

Syllabus
Pathological Physiology 2
Summer Semester 2021/2022
Week 5

General Medicine

1. Online lecture via Microsoft Teams

- Kidneys and urinary tract
 - Glomerular disorders - forms, pathogenesis, clinical signs; typical findings
 - Tubulointerstitial diseases
 - Kidney failure – acute and chronic, etiology, pathogenesis, symptoms

2. Presence seminars

- Review of cardiovascular system, hematology, respiratory system
- Introduction to physiology of kidneys and nephrology
- Manifestations of renal diseases (incl. hematuria, proteinuria)

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

4. 3rd credit test – in the presence form at the seminars

- **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>

Dental Medicine

1. Online lecture via Microsoft Teams

- Kidneys and urinary tract
 - Glomerular disorders - forms, pathogenesis, clinical signs; typical findings
 - Tubulointerstitial diseases
 - Kidney failure – acute and chronic, etiology, pathogenesis, symptoms

2. Presence seminars

- Review of cardiovascular system, hematology, respiratory system
- Introduction to physiology of kidneys and nephrology
- Manifestations of renal diseases (incl. hematuria, proteinuria)

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

4. 3rd credit test – in the presence form at the seminars

- **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>

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

- Nephritic Syndrome - classification, pathophysiology, treatment
<https://www.youtube.com/watch?v=wytTRDz8syo>
- Nephrotic Syndrome - Types and pathology (histology) <https://www.youtube.com/watch?v=WOkcWlpYsqA>
- Acute Kidney Injury (AKI) - prerenal, intrarenal and postrenal causes and pathophysiology
<https://www.youtube.com/watch?v=MH1DCCqLGps>

- Acute Renal Failure <https://www.youtube.com/watch?v=bwwQd7xkHNc>
- Chronic Kidney Disease (CKD) Pathophysiology <https://www.youtube.com/watch?v=JjcqY95HR1o>
- Urinary Tract Infection - Overview (signs and symptoms, pathophysiology, causes and treatment) <https://www.youtube.com/watch?v=1vHTAnBmuU>
- Medical Animation: Kidney Stone Disease https://www.youtube.com/watch?v=nCJm_KxwQOM