



**STATE UNIVERSITY OF MEDICINE AND PHARMACY  
„NICOLAE TESTEMIȚANU”  
FACULTY OF STOMATOLOGY  
DEPARTMENT OF PEDIATRIC ORAL AND MAXILLOFACIAL  
SURGERY AND PEDODONTICS „ION LUPAN”**

"Approved"

Head of the Department of pediatric oral and  
maxillofacial surgery and pedodontics

„Ion Lupan”,

24 january 2020

PhD, DMS, Associate professor

\_\_\_\_\_Railean Silvia

"Approved"

at the chair meeting of Department  
of pediatric oral and maxillofacial  
surgery and pedodontics

„Ion Lupan”

Minutes No.\_\_\_\_of\_\_\_\_\_

# **Methodical elaborations**

## **IV year, VIII semester PEDODONTICS**



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Methodical elaboration no. 1  
for 4th year students in **Pedodontics**

- I. Topic: Methods of examining children of different ages in the pedodontic department.  
Child preparing for the dental treatment: discussion, premedication, local anaesthesia, etc.
- II. The aim: To learn the methods of examining and preparing children for treatment.
- III. The practical lesson plan:

No	Stages	Equipment		Time
		Technical equipment, instruments	Didactic material	
1.	Attendance control		Catalog	2 min
2.	Familiarization of the theme and plan of the practical lesson		Methodical elaboration	2 min
3.	Interrogating students, solving situational problems, tests	Interrogating students, solving situational problems.	Situational problems, tests, radiograms, etc.	60 min
4.	Examination and treatment of patients	Equipment, tools, materials, etc.	Tables, schemes, etc.	185 min
5.	Clinical debates, completing of documentation	Form of documentation 030, 039	Final assessment of students practical skills	20 min
6.	Topic for the next lesson		The thematic plan	1 min

**Knowledge assessment:**

1. Definition of pediatric therapeutic dentistry (pedodontics).
2. The object of study and the objectives of pedodontics.
3. The sanitary norms for the organization of the pedodontic office.
4. Basic dental equipment.
5. The instrumentation used in pedodontic practice.
6. Patients medical records, register and others.
7. What are the age periods in children?
8. What developmental stages does the antenatal period include?
9. What are the critical periods during intrauterine development?
10. What are the particularities of the development of the child's body during the neonatal period?
11. What are the particularities of the development of the baby's body during the infancy period?
12. What are the particularities of child development in the pre-preschool period?
13. What are the particularities of child development in the preschool period?
14. What are the particularities of the child's development during the school period?
15. What are children's health groups?
16. The peculiarities of examining children of different ages at the dentist.
17. What is the system of tooth scoring according to the WHO?
18. What is the Zigmondy teeth scoring system?
19. What is the tooth scoring system according to the ADA?
20. What is the French system for scoring teeth?



21. What is the European (arithmetic) system of tooth scoring?
22. What is the German tooth scoring system?
23. Name the basic methods of radiological investigations.
24. What are the radiographic methods used in pedodontics?
25. Preparation of the child in different periods of development for the dental treatment.

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3. Arathi Rao. Principles and Practice of Pedodontics. Rao Publisher, Motilal (UK) Books of India, 2006.
4. Cawson R.A. Essentials of oral pathology and oral medicine,1995.
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Methodical elaboration no. 2  
for 4th year students in **Pedodontics**

- I. Topic: The main stages of development of temporary and permanent teeth in children.  
Morphological and structural features of temporary and permanent teeth in children.
- II. The aim: To learn the methods of examining and preparing children for treatment.
- III. The practical lesson plan:

No	Stages	Equipment		Time
		Technical equipment, instruments	Didactic material	
1.	Attendance control		Catalog	2 min
2.	Familiarization of the theme and plan of the practical lesson		Methodical elaboration	2 min
3.	Interrogating students, solving situational problems, tests	Interrogating students, solving situational problems.	Situational problems, tests, radiograms, etc.	60 min
4.	Examination and treatment of patients	Equipment, tools, materials, etc.	Tables, schemes, etc.	185 min
5.	Clinical debates, completing of documentation	Form of documentation 030, 039	Final assessment of students practical skills	20 min
6.	Topic for the next lesson		The thematic plan	1 min

