Syllabus Pathological Physiology 2 Summer Semester 2022/2023 Week 4

General Medicine

1. Lecture

- Obstructive & restrictive disorders forms, pathogenesis, ventilometric differences; typical findings
- Respiratory failure type 1 and 2I (global and partial), causes, symptoms
- 2. Seminars
 - T: Haematological data

Platelet disorders – thrombocytopenia, thrombocytosis, alteration of thrombocyte function – classification, etiopathogenesis, clinical signs

- Coagulation disorders classification, etiopathogenesis, clinical signs
- S: Leukemias, lymphomas, myeloproliferative diseases classification, etiopathogeneses, clinical signs
- 3. Examination of knowledge (quiz, oral examination)
- 4. Presentations of semester works and selected topics according to the group schedules

Dental Medicine

1. Lecture

- Obstructive & restrictive disorders forms, pathogenesis, ventilometric differences; typical findings
- Respiratory failure type 1 and 2 (global and partial), causes, symptoms
- 2. Seminars
 - T: Haematological data

Platelet disorders – thrombocytopenia, thrombocytosis, alteration of thrombocyte function – classification, etiopathogenesis, clinical signs

- Coagulation disorders classification, etiopathogenesis, clinical signs
- S: Leukemias, lymphomas, myeloproliferative diseases classification, etiopathogeneses, clinical signs
- 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 & homeworks & exams (T) = discussions, consultations, oral and quiz exams on the current topics.

<u>Note</u>: 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 audiovisual materials

- Respiratory System Physiology Ventilation and Perfusion (V:Q Ratio) Physiology <u>https://www.youtube.com/watch?v=-mL_NQ3pKnA</u>
- Lung Function Lung Volumes and Capacities https://www.youtube.com/watch?v=9VdHhD1vcDU
- Understanding Spirometry Normal, Obstructive vs Restrictive <u>https://www.youtube.com/watch?v=YwcNbVnHNAo</u>
- Asthma Pathophysiology <u>https://www.youtube.com/watch?v=NNfx27io8-k</u>
- Emphysema Pathophysiology (COPD) <u>https://www.youtube.com/watch?v=ChISfDBHLvg</u>
- Chronic Obstructive Pulmonary Disease Overview (types, pathology, treatment) <u>https://www.youtube.com/watch?v=H7IYd1VWCqk</u>

- Acute respiratory distress syndrome (ARDS) Etiology, Clinical features, Diagnosis, and Treatment
 <u>https://www.youtube.com/watch?v=KXw8LXKcmrw</u>
- Respiratory Failure https://www.youtube.com/watch?v=rZmo EFs9YY
- Pulmonary Hypertension, Animation <u>https://www.youtube.com/watch?v=LzIG_pxiKzY</u>