

Clinic of Pediatric Dentistry
Lecture program of the course:
IV course VII winter semester 2020-2021

Assoc. Prof. N. Gateva
Monday 11.30 – 13.00 h
1st w – 3th
Dent. Hall, Faculty Dental
Medicine

Workload:
15 h lectures
6 lectures of 2 hours and 1 lecture of 3 hours

I lecture – 2 h 05.10.2020
Specifics of development, clinics and diagnostics of pulpitis in childhood

II lecture – 2 h 19.10.2020
Treatment of periodontitis of primary teeth. Indications for extraction in the primary dentition.

III lecture – 2 h 02.11.2020
Treatment of reversible pulpitis in immature permanent teeth.

IV lecture – 2 h 16.11.2020
Treatment of irreversible pulpitis in immature permanent teeth.

V lecture – 2 h 30.11.2020
Development, clinical manifestation, diagnosis, and treatment of apical periodontitis in immature permanent teeth.
D-r Kr. Hristov

VI lecture – 2 h 14.12.2020
Oral examination in childhood.
Prof. d-r R. Kabaktchieva

VII lecture – 3 h 11.01.2021
Psychological problems in dental treatment and methods of behavioral management in childhood.

Discipline: "Clinic of Pediatric Dentistry" Phantom course

Exercise program

IV year, VII semester - Phantom course / winter 2020-2021

30 hours of exercise in 15 weeks

1st exercise - 2 hours **05.10. - 9.10.2020**

In-person: for all groups

Program introduction for the VII semester in the conditions of the Covid epidemic:

- Instructions for conducting the in-person exercises - schedule, program
- Instructions for conducting distance-asynchronous exercises - schedule for preparation and presentations.

Distribution of essay topics for each student.

Important! Each student should provide 2 extracted natural primary molars needed for endodontic treatment of pulpitis and apical periodontitis in primary teeth (exercises 8 and 9). The teeth must be preserved as much as possible.

2nd exercise - 2 hours **12.10. - 16.10.2020**

In-person for groups: 17, 18, 21, 22, 23, 26

Practical task:

Class II amalgam cavity preparation in primary molars:

tooth 54 - distal T-shaped retention;

tooth 65 - L-shaped retention.

Distance learning for groups 19, 20, 24, 25, 27, 28

Collecting resources for an essay on the predetermined topic.

3rd exercise - 2 hours **19.10. - 23.10.2020**

In-person for groups 19, 20, 24, 25, 27, 28

Practical task:

Class II amalgam cavity preparation in primary molars:

tooth 54 - distal T-shaped retention;

tooth 65 - L-shaped retention.

Distance learning for groups 17, 18, 21, 22, 23, 26

Collecting resources for an essay on the predetermined topic.

4th exercise - 2 hours **26.10. - 30.10.2020**

In-person for groups 17, 18, 21, 22, 23, 26

Practical task:

Class II amalgam cavity preparation in primary molars:

tooth 75 - MO-cavity for amalgam with extension in the fissure.

class II cavity preparation for restoration of primary molars with compomer and GIC:

tooth 84 – MO localization (compomer)

tooth 75 – DO localization (compomer)

Distance learning for groups 19, 20, 24, 25, 27, 28

Essay preparation on the predetermined topics.

5th exercise - 2 hours**02.11. - 06.11.2020**In-person for groups **19, 20, 24, 25, 27, 28**

Practical task:

Class II amalgam cavity preparation in primary molars:

tooth 75 - MO-cavity for amalgam with extension in the fissure.

class II cavity preparation for restoration of primary molars with compomer and GIC:

tooth 84 – MO localization (compomer)

tooth 75 – DO localization (compomer)

Distance learning for groups 17, 18, 21, 22, 23, 26

Essay preparation on the predetermined topic.

6th exercise - 2 hours**09.11. - 13.11.2020**In-person for groups **17, 18, 21, 22, 23, 26**

Practical task:

Class III cavity preparation of tooth 63

Class V cavity preparation of tooth 74

Microinvasive cavity preparation and preventive filling of tooth 16: one cavity in mesial and one in distal occlusal pit.

Microinvasive cavity and preventive filling on mesio-occlusal surface of tooth 26.

Distance learning for groups 19, 20, 24, 25, 27, 28

Essay preparation on the predetermined topic.

7th exercise - 2 hours**16.11. - 20.11.2020**In-person for groups **19, 20, 24, 25, 27, 28**

Practical task:

Class III cavity preparation of tooth 63

Class V cavity preparation of tooth 74

Microinvasive cavity preparation and preventive filling of tooth 16: one cavity in mesial and one in distal occlusal pit.

Microinvasive cavity and preventive filling on mesio-occlusal surface of tooth 26.

Distance learning for groups 17, 18, 21, 22, 23, 26

Essay preparation on the predetermined topic.

8th exercise - 2 hours**23.11. - 27.11.2020**In-person for groups **17, 18, 21, 22, 23, 26**

Practical task:

Pulpotomy and resorcinol - formalin technique on a natural primary tooth

Treatment of apical periodontitis on a natural primary molar by resorcinol - formalin technique.

Distance learning for groups 19, 20, 24, 25, 27, 28

Essay preparation on the predetermined topic.

9th exercise - 2 hours**30.11. - 04.12.2020**In-person for groups **19, 20, 24, 25, 27, 28**

Practical task:

Pulpotomy and resorcinol - formalin technique on a natural primary tooth

Treatment of apical periodontitis on a natural primary molar by resorcinol - formalin technique.

Distance learning for groups 17, 18, 21, 22, 23, 26

Essay preparation on the predetermined topic.

