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**Methodological elaborations**

**for third year students, semester V**

**Chişinău 2020**

**The thematic plan of practical lessons**

1. The examination of the dental patient. Completing the observation card. Determination of oral hygiene index. The role of saliva and oral fluid in the formation of dental deposits (bacterial plaque and the dental tartar). Methods and techniques for the removal of dental deposits.
2. Dental caries. Notion. Etiology. Classification. Clinical picture, positive and differential diagnosis of a dental caries at the stage of macula, superficial, medium and deep.
3. Tooth enamel physiology. Treatment of dental caries. Remineralizing therapy. Procedures and techniques. Remedies. Principles and rules in the surgical treatment of dental caries (superficial, medium and deep).
4. Systems of isolation of the working field (rubberdam). Adhesive systems. Classification. Properties. Mechanism of interaction with hard dental tissues.
5. Dental plague, particularities. Treatment of dental plague. Medicinal remedies.
6. Indirect capping. Indications and contraindications. Techniques and procedures. Medicinal remedies.
7. Treatment of dental caries located on the occlusal and vestibular faces in molars and premolars and in the cervical region of all teeth.
8. Treatment of dental caries located on the proximal faces of molars and premolars.

9-10. Treatment of dental caries located on the frontal teeth contact faces.

Methods of reconstructing / restoring the contact point and the angle of the front teeth.

1. Selection of obturation materials. Techniques and procedures for filling the carious cavities with various materials (cements, amalgams, auto- and photopolymerizable composites).
2. Techniques and procedures for dental restorations (direct and indirect).
3. Dental dyschromia. Causes. Procedures and techniques of treatment. Whitening systems. Advantages and disadvantages.
4. Lesions of hard dental tissues occurring up to the eruption of teeth (hypoplasia, fluorosis, hyperplasia). Clinical signs, positive and differential diagnosis. Treatment. Prophylactic elements.
5. Hereditary disorders in the development of hard tissues. Lesions of hard dental tissues occurring after the eruption of the teeth (traumatic lesions, acid necrosis). Clinical signs, positive and differential diagnosis. Treatment. Prophylactic elements.
6. Lesions of the hard dental tissues occurring after the eruption of the teeth. Abrasion of dental tissues, cuneiform defect, necrosis, erosion, hyperestesthesia of hard dental tissues. The clinical picture. Positive and differential diagnosis. Treatment.
7. Errors and complications in the diagnosis and treatment of tooth caries and dental lesions of non- carious origin. Totalization lesson.

**Practical Lesson No. 1**

**Theme**: The examination of the dental patient. Completing the observation card. Determination of oral hygiene index. The role of saliva and oral fluid in the formation of dental deposits (bacterial plaque and the dental tartar). Methods and techniques for the removal of dental deposits.

**Place of practical lesson:** Dental office.

**Time** - 3 hours

**The purpose of the lesson:** to familiarize students with patient examination methods and the order of completing the observation sheet. Determination of oral hygiene indices.

**Lesson Plan**

1. Appreciation of students ' knowledge on the topic – 25 min.

2. Practical work: Students examine the oral cavity on their colleagues and fill out the observation sheet. Determination of the oral hygiene index – 100 min.

3. Closing – 10 min.

**Verification questions**

1. The first stage of the patient's examination. Order of examination of oral cavity. The dental instruments for mouth examination.
2. What information we get in probing, percussion and palpation.
3. What is the significance of the thermal and electrical evidence.
4. Which examination methods are basic and complementary.
5. In which order the observation sheet is completed – legal document.
6. Required documents in the dental office (form 039-2y).
7. The function and structure of the gingival sulcus.
8. Saliva. Importance of saliva for buccal cavity tissues. The difference between saliva and oral fluid.
9. The method of changing the composition and quantity of saliva depending on the general state of the organism.
10. Microflora of the oral cavity.
11. Types of dental deposits. The causes of their occurrence.
12. Composition and mechanism of formation over- and under-gingival tartar.
13. Methods and techniques for removing dental deposits. Tools.
14. What are the complications of scaling and how to prevent them?
15. Advantages of scaling using the ultrasonic device.