**Knowledge assessment:**

1. What stages do we distinguish conventionally in teeth development?
2. What are the stages of intrauterine and intramaxillary development of the teeth?
3. Characterize the stage of formation and formation of dental buds - proliferation.
4. What are the main components of the dental follicle?
5. Characterize the differentiation stage of the dental buds - histodifferentiation.
6. What are the components of the enamel?
7. Characterize the stage of histogenesis of dental tissues - morphodifferentiation.
8. Characterize the calcification step of the hard dental tissues.
9. What is the dental eruption?
10. What are the characteristic stages of dental eruption?
11. What are the theories that explain the mechanism of dental eruption?
12. Name the general factors that play an important role in the process of tooth eruption.
13. What are the signs of physiological eruption of the teeth?
14. What is the eruption order of temporary teeth?
15. What are the terms of temporary teeth eruption?
16. What factors influence on the eruption of temporary teeth?
17. What are the pathological variations of the temporary teeth eruption?
18. What is the meaning of the term "dentitio difficilis"?
19. What are the natal and neonatal teeth?
20. Describe the process of tooth root formation.
21. What are the peculiarities of root formation in pluriradicular teeth?



22. What are the terms of the complete formation of the temporary tooth roots?
23. What are the radiological stages in the root apex formation process?
24. What is the root growth area of the tooth?
25. What are the variants of the roots of temporary pluriradicular teeth resorption?
26. What are the terms of the beginning of the roots of the temporary teeth resorption?
27. What are the theories that explain the process of the roots of the temporary teeth resorption?
28. What are the reasons for the delay in the terms of root resorption?
29. What are the causes of accelerating root resorption terms?
30. What is the order of permanent teeth eruption?
31. What are the terms of permanent teeth eruption?
32. What are the factors that determine the individual variations of the eruption of permanent teeth?
33. What are general pathological factors influence on the permanent teeth eruption?
34. What are local pathological factors influence on the permanent teeth eruption?
35. What are the terms of the roots complete formation of the permanent teeth?
36. What are the general features of temporary teeth?
37. What are the morphological features of the temporary teeth?
38. What are the structural features of the temporary teeth?
39. Indicate the location of the Zuckerkandl and Carabelli tubers.
40. What are the general features of permanent teeth?
41. What are the morphological features of permanent teeth?
42. What are the structural features of permanent teeth?
43. What are the peculiarities of the temporary teeth enamel structure?
44. What are the peculiarities of the dentin structure of the temporary teeth?
45. What are the peculiarities of the permanent teeth enamel structure?
46. What are the peculiarities of the dentin structure of permanent teeth?
47. What are the particularities of the structure of the temporary and permanent teeth cement?
48. What are the peculiarities of the radioanatomy of the dental-maxillary apparatus in children until the eruption of permanent teeth?
49. What are the particularities of the radioanatomy of the dental-maxillary apparatus in children during the period of mixed dentition?
50. What are the peculiarities of the radioanatomy of the dental-maxillary apparatus in children during the period of permanent dentition?

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3. Arathi Rao. Principles and Practice of Pedodontics. Rao Publisher, Motilal (UK) Books of India, 2006.
4. Cawson R.A. Essentials of oral pathology and oral medicine, 1995.
5. Godoroja P., Spinei A., Spinei I. Paediatric dentistry. Chisinau. 2005



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Methodical elaboration no. 3  
for 4th year students in **Pedodontics**

- I. Topic: Dental caries of temporary teeth. The particularities of clinical evolution and diagnosis.
- II. The aim: To learn the clinic and the diagnosis of temporary tooth decay.
- III. The practical lesson plan:

