

Syllabus
Pathological Physiology 1
Winter Semester 2021/2022
Week 5

General Medicine

A. Online lecture via Microsoft Teams

1. Pathogenesis I

- Microcirculatory failure (shock), MODS, DIC (hypercoagulation)

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

1. T: Acid-base disorders

- Acid-base balance – general principles, classification, compensatory mechanisms
- Respiratory acidosis and alkalosis
- Metabolic acidosis and alkalosis

2. S: Edemas

3. Practical protocol: Acid-base disorders – case studies

- Analysis of case studies under the guidance of a teacher during seminar
- Theoretical introduction and case studies available at <http://patfyz.medic.upjs.sk/estudmat/AcidBaseDisorders.pdf>
- Editable protocol form available at <http://patfyz.medic.upjs.sk/estudmat.htm>
- After the seminar, prepare the protocols, and upload them by e-mail or in person on seminar or to MS Teams - according to the teacher's instructions

4. Examination of knowledge (quiz, oral examination)

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

Dental Medicine

A. Online lecture via Microsoft Teams

2. Pathogenesis I

- Microcirculatory failure (shock), MODS, DIC (hypercoagulation)

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

1. T: Acid-base disorders

- Acid-base balance – general principles, classification, compensatory mechanisms
- Respiratory acidosis and alkalosis
- Metabolic acidosis and alkalosis

2. S: Edemas, Calcium and phosphate metabolism disorders

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

Microcirculatory failure

- Shock <https://www.youtube.com/watch?v=sJWR93G4UpI>
- DIC <https://www.youtube.com/watch?v=Gmh01S0msfY>

Acid-base disorders

- Blood gases <https://www.youtube.com/watch?v=KudrLakBgeU>
- Introduction to acid-base disorders <https://www.youtube.com/watch?v=jWpKJVop6G8>
- Metabolic acidosis <https://www.youtube.com/watch?v=IF6oF5H43Ac>
- Metabolic alkalosis <https://www.youtube.com/watch?v=Wf0ruPTmP1o>
- Respiratory acidosis <https://www.youtube.com/watch?v=wZICSJZOTH4>
- Respiratory alkalosis <https://www.youtube.com/watch?v=7aPzaVkCjss>
- Renal tubular acidosis <https://www.youtube.com/watch?v=knrcXFTBgMk>
- Lactic acidosis <https://www.youtube.com/watch?v=0RDhocK5kEI>