STATE UNIVERSITY OF MEDICINE AND PHARMACY
“NICOLAE TESTEMITANU”

Valentina NICOLAICIUC

PRACTICAL GUIDE
CLINICAL PRACTICAL LESSONS
FOR THE IIIrd YEAR OF STUDY VIth SEMESTER

Subject: DENTAL PULPITIS

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The Department of Therapeutical Dentistry

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Authors: Nicolaiciuc Valentina – PhD in medicine, University Associate Professor at Department of Therapeutical Dentistry, State University of Medicine and Pharmacy "Nicolae Testemitanu", Chisinau.

Reviewers: Șerbatiuc Dumitru – PhD, DSc, University Professor at Department of Maxillo – Facial Surgery, State University of Medicine and Pharmacy "Nicolae Testemitanu", Chisinau.

Lupan Ion – PhD, DSc, University Professor at Department of Pediatric Dentistry, State University of Medicine and Pharmacy "Nicolae Testemitanu", Chisinau.

Practical Guide for Clinical Practical Lessons is a methodological manual in accordance with the curriculum for students - dentists.

This Guide will help foreign students to study the etiology, clinic, diagnosis and treatment of dental diseases.

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PRACTICAL LESSON N 1

Subject: Dental pulp. Modifications in pulp in senescence and in pathologic states.

Place: Dental office.

Time: 4 hours

The aim of the lesson: the study of morphological structure of dental pulp, its changes with advanced age and pathological states.

Plan of the lesson:
1. Verification of student knowledge at this subject- 25 min
2. Practice work: visiting of patient - 100 min
3. Finishing- 10 min

The Endowment of the lesson:
- Slides, tables with histological structure of dental pulp, sectioned teeth.

Control questions:
1. Dental pulp anatomy.
3. The structure of cellular layers of Dental pulp. The characteristics of cells.
4. The structure of Basic substance.
5. The functions of Dental pulp.
6. Changes in Dental pulp with advanced age.
7. Changes in Dental pulp in pathological states.

Homework:
1. Drawing the structure of dental pulp.
2. Drawing the modification of dental pulp morphology.

References:
1. Lecture material.
2. Elements of Endodontic Therapy – M. Vataman, Iasi 1999
PRACTICAL LESSON N 2

Subject: Electric excitability of dental pulp. Parameters of pulp excitability in norm pathology.

Place: Dental office.

Time: 4 hours

The aim of the lesson: to assimilate methods for determination of pulp excitability.

Plan of the lesson:
1. Verification of student knowledge at this subject- 25 min
2. Practice work: visiting of patient with different types of pulpitis pulp excitability

Control questions:
1. Appliances for determination the pulp excitability.
2. Parameters of excitability in norm and pathology.
3. The method of determination the pulp excitability.

The Endowment of the lesson:
- Stomatology instruments, devices for determination the electric excitability, charts, schemes, slides.

Homework:
1. Write in your notebook about parameters of normal and abnormal pulp excitability.

References:
1. Lecture material
2. Elements of Endodontic Therapy – M. Vataman, Iasi 1999
PRACTICAL LESSON N 3

Place: Dental office.
Time: 4 hours

The aim of the lesson: to assimilate the particularities of pulp inflammation, the classifications, etiology, pathogenesis and morpho-pathology of pulpitis.

Plan of the lesson:
1. Verification of student knowledge at this subject- 25 min
2. Practice work: visiting of patient with different types of pulpitis- 100 min
3. Finishing- 10 min

Control questions:
1. The particularities of Dental pulp.
2. Etiology of pulpitis.
3. The classification of pulpitis.
5. Morpho-pathological picture of pulpitis.

Homework:
1. Writing down the types of pulpitis

References:
1. Lecture material
2. Elements of Endodontic Therapy – M. Vataman, Iasi 1999
Practical lesson N 4

Subject: Clinical signs, positive and differential diagnosis of acute pulpitis and in stage of exacerbated pulpitis.

Place: Dental office.

Time: 4 hours

The aim of the lesson: to study the clinical symptomatology of acute pulpitis and chronic exacerbated, diagnosis and difference of these forms with other similar diseases.

