
	Educational institution Royal Metropolitan University
	Abstract of the course Department of Dental Disciplines

### Abstract of the discipline "Pediatric Dentistry"

<b>Name of the discipline</b>	Pediatric dentistry
<b>The complexity of the discipline</b>	24 credits (720 hours)
<b>Course, semester</b>	3rd year 5, 6 semester, 4th year 7, 8 semester, 5th year 9, 10 semester.
<b>The place of the discipline in the curriculum (prerequisites, postrequisites)</b>	<p>The course "Pediatric Dentistry" is part of the dental curriculum and is a compulsory course. Prerequisites: Latin, medical biology, human anatomy, physics and mathematics, normal physiology, microbiology, and biological chemistry.</p> <p><b>Postrequisites:</b> therapy, general surgery, pediatrics, oncology, resuscitation, radiology, pharmacology</p>
<b>Goals and objectives of the discipline</b>	<p><b>The goal</b> The purpose of mastering the discipline is to provide the student with knowledge and skills in pediatric dentistry, taking into account further education and preparation for professional activity in the specialty 560004 "Dentistry"</p> <p><b>Objectives of the course:</b></p> <ol style="list-style-type: none"> <li>1) teaching students the basic anatomical and physiological features of the maxillofacial region in children that influence the occurrence, development, course, diagnosis, prevention and treatment of dental diseases in children.</li> <li>2) mastering the basic practical skills necessary for examining pediatric dental patients.</li> <li>3) teaching students the basics of etiology, pathogenesis, clinical manifestations, diagnosis and differential diagnosis of major dental diseases, their complications and terminal conditions;</li> <li>4) study of emergency conditions in dentistry and training in providing assistance to children</li> <li>5) identification of connections between dental diseases and environmental factors and bad habits;</li> <li>6) recognition of hidden, long-term foci of chronic oral infection for the prevention of common diseases in children</li> <li>7) teaching students the classification of the main dental diseases. Teaching them how to apply dental forms to the primary and permanent dentition.</li> </ol>

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	<p>8) teaching students the relationships between pathological processes occurring in the maxillofacial region and in other organs and systems.</p>
<p><b>Competencies:</b></p>	<p>The discipline contributes to the development of the following competencies:</p> <p><b>OK-1</b>– is able and ready to analyze socially significant problems and processes, to use methods of natural sciences, mathematics and humanities in various types of professional and social activities;</p> <p><b>IK-1</b> - able and willing to work with computer equipment and software providing systemic and applied purposes for solving professional problems;</p> <p><b>SLK-1</b>- able and ready to implement ethical, deontological and bioethical principles in professional activities;</p> <p><b>SLK-2</b>- able and ready for professional communication techniques; build interpersonal relationships, work in a group, constructively resolve conflict situations, tolerate social, ethnic, religious and cultural differences;</p> <p><b>PC-2</b>- is able and ready to conduct and interpret a survey, physical examination, clinical examination, results of modern laboratory and instrumental studies, morphological analysis of biopsy, surgical and autopsy material of patients, prepare a medical record of outpatient and inpatient patients of children and adults;</p> <p><b>PC-3</b>- is able and willing to conduct a pathophysiological analysis of clinical syndromes, use sound methods of diagnosis, treatment, rehabilitation and prevention among children, taking into account their age, and the adult population;</p> <p><b>PC-4</b>- is able and ready to apply aseptic and antiseptic methods, use medical instruments, carry out sanitization of treatment and diagnostic rooms, children's healthcare organizations, and be proficient in the techniques of caring for sick children and adults;</p>



**PC-7-** able and willing to implement the ethical and deontological aspects of medical activity in communication with colleagues, mid-level and junior staff, adults and adolescents, their parents and relatives.

