

Syllabus
Pathological Physiology 1
Winter Semester 2022/2023

Week 4

General Medicine

A. Lecture

1. **Etiology IV**

- Disorders of inner milieu (water, electrolytes); Oedemas

B. Seminars according to schedules on department webpage (patfyz.medic.upjs.sk)

1. **T:** Disorders of nutrition

- Obesity – causes, classification, diagnosis
- Insulin resistance and metabolic syndrome
- Metabolic effects of acute and absolute starvation
- Chronic undernutrition (kwashiorkor, marasmus, cachexia), eating disorders
- Qualitative undernutrition

2. **S:** Disorders of nutrition

- Disorders of trace element metabolism
- Disorders of vitamin metabolism

3. Examination of knowledge (quiz, oral examination)

4. Presentations of the selected topics according to the group schedules

Dental Medicine

A. Lecture

1. **Etiology III**

- Disorders of inner milieu (water, electrolytes; calcium, phosphates)

B. Seminars according to schedules on department webpage (patfyz.medic.upjs.sk)

1. **T:** Disorders of nutrition

- Obesity – causes, classification, diagnosis; metabolic syndrome
- Metabolic effects of acute and absolute starvation
- Chronic undernutrition (kwashiorkor, marasmus, cachexia), eating disorders
- Qualitative undernutrition

2. **S:** Disorders of nutrition

- Disorders of trace element metabolism
- Disorders of vitamin metabolism
- Disorders of nutrition – effects in oral cavity

3. Examination of knowledge (quiz, oral examination)

4. Presentations of the 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 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

Disorders of inner milieu

- Hypokalemia https://www.youtube.com/watch?v=1jz_Ym5cLds
- Hyperkalemia <https://www.youtube.com/watch?v=eoWxzJSHtXQ>
- Hypocalcemia <https://www.youtube.com/watch?v=KWZrSYo7xuk>
- Hypercalcemia <https://www.youtube.com/watch?v=630hhyQ-jE0>
- Hypophosphatemia https://www.youtube.com/watch?v=0sJ4uAqE_Ig
- Hyperphosphatemia <https://www.youtube.com/watch?v=o0KCbyf-rkU>

Metabolic syndrome

- Metabolic syndrome <https://www.youtube.com/watch?v=WjyQTmJBXFg>

Eating disorders

- Anorexia nervosa <https://www.youtube.com/watch?v=ollz9MqtW-U>
- Bulimia nervosa <https://www.youtube.com/watch?v=hk0moXO7W74>

Trace element disorders

- Intestinal iron absorption <https://www.youtube.com/watch?v=3tRTAmRbb1M>
- Hemochromatosis <https://www.youtube.com/watch?v=36n37AaVVLc>
- Wilson disease <https://www.youtube.com/watch?v=8SUUPn7ExS8>

Vitamin disorders

- Vitamin C <https://www.youtube.com/watch?v=3GjPD3Op4PQ>
- Folate deficiency https://www.youtube.com/watch?v=ADKz3pdf_5Q