

THE MINISTRY OF PUBLIC HEALTH OF REPUBLIC MOLDOVA

**STATE MEDICAL AND PHARMASEUTICAL UNIVERSITY
" NICOLAE TESTEMIȚANU "**

DEPARTMENT OF PROSTHETIC DENTISTRY

METHODICAL ELABORATION

**to the practical lessons
for the students of V year X therm**

Kishinev 2018

The list of practical manual skills
on orthopedic dentistry for the students of V year X semester

Name _____

Gr. _____

№	Practical manual skills	Obligatory	Demonstrated	The signature of the student	The signature of the teacher
1	a) Examination of the patients, determination of the diagnosis and plan of the treatment; b) taking part in reception of the patients.	1 1			
2	a) Examination of the patients and determination of indications to prosthetic treatment with exceptional (atypical) dental prosthesis; b) taking part in reception of the patients.	1 1	1		
3	Taking part in reception of the patients	1			
4	a) Examination of the patients and determination of indications to prosthetic treatment with implants; b) taking part in reception of the patients.	1 1			
5	a) Examination of the patients and determination of indications for application of different types of implants; b) taking part in reception of the patients.	1	1		
6	Taking part in reception of the patients.	1			
7	a) Examination of the patients and determination of the criteria of functional occlusion (from each other).	1			
8	Examination of the patients, determination of diagnosis and complications produced by fixed dental prosthesis.	1			
9	Examination of the patients with dental-maxillary anomalies.		1		
10	Taking part in reception of the patients.	1			
11	Taking part in reception of the patients.	1			

Notes:

1. The practical skills necessary for independent performance and demonstration are carried out with materials destined for the students which are fixed in a special register book.
2. In case of not fulfilling the given list the student is obliged to get practical certification at extra classes (not according to the time-table, for practical attestation).
3. Writing off materials, intended for performing the practical skills by the students, is carried out according to the working orders of the Ministry of public health Services with factor 2, authorized Administrative Council of Dental Clinic.

Methodical elaboration Nr. 1

Theme: *Modern methods of examination of the patients with diseases of stomatognath system. Diagnosis.*

Place of the lesson: clinic room.

The purpose of the lesson: during the lesson students study modern methods of examination of the patients in prosthodontics clinic.

The students practically exam the patients with different diseases of stomatognath system which need prosthodontic treatment, determine diagnosis and plan of treatment.

Plan of the lesson:

1. Discussion of the theme ----- 45 min.
2. Demonstration of examination of the patients with different nosological forms. Determination of diagnosis and plan of treatment ----- 30 min.
3. Reception of the patients.
4. Conclusion ----- 10 min.

Checking questions:

1. The aim of clinical examination.
2. Modern principles of examination of the patients in the prosthodontic clinic.
3. Explain clinical situation in rapport with the multitude and complexity of clinical picture of the patients with diseases of stomatognath system.
4. Consequence of examination of the patient in prosthodontic clinic and practical value (importance).
5. Enumerate V groups of the patients which addressed for prosthodontic treatment.
6. Risk of incomplete examination.
7. Necessity of special methodology of examination of the patients with stomatognath system diseases.
8. Enumerate the categories of the tissues of maxilo-facial zone of reactivity of which depends the treatment and in what way they are taken into considerations.
9. Enumerate biological requirements to orthopedic-prosthodontic treatment.
10. Arguments for morphological-functional normal orientier in diagnosis of stomatognath system diseases.
11. Arguments for final scope of examination and prosthetic treatment
12. Explane consequence and methods of subjective data collection.
13. Explane consequence and methods of objective examination.
14. Explane indications and characterize every method of para-clinical examination.
15. Explane components of diagnosis in prosthodontics according to nosological forms and stomatognath system diseases.

Methodical elaboration Nr. 2

Theme: *Modern methods of atypical prosthetic treatment.*

Place of the lesson: clinic room.

