

**Syllabus**  
**Pathological Physiology 2**  
**Summer Semester 2021/2022**  
**Week 6**

**General Medicine**

**A. Online lecture via Microsoft Teams**

1. Nervous system I
  - Motor disorders - neurophysiology, role of spinal cord, brain-stem, cerebellum, basal ganglia, cortex; Disorders: paralysis, extrapyramidal syndromes, neuromuscular disorders, myopathies
2. Nervous system II
  - Sensory system - Somatosensory disorders

**B. Presence seminars**

1. Kidneys and urinary tract
  - Kidney stones, Tubulointerstitial diseases, Pyelonephritis
2. Nervous system
  - Spinal cord sy.
  - Motor disorders
  - Sensory disorders, Pain
3. Examination of knowledge (quiz, oral examination)
4. Semester work presentations according to the schedule within each group
5. Presentations of selected topics according to the systems based on a group schedules

**Dental Medicine**

**A. Online lecture via Microsoft Teams**

1. Nervous system I
  - Motor disorders - neurophysiology, role of spinal cord, brain-stem, cerebellum, basal ganglia, cortex; Disorders: paralysis, extrapyramidal syndromes, neuromuscular disorders, myopathies
  - Facial palsy

**B. Presence seminars**

1. Kidneys and urinary tract
  - Kidney stones, Tubulointerstitial diseases, Pyelonephritis
2. Nervous system
  - Neuromuscular diseases
3. Examination of knowledge (quiz, oral examination)
4. Semester work presentations according to the schedule within each group
5. Presentations of selected topics according to the systems based on a group schedules

Note: The range of topics and their time-table 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**

- Introduction to Upper and Lower Motor Neuron Introduction to Upper and Lower Motor Neuron Lesions <https://www.youtube.com/watch?v=CIXsS7O8seg>
- Cerebral Palsy - (DETAILED) Overview <https://www.youtube.com/watch?v=7fUGWKM32hE>
- Bell's Palsy, Pathophysiology, Symptoms, Diagnosis and Treatment, Animation <https://www.youtube.com/watch?v=5KUbnVeMYEo>
- Spinocerebellar ataxia - causes, symptoms, diagnosis, treatment, pathology <https://www.youtube.com/watch?v=tX7OPCKvta8>

- Understanding Parkinson's disease <https://www.youtube.com/watch?v=ckn9zybpYZ8>
- What is Parkinson's Disease? <https://www.youtube.com/watch?v=cRLB7WqX0fU>
- Myasthenia Gravis <https://www.youtube.com/watch?v=il3vvxNpls8>
- The Duchenne Timeline <https://www.youtube.com/watch?v=wNthAUjytGg>
- Brown-Sequard Syndrome causes, pathophysiology, symptoms diagnosis and treatment <https://www.youtube.com/watch?v=J4rvgSQibTs>
- Nociceptors - An Introduction to Pain <https://www.youtube.com/watch?v=fUKlpuz2VTs>
- PAIN! Physiology - The Ascending Pathway, Descending Pain Pathway and the Substantia Gelatinosa <https://www.youtube.com/watch?v=5c8maFAhqlc>
- Gate Control Theory of Pain <https://www.youtube.com/watch?v=oQLFfvGM7nl>