

**Syllabus**  
**Pathological Physiology 1**  
**Winter Semester 2021/2022**  
**Week 7**

**General Medicine**

**A. Online lecture via Microsoft Teams**

Rector's day off. The lecture is cancelled.

**B. Presence seminars according to schedules on department webpage (patfyz.medic.upjs.sk)**

1. **T:** Typical pathological processes
  - Hypoxia - definition, classification, symptoms and compensatory mechanisms
  - Pathophysiology of pain
  - Fever
2. **S:** Aging
  - Terminology, epidemiology, theories
  - Cellular & organ physiological and pathological changes during aging
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**

Public Holiday

**B. Presence seminars according to schedules on department webpage (patfyz.medic.upjs.sk)**

1. **T:** Typical pathological processes
  - Hypoxia - definition, classification, symptoms and compensatory mechanisms
  - Pathophysiology of pain
  - Fever
2. **S:** Aging
  - Terminology, epidemiology, theories
  - Cellular & organ physiological and pathological changes during aging
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**

Fever

- Temperature Homeostasis (Regulation) <https://www.youtube.com/watch?v=zcdGJDGXxqs>
- Induction of Fever, Control of Body Temperature, Hyperthermia, Animation <https://www.youtube.com/watch?v=QV7j-XQ7wv8>
- Febrile seizures - causes, symptoms, diagnosis, treatment, pathology <https://www.youtube.com/watch?v=YFcesC8EDAs>

Aging

- The Biology of Aging <https://www.youtube.com/watch?v=xHlNXzfCv0o>

- Genetics Of Aging - iBiology & Youreka Science <https://www.youtube.com/watch?v=g-EqaxnuNc4>
- Telomeres and cell senescence | Cells | MCAT | Khan Academy <https://www.youtube.com/watch?v=R5YiO6rKr-w>
- Why Do We Age ? Cellular Aging (HD) <https://www.youtube.com/watch?v=DXp1J0HrKLM>
- Progeria, Accelerated Aging | Biochemical Mechanism of Progeria [https://www.youtube.com/watch?v=eyF\\_6zro-EQ](https://www.youtube.com/watch?v=eyF_6zro-EQ)