The purpose of the lesson: during the lesson students study indications to atypical prosthetic treatment with different types of fix atypical prosthesis and methods of their manufacturing.

The students practically study on phantoms different variants of atypical fix dental prostheses, exam the patients with different disorders of stomatognathic system and plan the treatment.

Plan of the lesson:

1. Discussion of the theme ----- 45 min.
2. Demonstration of the patient who need manufacturing atypical partial fix denture and choosing the design of construction ----- 30 min.
3. Reception of the patients.
4. Conclusion ----- 10 min.

Checking questions:

- 1. Definition „atypical dental prosthesis“.**
- 2. What type of artificial crowns are considered atypical?**
- 3. Indications to prosthetic treatment with atypical artificial crowns.**
- 4. What type of partial fixed denture are considered atypical:**
 - a) by the method of support elements position;
 - b) by the method of fixation;
 - c) by construction.
- 5. Indications to prosthetic treatment with atypical bridge denture.**
- 6. Methods of getting impressions at manufacturing atypical fix dental prostheses.**
- 7. Clinical-laboratory stages of atypical bridge denture manufacturing.**
- 8. Fixation of atypical artificial crowns and fixed partial dentures in the oral cavity.**
- 9. Indications to prosthetic treatment with atypical partial demountable bridge denture.**
- 10. Indications to prosthetic treatment with removable bridge denture.**
- 11. Support elements of removable bridge denture.**
- 12. Indications to manufacturing bridge denture with support on implants.**
- 13. Tools and materials used at manufacturing atypical bridge dentures.**

Methodical elaboration Nr. 3

Theme: *Implants. Indications to implants using in prosthodontics.*

Place of the lesson: clinic room.

The purpose of the lesson: during the lesson students materialised knowledge about indications and contraindications to implants using, determine types of alveolar process by anatomy and dimension, applying the prosthesis in time.

The students practically take part in reception of the patients, exam clinically and para-clinically the patients, making notes in their diaries.

Plan of the lesson:

1. Discussion of the theme ----- 45 min.
2. Demonstration of thematic patients ----- 30 min.
3. Reception of the patients.
4. Conclusion ----- 10 min.

Checking questions:

- 1. General indications to implants application.**
- 2. Local indications to implants application.**
- 3. General contraindications to implants applications.**
- 4. Local contraindications to implants application.**
- 5. Requirements to mucosa of alveolar ridge for implants application.**
- 6. Requirements to implants applying.**
- 7. Classification of alveolar ridge by anatomy and dimension.**
- 8. Classification of alveolar ridge by the structure.**
- 9. In what time after surgical intervention is applying the prosthesis fixed on implants indicated?**
- 10. Consequences of application of prosthesis within first 15 days after surgical applying the implants.**
- 11. Consequences of application of prosthesis in a month after surgical applying the implants.**
- 12. Consequences of application of prosthesis in 3 – 4 months after surgical applying the implants.**
- 13. Consequences of application of prosthesis in an year after surgical applying the implants.**
- 14. What percent of mistake can be admitted after prosthetic treatment on implants.**
- 15. To whom belong the failures in prosthetic treatment on implants - to orthoped, to surgeon or to patient?**

Methodical elaboration Nr. 4

Theme: *Particularities of prosthetic treatment with implants using Functional occlusion.*

Place of the lesson: clinic room.

The purpose of the lesson: during the lesson students materialize received knowledge about manufacturing of fix dentures on implants.

The students practically take part in reception of the patients on different clinical stages of fix prostheses on implants manufacturing making notes in their diaries.

Plan of the lesson:

1. Discussion of the theme ----- 45 min.
2. Demonstration of thematic patients ----- 30 min.
3. Reception of the patients.
4. Conclusion ----- 10 min.