No	Stages	Equipment		Time
		Technical equipment, instruments	Didactic material	
1.	Attendance control		Catalog	2 min
2.	Familiarization of the theme and plan of the practical lesson		Methodical elaboration	2 min
3.	Interrogating students, solving situational problems, tests	Interrogating students, solving situational problems.	Situational problems, tests, radiograms, etc.	60 min
4.	Examination and treatment of patients	Equipment, tools, materials, etc.	Tables, schemes, etc.	185 min
5.	Clinical debates, completing of documentation	Form of documentation 030, 039	Final assessment of students practical skills	20 min
6.	Topic for the next lesson		The thematic plan	1 min

**Knowledge assessment:**

1. Definition of dental caries.
2. Frequency of dental caries in children in the Republic of Moldova and other countries.
3. Intensity of dental caries in children in the Republic of Moldova and other countries.
4. Risk factors for the appearance of dental caries in children.
5. The peculiarities of the clinical evolution of the caries of the temporary teeth.
6. Particularities of the diagnosis of caries of the temporary teeth.

**References**

1. Lectures
2. Andlaw R.J., W.P.Rock A manual of paedodontics 1993.
3. Arathi Rao. Principles and Practice of Pedodontics. Rao Publisher, Motilal (UK) Books of India, 2006.
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Methodical elaboration no. 4  
for 4th year students in **Pedodontics**

- I. Topic: Dental caries of permanent teeth in children. The particularities of clinical evolution and diagnosis.
- II. The aim: To study the clinic and the diagnosis of dental caries of permanent teeth in children.
- III. The practical lesson plan:

No	Stages	Equipment		Time
		Technical equipment, instruments	Didactic material	
1.	Attendance control		Catalog	2 min
2.	Familiarization of the theme and plan of the practical lesson		Methodical elaboration	2 min
3.	Interrogating students, solving situational problems, tests	Interrogating students, solving situational problems.	Situational problems, tests, radiograms, etc.	60 min
4.	Examination and treatment of patients	Equipment, tools, materials, etc.	Tables, schemes, etc.	185 min
5.	Clinical debates, completing of documentation	Form of documentation 030, 039	Final assessment of students practical skills	20 min
6.	Topic for the next lesson		The thematic plan	1 min

**Knowledge assessment:**

1. Definition of dental caries.
2. Frequency of dental caries in children in the Republic of Moldova and other countries.
3. Intensity of dental caries in children in the Republic of Moldova and other countries.
4. Risk factors for the appearance of dental caries in children.
5. The peculiarities of the clinical evolution of caries of permanent teeth in children.
6. Particularities of the diagnosis of permanent tooth decay in children.

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1. Lectures
2. Andlaw R.J., W.P.Rock A manual of paedodontics 1993.
3. Arathi Rao. Principles and Practice of Pedodontics. Rao Publisher, Motilal (UK) Books of India, 2006.
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Methodical elaboration no. 5  
for 4th year students in **Pedodontics**

- I. Topic: Non-operative treatment of caries incipient forms of temporary and permanent teeth in children of different ages. Efficiency assessment of the non-operative treatment of dental caries.
- II. The aim: To study the methods of non-operative treatment of temporary and permanent dental caries in children of different ages and to evaluate the efficiency of the non-operative treatment of dental caries.
- III. The practical lesson plan:

No	Stages	Equipment		Time
		Technical equipment, instruments	Didactic material	
1.	Attendance control		Catalog	2 min
2.	Familiarization of the theme and plan of the practical lesson		Methodical elaboration	2 min
3.	Interrogating students, solving situational problems, tests	Interrogating students, solving situational problems.	Situational problems, tests, radiograms, etc.	60 min
4.	Examination and treatment of patients	Equipment, tools, materials, etc.	Tables, schemes, etc.	185 min
5.	Clinical debates, completing of documentation	Form of documentation 030, 039	Final assessment of students practical skills	20 min
6.	Topic for the next lesson		The thematic plan	1 min

**Knowledge assessment:**

1. Indications for the non-operative treatment of caries of temporary and permanent teeth in children.
2. Methods of non-operative treatment of incipient forms of dental caries.
3. Remineralization remedies for enamel.
4. Efficiency assessment of the non-operative treatment of dental caries.