- preventive activities:

**PC-8-** is capable and ready to implement a set of measures aimed at maintaining and strengthening health and including the formation of a healthy lifestyle, prevention of the occurrence and (or) spread of dental diseases, their early diagnosis, identification of the causes and conditions of their occurrence and development, as well as those aimed at eliminating the harmful effects of environmental factors on human health;

**PC-9-** is able and ready to carry out preventive measures with the population to prevent the occurrence of the most common diseases;


**PC-15** - able and willing to collect and record a complete patient medical history, including oral health data;

**PC-16** - is capable and ready to make a diagnosis based on the results of clinical laboratory studies of biological materials and taking into account the laws of the course of pathology in organs, systems and the body as a whole;


**PC-19-** is able and ready to diagnose typical dental diseases of the hard and soft tissues of the oral cavity, dentofacial anomalies in patients of all ages;

**PC-20** - able and willing to analyze and interpret the results of modern diagnostic technologies in children, adolescents and adults for successful treatment and preventive activities. - treatment activities:

**PC-22** - is capable and ready to perform basic treatment procedures for the most common dental diseases and conditions in adults and children;

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	<p>PC-23 - is able and ready to prescribe adequate treatment to patients with dental diseases in accordance with the established diagnosis, and to implement an algorithm for selecting drug and non-drug therapy;</p>
<p><b>Results of mastering the discipline</b></p>	<p>The results of mastering the discipline are formed using the active verbs of Bloom's Taxonomy: After mastering this discipline, the student:</p> <p><i>Will know:</i></p> <ul style="list-style-type: none"> <li>• structure and equipment of children's dental departments</li> <li>• medical organizations; sanitary and hygienic requirements for the organization of children's dental treatment and preventive institutions;</li> </ul> <p><i>Will understand:</i></p> <ul style="list-style-type: none"> <li>• job responsibilities and rights of a physician in providing pediatric dental and emergency medical care;</li> <li>• professional ethics and deontological aspects of the treatment and preventive work of a dentist</li> </ul> <p><i>Will be able to use:</i></p> <ul style="list-style-type: none"> <li>• principles and methods of outpatient treatment of pediatric dental diseases;</li> <li>• classification, etiology, pathogenesis of diseases of the pulp and periodontium in the primary and permanent dentition;</li> <li>• etiological factors leading to development in children;</li> <li>• diseases of the pulp and periodontium;</li> <li>• methods of examination, diagnosis, prevention and therapeutic treatment of patients with diseases of the pulp and periodontium in children.</li> <li>• Methods of endodontic treatment of patients with pulp and periodontal diseases in children</li> <li>• causes of complications in therapeutic practice when treating patients with pulp and periodontal diseases, and methods for their prevention in children;</li> </ul> <p><i>Will be able to:</i></p>

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	<ul style="list-style-type: none"> <li>• conduct a dental examination of the patient and take a medical history;</li> <li>• write down the dental formula of permanent and temporary teeth in accordance with the international notation system;</li> <li>• determine the condition of hard dental tissues;</li> <li>• to determine the prevalence and intensity of dental diseases in the group of subjects examined;</li> <li>• determine the hygienic condition of the oral cavity using indices;</li> <li>• carry out individual selection of oral hygiene products for the patient depending on the age and condition of the oral cavity;</li> <li>• perform various teeth cleaning methods on phantoms;</li> <li>• teach children and adults teeth cleaning techniques;</li> <li>• carry out supervised teeth cleaning;</li> <li>• to carry out diagnostics and differential diagnostics of initial forms of caries and non-carious lesions;</li> <li>• perform extraction of baby teeth on phantoms.</li> </ul>
<p><b>Basic literature</b></p>	<ol style="list-style-type: none"> <li>1. Clinical Problem Solving in Prosthodontics 1st Edition Author: David Bartlett Functional Occlusion 1st Edition From TMJ to Smile Design Author: Peter Dawson</li> <li>2. Vinogradova T.T. "Pediatric Dentistry" Textbook. 2000, 320 pages.</li> <li>3. Kolesov A.A. "Pediatric Dentistry" Textbook. 2001, 360 pages</li> <li>4. Periodontics: Prep Manual for Undergraduates 1st Edition Authors: Vivek Bains Vivek Gupta Jyoti Bansal</li> </ol>