

Syllabus
Pathological Physiology 1
Winter Semester 2021/2022
Week 13

General Medicine

A. Online lecture via Microsoft Teams

1. Cellular pathophysiology I

Intercellular signaling

- Intercellular signaling - apocrine, paracrine, endocrine
- Receptor types; Intracellular cascades
- Signaling through G proteins, tyrosine - kinase receptors and intracellular receptors
- Intracellular function of calcium; calcium homeostasis, signaling role of nitric oxide

B. Online seminars via Microsoft Teams according to schedules on department webpage (patfyz.medic.upjs.sk)

1. T: Pathophysiology of ontogenesis – fetus, infancy, gravidity

S: Review of pathogenesis

Semester work consultation

2. Examination of knowledge (quiz, oral examination)

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

4. Credit test 2

- **Multiple choice (Yes/No) test** via Rogo system on Friday 17.12.2021 starting at 16:15.
- **Open questions test** will be available at <http://patfyz.medic.upjs.sk/einfo.htm> on Friday 17.12.2021 from 17:45.
After completing the test, the student will send the file to teacher's e-mail within a 5 minute interval. Enter your last name and group at the beginning of the file name.
- All information available at <http://patfyz.medic.upjs.sk/einfo.htm>
- Topics of credit test available at <http://patfyz.medic.upjs.sk/CREDIT%20test%20II%20GM.pdf>
- Study materials available at <http://patfyz.medic.upjs.sk/estudmat.htm>

Dental Medicine

A. Online lecture via Microsoft Teams

1. Oral health II.

Disorders of oral cavity

- Caries
- Periodontitis
- Red & white lesions

B. Online seminars via Microsoft Teams according to schedules on department webpage (patfyz.medic.upjs.sk)

1. T: Review of pathogenesis

S: Semester work consultation.

2. Examination of knowledge (quiz, oral examination)

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

4. Credit test 2

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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

- Common cell signaling pathway https://www.youtube.com/watch?v=9sF_h-bAnIE
- G-Protein Receptor Activation <https://www.youtube.com/watch?v=xT0mAQ4726s>
- G-protein coupled receptors (GPCRs) https://www.youtube.com/watch?v=NL_YbPigDzg
- Receptor tyrosine kinases | (RTK)s | Cell Signaling https://www.youtube.com/watch?v=LT_ws4Xvj7M
- Intracellular Receptor Model <https://www.youtube.com/watch?v=wJk7nRccLbc>
- Tooth decay and cavities - causes, symptoms, diagnosis, treatment, pathology <https://www.youtube.com/watch?v=3zL4Hou1P-c>
- Gingivitis and periodontitis - causes, symptoms, diagnosis, treatment, pathology <https://www.youtube.com/watch?v=B35jRf4EKPA>