.com/watch?v=zs1kJ9pxGlw
- Peripheral T cell Tolerance Clonal Deletion and Anergyhttps://www.youtube.com/watch?v=po9t3F5g-vk
- Peripheral B cell Tolerance Anergyhttps://www.youtube.com/watch?v=XNV-B_lps14
- Systemic lupus erythematosus (SLE) causes, symptoms, diagnosis & pathology https://www.youtube.com/watch?v=0junqD4BLH4

Immunodeficiency

- HIV & AIDS signs, symptoms, transmission, causes & pathologyhttps://www.youtube.com/watch?v=5g1ijpBl6Dk
- Wiskott-Aldrich syndrome https://www.youtube.com/watch?v=R5ADKNVc6t4&list=PLMw7FqKp1DgpYCAbqcCJemplAlcLwmgbs&index=13
- Complement deficiency https://www.youtube.com/watch?v=HewFoP4gNHQ
 Immunopathology in desticts:

Immunopathology in dentistry

- Hereditary Angioedema (Described Concisely) & C-1 Inhibitor Deficiency https://www.voutube.com/watch?v=7cANkhhw-6l
- Hereditary angioedema https://www.youtube.com/watch?v=2AWPreBJAn8
- Oral Allergy Syndrome https://www.youtube.com/watch?v=Cv3Y-Uu9Ls4