

PAEDODONTICS – 4th YEAR DENTISTRY

Department of Paediatric Dentistry

Pomeranian Medical University

Al. Powst. Wlkp. 72 70-111 Szczecin

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Kierownik: dr hab. n. med. Krystyna Lisiecka

Paedodontics - winter and summer semester

HOURS: lecture hours – 0, seminar hours – 30, practical hours – 60

ECTS: 3

PERSON RESPONSIBLE FOR DIDACTICS: lek. stom. Ilona Wieczkowska

AIMS OF EDUCATION: a student should be able to cooperate with a child patient, conduct dental prophylaxis and simple caries treatment and proceed to total health of the oral cavity.

CLASSES: Department of Paediatric Dentistry, Al. Powst. Wlkp.72. (building 18)

LECTURES' THEMES: –

SEMINARS' THEMES:

1. Clinical examination, a dental chart and a treatment plan.
2. Tooth development.
3. The differences in the anatomy of the oral cavity of neonates, children with mixed dentition and children during eruption of the permanent teeth. Eruption of the primary and the permanent teeth.
4. The differences between the primary and the permanent dentition. Phases of root formation and resorption of primary teeth's roots.
5. Fissure sealing – part 1.
6. Fissure sealing – part 2.
7. Fluoride in caries prevention. The principles of systemic application of fluoride. Methods of topical fluoride application (by Knutson, by Berggren-Wellander, by Torell) – part 1.
8. Fluoride in caries prevention – part 2.
9. Fluoride in caries prevention: fluoride iontophoresis, varnishes, toothpastes.
10. Medicaments and preparations used in dental caries prophylaxis – summary.
11. Different caries preventive programs for children.
12. Child's adaptation in the dental office – part 1.

13. Child's adaptation in the dental office – part 2.
14. Child's adaptation in the dental office – pharmacological methods..
15. Child's adaptation in the dental office – summary.
16. Dental caries in the primary and the permanent teeth – causes, diagnosis, detection (e.g.: Diagnodent, radiography).
17. Materials used in restorative and biological treatment of dental caries (primary and immature permanent teeth).
18. Caries treatment of the primary teeth.
19. Caries treatment of the immature permanent teeth.
20. Pulp diseases – causes, examination, diagnosis and classifications.
21. Medicaments and materials used in paedodontic endodontics.
22. Treatment of pulp diseases in the primary teeth – the vital pulp therapy (an indirect and direct pulp capping, a calcium hydroxide pulpotomy, a formocresol/glutaraldehyde pulpotomy - 1-session).
23. The irreversible pulpitis and apical periodontitis in the primary teeth – treatment (a non-vital pulpotomy, a formocresol/glutaraldehyde pulpotomy - 2-sessions, a pulpectomy, an antiseptic root canal treatment).
24. The reversible pulpitis in the immature permanent teeth – treatment.
25. The irreversible pulpitis and apical periodontitis in the immature permanent teeth – treatment and root-end closure (apexogenesis, apexification).
26. Classification of traumatic injuries – examination and diagnosis.
27. Traumatic injuries to the permanent teeth (class I-IV) – diagnosis, immediate care, follow-up and long-term prognosis.
28. Traumatic injuries to the permanent teeth (class V-VIII) – diagnosis, immediate care, follow-up and long-term prognosis.
29. Traumatic injuries to the primary teeth (class IX) - diagnosis, immediate care, follow-up and long-term prognosis.
30. Catarrhal stomatitis, herpetic gingivostomatitis, oral candidiasis and oral mucous lesions connected with common children's infectious diseases (measles, rubella, varicella, scarlet fever).

PRACTICAL EXERCISES' THEMES:

-see list of seminars' themes

REGULATIONS OF DEPARTMENT OF PAEDIATRIC DENTISTRY:

Students are obliged to be present and active during theoretical and practical classes.

Absence may be justified by presenting a certification from physician or by other official certification. Absence must be made up. A student will not get a credit of Paedodontics if she/he has 3 unjustified cases of absence.

Student's knowledge is verified during practical exercises. Students who are continuously poor prepared for seminars and practical exercises will be additionally examined from all seminars' themes.

Every student is obliged to document his/her dental procedures (patient's history, copybook).

1. Practical procedures:

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|--|--------|
| - caries preventive and treatment plan | 2 |
| - dental chart | 2 |
| - DMFT- index | 2 |
| - oral hygiene training | 5 |
| - fissure sealing | 4 |
| - Oral Hygiene Index (OHI) | 1 |
| - restorations
(including 2 amalgam fillings) | 8 - 10 |

2. Test – based on problems discussed on seminars (see list of topics above). A student must have more than 60% of positive answers to get the credit.

VERIFICATION OF THE EDUCATIONAL RESULTS:

1. A student have to do all the practical procedures mentioned in Regulations of Department of Paediatric Dentistry.
2. Student's knowledge is verified during practical exercises.
3. The final test (in the end of summer semester).

SKILLS AND REFERENCES: A student should be able to:

- examine a child
- plan caries prophylaxis and dental treatment scheme
- detect and diagnose caries
- do caries preventive and treatment procedures in the primary and in the permanent teeth
- do simple root canal treatment

MAIN TEXTBOOKS:

Koch G., Poulsen S.: Pediatric dentistry – a clinical approach. Copenhagen: Blackwell Munksgaard; 2008.

Cameron A.C., Widmer R.P.: Handbook of pediatric dentistry. Edinburgh: Mosby; 2008.

OTHER RECOMMENDED TEXTBOOKS:

Welbury R.R., Duggal M.S., Hosey M.-T.: Pediatric dentistry. Oxford: Oxford University Press; 2005.

Mathewson R.J., Primosch R.E.: Fundamentals of pediatric dentistry. Chicago: Quintessence Publishing Co; 1995.

Scheller C.: Basic Guide to Dental Instruments. Wiley-Blackwell, 2006.