

**Program of Study** : **General Medicine, Dentistry**

**Course** : **SEMINARS IN PATHOPHYSIOLOGY**

**Abbreviation** : **PFY/VA021**

**Schedule** : **10 hours of seminars**

**Course Distribution** : **4<sup>th</sup> year, 7<sup>th</sup> or 8<sup>th</sup> semester**

**Number of Credits** : **2**

**Course Form** : **Seminars**

**Seminars:**

**Teachers:** prof. MUDr. Martin Petřek, CSc. and Assistant Professors at the Department of Pathological Physiology

**Study:** continuous

**Location:** WS Theoretical Institutes - New Building, TD 2.521, Mondays 13:30 - 15:00  
SS Theoretical Institutes - Department of Pathophysiology, Thursdays 13:45 - 15:15

**Learning objectives:**

**On the course of Pathophysiology Seminars students will**

- actively participate in discussion of pathogenesis of symptoms and syndromes of disease on the example of typical virtual patients,
- study an approach to the differential diagnostics of major cardiovascular, respiratory, endocrine, kidney and neurologic disorders on the base of major pathophysiological process
- collaborate to create a basic plan for the diagnostics and treatment of patients, taking into account the pathophysiology of the disease

**Learning outcomes:**

**After completing the course students must be able to**

- understand principles of application of advanced knowledge of pathophysiology in major cardiovascular, respiratory, endocrine, kidney and neurologic disorders
- to elaborate a basic plan for the diagnosis and treatment of patients with multiple symptoms/comorbidities taking into account the pathophysiology of the disease

	<b>Date</b>	<b>Title</b>	<b>Duration (hrs.)</b>
1.	<b>7. 11. 2022</b> <b>30. 3. 2023</b>	Introduction to seminar. Clinical case 1: pathophysiological discourse of diagnosis determination and treatment principles.	<b>2</b>
2.	<b>14. 11. 2022</b> <b>6. 4. 2023</b>	Clinical cases 2 and 3: pathophysiological discourse of diagnosis determination and treatment principles.	<b>2</b>
3.	<b>21. 11. 2022</b> <b>13. 4. 2023</b>	Clinical cases 4 and 5: pathophysiological discourse of diagnosis determination and treatment principles.	<b>2</b>

4.	<b>28. 11. 2022</b> <b>20. 4. 2023</b>	Clinical cases 6 and 7: pathophysiological discourse of diagnosis determination and treatment principles.	<b>2</b>
5.	<b>5. 12. 2022</b> <b>27. 4. 2023</b>	Clinical case 8: pathophysiological discourse of diagnosis determination and treatment principles. Evaluation and final discussion.	<b>2</b>

**Completed by:** Credit

### **Requirements:**

Participation in the seminars.

Any absence must be apologized to the head teacher, event. agree on a form of substitution. With regard to the specialized character of the subject and its low hourly subsidy, we recommend completing the entire course.

*Note: It cannot be ruled out that the form of teaching and the implementation of the end of the semester may be subject to partial changes, e.g. in connection with the epidemiological situation.*

### **Literature:**

1. Damjanov I.: Pathophysiology, 1 st ed., Saunders, 2008. ISBN 9781455742332.
2. Grossman S. Porth's Pathophysiology. Lippincott Williams & Wilkins, 2013. ISBN 9781451145991
3. Sillbernagl S. Color Atlas of Pathophysiology. Thieme Publishing Group, 2016. ISBN 9783131165534
4. Further literature recommended by teachers, e.g. case reports from medical journals etc.