**State University of Medicine and Pharmacy**

**Nicolae Testemitanu**

***Department***

***Odontology, periodontology and oral pathology***

**Chetruș Viorica**

**Methodological elaborations**

**”Clinical Periodontology”**

**for V year students,**

**semester IX**

**The fifth year – autumn semester**

The structure of the practical lesson (6 hours)

1. Students' attendence verification- 5 min

2. Discution of the theme - 45 min

3. Demonstration of the patient on theme subject - 45 min

4. Student's self-study - 145 min

5. Closure (control of agendas, observation sheets, homework) - 30 min

1. Total practical hours - 53 hours
2. Total hours of seminars - 22 hours

Thematic plan of practical lessons.

1. Traumatic occlusion. Harmful effects on teeth with periodontal disease. Occlussogram, techniques of realization. Selective polishing, proceedings and techniques of selective polishing .
2. Techniques and proceedings of splinting periodontal affected teeth (temporary splint technique) . Systems and materials that are used. Indications and contraindications. Advantages and disadvantages.
3. Techniques and proceedings for debridement and decontamination of periodontal pockets. Indications and contraindications. Instruments, appliances and medicines, including anesthetics.
4. Biostimulation therapy in periodontal diseaeses. Principles, indications and contraindications, proceedings and techniques. Equipment, instruments and medical remedies.
5. Definition of corrective stage of the treatment ( periodontal surgery/ implantology, orthodontic/ prosthodontic) in complex treatment of periodontal disease.
6. Curretage in the closed field. Indications and contraindications. Methods and techniques of realization. Drugs and remedies used.
7. Gingivectomy/ gingivoplasty. Definition. Indications and contraindications. Methods and techniques. Instruments and medicamentous remedies used.
8. Open field - curettage. Indications and contraindications. Techniques and anesthetic solutions used in intervention zone. Methods and techniques of effectuation. Instruments and medicamentous remedies used.
9. Periodontal surgery with mucous and mucoperiostal flap. Emergency medical assistance in periodontal treatment.
10. Guided tissue regeneration. Postoperative wound care in periodontal surgery (local remedies for general use, patient recommendations);
11. Maintenance treatment (local and general - periodic prophylactic visits). Its role and importance in the complex treatment of periodontal disease.
12. Clinical re-evaluation of the periodontist patient. Periodicity. Assessment of periodontal status. Dispensary methods

**Practical lesson nr. 1**

1. Theme: Oclusal trauma. Traumatic occlusion. Harmful effects on periodontal teeth. Occlussogram, techniques of realization. Selective polishing, proceedings and techniques of selective polishing .

Verification questions:

1.Types of occlusion:

a.physiological (occlusion orthognatic, edge to edge , physiological prognations, opistognate occlusion (physiological retrusion))

b.phatological (prognition (distal occlusion), progeny (mezial occlusion), deep occlusion, open occlusion, crosbite occlusion )

2. Traumatic occlusion

3. Occlusogram. Techniques of realization.

4. Selective polishing. Techniques of selective polishing by: Burlui, Jonnkelson și Schuyler.Scopul.

Homework

1. Draw the types of occlusion

* physiological
* pathological

1. Wrtie down and describe the techniques of selective polishing.

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institutelor de medicina / sub red. E. Borovski. - Chisinau : Lumina, 1990

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2. V. Chetruș ” Aspecte de etiologie, diagnostic și tratament ale parodontitelor marginale cronice”. Ed. Epigraf, Chișinău, 2007
3. I.Postolachi, Protetică dentară – Chișinău, Științe, 1993

**Practical lesson nr.2**

Theme: ***Techniques and proceedings of splinting periodontal affected teeth (temporary splint technique) . Systems and materials that are used. Indications and contraindications. Advantages and disadvantages.***

Verification questions

1. Classification of immobilization/ splint systems.

2. Basic principles in teeth splinting

3. Temporary splinting (techniques and materials)

4. Defintive splinting ( long term)

5. Definitive splinting, directly in the office without laboratory

6. Defenitive splinting, made in laboratory (inidrect methods)

7. Critical appreciation of splinting systems

8. Indications and contraindications in applying of splinting systems

9. Advantages and disadvantages in applying of splinting systems

Homework

1. Draw in homework copy-books splinting systems (temporary and defenitive)

2. Write down the classification of splinting systems.

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**Practical lesson nr.3**

Theme: ***Techniques and proceedings for debridement and decontamination of periodontal pockets. Indications and contraindications. Instruments, appliances and medicines, including anesthetics***

Verification questions

1. Name the techniques and proceedings for debridation and decontamination of periodontal pockets
2. Indications and contraindications:

* For manual scalling
* For ultrasonic scalling
* Root surface/ planning

1. Name the instruments and devices used for debridation techniques of periodontal pockets

4. Name the medicamentous remedies and their mechanism of action after debridation and decontamination of periodontal pockets.