Plan of the lesson:
1. Verification of student knowledge at this subject- 25 min
2. Practice work: visiting of patient with different types of pulpitis- 100 min
3. Finishing- 10 min

Questions which previously have been studied and are necessary to assimilate these subjects:
1. Anatomy, histology and functions of the pulp.
4. The inflammation. Pathogenesis, clinical signs and pathological signs.

On the basis of patient examination and differential diagnosis with similar maladies, the diagnosis of acute pulpitis: focal or diffuse is being established.

Control questions:
1. The classification of pulpitis.
2. What methods for examination are used in diagnosis of acute pulpitis.
3. Symptoms presents in acute pulpitis.
5. Differential diagnosis of acute focal pulpitis
7. Clinical picture of chronic exacerbated pulpitis.
9. Differential diagnosis of acute diffuse pulpitis
Homework:
1. Write in your notebook the different diagnostic acute pulpitis exacerbated.

References:
1. Lecture material
2. Elements of Endodontic Therapy – M. Vataman, Iasi 1999
7. Principles and Practice of Endodontics 3rd edition Richard E.Walton, dmd, ms. Iowa City

Practical lesson N 5

Subject: Clinical picture, positive and differential diagnosis of chronic pulpitis.

Place: Dental office.

Time: 4 hours

The aim of the lesson: to study the clinical symptoms, to assimilate methods for diagnosis chronic forms of pulpitis and differential methods with similar diseases.

Plan of the lesson:
1. Verification of student knowledge at this subject- 25 min
2. Practice work: treat of patient with different types of pulpitis- 100 min
3. Finishing- 10 min

Questions that have been studied before and are necessary for assimilation of this subject:
1. Anatomical-clinical data and physiological data about dental pulp.
2. The inflammation, etiology and pathogenesis.
3. The classification of pulpitis.
Control questions:
1. Classification of pulpitis.
4. Call the clinical and morphological signs of inflammation the dental pulp.
5. Clinical picture chronic fibrous (simple) pulpitis.

Homework:
1. Write in your notebook the differential diagnosis of chronic pulpitis.

The endowment of the lesson:
- Slides, appliance for electroodontometry, appliance for diathermocoagulation, set of instruments, medicamentous remedies.

References:
1. Lecture material
2. Elements of Endodontic Therapy – M. Vataman, Iasi 1999

PRACTICAL LESSON N 6

Subject: Biologic methods of total conservation of dental pulp (direct and indirect covering). Indications and contraindications.
Place: Dental office.
Time: 4 hours
The aim of the lesson: to assimilate methods of treatment the pulpitis with partial or total maintaining of dental pulp.

Plan of the lesson:
1. Verification of student knowledge at this subject- 25 min
2. Practice work: treat of patient with pulpitis through capping method- 100 min
3. Finishing- 10 min

Control questions:
1. Indications for biologic method of treatment of pulpitis.
2. Properties of substance that used in direct capping.
3. Classification material and substance that used in direct capping.
4. Mechanism of action of these materials.
5. Indication and contraindication of application of used in direct capping.
6. Techniques of direct capping in accidental opening of pulp chambers.
7. Techniques of direct capping in starting of pulp inflammation.
8. Indication and contraindication of direct capping.
9. Indirect Capping techniques in two visits.
10. Indirect Capping techniques in one visit.

Homework:
1. Write the medicaments preparation used in direct and indirect capping.

References:
1. Lecture material
2. Elements of Endodontic Therapy – M. Vataman, Iasi 1999
PRACTICAL LESSON N 7


Place: Dental office.

Time: 4 hours

The aim of the lesson: The study and assimilation of method for vital amputation; assimilation for stages successive in pulpitis treatment by vital amputation of dental pulp.

Plan of the lesson:
1. Verification of student knowledge at this subject- 25 min
2. Practice work: treat of patient with pulpitis through amputation - 100 min
3. Finishing- 10 min

Control questions:
1. Call the indications for vital amputation.
2. The conditions of carrying out the vital amputation.
3. Techniques of vital amputation.
4. What is the successive of stages in vital amputation.
5. Medicaments used for vital amputation.