**References**

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2. Andlaw R.J., W.P.Rock A manual of paedodontics 1993.
3. Arathi Rao. Principles and Practice of Pedodontics. Rao Publisher, Motilal (UK) Books of India, 2006.
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Methodical elaboration no. 6  
for 4th year students in **Pedodontics**

- I. Topic: Operative treatment of dental caries of temporary and permanent teeth in children. Principles of carious cavities preparation of temporary and permanent teeth in children.
- II. The aim: To learn preparation of the carious cavities of the temporary and permanent teeth and apply the filling materials.
- III. The practical lesson plan:

No	Stages	Equipment		Time
		Technical equipment, instruments	Didactic material	
1.	Attendance control		Catalog	2 min
2.	Familiarization of the theme and plan of the practical lesson		Methodical elaboration	2 min
3.	Interrogating students, solving situational problems, tests	Interrogating students, solving situational problems.	Situational problems, tests, radiograms, etc.	60 min
4.	Examination and treatment of patients	Equipment, tools, materials, etc.	Tables, schemes, etc.	185 min
5.	Clinical debates, completing of documentation	Form of documentation 030, 039	Final assessment of students practical skills	20 min
6.	Topic for the next lesson		The thematic plan	1 min

**Knowledge assessment:**

1. The preparation steps of carious cavities.
2. The particularities of each step of preparing the carious cavities.
3. Main groups of materials used in pedodontic practice. Indications and contraindications.
4. Methods of operative treatment of dental caries in children.
5. The peculiarities of the operative treatment of caries of temporary and permanent teeth in children.

**References**

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2. Andlaw R.J., W.P.Rock A manual of paedodontics 1993.
3. Arathi Rao. Principles and Practice of Pedodontics. Rao Publisher, Motilal (UK) Books of India, 2006.
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Methodical elaboration no. 7  
for 4th year students in **Pedodontics**

- I. Topic: Filling materials in pedodontic practice. Selection of filling materials.
- II. The aim: To learn of the cavities filling of the temporary and permanent teeth in children.
- III. The practical lesson plan:

No	Stages	Equipment		Time
		Technical equipment, instruments	Didactic material	
1.	Attendance control		Catalog	2 min
2.	Familiarization of the theme and plan of the practical lesson		Methodical elaboration	2 min
3.	Interrogating students, solving situational problems, tests	Interrogating students, solving situational problems.	Situational problems, tests, radiograms, etc.	60 min
4.	Examination and treatment of patients	Equipment, tools, materials, etc.	Tables, schemes, etc.	185 min
5.	Clinical debates, completing of documentation	Form of documentation 030, 039	Final assessment of students practical skills	20 min
6.	Topic for the next lesson		The thematic plan	1 min

**Knowledge assessment:**

1. Main groups of filling materials used in pedodontic practice. Indications and contraindications for use.
2. The main stages of of the cavities filling in the temporary and permanent teeth in children.
3. Selection of the filling materials of the temporary teeth.
4. Selection of filling materials for permanent ones in children.

**References**

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2. Andlaw R.J., W.P.Rock A manual of paedodontics 1993.
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Methodical elaboration no. 8  
for 4th year students in **Pedodontics**

- I. Topic: Noncarious diseases of hard dental tissues (dental dystrophies). Classification. Amelogenesis and dentinogenesis imperfecta, syndrome Steinton-Cap-de-Pont. Teeth development defects: number, shape, size, structure of hard tissues in children. The clinical picture. Treatment.
- II. The aim: To learn the clinic, diagnosis and treatment of amelogenesis imperfecta, dentinogenesis imperfecta, syndrome Steinton-Cap-de-Pont, teeth developmental defects in children.
- III. The practical lesson plan:

