



Projekt „OPERACJA SUKCES – unikatowy model kształcenia na Wydziale Lekarskim Uniwersytetu Medycznego w Łodzi odpowiedzią na potrzeby gospodarki opartej na wiedzy” współfinansowany ze środków Europejskiego Funduszu Społecznego, w ramach Programu Operacyjnego Kapitał Ludzki.

1. Course unit title

Paediatric Dentistry & Dental Prevention- Psychodentistry (type: principle subject)

2. Course unit code

3. Clinic / Department

Department of Paediatric Dentistry

4. Type of the course unit

compulsory

5. Level of the course unit

master degree level

6. Course profile: general academic (Group of specific learning outcomes: clinical sciences, principal subjects)

7. Year of study

III

8. Semester when the course unit is delivered

5

9. Number of face-to-face session hours

36 hours (6 hours -seminar group session; 30 hours small group session)

10. Number of ECTS credits allocated

2

11. Course unit coordinator

Joanna Szczepańska Professor DDS PhD

12. Names of faculty teachers

Elżbieta Pawłowska Professor DDS PhD; Patrycja Proc dr hab. DMD, PhD; Agnieszka Bruzda-Zwiech DMD, PhD; Maciej Mikołajczyk DMD, PhD; Katarzyna Kozłowska DMD, PhD; Agnieszka Kozubska-Markus DMD, PhD; Sylwia Majewska-Beśka DMD, PhD; Anna Szufnara DMD, PhD

13. Prerequisites and co-requisites

Pediatric Dentistry (Preventive Dentistry) – 2nd year course
Medical psychology

14. Course contents

Aim: To acquire skills in dealing with the child as a dental patient, including the use of: behavioral techniques in promoting proper child's attitude to dental treatment, as well as methods of reducing dental fear and pain during dental procedures. To learn the principles of dental management of a child with disabilities and chronic illness.

Seminaries and classes:

1. Dental examination of child patients. The assessment of dental age. Interpretation of oral health indices in particular age groups.
2. Principles of work organization and equipment of dental surgery for children. Simple behavioural management techniques.
3. The assessment of child attitude to dental treatment. Anxiety and anxiety related behaviour in dental surgery - an evaluation of causes, methods of measuring of dental anxiety and fear in children.
4. Management of dental fear and pain in dental surgery.
5. Dental health care in disabled and medically compromised children. Recognizing the symptoms of psychogenic disorders –dental aspects.
6. Child physical abuse (non accidental injury). Oral health promotion and health education. Getting credit-Quiz.

15. Learning activities and teaching methods

Seminars supported by multimedia presentations

Clinical training on: establishing good communication with child patients, the child adaptation to dental treatment, dental examination and treatment planning in children

Providing assessment feedback - comments to the quiz results.

16. Learning outcomes of the course unit**Knowledge component**

Aims: students know and understand the principles of: dental examinations in children, the organization of work in the dental office, carry out a dental examination, conducting dental management in children (including psychological aspects) and taking into consideration the age and general condition of the patient

Objectives

Students know and understand:

Class 1

- the steps of medical and dental history taking
- the steps of extra-and intraoral examination
- the terms of the eruption of deciduous and permanent teeth
- methods of oral health assessment
- oral health and oral hygiene indices (DMFT/ dmft, SiC, RI, OHI-S, API,BPE)
- special examinations

Class 2

- the role of the dental team members in work organisation in dental surgery
- the importance of properly equipped dental surgery – arranged and equipped with children needs in mind (specially arranged and decorated waiting room, specially designed equipment and dental instruments for children, dental materials used in pediatric dentistry; aspects of health and safety in dental workplace.)
- the principles of the child introduction to the dentist and give goals of the first child's dental visits
- the influence of child's age and dental attitude on the level of child cooperation during treatment and on dentist's choice of therapeutic methods
- the role of verbal and nonverbal communication in gaining the patient's attention and compliance, and building good rapport with child during dental treatment.
- non-pharmacological techniques of behaviour shaping used in children

Class 3

- definitions of dental fear and dental phobia
- factors which are important in the aetiology and perpetuation of dental fear
- and describe DIRECT and INDIRECT methods of assessment of fear/pain intensity
- the dental treatments methods used in anxious children and in children with negative attitude to dental treatment

Class 4

- the local anaesthetic solutions and are knowledgeable of its maximum doses for children
- contraindications to the use of local anesthetics in children
- possible complications after the injection of local anaesthetics and are knowledgeable how to avoid them
- the indications and contraindications to sedation and the therapeutics (analgesic and sedatives agents) used in dental management of children
- the indications and contraindications to the general anaesthesia in children

Class 5

- the impact of chosen chronic diseases on oral health
- principles of dental management in disabled and medically compromised children.

