

**Syllabus**  
**Pathological Physiology 1**  
**Winter Semester 2022/2023**  
**Week 1**

**General Medicine**

**A. Lecture**

1. **Etiology I**

- Monogenic and chromosomal diseases
- Mendelian, non-Mendelian inheritance
- Epigenetics

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

1. **T:** Introductory information and instructions

- Introduction to scientific work
- Introduction to pathophysiology

2. **S:** Nosology

- Health and disease
- Pathological signs, processes

**Dental Medicine**

**A. Lecture**

1. **Oral health I.**

- Physical & chemical lesions in oral cavity
- Reactive changes in the oral cavity

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

1. **T:** Introductory information and instructions

- Introduction to scientific work
- Introduction to pathophysiology

2. **S:** Nosology

- Health and disease
- Pathological signs, processes

**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**

Introduction to scientific work

- Evidence-Based Medicine <https://www.youtube.com/watch?v=RSHOrL4ko7A>
- "Evidence-based" Treatment: What Does It Mean? <https://www.youtube.com/watch?v=7dzkS0ioqqw>

Health and disease

- Health and disease <https://www.youtube.com/watch?v=jXcUaLPivVU>

Genetics

- The Structure of DNA [https://www.youtube.com/watch?v=o\\_-6JXLYS-k](https://www.youtube.com/watch?v=o_-6JXLYS-k)
- GCSE Biology - DNA Part 1 - Genes and the Genome #48 <https://www.youtube.com/watch?v=vw1TQXBQ6wQ>

- GCSE Biology - DNA Part 2 - Alleles / Dominant / Heterozygous / Phenotypes and more! #49 <https://www.youtube.com/watch?v=zNEtVaNQ0s8>
- DNA replication - 3D <https://www.youtube.com/watch?v=TNKWgcFPHqw>
- From DNA to protein - 3D <https://www.youtube.com/watch?v=gG7uCskUOrA>