

Syllabus
Pathological Physiology 2
Summer Semester 2021/2022
Week 4

General Medicine

1. Online lecture via Microsoft Teams

- Respiratory system
 - Obstructive & restrictive disorders - forms, pathogenesis, ventilometric differences; typical findings
 - Respiratory failure - type I and II (global and partial), causes, symptoms

2. Presence seminars

- Pathophysiology of haematology – review
- Coagulation disorders
- Respiratory system
 - Disorders of ventilation, diffusion & perfusion
 - Respiratory failure
 - Lung oedema - interstitial and alveolar

3. Practical protocol: *Evaluation of heart sounds and murmurs and respiratory auscultation sounds*

- Analysis of cardiac and respiratory sounds under the guidance of a teacher
- Theoretical introduction available at <http://patfyz.medic.upjs.sk/estudmat/Breath%20and%20cardiac%20sounds.pdf>
- Sound recordings available at <http://patfyz.medic.upjs.sk/estudmat.htm>
- Editable protocol form available at <http://patfyz.medic.upjs.sk/estudmat.htm>
- Prepare the protocols and pass them on to the teacher according to the instructions.

4. Semester work presentations according to the schedule within each group

Dental Medicine

1. Online lecture via Microsoft Teams

- Respiratory system
 - Obstructive & restrictive disorders - forms, pathogenesis, ventilometric differences; typical findings
 - Respiratory failure - type I and II (global and partial), causes, symptoms

2. Presence seminars

- Respiratory system
 - Disorders of ventilation, diffusion & perfusion
 - Respiratory failure
 - Lung oedema

3. Semester work presentations according to the schedule within each group

Recommended audiovisual materials

- Respiratory System Physiology - Ventilation and Perfusion (V:Q Ratio) Physiology https://www.youtube.com/watch?v=-mL_NQ3pKnA
- Lung Function - Lung Volumes and Capacities <https://www.youtube.com/watch?v=9VdHhD1vcDU>
- Understanding Spirometry - Normal, Obstructive vs Restrictive <https://www.youtube.com/watch?v=YwcNbVnHNAo>
- Asthma Pathophysiology <https://www.youtube.com/watch?v=NNfx27io8-k>
- Emphysema - Pathophysiology (COPD) <https://www.youtube.com/watch?v=ChISfDBHLvg>
- Chronic Obstructive Pulmonary Disease Overview (types, pathology, treatment) <https://www.youtube.com/watch?v=H7IYd1VWCgk>
- Acute respiratory distress syndrome (ARDS) Etiology, Clinical features, Diagnosis, and Treatment <https://www.youtube.com/watch?v=KXw8LXKcmrw>
- Respiratory Failure https://www.youtube.com/watch?v=rZmo_EFs9YY
- Pulmonary Hypertension, Animation https://www.youtube.com/watch?v=LzIG_pxiKzY