Checking questions:

- 1. Methods of prosthetic treatment by the time.**
- 2. Who participates in planning the treatment with implants using?**
- 3. Methods of examination of the patients at prosthetic treatment with implants using.**
- 4. Functional occlusion by Ene.**
- 5. Methods of creation of interocclusal equilibration.**
- 6. What is made for diminuation of mastication forces on implants.**
- 7. Particularities of getting impressions at manufacturing prosthesis fixed on implants.**
- 8. Particularities of modeling the dental bridges fixed on implants.**
- 9. Character of interocclusal contacts at the level of implants.**
- 10. Constructive particularities of atypical dentures fixed on implants.**
- 11. Hygiene of the oral cavity at prosthetic treatment on implants.**
- 12. Complications of adjacent structures in prosthetic treatment with implants.**
- 13. Causes of appearing pathological mobility of implants and protective steps of these complications.**

Methodical elaboration Nr. 5-6

Theme: *Using implants in dentistry. Types of implants. Elements of biomechanics in implantology.*

Place of the lesson: clinic room.

The purpose of the lesson: during the lesson students materialize received knowledge about using of endosteal implants in dentistry, types of implants, used materials and requirements to them, biomechanics in implantology.

The students practically take part in reception of the patients with partial edentation that will be restored with endosteal implants, make clinical examination and different clinical stages of fix prostheses on implants manufacturing and note all work in their diaries.

Plan of the lesson:

1. Discussion of the theme ----- 45 min.
2. Demonstration of thematic patients ----- 30 min.
3. Reception of the patients.
4. Conclusion ----- 10 min.

Checking questions:

- 1. What represents the dental implantology?**
- 2. Short history of dental implantology.**
- 3. Materials used for implants manufacturing.**
- 4. Requirements to materials used for implants.**
- 5. Classification of endosteal implants.**
- 6. Submucosal implant. Characteristic.**
- 7. Intradental-endosteal implants. Characteristic.**
- 8. Characteristic of endosteal lamellar (lamellate) implants.**
- 9. Two stages implants system. Characteristic.**
- 10. Types of osteointegration of implants.**
- 11. Causes which can affect osteointegration.**
- 12. Biomechanic elements in implantology.**
- 13. When are prostheses with elastic fixation indicated?**
- 14. When can prostheses with rigid fixation be applied?**
- 15. What implants have advantages in transferring the forces to the bone?**
- 16. Functional condition of implant by Mirgazizov.**

Methodical elaboration Nr. 7

Theme: *Possible complications at prosthetic treatment with fix dental prostheses. Clinical picture. Diagnosis. Methods of treatment. Protective steps.*

Place of the lesson: clinic room.

The purpose of the lesson: during the lesson students materialize received knowledge about determination of possible complications appeared at prosthetic treatment with fix dental prostheses, causes of their appearing and clinical picture, formulation of diagnosis, plan of treatment and protective steps.

The students practically take part in examination of the patients after removing fixed partial denture prostheses.

Plan of the lesson:

1. Discussion of the theme ----- 45 min.
2. Demonstration of the patients after removing dental bridge, formulation of diagnosis and conception plan of the treatment ----- 30 min.
3. Reception of the patients.
4. Conclusion ----- 10 min.

Checking questions:

1. Possible complications during prosthetic treatment with inlays (incrustations).
2. Possible complications after fixation of inlays (incrustations).
3. Etiology, clinical picture and diagnosis of complications at prosthetic treatment with inlays.
4. Methods of treatment and protective steps of complications at prosthetic treatment with inlays.
5. Possible complications at prosthetic treatment with swage artificial crowns.
6. Possible complications at prosthetic treatment with acryl, porcelain, metal-acrylic, metal fused ceramic artificial crowns.
7. Methods of treatment and protective steps of complications at prosthetic treatment with artificial crowns.
8. Possible complications at prosthetic treatment with substitution construction (post crowns).
9. Possible complications at prosthetic treatment with soldering bridge dentures.
10. Possible complications at prosthetic treatment with cast, metal-acrylic, metal fused ceramic bridge dentures.
11. Appropriate and late complications at prosthetic treatment with bridge dentures.
12. Methods of treatment and protective steps of complications at prosthetic treatment with bridge dentures.

