

Syllabus
Pathological Physiology 1
Winter Semester 2022/2023
Week 6

General Medicine

A. Lecture

1. Pathogenesis II

- Typical pathological processes; Fever, Pain, Hypoxia, Ischemia.

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

1. T: Introduction to pathogenesis

- Typical pathological processes

2. S: Review of etiology

3. Credit test 1 - Etiology

- All information available at <http://patfyz.medic.upjs.sk/einfo.htm>
- Topics of credit test available at <http://patfyz.medic.upjs.sk/CREDIT%20test%20%20GM.pdf>
- Study materials available at <http://patfyz.medic.upjs.sk/estudmat.htm>

4. Examination of knowledge (quiz, oral examination)

5. Presentations of the selected topics according to the group schedules

Dental Medicine

A. Lecture

1. Pathogenesis II

- Typical pathological processes; Fever, Pain, Hypoxia, Ischemia

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

1. T: Introduction to pathogenesis

- Typical pathological processes

2. S: Review of etiology

3. Credit test 1 - Etiology

- All information available at <http://patfyz.medic.upjs.sk/einfo.htm>
- Topics of credit test available at <http://patfyz.medic.upjs.sk/CREDIT%20test%20%20DM.pdf>
- Study materials available at <http://patfyz.medic.upjs.sk/estudmat.htm>

4. Examination of knowledge (quiz, oral examination)

5. 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

Pain

- Physiology of pain <https://www.youtube.com/watch?v=uOaiaYDoUnA>
- Nociceptors – an introduction to pain <https://www.youtube.com/watch?v=fUKlpuz2VTs>
- Physiology of pain <https://www.youtube.com/watch?v=5c8maFAhqlc>
- Gate control theory of pain <https://www.youtube.com/watch?v=oQLFfvGM7nl>
- Neuropathic pain <https://www.youtube.com/watch?v=CUH7RTus880>

Hypoxia and ischemia

- Hypoxia a cyanosis <https://www.youtube.com/watch?v=REfhvFLBvZE>
- Nobel Prize in Physiology or Medicine 2019, Nobel Lecture: Gregg L. Semenza: How the cell sense and adapt to changes in oxygen availability https://www.youtube.com/watch?v=B_KBgSXUWoM