

Syllabus
Pathological Physiology 2
Summer Semester 2021/2022
Week 14

General Medicine

A. Online lecture via Microsoft Teams

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

B. Presence seminars

1. Examination of knowledge (quiz, oral examination)
2. Semester work presentations according to the schedule within each group
3. Presentations of selected topics according to the systems based on a group schedules
4. Completion of missing tasks. Final evaluation. Credit.

Dental Medicine

A. Online lecture via Microsoft Teams

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

B. Presence seminars

1. Examination of knowledge (quiz, oral examination)
2. Semester work presentations according to the schedule within each group
3. Presentations of selected topics according to the systems based on a group schedules
4. Completion of missing tasks. Final evaluation. Credit.

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

- 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>