Methodical elaboration Nr. 8

Theme: *Etiology, methods of examination and diagnosis of dental-maxillary anomalies at adults.*

Place of the lesson: clinic room.

The purpose of the lesson: during the lesson students materialize received knowledge about etiology, pathogenesis and methods of clinical and para-clinical examination of the patients with dental-maxillary anomalies.

The students practically take part in examination of the patients, diagnostic models, telerecography with dental-maxillary anomalies, determine diagnosis and note made work in their diaries.

Plan of the lesson:

1. Discussion of the theme ----- 45 min.
2. Demonstration of thematic patients ----- 30 min.
3. Reception of the patients.
4. Conclusion ----- 10 min.

Checking questions:

- 1. General etiological factors of dental-maxillary anomalies.**
- 2. Hereditary diseases as etiological factor of dental-maxillary anomalies.**
- 3. Internal and external factors in etiology of dental-maxillary anomalies.**
- 4. Infantil deglutition as etiological factors of occlusal anomalies.**
- 5. Local etiological factors of dental-maxillary anomalies.**
- 6. Particularities of examination of adult patients with dental-maxillary anomalies.**
- 7. Methods of clinical-instrumental examination of the patients with dental-maxillary anomalies.**
- 8. Method of examination of static and dynamic occlusion of the patients with dental-maxillary anomalies.**
- 9. Methods of examination of diagnostic models.**
- 10. Methods of X-ray examination.**
- 11. Methods of examination of the muscles.**
- 12. Technique of examination of the mandible dynamic.**
- 13. Diagnosis of dental-maxillary anomalies at adults.**

Methodical elaboration Nr. 9

Theme: *Clinical picture and particularities of prosthetic treatment of dental-maxillary anomalies at adults. Anomalies of the form, size and position. Orthodontic and prosthetic treatment.*

Place of the lesson: clinic room.

The purpose of the lesson: during the lesson the students materialize received knowledge about clinical picture and peculiarities of prosthetic treatment of the adult patients with dental-maxillary anomalies, about orthodontic and prosthetic treatment of anomalies of form, size and position of some teeth.

The students practically take part in subjective and objective examination of the patients, determine plan of the treatment in every separate case and register made work in their diaries.

Plan of the lesson:

1. Discussion of the theme ----- 45 min.
2. Demonstration of thematic patients ----- 30 min.
3. Reception of the patients.
4. Conclusion ----- 10 min.

Checking questions:

- 1. Clinical picture of the patients with anomalies of form, size and position of some teeth.**
- 2. Complications in case of anomalies of position of some teeth.**
- 3. Primary (initial) occlusal trauma. Pathogenesis.**
- 4. On what factors does the possibility of orthodontic or mix treatment of dental-maxillary anomalies at adults depend?**
- 5. Indications to orthodontic treatment at adults.**
- 6. Contraindications to orthodontic treatment at adults.**
- 7. Clinical forms of dental-alveolar disharmony (crowding the teeth).**
- 8. Characteristic of forces used in orthodontic treatment at adults.**
- 9. On what factors does result of orthodontic treatment at adults depend?**
- 10. Fix apparatus used at treatment of anomalies of position of some teeth.**
- 11. Mobile devices used at treatment of anomalies of position of some teeth.**
- 12. Particularities of prosthetic treatment in case of microdonty.**
- 13. Principles of prosthetic treatment in case of macrodonty.**
- 14. Prosthetic treatment of the patients with crowding the teeth.**
- 15. Prosthetic treatment of the patients with palatal position of the teeth.**
- 16. Prosthetic treatment of the patients with vestibular position of the teeth.**
- 17. Particularities of dental migrations at children and adults.**

Methodical elaboration Nr. 10

Theme: *Particularities of clinical picture and prosthetic treatment of incorrect consolidate fractures and pseudo-joints.*

Place of the lesson: clinic room.

