

Syllabus
Pathological Physiology 2
Summer Semester 2022/2023
Week 3

General Medicine

1. Lecture

- Congenital heart diseases - etiopathogenesis, classification, hemodynamic consequences, clinical signs
- Congenital and acquired valvular disorders – etiopathogenesis, classification, hemodynamic consequences, clinical signs
- Haemorrhagic diathesis - description and classification
- Thrombocytopenia, thrombocytopathy and vasculopathy - classification, etiopathogenesis

2. Seminars

- T: Hypertension – regulation of blood pressure, classification of hypertension, etiopathogenesis, complications
Hypotension, syncope - classification, mechanisms, clinical signs, complications
- S: Anaemic syndrome – classification, etiopathogenesis, clinical signs, laboratory findings, compensatory mechanisms

3. Examination of knowledge (quiz, oral examination)

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

Dental Medicine

1. Lecture

- Haemorrhagic diathesis - description and classification
- Thrombocytopenia, thrombocytopathy and vasculopathy - classification, etiopathogenesis

2. Seminars

- T: Hypertension – regulation of blood pressure, classification of hypertension, etiopathogenesis, complications
Hypotension, syncope - classification, mechanisms
- S: Anaemic syndrome – classification, etiopathogenesis, clinical signs, laboratory findings, compensatory mechanisms

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.

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 audiovisual materials

Congenital heart defects

- Tetralogy of Fallot (TOF): Animation Explains Heart Defect and Repair
<https://www.youtube.com/watch?v=8BJOUfycsxo>
- Understanding Atrial Septal Defect (ASD) <https://www.youtube.com/watch?v=jljD3MSVfRE>
- Understanding Atrioventricular (AV) Septal Defect Understanding Atrioventricular (AV) Septal Defect
- Heart Conditions – Pulmonary Stenosis <https://www.youtube.com/watch?v=Rjorbxcct0>
- What is Aortic Stenosis Animation <https://www.youtube.com/watch?v=uKuiZ8mQy6Q>

Valvular defects

- Heart Conditions – Pulmonary Stenosis <https://www.youtube.com/watch?v=Rjorbxcct0>
- What is Aortic Stenosis Animation <https://www.youtube.com/watch?v=uKuiZ8mQy6Q>
- Mitral Stenosis - sound & animation <https://www.youtube.com/watch?v=GZect8nfMU0>
- Mitral Valve Prolapse - sound & animation <https://www.youtube.com/watch?v=JzNz1pCtMsQ>
- Aortic Stenosis - Murmur Sound & Animation https://www.youtube.com/watch?v=GGiQloZMQ_k

Thrombocytopathy

- Thrombocytopaenia (low platelets) Overview - platelet physiology, classification, pathophysiology https://www.youtube.com/watch?v=JF4ERKr_CnI