

**Program of Study** : Dentistry

**Course** : Preventive Dentistry and Cariology 2

**Abbreviation** : ST1/ZAB03

**Schedule** : 30 hours of lectures  
45 hours of pract. trainings

**Course Distribution** : 2<sup>nd</sup> year, 4<sup>th</sup> semester

**Number of Credits** : 11

**Course Form** : Lectures, pract. trainings

**Lectures:**

**Guarantor:** doc. MUDr. Květoslava Nováková, CSc.

Stomatolog Yuliya Morozova, Ph.D.  
MUDr. Přemysl Krejčí, Ph.D  
MDDr. Markéta Miklasová  
MDDr. Adam Kovalčík  
MDDr. Juraj Marton  
MDDr. Věra Polanská  
MDDr. Magdaléna Ďurinová  
MDDr. Klára Tichá  
MDDr. Stráňava Matúš

**Study:** Continuous Friday 7:30-9:00, EVEN WEEK (sudý týden),  
Seminar room 1 UZQ 101080

	<b>Week from-up to</b>	<b>Subjekt</b>	<b>Hours</b>	<b>Teachers</b>
1	24.2.2023 7:30 – 10:30	Prevention in restorative dentistry and endodontics.	4	Nováková/ Morozova
2	10.3.2023 7:30 – 9:00  9:00 – 10:30	Prevention in prosthetic dentistry.  Prevention in orthodontics. Possibilities of postnatal prevention of orthodontic anomalies.	4	Nováková/ Polanská  Nováková/ Stráňava
3	24.3.2023	Prevention in periodontology.	4	Nováková/

	7:30 – 9:00 9:00 – 10:30	Manifestations of general diseases in the oral cavity.		Marton Nováková/ Marton
	7.4.2023	<b>Public holiday</b>		
4	21.4.2023 7:30 – 9:00  9:00 – 10:30	Prevention in pedostomatology - prenatal and postnatal prevention. Early childhood caries.  Pain in dentistry - forms, pain prevention, fear of treatment. Psychotherapeutic methods.	4	Nováková/Tichá  Nováková/Tichá
5	5.5.2023 7:30 – 9:00  9:00 – 10:30	Treatment of patients under general anesthesia and analgesia.  Methods of anesthesia in dentistry. Local anesthetics.	4	Nováková/Krejčí  Nováková/Krejčí
6	<b>12.5.2023</b> 7:30 – 9:00  9:00 – 10:30	Treatment and prevention in patients with general diseases.  Treatment and prevention in patients with infectious diseases. Hygiene of the operation of the surgery.  <b>ATTENTION!</b> <b>Change in the week of teaching</b>	4	Nováková/ Řurinová  Nováková/ Řurinová
7	19.5.2023 7:30 – 9:00  9:00 – 10:30	Prevention of general complications in dentistry.  Oncological prevention in dentistry, prevention in the period of preparation for oncological treatment, during therapy and subsequent convalescence	4	Nováková/ Kovalčík  Nováková/ Kovalčík
8	<b>26.5.2023</b> 7:30 – 9:00	Credit  <b>ATTENTION!</b> <b>Change in the week of teaching</b>	2	Nováková/ Miklasová

## Pract. training:

**Guarantor:** doc. MUDr. Květoslava Nováková, CSc.

### Teachers:

MDDr. Petra Kamínková, Ph.D.  
MDDr. Monika Kovalská  
MDDr. Adam Kovalčík  
MDDr. Markéta Miklasová  
MDDr. Timea Pilipová  
MDDr. Klára Tichá

**Study:** Monday 13.00 – 15.15

	Week From- up to	Pediatric dentistry office group/topic				Periodontology group/topic		Hours
1.	13.2.2023	A	topic 1	B	topic 1	C	topic 1	3
2.	20.2.2023	B	topic 2	C	topic 1	A	topic 1	3
3.	27.2.2023	C	topic 2	A	topic 2	B	topic 1	3
4.	6.3.2023	A	topic 3	B	topic 3	C	topic 2	3
5.	13.3.2023	B	topic 4	C	topic 3	A	topic 2	3
6.	20.3.2023	C	topic 4	A	topic 4	B	topic 2	3
7.	27.3.2023	A	topic 5	B	topic 5	C	topic 3	3
8.	3.4.2023	B	topic 6	C	topic 5	A	topic 3	3
9.	10.4.2023 the state holiday	C	topic 6	A	topic 6	B	topic 3	3
10.	17.4.2023	A	topic 7	B	topic 7	C	topic 4	3
11.	24.4.2023	B	topic 8	C	topic 7	A	topic 4	3
12.	1.5.2023 the state holiday	C	topic 8	A	topic 8	B	topic 4	3
13.	8.5.2023 the state holiday	A	topic 9	B	topic 9	C	topic 5	3
14.	15.5.2023	B	topic 10	C	topic 9	A	topic 5	3
15.	22.5.2023	C	topic 10	A	topic 10	B	topic 5	3