No	Stages	Equipment		Time
		Technical equipment, instruments	Didactic material	
1.	Attendance control		Catalog	2 min
2.	Familiarization of the theme and plan of the practical lesson		Methodical elaboration	2 min
3.	Interrogating students, solving situational problems, tests	Interrogating students, solving situational problems.	Situational problems, tests, radiograms, etc.	60 min
4.	Examination and treatment of patients	Equipment, tools, materials, etc.	Tables, schemes, etc.	185 min
5.	Clinical debates, completing of documentation	Form of documentation 030, 039	Final assessment of students practical skills	20 min
6.	Topic for the next lesson		The thematic plan	1 min

**Knowledge assessment:**

1. Classification of dental dystrophies.
2. Classification of amelogenesis imperfecta.
3. Describe the clinical picture of amelogenesis imperfecta.
4. Describe the clinical picture of dentinogenesis imperfecta.
5. Expose the clinical manifestations of syndrome Steinton-Cap-de-Pont.
6. Characterize the number abnormalities in the temporary dentition.
7. Characterize the number dental anomalies in permanent dentition.
8. Describe the anomalies of the shape of the temporary and permanent teeth.  
Amorphisms.
9. Describe the volume anomalies of the teeth.
10. What are the clinical manifestations of the tooth structure developmental defects?
11. Treatment of tooth development disorders in children.



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Methodical elaboration no. 9  
for 4th year students in **Pedodontics**

- I. Topic: Dental hypoplasia in children. The clinical picture. Differential diagnosis. Treatment and prophylaxis.
- II. The aim: To acquire the clinical picture, diagnosis, treatment and prophylaxis of dental hypoplasia in children.
- III. The practical lesson plan:

No	Stages	Equipment		Time
		Technical equipment, instruments	Didactic material	
1.	Attendance control		Catalog	2 min
2.	Familiarization of the theme and plan of the practical lesson		Methodical elaboration	2 min
3.	Interrogating students, solving situational problems, tests	Interrogating students, solving situational problems.	Situational problems, tests, radiograms, etc.	60 min
4.	Examination and treatment of patients	Equipment, tools, materials, etc.	Tables, schemes, etc.	185 min
5.	Clinical debates, completing of documentation	Form of documentation 030, 039	Final assessment of students practical skills	20 min
6.	Topic for the next lesson		The thematic plan	1 min

**Knowledge assessment:**

1. The notion of dental hypoplasia.
2. Classification.
3. The clinical picture.
4. Differential diagnosis.
5. Treatment.
6. Prevention.

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2. Andlaw R.J., W.P.Rock A manual of paedodontics 1993.
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10. Rugg-Gunn, A. J., Nunn, J. H. Nutrition, diet and dental health. Oxford University Press, Oxford. 1999.
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Methodical elaboration no. 10  
for 4th year students in **Pedodontics**

- I. Topic: Endemic fluorosis in children. The clinical picture. Differential diagnosis. Treatment and prophylaxis.
- II. The aim: To acquire the clinical picture, diagnosis, treatment and prophylaxis of dental fluorosis in children.
- III. The practical lesson plan:

No	Stages	Equipment		Time
		Technical equipment, instruments	Didactic material	
1.	Attendance control		Catalog	2 min
2.	Familiarization of the theme and plan of the practical lesson		Methodical elaboration	2 min
3.	Interrogating students, solving situational problems, tests	Interrogating students, solving situational problems.	Situational problems, tests, radiograms, etc.	60 min
4.	Examination and treatment of patients	Equipment, tools, materials, etc.	Tables, schemes, etc.	185 min
5.	Clinical debates, completing of documentation	Form of documentation 030, 039	Final assessment of students practical skills	20 min
6.	Topic for the next lesson		The thematic plan	1 min

**Knowledge assessment:**

1. The concept of dental fluorosis.
2. Frequency of dental fluorosis in children in the Republic of Moldova.
3. Classification.
4. The clinical picture.
5. Differential diagnosis.
6. Treatment.
7. Prophylaxis.

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1. Lectures
2. Andlaw R.J., W.P.Rock A manual of paedodontics 1993.
3. Arathi Rao. Principles and Practice of Pedodontics. Rao Publisher, Motilal (UK) Books of India, 2006.
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