**Homework**

1. Writing in the notebooks the classification of methods of examination of patients in the diagnosis of dental caries.
2. Write solutions to highlight the dental plaque.

**Bibliography**

1.Borovski E.V. – Stomatologie terapeutică. Chișinău, 1990.

2.Course materials.

3.Ghicavîi V.I., Sîrbu S. Ghid.Farmacoterapia afecțiunilor stomatologice. Chișinău.2002

4.Graham J. Mount G.J., W.R.Hume. Conservarea și restaurarea structurii dentare. Universitatea din Los Angeles, California, USA.București.1999

5.M.Gafar, M.Siti, Andriescu C. Metode și tehnici curente în odontologie.București.1980

6.В. Д. Миллер. Руководство по терапевтической стоматологии. 1998

**Practical Lesson No. 2**

**Theme:** Dental caries. Notion. Etiology. Classification. Clinical picture, positive and differential diagnosis of a dental caries at the stage of macula, superficial, medium and deep.

**Place of practical lesson:** Dental office.

**Time** - 3 hours

**The purpose of the lesson:**  To teach students the methods of examining and diagnosing different forms of caries.

**Lesson Plan**

1. Appreciation of students knowledge on the topic – 25 min.

2. Practical work: examination of patients with different clinical forms of dental caries with application of diagnostic methods - 100 min.

3. Closing – 10 min.

**Verification questions**

1. Dental caries. Notion. Etiology

2. The role of local and general factors in caries development.

3. Classification of caries (Lukomski, M.Gafar, C. Andreescu, WHO)

4. Main indications of assessing the degree of tooth damage through caries.

5. Intensity index.

6. Graduations for estimating the intensity of caries by WHO.

7. Diagnostic methods of dental caries

8. Clinical picture, diagnosis and differential diagnosis of caries at the macula stage.

9. Clinical picture, diagnosis and differential diagnosis of superficial caries.

10. Clinical picture, differential diagnosis and differential diagnosis of medial caries.

11. Clinical picture, diagnosis and differential diagnosis of deep caries.

12. Basic and complementary methods in caries diagnosis

**Homework**

Writing in the workbooks the classification of caries, the graduation by WHO for dental caries estimation and factors that favor dental caries.

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1.Borovski E.V. – Stomatologie terapeutică. Chișinău, 1990.

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3.Ghicavîi V.I., Sîrbu S. Ghid.Farmacoterapia afecțiunilor stomatologice. Chișinău.2002

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8. Е. В. Боровский, В. С. Иванов. Терапевтическая стоматология. 2002

**Practical Lesson No. 3**

**Theme:** Tooth enamel physiology. Treatment of dental caries. Remineralizing therapy. Procedures and techniques. Remedies. Principles and rules in the surgical treatment of dental caries (superficial, medium and deep).

**Place of practical lesson:** Dental office.

**Time** – 3 hours

**The purpose of the lesson:**  Acquisition of remineralizing therapy methods, indications for using the conservative method, curative remedies used. Acquisition of the basic principles and rules in the surgical treatment of caries.

**Lesson Plan**

1. Appreciation of students knowledge on the topic – 25 min.

2. Practical work: treatment of patients with various forms of dental caries by conservative methods - remineralizing therapy, providing dental care to patients with different forms of dental caries - 100 min.

3. Closing – 10 min.

**Verification questions**

1. Tooth enamel. Physiological significance.
2. Remineralizing Therapy. The Essence and Method.
3. Preparations used for remineralizing therapy.
4. Recommendations for patients subjected to conservative treatment.
5. Methods for determining the efficacy of treatment by remineralizing therapy.
6. Principles of surgical treatment of dental caries. Stages of preparation of caries cavities. Rules for the preparation of carious cavities.
7. The stages of surgical treatment of superficial caries. Instruments used for preparation of cavities.
8. Stages of surgical treatment of the medium caries.
9. Stages of surgical treatment of deep caries.