Homework:
1. Write the medicaments preparation used for treatment of pulpitis in vital amputation.
2. Write the material of anesthesia with is used in treatment of caries.

References:
1. Lecture material
2. Elements of Endodontic Therapy – M. Vataman, Iasi 1999
PRACTICAL LESSON N8


Place: Dental office.

Time: 4 hours

The aim of the lesson: to assimilate physical methods used in pulpitis.

Plan of the lesson:
1. Verification of student knowledge at this subject- 25 min
2. Practice work: show the apparatus for electrical anesthesia, visiting the patient with the pulpitis. - 100 min
3. Finishing- 10 min

Control questions:
1. The indications for Electrical anesthesia.
2. The appliances to realize in practice the electrical anesthesia.
3. What are the medicaments and method of execution the electrical anesthesia.

4. The indications for Ionophoresis.
5. What is the method of execution the ionophoresis.

The Endowment of the lesson:
- appliances for electrical anesthesia and ionophoresis;
- medicamentous substances, cotton rolls.

Homework:
1. Write the medicaments and methods of Electrical anesthesia.
2. Write medicine which used in Electrical anesthesia.

References:
1. Lecture material
2. Elements of Endodontic Therapy – M. Vataman, Iasi 1999
PRACTICAL LESSON N 9, 10, 11

Subject: Methods for total removal of dental pulp. (vital extirpa-
tion).
Place: Dental office.
Time: 12 hours
The aim of the lesson: to assimilate the indications and methods of 
execution the vital extirpation; used medicaments.
Plan of the lesson:
1. Verification of student knowledge at this subject- 25 min
2. Practice work: visiting the patient with the pulpitis and treat them 
with method vital execution. - 100 min
3. Finishing- 10 min
Control questions:
1. The indications for vital method of extirpation.
3. The anesthesia used in therapeutical stomatology.
4. Time of operator in vital extirpation.
5. Techniques of pulp extirpation with pulp extractor.
6. Determination of working length in radicular channel.
7. Mechanical treatment of radicular channel. Goal of this method.
8. Medicine Treatment of roots channel.
9. Possible complication in treatment of pulpitis through vital extir-
pation method.
Homework:
1. Write in your notebook anesthesia prepares used in treatment of 
pulpitis through vital extirpation method.
2. Write the stages of vital extirpation.
References:
1. Lecture material
2. Elements of Endodotic Therapy – M. Vataman, Iasi 1999
3. Preservation and Restoration of tooth structure – GJ Mount, WR 
Hume, USA 1998
Lindhe Thorkild Karring . Niklaus P. Lang Editors Blackwell

PRACTICAL LESSON N 12

Subject: Diathermic coagulation of pulp. Appliances, technique and method of carrying out.

Place: Dental office.

Time: 4 hours

The aim of the lesson: to assimilate the carrying out of diathermic coagulation method; the indications to this technique.

Plan of the lesson:
1. Verification of student knowledge at this subject- 25 min
2. Practice work: visiting the patient with the pulpitis and treat them with Diathermic coagulation. - 100 min
3. Finishing- 10 min

Control question:
1. What is the essence of Diathermic coagulation?
2. In what forms of pulpitis the diathermic coagulation is indicated?
3. The appliances used in diathermic coagulation.
4. What is the method for carrying out the diathermic coagulation?

Homework:
1. Write in your notebook stages Diathermic coagulation.

References:
1. Lecture material
2. Elements of Endodontic Therapy – M. Vataman, Iasi 1999
PRACTICAL LESSON N 13, 14

