

**Syllabus**  
**Pathological Physiology 2**  
**Summer Semester 2022/2023**  
**Week 7**

## **General Medicine**

### **1. Lecture**

- Vegetative nervous disorders - general symptomatology, vegetative dystonia, postural/orthostatic and regional disorders
- Neurodegenerative disorders - classification; genetic basis; inclusions diseases

### **2. Seminars**

- T: Demyelination dis. – multiple sclerosis – etiopathogenesis, clinical signs and course  
Neurodegenerative diseases - classification, Alzheimer´s dis., Parkinson´s dis., etiology, pathogenesis, genetics, microscopic and macroscopic changes, clinical signs, complications
- S: Review – cardiovascular system, haematology, respiratory system, renal and urinary system

### **3. 3rd credit test**

- **Multiple choice (Yes/No) test**
- **Open questions test**
- All information available at <http://patfyz.medic.upjs.sk/einfo.htm>
- Topics of credit test available at <http://patfyz.medic.upjs.sk/CREDIT%20test%20III%20GM.pdf>
- Study materials available at <http://patfyz.medic.upjs.sk/estudmat.htm>

### **4. Examination of knowledge (quiz, oral examination)**

### **5. Presentations of semester works and selected topics according to the group schedules.**

## **Dental Medicine**

### **1. Lecture**

- Sensory disorders, Pain
- Vegetative nervous disorders - general symptomatology, vegetative dystonia, postural/orthostatic and regional disorders

### **2. Seminars**

- T: Neuromuscular diseases – Myasthenia gravis, muscular dystrophy - etiopathogenesis, clinical signs, complications
- S: Review – cardiovascular system, haematology, respiratory system, renal and urinary system

### **3. 3rd credit test**

- **Multiple choice (Yes/No) test**
- **Open questions test**
- All information available at <http://patfyz.medic.upjs.sk/einfo.htm>
- Topics of credit test available at <http://patfyz.medic.upjs.sk/CREDIT%20test%20III%20DM.pdf>
- Study materials available at <http://patfyz.medic.upjs.sk/estudmat.htm>

### **4. Examination of knowledge (quiz, oral examination)**

### **5. 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 audio-visual materials

- Neurology - Autonomic Nervous System [https://www.youtube.com/watch?v=3a\\_aLsFvNWs](https://www.youtube.com/watch?v=3a_aLsFvNWs)
- Autonomic Testing - <https://www.youtube.com/watch?v=ASiW5bxd1F0>
- Neurogenic Orthostatic Hypotension - Medical Animation <https://www.youtube.com/watch?v=6LcX7fGaUe0>
- Parkinson's disease - causes, symptoms, diagnosis, treatment & pathology <https://www.youtube.com/watch?v=ARdGaE1sbBM>
- Alpha Synuclein Pre-Formed Fibrils (PFFs) and Oligomers for Modelling Parkinson's Disease <https://www.youtube.com/watch?v=uz-FQrcU8XU>
- Alzheimer Disease | Osmosis <https://www.youtube.com/watch?v=nPT1nD6Wh6E>
- Alzheimer: Neurofibrillary tangles and Amyloid plaques <https://www.youtube.com/watch?v=Qrr-HeapOEq>
- Inside the Brain: Unraveling the Mystery of Alzheimer's Disease [HQ] <https://www.youtube.com/watch?v=NjgBnx1jVIU>
- Huntington disease - causes, symptoms, diagnosis, treatment & pathology <https://www.youtube.com/watch?v=nJoS5MOqmH4>
- Friedreich's ataxia - causes, symptoms, diagnosis, treatment, pathology <https://www.youtube.com/watch?reload=9&v=bxuMTnQTprA>
- Neurodegenerative Disorder II - Parkinson's and Huntington's <https://www.youtube.com/watch?v=-5ywLBBL2Go>