### Number

### Office/topic Pediatric dentistry office

1. Revision – presentation of chosen topics
2. Caries etiology, theory of tooth decay, predilection sites of caries. Identification and therapy of initial caries lesion, motivation of patients. Fissure sealing – indication and realization. Preventive filling.
3. Caries classification – Black, Mount, Hume. Caries prima, secunda, recidivans-

- etiology, diagnosis, therapy. Histopathology of tooth decay.
4. General principles of preparation, cavity preparation steps, preparation trauma, speed range according to the caries preparation.
  5. Extension for prevention, resistance of dental tissue, plastic filling. Macro and micromechanical retention of plastic tooth filling.
  6. Tooth pulp protection, treatment of exposed dentin – materials, how to do instructions, using of liner, subbase, base.
  7. Final trimming, polishing and finishing of fillings. Final filling check up according to Ryge and Mjör classification.
  8. Alternative preparation and treatment (tunnel preparation, slot preparation, ART technique, chemo-mechanical technique -Brix 3000).
  9. Primary teeth caries – epidemiology, localization, prevention, therapy (permanent and semipermanent filling). Identification of children with high risk of dental caries.
  10. Credit.

#### **Periodontology**

1. Revision. Plaque – formation, differences of dental plaque according to its localization. Plaque affection of periodontal tissue. Professional hygienic treatment, plaque retention sites and their removing and treatment.
2. Principles of periodontal examination, recording of hygiene status and periodontal status using indexes. Home dental care, remotivation of the patient.
3. Hygienic principles in dental surgery. Patient protection in terms of hygiene. Patient's handling with contagious disease (HIV infected patient).
4. Dental hard and soft tissues damage at professional oral hygiene.
5. Calculus removing – hand and ultrasonic instrument. Credit.

**The way of finishing:** Credit, exam

**Credit conditions:**

100% participation on practical trainings, fulfillment of practical trainings limits: check up 3x, polishing 2x, fluoridation 2x, treatment of simple caries or preventive filling 2x, polishing of the fillings 4x. Students will arrange patients to perform complex check up and treatment.

Knowledge control: achievement on the tests in practical trainings, final exam

Directions of dean LF – B-18/14 It is possible to past 1/3 of obligate education, but only upon an apology.

Continuous testing of manual operations.

**Literature:**

Primary Preventive Dentistry (8th Edition) by Norman O.Harris, Franklin Garcia-Godoy and Christine Nielsen Nathe  
 Publication Date: June 17, 2013 | ISBN-10: 0132845709 | ISBN-13: 978-0132845700 | Edition: 8

Comprehensive Preventive Dentistry by Hardy Limeback  
 Publication Date: July 10, 2012 | ISBN-10: 0813821681 | ISBN-13: 978-0813821689 | Edition: 1

Sturdevant's Art and Science of Operative Dentistry, 6e  
(Roberson, Sturdevant's Art and Science of Operative  
Dentistry... by Harald O. Heymann DDS MEd, Edward J. Swift  
Jr. DMD MS and Andre V. Ritter DDS MS  
Publication Date: May 1, 2012 | ISBN-10: 0323083331 | ISBN-  
13: 978-0323083331 | Edition: 6

Bruch, Jean M.: Clinical oral medicine and pathology, New York,  
N.Y. Humana Press 2010, p169 s. ISBN 9781603275194  
Cameron A.C., Widmer R.P.: Handbook of Pediatric Dentistry  
London, Mosby 2003, p 414, ISBN 0 7234 3186 8  
Kilian Jan: Stomatology for students of general medicine, Praha,  
Karolinum, 2002, p 128, ISBN 802460471X

Tyldesley, William Randolph: Diagnosis in color oral medicine,  
Barcelona, Mosby-Wolfe, 1994, p256. ISBN 0723431205

Students are obliged to come to practical trainings in white clothes – trousers and shirts + white socks, shoes and name tag. Students wearing a cloak cannot attend practical trainings.