

Syllabus
Pathological Physiology 2
Summer Semester 2022/2023
Week 14

General Medicine

1. Lecture

- Disorders of bones and joints
- Hormonal regulation of bone tissue formation
- Osteoporosis, osteomalacia, rickets
- Degenerative disorders of joints; rheumatic arthritis, gout

2. Seminars

- Completion of missing tasks. Final evaluation. Credit.

3. Examination of knowledge (quiz, oral examination)

4. Presentations of semester works and selected topics according to the group schedules.

Dental Medicine

1. Lecture

- Disorders of bones and joints
- Hormonal regulation of bone tissue formation
- Osteoporosis, osteomalacia, rickets
- Degenerative disorders of joints; rheumatic arthritis, gout

2. Seminars

- Completion of missing tasks. Final evaluation. Credit.

3. Examination of knowledge (quiz, oral examination)

4. Presentations of semester works and selected topics according to the group schedules.

Seminars (S) = special topics for discussion; **Tutorials & homework & exams (T)** = discussions, consultations, oral and quiz exams on the current topics.

Note: The range of topics and their timetable 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 audio-visual materials

- Bone Remodeling and Modeling <https://www.youtube.com/watch?v=0dV1Bwe2v6c>
- Regulation of Osteoclast Activity <https://www.youtube.com/watch?v=GpMV197xZXc>
- Rickets/osteomalacia - causes, symptoms, diagnosis, treatment, pathology <https://www.youtube.com/watch?v=QDQ4d5V0K7o>
- Osteoporosis - causes, symptoms, diagnosis, treatment, pathology https://www.youtube.com/watch?v=jUQ_tt_zJDo
- Postmenopausal Osteoporosis <https://www.youtube.com/watch?v=c5tc01WFYks>
- Gout - causes, symptoms, diagnosis, treatment, pathology <https://www.youtube.com/watch?v=bznoU5bke4U>