**Homework**

Writing in the workbooks the remineralizing therapy plan indicating the duration of the treatment and the curative remedies used.

To draw in the workbooks the depth of the carious cavities with the highlighting of the damaged layers of dental tissue in the superficial, medium, deep caries. To transcribe manually the patomorphological areas in these forms of caries.

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**Practical Lesson No. 4**

**Theme:** Systems of isolation of the working field (rubberdam). Adhesive systems. Classification. Properties. Mechanism of interaction with hard dental tissues.

**Place of practical lesson:** Dental office.

**Time** – 3 hours

**The purpose of the lesson:**

**Lesson Plan**

1. Appreciation of students knowledge on the topic – 25 min.

2. Practical work: - 100 min.

3. Closing – 10 min.

**Verification questions**

1. Systems of isolation of the working field.

2. Rubberdam. Components. Methods of application.

3. Adhesive systems and their role.

4. Classification of adhesive systems.

5. Physico-chemical properties.

6. Mechanism of interaction with dental hard tissues.

**Homework**

To write the work field isolation systems.

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1.Borovski E.V. – Stomatologie terapeutică. Chișinău, 1990.

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3.Ghicavîi V.I., Sîrbu S. Ghid.Farmacoterapia afecțiunilor stomatologice. Chișinău.2002

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**Practical Lesson No. 5**

**Theme:** Dental plaque, particularities. Treatment of dental plague in superficial, medium and deep cavities. Medicinal remedies used in the treatment of dental plague.

**Place of practical lesson:** Dental office.

**Time** – 3 hours

**The purpose of the lesson:**

**Lesson Plan**

1. Appreciation of students knowledge on the topic – 25 min.

2. Practical work: - 100 min.

3. Closing – 10 min.

**Verification questions**

1. What the dental plague presents. Particularities.
2. What are the differences between dental plague and the soft tissues plague.
3. What is dentinal fluid.
4. Dental treatment plague in superficial, medium and deep cavities.
5. Medicinal remedies used in the treatment of dental plague.

**Homework**

To write in the notebooks the medicinal remedies used in the treatment of dental plague.

**Bibliography**

1.Borovski E.V. – Stomatologie terapeutică. Chișinău, 1990.

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3.Ghicavîi V.I., Sîrbu S. Ghid.Farmacoterapia afecțiunilor stomatologice. Chișinău.2002

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**Practical Lesson No. 6**

**Theme:** Indirect capping. Indications and contraindications. Techniques and procedures. Medicinal remedies.

**Place of practical lesson:** Dental office.

**Time** – 3 hours

**The purpose of the lesson:**  Acquisition of the indications of application and the technique of performing the indirect capping in the treatment of dental caries; studying curative remedies.

**Lesson Plan**

1. Appreciation of students knowledge on the topic – 25 min.

2. Practical work: treatment of dental caries with application of basic obturations (curative pastes); treatment of caries in one visit and in two; studying modern healing pastes for indirect capping - 100 min.

3. Closing – 10 min.

**Verification questions**

1. The concept of direct and indirect capping.
2. Indications and contraindications in indirect capping.
3. Healing paste groups used in indirect capping and their composition.
4. The mechanism of action of the pasta containing calcium hydroxide.
5. Treatment techniques and procedures.
6. Photopolymerization curative remedies.
7. The purpose of profound caries treatment in two visits.

**Homework**

To transcribe in the workbooks the remedies and curative pastes used in the treatment of deep dental caries.

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1.Borovski E.V. – Stomatologie terapeutică. Chișinău, 1990.

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3.Ghicavîi V.I., Sîrbu S. Ghid.Farmacoterapia afecțiunilor stomatologice. Chișinău.2002

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**Practical Lesson No. 7**

**Theme:** Treatment of dental caries located on the occlusal and vestibular faces in molars and premolars and in the cervical region of all teeth.