10th exercise - 2 hours

07.12 - 11.12.2020

In-person for groups 17, 18, 21, 22, 23, 26

Practical exam

Distance learning for groups 19, 20, 24, 25, 27, 28.

Essay presentation

11th exercise - 2 hours

14.12.- 18.12.2020

In-person for groups 19, 20, 24, 25, 27, 28

Practical exam

Distance learning for groups 17, 18, 21, 22, 23, 26

Essay presentation

12th exercise - 2 hours

21.12. - 23.12.2020

In-person for groups 17, 18, 21, 22, 23, 26

Practical task:

Demonstration on rubber dam isolation on phantom model.

Distance learning for groups 19, 20, 24, 25, 27, 28

PowerPoint presentation

28.12.20 - 03.01.21 - vacation

13th exercise - 2 hours

04.01. - 08.01.2021

In-person for groups 19, 20, 24, 25, 27, 28

Practical task:

Demonstration on rubber dam isolation on phantom model .

Distance learning for groups 17, 18, 21, 22, 23, 26

PowerPoint Presentation

14th exercise - 2 hours

11.01. - 15.01.2021

In-person for students who have failed the practical exam

Resit of practical exam

15th exercise – 2 hours

18.01. - 22.01.2021

Semester certification for: all groups

Instructions and topics for essays

Each student in the group is assigned one topic from the proposed list. The essays should be written on A4 paper (3-5 pages) and have a short Power Point version for presentation. They should be ready by the beginning of Exercises 8 and 9, after which they will be presented and evaluated in front of the whole group.

Topics for essays:

- (1) Aesthetic filling materials and modern adhesive systems, indications for treatment of primary and permanent teeth.
- (2) Glass ionomer cements. Characteristics, indications and method of work for treatment of caries lesions in primary teeth.
- (3) Compomers. Characteristics, indications and method of work in the treatment of caries lesions in primary teeth.
- (4) Types of crowns for treatment of destroyed primary teeth - indications, treatment protocol.
- (5) Preventive, non-operative treatment of dental caries. Modern remedies for remineralization - types, indications, methods.
- (6) Minimally invasive treatment of caries in childhood. Management of the oral environment, microinvasive cavity preparation, preventive fillings.
- (7) Alternative techniques for minimally invasive treatment of dental caries.
- (8) Laser cavity preparation in the treatment of caries with minimal intervention in childhood.
- (9) Early diagnosis of dental caries with high-tech equipment.
- (10) Minimally invasive treatment of deep dentinal caries. Excavation methods and excavation control. Use of biologically active remedies for treatment.
- (11) Alternative methods and techniques for the treatment of the pulp of primary teeth.
- (12) Other contemporary topics in the field of Cariesology are also acceptable.

Discipline: Pediatric Dentistry – Typodont practical course Practical Examination

It is conducted by the assistant of the group and assoc. prof. Gateva. It consists of 2 parts:

I. Practical task – cavity preparation - 20 min. (determined by ticket withdrawal).

II. Answer to a written question from the topics of the phantom course - 30 minutes.

The final grade from the phantom course is formed together by the lecturer and the group assistant.

I. Practical tasks

1. Preparation of I class cavity of tooth 55 for amalgam restoration. There are two carious lesions in the medial and distal part of the occlusal surface without undermining the oblique ridge.
2. Preparation of I class cavity of tooth 85 for amalgam restoration.
3. Preparation of II class DO cavity of tooth 54 with a T-groove retention for amalgam restoration.

4. Preparation of II class MO cavity of tooth 65 with a L-groove retention for amalgam restoration.
5. Preparation of II class MO cavity of tooth 75 with an extension into occlusal fissures for amalgam restoration.
6. Preparation of II class MO cavity of tooth 85 with retention grooves for amalgam restoration.
7. Preparation of III class MA cavity of tooth 53 for compomer restoration.
8. Preparation of V class cavity of tooth 84 for GIC restoration.
9. Preparation of I class preventive composite restoration of tooth 46 (two caries lesions in the medio- and disto-occlusal pit).
10. Preparation of II class preventive restoration of tooth 26 with MO dental lesion.

II. Written questions

1. Anatomical and morphological characteristics of primary teeth in relation to development and treatment of dental decay.
2. Anatomical and morphological characteristics of permanent teeth in relation to development and treatment of dental decay and its complications.
3. Clinic and diagnostic of the caries in primary teeth.
4. Clinic and diagnostic of the caries in permanent teeth. Diagnostic threshold and diagnostic scale.
5. First class cavity preparation of primary teeth. Indications, stages and rules of cavity preparation and for amalgam restoration.
6. Second class cavity preparation of primary teeth. Indications, stages of cavity preparation for amalgam restoration, types of retentions, rules for determining the type of retention.
7. Principles of cavity preparation of primary teeth for esthetic restorations – I and II class cavity preparation for GIC, compomer and composite .
8. Third and fifth class cavity preparation of primary teeth – indications, stages of cavity preparation for restorations with esthetic materials – GIC, compomer, composite.
9. Early childhood caries – etiology, clinics and treatment approach.
10. Contemporary concept for treatment of dental caries in permanent teeth – minimal invasive operative preventive treatment
11. Contemporary classification of the primary tooth pulp inflammation. Diagnostics and differential diagnosis.
12. Methods and techniques for pulp treatment of primary teeth. Pharmacodynamics of the medical products.
13. Periodontitis of primary teeth – classification, diagnostic, methods of treatment. Pharmacodynamics of medical products.
14. Contemporary materials for covering the deep non-mineralized fissures – types of sealants, indications, methodologies.
15. Non-operative preventive treatment of dental caries. Contemporary products for remineralization – types, indications and methodologies.