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| Name of the discipline | **PHYSIOLOGY OF STOMATOGNATHIC SYSTEM** |
| Type  | Compulsory |
| Study year | II |
| Componence | Fundamental |
| Person in charge | Victor Vovc, Svetlana Lozovanu, Oleg Arnaut |
| Locațion | University building nr. 1 „Leonid Cobâleanschi”,27 Nicolae Testemițanu str.  |
| Provisional terms and conditions  | Program: basic knowledge in sciences such as: anatomy, biology, biochemistry, histology, information technology (creation of PC document, use of virtual programs and computer programs for recording and analysis of physiology functions). Knowledge of the functions of organs and tissues located in the maxillofacial region and of basic theories, which directly or indirectly are involved in explaining these functions. The course offers notions on the fundamental properties of tissues located in the maxillofacial region, in correlation with their structural organization and the roles of macroelements, microelements, bacteria in the oral cavity |
| Competences: basic digital skills (use of internet, document processing, use of text editors, digital charts and presentation applications), team communication skills. Logistics support electronic whiteboard / flipchart. BIOPAC MP36 data acquisition system, which allows the registration of over 20 physiological parameters of the human body and their subsequent analysis. Computer room for running virtual physiology software and watching movies that show some physiological experiences or clinical methods of investigation. Interactive physiology programs of laboratory simulation. |
| Mission of the discipline | The mission of this study program aims to provide students of the Faculty of Stomatology with basic data on the functional properties of cells, tissues, organs and systems, on the neurohumoral mechanisms of regulation and control and to form a set of skills necessary for learning specialized courses:a) to appreciate the importance of physiology in the context of general medicine and integration with related medical-biological disciplines;b) to appreciate the importance of studying the functions of regulation and control of the activity of organs, systems of organs and their interactions, c) to have knowledge about physiological constants, their age variations in correlation with new data in biomedical sciences;d) to develop skills in recording, measuring and interpreting data for verbal and written presentation of their own findings and appreciation of physiological and individual variations;e) to understand the importance of the mechanisms of regulation of the physiological functions in the coordination of the organs and of the systems of organs for the normal activity of the tissues located in the maxillofacial region |
| Themes | Salivary secretion. Peculiarities of the oral mucosa. Buccal and gingival fluid. Nervous and humoral regulation of salivary secretion. Physiology of teeth, periodontium and gingiva. The role of Ca2 + and P3+ in bone mineralization. Sensory function of the maxillofacial system, types of sensation. General and stomatognathic pain sensitivity. Antinociceptive system in pain modulation. The physiology of mastication. Methods for exploring the masticatory system. |
| Study finalities  | • Educating students in the spirit of the rigor of the medical act and of understanding the determining role of the fundamental sciences for the given level, as well as for their professional training.• Acquisition by students of practical skills on the correct execution of functional explorations, based on understanding not only the procedures but also the phenomena explored, as well as the principles of the respective techniques;• Explaining some theoretical notions by demonstratively presenting some classic experiments in practical and laboratory lessons;• All this will allow students to gain knowledge about the normal functions of the human body, so they will be able to understand in an integrative way the physiological processes, from cell to body, thus gaining a solid foundation for clinical dental science. |
| Acquired practical skills | • to develop skills in recording, measuring and analyzing data for verbal and written presentation of their own findings and assessment of physiological and individual variations;• to understand the importance of mechanisms of regulation of physiological functions in the coordination of organs and systems of organs for the normal activity of tissues located in the maxillofacial region• to record and analyze the parameters of different functional-instrumental tests (electromyography of masticatory muscles, electrooculography, spirometry, etc.);• to learn the method to study the taste sensations and taste thresholds and to analyze the results of the laboratory analyzes;• to learn methods of studying and appreciating the activity of different organs and systems through virtual and computerized techniques of the BIOPAC system;• to learn the training method based on the analysis of the problem (clinical case). |
| Method of assessment | exam |