5. Definition of instillation, application and periodontal dressing

6.Name the methods of anesthesia and anestetic solutions used in treatment stages of debridement of periodontal pockets.

Homework

1. Write down in your copy-books, the techniques and proceedings of debridement and decontamination of periodontal pockets.
2. Write down medical prescriptions for drugs and solutions used in decontamination of periodontal pockets.
3. Write the anesthetics substances and solutions that are used in stages of debridement and decontamination of periodontal pockets

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**Practical lesson nr.4**

Theme: ***Biostimulation therapy in periodontal diseaeses. Principles, indications and contraindications, proceedings and techniques. Equipment, instruments and medical remedies***.

Verification questions

1. Name the biostimulative remedies obtainted from plant extracts. Action. Indications, contraindications (Ginsec, Aloe Vera, Eleuterococul, e.t.c.).
2. Autohemoteraphy – a mode of nespecific stimulation of the organism. Technique and number of transfusions in biostimulation of the oranism in treatment of periodontal disease.
3. Animal biogenic stimulants (Solcoseril, Placental extract, plasmol, vitreous body, splenin), indicate the weight, number of infections and administration.
4. Protein anabolics - methylurocil, pentoxil. Mechanism of action. Mode of administration. Number of injections for a course of treatment.
5. Streptococcal anabolics - methandrostenolone (nerobol), silabolin, phenoboline. Mechanism of action. Mode of administration.
6. Remedies with action on mineral metabolism and body homeostasis
7. a. Calcium gluconate
8. b. glycerophosphate
9. c. Fluoride based preparations (fluorine 1%, vitafluoride and the like)
10. Remedies for improving the microcirculation and metabolism of periodontal tissues
11. Heparin. Mechanism of action and administration.

Homework

1. Write the method of action and administration o biostimultative remedies.
2. Write recepes for biostimulative remedies.

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**Practical lesson nr.5**

Theme: ***Definition of corrective stage of the treatment ( periodontal surgery/ implantology, orthodontic/ prosthodontic) in complex treatment of periodontal disease.***

Verification question

1. Definition of corective stage of the treatment.
2. Name the methods and techniques of surgical treatment indicated in periodontal surgery. Classification by В. С.Иванов 1989.
3. The objective of implantology. Indications and contraindications of dental implants for patience with periodontal disease
4. Orthodontic treatment. Objective, indication, contraindications for patiences with periodontal disease

Homework

1. Write in copy-books the classification of methods of surgical treatment after В. С.Иванов 1989.
2. Write in copy-books the objective of the surgical, prosthetic, orthodontic treatment and implantology.

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**Lecția practică nr.6**

Theme: ***Curretage in the closed field. Indications and contraindications. Methods and techniques of realization. Drugs and remedies used.***

Verification questions

1. Definition of closed field curettage
2. Indications and contraindications of curettage on the closed field
3. Methods and techniques of effectuation
4. Instruments used for closed field curettage
5. Medicamentous remedies used for treatment of the wound after closed field curettage. Anesthetic solutions.
6. Anesthetic solutions, tecniques of numbening used in the surgical area.

Lucrul pentru acasă

1. Write in the copy-books the defenition of closed field curettage, indications and contraindications.
2. Write recepies with medicamentous solutions used in post-operational wound care.

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**Practical lesson nr.7**

**Theme:** Gingivectomy / gingivoplasty. Notion. Indications and contraindications. Methods and techniques. Instruments and medicamentous remedies used.

**Verification questions**

1. The notion of gingivectomy. Indications and contraindications.

2. Surgical methods and techniques of gingivectomy.

3. Instruments used for gingivectomy. Anesthetic methods and substances. Medicamentous remedies used in the treatment of postoperative wound.

