

Syllabus - Distance learning
Winter Semester 2020/2021
Week 8

General Medicine

1. Online lecture via Microsoft Teams

Immunopathology

- Hypersensitivity – classification; mechanisms
- Immunodeficiency – classification, mechanisms; inborn and acquired immunodeficiencies
- Autoimmunity – pathogenesis; classification; organ/system related and polysystemic disorders

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

Typical pathological processes

Inflammation

- Acute and chronic inflammation
- Markers of inflammation.; Molecular basis,
- Wound healing – molecular pathophysiology

Fever

- Types, mechanism, characteristics; examples of diseases

Student presentations: during the online seminar according to the schedule within each group.

Dental Medicine

1. Online lecture via Microsoft Teams

Inflammation

- Chronic inflammation – etiopathogenesis, forms, characteristics, chronic inflammation and tumors
- Systemic inflammation – SIRS (systemic inflammatory response sy.) Multi-organ failure (MODS), Sepsis

Immunopathology

- Hypersensitivity – classification; mechanisms
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Inflammation

- Acute and chronic inflammation
- Markers of inflammation.; Molecular basis,
- Wound healing – molecular pathophysiology
- Inflammation in oral cavity

Student presentations: during the online seminar according to the schedule within each group.

Recommended audiovisual materials

Fever

- Temperature Homeostasis (Regulation) <https://www.youtube.com/watch?v=zcdGJDGXxgs>
- Induction of Fever, Control of Body Temperature, Hyperthermia, Animation <https://www.youtube.com/watch?v=QV7i-XQ7wv8>
- Febrile seizures - causes, symptoms, diagnosis, treatment, pathology <https://www.youtube.com/watch?v=YFcesC8EDAs>

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.youtube.com/watch?v=6wOiDrObk_A

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=2jEBTeAgtFY>
- Central B cell Tolerance : Receptor Editing, Clonal Deletion and Anergy <https://www.youtube.com/watch?v=zs1kJ9pxGlw>
- Peripheral T cell Tolerance - Clonal Deletion and Anergy <https://www.youtube.com/watch?v=po9t3F5g-vk>
- Peripheral B cell Tolerance - Anergy https://www.youtube.com/watch?v=XNV-B_lps14

Immunodeficiency

- HIV & AIDS - signs, symptoms, transmission, causes & pathology <https://www.youtube.com/watch?v=5g1jipBI6Dk>