

**Syllabus - Distance learning  
Summer Semester 2020/2021  
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. Online seminars via Microsoft Teams according to schedules on department webpage (patfyz.medic.upjs.sk)**

- 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>
- After the seminar, **prepare the protocols, upload to MS Teams, or collect them and send to teacher** at the teacher's instructions.

**4. Semester work presentations:** during the online seminar 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. Online seminars via Microsoft Teams according to schedules on department webpage (patfyz.medic.upjs.sk)**

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

**3. Semester work presentations:** during the online seminar 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](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](https://www.youtube.com/watch?v=rZmo_EFs9YY)
- Pulmonary Hypertension, Animation [https://www.youtube.com/watch?v=LzIG\\_pxikZy](https://www.youtube.com/watch?v=LzIG_pxikZy)