Class 6

- the problem of child physical abuse and the role of the dentist in diagnosis of non-accidental injury (child abused syndrome).
- the form of child abuse and social factors that may contribute to child abuse and neglect
- discuss symptoms of child physical abuse (non accidental injury) that can be found in dental examination
- the definition and objectives of oral health promotion in children

Skills component

Aims: Students are able to carry out dental examination and form treatment plan, including the choice of methods of pain and anxiety relief, as well as perform particular preventive and therapeutic procedures in children and adolescents.

Objectives

Students are able to:

Class 1

- take dental history from child and parents/legal guardians
- carry out dental examination in children
- respect patients' right to protection of their personal data and information about treatment and giving the informed consent for dental treatment
- fill medical record documentation
- plan special investigations and consultations with specialists
- make assessment of caries and oral hygiene status basing on chosen indices
- conduct oral hygiene instructions

Class 2

- give indication about recommended time for the first dental visit of a child
- prepare preventive and treatment plan during the child first visit in the dental surgery
- gain in contact and communicate with child patients and parents
- use behavioural technique in adaptation of the child to dental treatment
- make an assessment of a child attitude to the dental treatment

Class 3

- asses the level of dental fear in children
- plan patient adaptation to the dental treatment in anxious children and those with negative attitude

Class 4

- choose the technique of intraoral local anaesthesia (topical anesthesia, infiltration, block anaesthesia, intra-periodontal injection) adjusted according the type of dental procedure and the location of treated tooth in the oral cavity
- calculate the dose of local anaesthetic solutions
- determine whether there are indications for pharmacological methods of sedation or for dental treatment under general anesthesia
- give information about patient's preparing to ambulatory general anesthesia and about required preoperative special investigations (labolatory testing).

Class 5

- plan prophylaxis and dental treatment in disabled and medically compromised children

- assist during the examination and treatment of disabled children.

Class 6

- recognize symptoms of child physical abuse that can be found in a dental examination
- give information on proper oral health behaviours.

17. Attitudes and transferrable (generic) competencies:

Social competencies

Students develop the awareness of the role of behavioural techniques in adaptation to dental treatment and promoting child positive attitude towards dental treatment and are able to use those methods in dental practice. Students understand the need of the use of techniques of pain/fear reduction in dental practice.

Students presents correct ethical and professional attitudes towards dental management in children and adolescents.

18. Recommended or required learning resources

Compendium of Paediatric Dentistry ed. D.Olczak-Kowalczyk, Med. Tour Press International, 2024. Print Book ISBN 978-83-87717-35-3

Cameron CA, Widmer RP: Handbook of Pediatric Dentistry, 5th Edition. 2021 Print Book ISBN: 9780702079856 eBook ISBN: 9780702079870

Bruzda-Zwiech A, Pawłowska E, Proc P, Szczepańska J: Paediatric Dentistry. Textbook for pre-clinical classes. Part One. First edition. www.dentonet.pl – e- books, ISBN - 978-83-61058-86-1

19. Assessment methods and criteria

Credit with grade on the basis of:

- the course attendance (the presence of students on all classes is compulsory)
- quiz – topics 1 to 6 (20 questions test)

Rating scale :

12-13 points – sufficient (3)

14-15 points –satisfactory (3.5)

16-17 points– good (4)

18-19 points - very good (4.5)

20 points –excellent (5)

20. Additional info and support

www.umed.pl/stom.dziecieca/- (tab. Paediatric dentistry)

Students should respect the rules of Department of Paediatric Dentistry (see tab: Rule-Regulations in Department of Paediatric Dentistry) and the regulations of practical work in Department of Paediatric Dentistry Medical University of Lodz