

**Syllabus**  
**Pathological Physiology 2**  
**Summer Semester 2021/2022**  
**Week 2**

**General Medicine**

**1. Online lecture via Microsoft Teams**

- Hypertension – primary & secondary, systemic & pulmonary, classification, mechanisms, regulation
- Ischemic heart disease, acute coronary syndrome, angina pectoris, myocardial infarction, chronic ischemic heart disease

**2. Presence seminars**

- Hypertension - classification, mechanisms, regulation
- Hypotension - classification, mechanisms
- Cardiomyopathies – classification, etiopathogenesis, inborn & acquired
- Dysrhythmias – classification causes, mechanisms, interpretation of ECG
- Basics of ECG

**3. Semester work deadline**

**Dental Medicine**

**1. Online lecture via Microsoft Teams**

- Atherosclerosis – pathogenesis, complications
- Ischemic heart disease - Ischemic heart disease, acute & chronic, angina pectoris, myocardial infarction
- Hypertension - classification, mechanisms, regulation

**2. Presence seminars**

- Angina pectoris and myocardial infarction
- Dysrhythmias - classification causes, mechanisms, interpretation of ECG

**3. Semester work deadline**

**Recommended audiovisual materials**

*Hypertension*

- Renin Angiotensin Aldosterone System - <https://www.youtube.com/watch?v=bY6IWWgFCrQ>
- Part I - Regulation of Blood Pressure (Hormones) - <https://www.youtube.com/watch?v=tANEMMGoy9k>
- Part II - Regulation of Blood Pressure (Hormones) - <https://www.youtube.com/watch?v=HzfAfsZVtYU>
- Hypertension | Clinical Presentation - <https://www.youtube.com/watch?v=X5TknCu3RV0>
- Primary hypertension - <https://www.youtube.com/watch?v=qyUHnh73Sng>
- Secondary hypertension - <https://www.youtube.com/watch?v=zTb4TkIMVcY>

*Coronary heart disease*

- Cardiology - Coronary Blood Supply - <https://www.youtube.com/watch?v=3wpT-4bSmoU>
- Acute Coronary Syndrome - <https://www.youtube.com/watch?v=TBG9Jw3yd9I>
- Angina: Stable, Unstable, Microvascular and Prinzmetal, Animation - <https://www.youtube.com/watch?v=-l-NN2PSAU8>
- HEART ATTACK (ACS & MI) - <https://www.youtube.com/watch?v=QllquanpKic>
- Ischemia 1/7 - Introduction and pathophysiology of ACS - <https://www.youtube.com/watch?v=SQnKOCwwl7M>
- Ischemia 2/7 - Coronary anatomy - <https://www.youtube.com/watch?v=heYZCd2LRqs>
- Ischemia 3/7 - Localization on ECG - [https://www.youtube.com/watch?v=OwaYb\\_LPL3U](https://www.youtube.com/watch?v=OwaYb_LPL3U)
- Ischemia 4/7 - UA and NSTEMI - <https://www.youtube.com/watch?v=-NvvQ7SPFK4>
- Ischemia 5/7 - Examples of UA and NSTEMI - <https://www.youtube.com/watch?v=Fs5cDIZEv-U>
- Ischemia 6/7 - STEMI on ECG - <https://www.youtube.com/watch?v=fJEq--JMuog&t=15s>
- Ischemia 7/7 - Examples of STEMI - <https://www.youtube.com/watch?v=h8T91i7RQUY>
- Angioplasty - Medical animation - <https://www.youtube.com/watch?v=p3z9FLYijrQ>