**Place of practical lesson:** Dental office.

**Time** – 3 hours

**The purpose of the lesson:**  The study of the particularities of the treatment of caries located on the occlusal, vestibular faces in the molars and premolars and in the cervical region.

**Lesson Plan**

1. Appreciation of students knowledge on the topic – 25 min.

2. Practical work: the treatment of patients with dental caries of classes I, V, with the particularities of preparation and formation of these cavities. - 100 min.

3. Closing – 10 min.

**Verification questions**

1. Variants of Class I and V cavities by Black clasification.
2. Particularities of preparation of each of the nominated variants.
3. Tools required for cavity preparation at each stage.
4. What will depend on the shape of the carious cavity in class I and V after Black.
5. Particularities of cavity floor formation in different variants.
6. Interior form of the caries cavity located on the cervical and on the vestibular surfaces.
7. The thickness of the enamel of the tooth in the cervical area. Particularities of the preparation of the cervical cavities with subgingival extension.

**Homework**

To draw variants of cavities of Class I and V before and after preparation.

**Bibliography**

1.Borovski E.V. – Stomatologie terapeutică. Chișinău, 1990.

2.Course material.

3.Ghicavîi V.I., Sîrbu S. Ghid.Farmacoterapia afecțiunilor stomatologice. Chișinău.2002

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**Practical Lesson No. 8**

**Theme:** Treatment of dental caries located on the proximal faces of molars and premolars.

**Place of practical lesson:** Dental office.

**Time** – 3 hours

**The purpose of the lesson:**  The study of the particularities of the treatment of caries located on the proximal faces in the molars and premolars.

**Lesson Plan**

1. Appreciation of students knowledge on the topic – 25 min.

2. Practical work: Diagnostic and treatment of dental caries on the proximal faces of molars and premolars. - 100 min.

3. Closing – 10 min.

**Verification questions**

1.Particularities of second-class caries evolution by Black.

2. Variants of II Class cavities by Black.

3.Particularities of cavity preparation with and without access.

4.Preparation of vertical cavities .

5.Preparation of horizontal cavities.

6.Cavities MOD,VDO,VMD and their preparation.

7. Tunneling method (complete and incomplete).

8. Diagnostic methods of contact cavity.

9.Instruments for restoring the contact point.

10. Restabilization of the contact point. Importance.

11. Beveling of gingival margin

**Homework**

To draw variants of II Class cavities after Black before and after their preparation.

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1.Borovski E.V. – Stomatologie terapeutică. Chișinău, 1990.

2.Course material.

3.Ghicavîi V.I., Sîrbu S. Ghid.Farmacoterapia afecțiunilor stomatologice. Chișinău.2002

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**Practical lesson 9-10**

Theme: Treatment of dental caries located on the frontal teeth contact faces.

Methods of reconstructing / restoring the contact point and the front teeth angle.

Place of practical lesson: Dental office.

Time - 3 hours

Purpose of the lesson: Accommodating the treatment specificities of the cervix located on the front teeth contact faces with or without injuring the incisal angles ...

Lesson plan

1. Assessment of students' knowledge on the given topic - 25 min.

2. Practical work: Diagnosis and treatment of dental caries of Class III and IV after Black - 100 min.

3.Closing - 10 min.

Verification questions

1.Particularities of evolution of dental caries III and IV after Black.

2.Various cavities of class III.

3. Creation of access to Class III cavities with different location.

4. Particularities of preparation and formation of class III cavities.

5. Particularities of preparation and formation of class IV cavities.

6. Methods for restoring injured angles in frontal teeth.

7. Parapulpal pivots. Their characteristic.

8. Method of restoring angles using parapulpal pivots.

Homework

To draw variants of Class III and IV cavities after Black before and after their preparation.

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1.Borovski E.V. – Stomatologie terapeutică. Chișinău, 1990.

2.Materialele cursului.