The purpose of the lesson: during the lesson the students materialize received knowledge about clinical picture of incorrect consolidate fractures and pseudo-joints, determine plan of treatment.

Plan of the lesson:

1. Discussion of the theme ----- 45 min.
2. Demonstration of thematic patients ----- 30 min.
3. Reception of the patients.
4. Conclusion ----- 10 min.

Checking questions:

- 1. Etiology of maxillae fractures.**
- 2. Classification of maxillae fractures.**
- 3. Methods of examination of the patients with incorrect consolidate fractures and pseudo-joints.**
- 4. Clinical picture of incorrect consolidate fractures.**
- 5. On what does prosthetic treatment at these patients depend?**
- 6. What is the prosthesis with two teeth arch and when is it made?**
- 7. Etiology of pseudo-joint.**
- 8. What is the tactic in case of pseudo-joints?**
- 9. What is called uni- or bijoint prosthesis and when is it indicated?**

Methodical elaboration Nr. 11

Theme: *Particularities of clinical picture and prosthetic treatment of microstomy and mandible contracture.*

Place of the lesson: clinic room.

The purpose of the lesson: during the lesson the students study clinical picture of microstomy and mandible contracture and determine plan of treatment.

Plan of the lesson:

1. Discussion of the theme ----- 45 min.
2. Demonstration of thematic patients ----- 30 min.
3. Reception of the patients.
4. Conclusion ----- 10 min.

Checking questions:

1. Etiology of microstomy.

2. Clinical picture of microstomy.

3. Particularities of clinical-laboratory stages at prosthetic treatment of microstomy.

4. Particularities of getting impressions at microstomy.

5. Particularities of demontabile prosthesis on the maxillae.

6. Particularities of demontabile prosthesis on the mandible.

7. Etiology of mandible contractures?

8. Classification of contractures.

9. Mechanoterapy of mandible contractures and classification of mechano-terapeutical apparatuses.

Methodical elaboration Nr. 12

Theme: *Clinical picture and prosthetic treatment of the patients with postresectional lesions of maxillae and mandible.*

Place of the lesson: clinic room.

The purpose of the lesson: during the lesson the students study clinical picture of postresectional lesions of the maxillae and mandible and determine plan of treatment analysing diagnostic models.

Plan of the lesson:

1. Discussion of the theme ----- 45 min.
2. Demonstration of thematic patients ----- 30 min.
3. Reception of the patients.
4. Conclusion ----- 10 min.

Checking questions:

1. Etiology of maxillae lesions.
2. Classification of palatal lesions by Kurleandski.
3. Classifications of maxillae-facial lesions by V. Gamureac.
4. Clinical picture of postresectional maxillae lesions.
5. Prosthetic postresectional treatment after partial resection of alveolar process.
6. Manufacturing the immediate prosthesis.
7. Obturators.
8. Clinical-technical stages of hollow prosthesis and its purpose.
9. Manufacturing the postresectional artificial denture at the patients with complete adentia.
10. Methods of fixing the postresectional artificial denture on upper jaw.
11. Materials used at manufacturing the postresectional denture.
12. Clinical picture of postresectional lesions of the mandible.
13. Clinical- laboratory stages of manufacturing the splint system by Vanchevici.
14. Constructive particularities of dispositive with inclined plane by V. Gamureac. The purpose of using.
15. Particularities of postresectional denture manufacturing on the mandible.
16. Particularities of postresectional denture fixation on the mandible.
17. Face masc. Method of realisation. Used materials.
18. Criteria of ectoprosthesis modeling.
19. Materials and dyes used at ectoprosthesis manufacturing.
20. Methods of fixation of ectoprosthesis.
21. Complications at maxillae-facial prosthesis manufacturing.

Methodical elaboration Nr. 13

Taking part in reception of the patients.

The basic bibliography

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