Place: Dental office.
Time: 8 hours
The aim of the lesson: to assimilate the technique of treatment the pulpitis by non vital method of pulp amputation and extirpation.
Plan of the lesson:
1. Verification of student knowledge at this subject- 25 min
2. Practice work: visiting the patient with the pulpitis and treat them with non-vital method of pulp amputation and extirpation. - 100 min
3. Finishing- 10 min
Questions that previously have been studied and are necessary to assimilate this subject:
1. Anatomic and histological structure of dental pulp.
2. Topography of tooth cavity.
3. Substances for pulp necrosis; medicaments for caries cavity processing and root channel cleaning.
4. Endodontic instruments.
5. Filling materials.
6. The etiology and pathogenesis of pulpitis.
7. The classification and clinical signs of pulpitis.
Control questions:
1. Indications for application the non vital method of amputation.
2. Indications for non vital method of extirpation.
3. Technique for application the arsenic paste and paraphormaldehyde paste.
4. The ways of action for arsenic paste.
5. The technique of non vital amputation.
6. The technique of non vital extirpation.
7. The technique for vital amputation.
8. The technique for vital extirpation.
9. The complications after the incorrect application of arsenic paste.
**Homework:**
1. Write in your notebook indication and contra indication for application methods for amputation and extirpation non vital dental pulp.
2. Write the recipes of arsenic paste.

**References:**
1. Lecture material
2. Elements of Endodontic Therapy – M. Vataman, Iasi 1999

**PRACTICAL LESSON N 15**

**Subject:** Mechanic and medicamentous channel treatment after pulp extirpation.

**Place:** Dental office.

**Time:** 3 Hours

**The aim of the lesson:** To assimilate stages for non vital method of pulp amputation and extirpation.

**Plan of the lesson:**
1. Student’s checkup – 25 min.
2. Practical work: patient treatment with different forms by applying mechanic and medicamentous channel treatment after pulp extirpation – 100 min.
3. Summary – 10 min.

**Control Questions:**
1. The goal of mechanic treatment of root channel.
2. The rules of mechanic treatment of root channel.
3. Call the stages of mechanical treatment of root channel.
7. Chemical solution used for permeabilization. Principle of action of these.
8. Requirements to antiseptic substances for medicamentous treatment of root channel.
10. The technique of medicamentous treatment of root channel.

**Home Work:**
1. Write down in your copy-books instruments used for mechanical root channel treatment.
2. Write down in your copy-books anesthetic preparations used for medicamentous treatment of root channel.

**References:**
1. Lecture material
2. Elements of Endodontic Therapy – M. Vataman, Iasi 1999

**PRACTICAL LESSON N. 16**

**Subject:** Root channel filling. The materials and technique of root channel filling.
**Place:** Dental office.
**Time:** 3 Hours
**The aim of the lesson:** To assimilate technique for channel obturation with different materials.
Plan of the lesson:
1. Student’s checkup – 25 min.
2. Practical work: patient treatment with different forms by channel obturation after exteration – 100 min.
3. Summary – 10 min.

Control Questions:
1. The materials for root channel filling. The classification. The physical and chemical properties.
8. The goal of root channel filling.
9. Root channel filling technique. Classification.
10. Root channel filling technique with paste which are strengthen in root channel. Time of work. Instruments.
11. Root channel filling technique with paste which are not strengthen in root channel. Time of work. Instruments.
15. Termafil technique.

Homework:
1. Write dawn in your copy-books the classification of materials for root channel treatment.
2. Write dawn in your copy-books the classification of root channel filling technique.
References:
1. Lecture material
2. Elements of Endodontic Therapy – M. Vataman, Iasi 1999

PRACTICAL LESSON N. 17

Subject: Errors and complications in diagnosis and treatment of pulpitis. Colloquium.
Place: Dental office.
Time: 3 Hours
The aim of the lesson: To assimilate the errors and complications in diagnosis and treatment of pulpitis, the methods of prevention and liquidation of there.
Plan of the lesson:
1. Student’s checkup – 25 min.
2. Practical work: demonstration and discussion of radiographs with the errors and complications in diagnosis and treatment of pulpitis – 100 min.
3. Summary – 10 min.
Control Questions:
1. Errors in diagnosis.
2. Differential diagnosis of pulpitis.
4. Immediate and late complications in treatment of pulpitis.
5. Prophylaxis of complication.
Homework:
- Write dawn in your copy-books errors and complications in diagnosis and treatment of pulpitis.
References:
1. Lecture material
2. Elements of Endodontic Therapy – M. Vataman, Iasi 1999