3.Ghicavîi V.I., Sîrbu S. Ghid.Farmacoterapia afecțiunilor stomatologice. Chișinău.2002

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**Practical Lesson No.11**

Theme: Selection of obturators. Techniques and procedures for filling cavities with various materials (cements, amalgams, composites).

Place of practical lesson: Dental office.

Time - 3 hours

Purpose of the lesson: To assume the correct choice of cavity filling materials and cement, amalgam and composite obturation techniques.

Lesson plan

1. Assessment of students' knowledge on the given topic - 25 min.

2. Practical work: Casing of cement cavities with cements, amalgams and composites - 100 min.

3.Closing - 10 min.

Verification questions

1. Classification of obturation materials.

2.The requirements presented for the filling materials. Methods of choice of the filling materials.

3. Physical and chemical properties of composites.

4. Properties of photopolymerizable composites.

5. What is the purpose of insulating filling at amalgam filling? The rules for application of insulating fillings.

6.Specificities of teeth obstruction with amalgam.

7.Specificities of teeth filling.

8. Ionomeric cements. Directions for application.

9. Lips and linings.

10. What is the oily or faded layer.

11. Methods and remedies for hard dental tissues.

12. Hybrid zone.

13. The characteristics of washing and drying the cavities when applying composites.

14.Instruments for polishing and polishing the composites.

Homework

Writing in notebooks classification of filling materials and directions to their application.

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1.Borovski E.V. – Stomatologie terapeutică. Chișinău, 1990.

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10 Макеева. И. М. Восстановление зубов светоотверждаемыми композиционными материалами. М .1997.

**Practical Lesson # 12**

Theme: Tenes and procedures for dental restorations (direct and indirect).

Place of practical lesson: Dental office.

Time - 3 hours

Purpose of the lesson:

Lesson plan

1. Assessment of students' knowledge on the given topic - 25 min.

2. Practical work :. - 100 min.

3.Closing - 10 min.

Verification questions

1. Dental restorations.

2. Indications and contraindications in dental restorations.

3. Materials and tools used in dental restorations.

4. Techniques in direct dental restorations.

5. Techniques in indirect dental restorations.

6. Comparative feature of methods of direct and indirect dental restorations.

Homework

Writing instruments and materials used in dental restorations.

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1.Borovski E.V. – Stomatologie terapeutică. Chișinău, 1990.

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3.Ghicavîi V.I., Sîrbu S. Ghid.Farmacoterapia afecțiunilor stomatologice. Chișinău.2002

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9 Л. П. Пескова. Пломбировочные материалы и лекарственные средства в терапевтической стоматологии. 1998.

10 Макеева. И. М. Восстановление зубов светоотверждаемыми композиционными материалами. М .1997.

**Practical Lesson No.13**

Theme: Dental Disorders. Causes. Procedures and techniques of treatment. Whitening systems. Advantages and disadvantages.

Place of practical lesson: Dental office.

Time - 3 hours

Purpose of the lesson:

Lesson plan

1. Assessment of students' knowledge on the given topic - 25 min.

2. Practical work: Treatment of patients with dental dystromias; bleaching systems. - 100 min.

3.Closing - 10 min.

Verification questions

1. Dental dyschromia. Causes.

2. Extrinsic dyschromia.

3. Intrinsic dyschromia.

4. Treatment of dental discolorations.

5. Faceting methods.

6. Methods and materials for teeth whitening.

Homework

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1.Borovski E.V. – Stomatologie terapeutică. Chișinău, 1990.

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**Practical Lesson No.14**

Theme:. Heavy dental tissue damage occurs up to tooth eruption (hypoplasia, fluorosis, hyperplasia). Clinical signs, positive and differential diagnosis. Treatment. Prophylactic elements.

Place of practical lesson: Dental office.

Time - 3 hours

Purpose of the lesson: Student's learning of the theoretical and practical part of the subject (hypoplasia, fluorosis, hyperplasia).

Lesson plan

1. Assessment of students' knowledge on the given topic - 25 min.

2. Practical work :. - 100 min.

3.Closing - 10 min.

