

**Program of Study** : General Medicine

**Course** : Clinical Immunology and Allergology

**Abbreviation** : KIM/ VAA12

**Schedule** : 9 hours of seminars  
6 hours of exercises

**Course Distribution** : 4th year, 7th term

**Number of Credits** : 1

**Course Form** : Seminars and exercises

**Seminars:**

**Group A1**

**Teachers:** prof. MUDr. Mgr. Milan Raška, Ph.D.  
prof. MUDr. František Kopřiva, Ph.D.  
odb. as. MUDr. Mojmír Račanský  
odb. as. MUDr. Jaroslava Braunová, Ph.D.  
odb. as. Mgr. Michal Křupka, Ph.D.  
odb. as. MUDr. Zuzana Heřmanová, Ph.D.  
odb. as. MUDr. Beáta Hutýrová, Ph.D.

**Teaching:** block

**Time:** 8.00 – 10.15

	<b>Date/room</b>	<b>Topic</b>	<b>Hours</b>	<b>Teacher</b>
1	<b>Wednesday 9.12.2020 TD-2.518</b>	Definition of the clinicalimmunology, links to other disciplines. Allergology: Astma bronchiale – causes, symptoms, treatment . Seasonal and persistent allergic rhinitis, food allergy, drug allergy, histamine intolerance - causes, symptoms, treatment. Allergy to poisonous insect disease, anaphylactic reaction - causes, symptoms, treatment. Allergen immunotherapy	<b>3</b>	MUDr. Mojmír Račanský
2	<b>Thursday 10.12.2020 TD-2.518</b>	Primary and secondary immunodeficiencies – types of diseases, possibilities of immunological intervention. Possibilities of immunological	<b>3</b>	MUDr. Beáta Hutýrová, Ph.D. prof. MUDr. František Kopřiva, Ph.D.

		intervention in cancer		prof. MUDr. Mgr. Milan Raška, Ph.D.
3	<b>Friday 11.12.2020 TD-2.518</b>	Autoimmune diseases - overview, systemic autoimmune diseases, possibilities of immunological intervention, organ-specific and organ-localized autoimmune diseases. Immunostimulation and Immunomodulation - vaccination, biological therapy, current possibilities of immunological intervention - overview. Credit test.	<b>3</b>	MUDr. Zuzana Heřmanová, Ph.D. Mgr. Michal Křupka, Ph.D.

### Group A2

**Teachers:** prof. MUDr. Mgr. Milan Raška, Ph.D.  
prof. MUDr. František Kopřiva, Ph.D.  
odb. as. MUDr. Mojmír Račanský  
odb. as. MUDr. Jaroslava Braunová, Ph.D.  
odb. as. Mgr. Michal Křupka, Ph.D.  
odb. as. MUDr. Zuzana Heřmanová, Ph.D.  
odb. as. MUDr. Beáta Hutýrová, Ph.D.

**Teaching:** block

**Time:** 8.00 – 10.15

	Date/room	Topic	Hours	Teacher
1	<b>Monday 25.1.2021 TD-2.520</b>	Definition of the clinical immunology, links to other disciplines. Allergology: Astma bronchiale – causes, symptoms, treatment . Seasonal and persistent allergic rhinitis, food allergy, drug allergy, histamine intolerance - causes, symptoms, treatment. Allergy to poisonous insect disease, anaphylactic reaction - causes, symptoms, treatment. Allergen immunotherapy	<b>3</b>	MUDr. Mojmír Račanský
2	<b>Tuesday 26.1.2021 TD-2.520</b>	Primary and secondary immunodeficiencies – types of diseases, possibilities of immunological intervention. Possibilities of immunological intervention in cancer	<b>3</b>	MUDr. Beáta Hutýrová, Ph.D. prof. MUDr. František Kopřiva, Ph.D. prof. MUDr. Mgr. Milan Raška, Ph.D.
3	<b>Wednesday 27.1.2021</b>	Autoimmune diseases - overview, systemic autoimmune diseases, possibilities of immunological intervention, organ-specific and organ-	<b>3</b>	MUDr. Zuzana Heřmanová, Ph.D. Mgr. Michal Křupka, Ph.D.

<b>TD-2.520</b>	localized autoimmune diseases. Immunostimulation and Immunomodulation - vaccination, biological therapy, current possibilities of immunological intervention - overview.		
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## Practical exercises:

### Group A1

**Teachers:** prof. MUDr. Mgr. Milan Raška, Ph.D.  
odb. as. MUDr. Mojmír Račanský  
odb. as. MUDr. Jaroslava Braunová, Ph.D.  
odb. as. Mgr. Michal Křupka, Ph.D.  
odb. as. MUDr. Beáta Hutýrová, Ph.D.

**Teaching:** Block  
**Čas:** 11.00 – 12.30 hod.

	<b>Date/room</b>	<b>Topic/teacher</b>	<b>Poč. hod.</b>
1	<b>Wednesday 9.12.2020 CENTESIMO</b>	Clinical allergology I Anaphylactic reaction – practice of intervention in the anaphylactic reaction MUDr. Račanský, MUDr. Braunová	<b>2</b>
2	<b>Thursday 10.12.2020 Building F, teaching room</b>	Clinical allergology II Practical demonstration of examination methods in allergology - skin tests MUDr. Hutýrová, prof. Raška	<b>2</b>
3	<b>Friday 11.12.2020 Building F, teaching room</b>	Clinical immunology Selected commented case reports, consultations MUDr. Braunová, Mgr. Křupka	<b>2</b>

### Group A2

**Teachers:** prof. MUDr. Mgr. Milan Raška, Ph.D.  
odb. as. MUDr. Mojmír Račanský  
odb. as. MUDr. Jaroslava Braunová, Ph.D.  
odb. as. Mgr. Michal Křupka, Ph.D.  
odb. as. MUDr. Beáta Hutýrová, Ph.D.

**Teaching:** Block  
**Čas:** 11.00 – 12.30 hod.

	<b>Date/room</b>	<b>Topic/teacher</b>	<b>Poč. hod.</b>
1	<b>Monday 25.1.2021 CENTESIMO</b>	Clinical allergology I Anaphylactic reaction – practice of intervention in the anaphylactic reaction MUDr. Račanský, MUDr. Braunová	<b>2</b>
2	<b>Tuesday 26.1.2021 Building F, teaching room</b>	Clinical allergology II Practical demonstration of examination methods in allergology - skin tests MUDr. Hutýrová, prof. Raška	<b>2</b>
3	<b>Wednesday 27.1.2021 Building F, teaching room</b>	Clinical immunology Selected commented case reports, consultations MUDr. Braunová, Mgr. Křupka	<b>2</b>

**The practical training includes excursions into the laboratory, therefore, each student must have the coat, slippers and a identification card (badge) !!!**

**Requirements:**

- 100% attendance on all seminars and tutorials,
- 80% of the points in the final test
- management of suspected anaphylaxis and recognition of symptoms on simulator is required to obtain the credit

**Completed by:** Examination

**Literature :**

Rabson A, Roitt IM, Delves PJ (2004): Really Essential Immunology, Blackwell Publishing Ltd. 9781405121156

Murphy K. (2016) Janeway's Immunobiology, 9th Ed. Taylor & Francis Ltd. 9780815345510