4. The notion of gingivoplasty. Indications and contraindications.

5. Surgical methods and techniques of gingivoplasty.

**Homework**

1. Describe gingivectomy technique.

2. Describe gingivoplasty technique.

3. Write prescriptions for medicamentous remedies used in the treatment of gingivectomy and gingivoplasty.

Bibliography

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institutelor de medicina / sub red. E. Borovski. - Chisinau : Lumina, 1990

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**Practical Lesson nr.8**

**Theme:** Curettage in the open field. Indications and contraindications. Techniques and remedies for anesthesia of the intervention area. Methods and techniques. Instruments and medicamentous remedies used.

**Verification questions**

1. Notion of curettage in the open field. Indications and contraindications.

2. The technique of curettage in the open field.

3. Instrumentation required and how to use the instruments.

4. Sharpening methods of instruments.

5. Medicamentous remedies used.

6. Methods of anesthesia and anesthetics used.

**Homework**

1. Describe the curettage technique in the open field.

2.Draw instruments used for curettage in the open field.

3. Write prescriptions for medicamentous remedies used in postoperative wound care.

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institutelor de medicina / sub red. E. Borovski. - Chisinau : Lumina, 1990

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**Practical Lesson nr.9**

**Theme:** Operations with mucosal and mucoperiostal flap.Emergency Medical Assistance in the treatment of periodontal disease.

**Verification questions**

1. Describe the surgery technique of the repositioned coronary flap.Indications, contraindications. Used instruments. Addition materials used. The term of mucosal and mucoperiostal flap.

2. Describe the technique of the apical repositioned flap. Indications, contraindications. Advantages disadvantages. Instruments.

3. Describe the technique of the lateral repositioned flap. Indications, contraindications. Advantages.Instruments.

4. Describe the technique of the partially reflective mucoperiostal flap. Indications. Advantages, disadvantages.

5.Emergency Medical Assistance in the treatment of periodontal disease.

**Homework**

1. Describe the techniques of coronary and apical repositioned flaps.

2. Draw the instruments used in the flap operations.

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institutelor de medicina / sub red. E. Borovski. - Chisinau : Lumina, 1990

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**Practical Lesson nr.10**

**Theme:** Guided tissue regeneration. Postoperative wound care in periodontal surgery (general and local remedies, patient recommendations).

**Verification questions**

1. Guided tissue regeneration (technique). Indications, contraindications. Advantages, disadvantages.

2. Resorbable membranes. Names. Indications. Advantages disadvantages.

3. Non-resorbable membranes. Names. Indications. Advantages disadvantages.

4. Biodegradable membranes.

5. Postoperative wound care in periodontal surgery (medicamentous remedies for general and local use).

6. Patient recommendations for wound care and nutrition.

**Homework**

1. Describe the guided tissue regeneration technique.

2. Describe the types of membranes used in guided tissue regeneration.

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**Practical lesson nr.11**

**Theme:** Maintenance treatment (local and general - periodic prophylactic visits). Its role and importance in the complex treatment of periodontal disease.

**Verification questions**

1. Hygiene of the oral cavity. What types of toothbrushes and toothpastes are indicated to maintain the obtained result.

2. Presence of the patient twice a year to the periodontist doctor to perform microbial plaque control.

3. Monitoring of the depth of the periodontal pocket before and after surgical treatment.

4. Determination of occlusion and dental mobility.

**Homework**

1. Write and draw toothbrushes types used by patients with periodontal disease.

2. Types of toothpastes.

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institutelor de medicina / sub red. E. Borovski. - Chisinau : Lumina, 1990

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**Practical lesson nr.12**

**Theme:** Clinical re-evaluation of the patient. Periodicity. Assessment of periodontal status. Dispensary items.

**Verification questions**

1. Clinical re-evaluation of the patient with periodontal disease by techniques of bacterial plaque and calculus determination.

2. Periodicity of the patient's presence at the periodontist doctor.

3. Assessing the periodontal status by determining the depth of the periodontal pocket and comparing it with the previous ones.

4. Hospitalization of the patients with periodontal disease..

**Homework**

1. Write the methods for determination of the bacterial plaque and calculus.

2. Write down the methods for determination of periodontal bleeding and dental mobility.

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