Verification questions

1.Ethology of hypoplasia, fluorosis and hyperplasia.

2. Classification of hypoplasia, fluorosis and hyperplasia.

3. Clinical protocol of hypoplasia, fluorosis and hyperplasia.

4.Diagnostics of hypoplasia, fluorosis and hyperplasia.

5.Diagnostic differential of hypoplasia, fluorosis and hyperplasia.

6. Treating hypoplasia, fluorosis and hyperplasia.

7.Prophylaxis of hypoplasia, fluorosis and hyperplasia.

8. The spread of fluorosis in the Republic of Moldova.

Homework

To write in the workbooks the classification of hypoplasia, fluorosis and hyperplasia.

In the form of a table, write the differential diagnosis of hypoplasia, fluorosis and hyperplasia.

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**Practical lesson no.15**

Theme: Hereditary disorders in the development of dental tissues. Dental tear lesions that occur after teeth eruption (traumatic lesions, acid necrosis). Clinical signs, positive and differential diagnosis. Treatment. Prophylactic elements.

Place of practical lesson: Dental office.

Time - 3 hours

The purpose of the lesson: Students' acquiring theoretical knowledge and practical skills in the given subject.

Lesson plan

1. Assessment of students' knowledge on the given topic - 25 min.

2. Practical work :. - 100 min.

3.Closing - 10 min.

Verification questions

1. Imperfect amelogenesis.

2. Imperfect dentinogenesis.

3. Imperfect osteogenesis.

4. Stainton-Capdepont syndrome.

5. Marble bone disease or osteopetrosis.

6. Causes of dental trauma.

7. Classification of acute trauma.

8. Clinical picture, diagnosis and treatment of tooth dislocation.

9. Clinical picture, diagnosis and treatment of tooth contusion.

10. Clinical picture, diagnosis and treatment of dental fracture.

11. The etiology of acid necrosis.

12. Clinical picture and diagnosis of acid necrosis.

13. Differential diagnosis.

14. Treatment of necrosis.

Homework

1. Write in the workbooks the classification of the pathology of the tough tissue that occurs after the eruption.

2.Diagnostic differential of acid necrosis.

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**Practical lesson no.16**

Theme: Dental Tissues Lesions After Tooth Rash Dental tissue abrasion, cuneiform defect, necrosis, erosion, dyspepsia of dental tissues. Clinical picture. Positive and differential diagnosis. Treatment.

Place of practical lesson: Dental office.

Time - 3 hours

The purpose of the lesson: Students should acquire the theoretical and practical knowledge of the subject.

Lesson plan

1. Assessment of students' knowledge on the given topic - 25 min.

2. Practical work :. - 100 min.

3.Closing - 10 min.

Verification questions

1.Ethology of cuneiform defect, dental abrasion, dental erosion and hard tissue necrosis.

Clinical tabulation, positive and differential diagnosis of cuneiform defect. Treatment.

3. Clinical picture, positive and differential diagnosis of dental abrasion

4. Clinical picture, positive and differential diagnosis of dental erosion

5. Clinical picture, positive and differential diagnosis of acid necrosis

6.High toughness of tissues. Clinical picture, positive and differential diagnosis of hyperesthesia. Treatment.

Homework

Write in the form of a schematic in the workbook the differential diagnosis of cuneiform defect, dental alabaster, dental erosion and hard tissue necrosis.

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**Practical lesson no.17**

Theme: Errors and complications in the diagnosis and treatment of dental caries and odontle lesions of unproductive origin. Totalization lesson.

Place of practical lesson: Dental office.

Time - 3 hours

Purpose of the lesson:

Lesson plan

1. Assessment of students' knowledge on the given topic - 25 min.

2. Practical work :. - 100 min.

3.Closing - 10 min.

Verification questions

1. Errors and complications in the diagnosis of dental caries.

2. Errors and complications in the treatment of dental decay.

3. Errors and complications of odonous lesions of unproductive origin.

Homework

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