

Syllabus
Pathological Physiology 1
Winter Semester 2022/2023
Week 8

General Medicine

A. Lecture

1. Pathogenesis III

- Inflammation - general features, clinical forms, vascular reactions; systemic manifestation
- Acute inflammation – humoral factors and cellular response
- Chronic inflammation – etiopathogenesis, forms, characteristics
- Systemic inflammation – SIRS (systemic inflammatory response sy.) Multi-organ failure (MODS), Sepsis
- Healing process

B. Seminars according to schedules on department webpage (patfyz.medic.upjs.sk)

1. **T:** Typical pathological processes
 - Acute and chronic inflammation
 - Markers of inflammation; molecular basis,
2. **S:** Wound healing – molecular pathophysiology
3. Examination of knowledge (quiz, oral examination)
4. Presentations of the selected topics according to the group schedules

Dental Medicine

A. Lecture

1. Pathogenesis III

- Inflammation - general features, clinical forms, vascular reactions; systemic manifestation
- Acute inflammation – humoral factors and cellular response
- Chronic inflammation – etiopathogenesis, forms, characteristics
- Systemic inflammation – SIRS (systemic inflammatory response sy.) Multi-organ failure (MODS), Sepsis
- Healing process

B. Seminars according to schedules on department webpage (patfyz.medic.upjs.sk)

1. **T:** Typical pathological processes
 - Acute inflammation
 - Markers of inflammation; molecular basis,
 - Wound healing – molecular pathophysiology
2. **S:** Chronic inflammation
 - Abscess, granuloma
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.

Note: 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

- Inflammation - causes, symptoms, diagnosis, treatment, pathology <https://www.youtube.com/watch?v=LaG3nKGotZs>

- Inflammation Medical Animation <https://www.youtube.com/watch?v=gIIZHyptUPM>
- Acute Inflammation- Educational 3D Animation <https://www.youtube.com/watch?v=1SvEdg94qUA>
- Phagocytosis <https://www.youtube.com/watch?v=iZYLeIjwe4w>
- Neutrophil Chemotaxis <https://www.youtube.com/watch?v=ZUUfdP87Ssq>
- Extravasation of Neutrophils <https://www.youtube.com/watch?v=B9Qi7we0Ynk>
- Macrophage oxidative burst <https://www.youtube.com/watch?v=WFOeic9LuDE>
- Acute Inflammation vs Chronic Inflammation https://www.youtube.com/watch?v=16_VbjmXpXs
- Sepsis and Septic Shock - 2016 Consensus Definitions <https://www.youtube.com/watch?v=L5xKW--drRg>