Odessa National Medical University
Faculty of Dentistry
Department of Pediatric Dentistry

Syllabus
" Fundamentals of clinical and laboratory diagnosis of dental diseases "
(optional component)

Amount	number of ECTS credits - 3 .
Semester, year of study	2nd semester
Days, time, place	according to timetable
Teacher (s)	Head of the department - Prof. Denga O.V., associate professors: Koval Yu.M., Konovalov M.F., Novikova Zh.O., Tsevuh L.B. assistants: Tarasenko I.Yo. Shumilina K.S., Gorokhovskii V.V., Plotnikova V.G., Skorkina O.V., Yudina O.O., Gorokhivska Yu.V., Osadcha A.O.
Contact phone	Denga Oksana Vasylivna - Prof. Head of the Department of Pediatric Dentistry
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Working space	Department of Pediatric Dentistry st. Mechnikov 32 Odessa
Consultations	Every Tuesday *: from* 14.30 to 16.00 and on Saturdays: from 8.30 to 13.00. within the academic semester. During the winter holidays daily from 8.30 to 13.00.

Communication
Communication with students is carried out according to the schedule in the classrooms and lecture halls. In the case of distance learning, communication can take place online on the Microsoft Teams platform according to timetable.

Course abstract
The subject of study of the discipline " Fundamentals of clinical and laboratory diagnosis of dental diseases " is a set of laboratory and instrumental studies of relevant parameters in biological materials and at the system level to assess the functional state of physiological systems of the body; addressing issues related to early and differential diagnosis of diseases, monitoring the

effectiveness of treatment measures, forecasting the course and consequences of the disease

Prerequisites of the course : - "Bioorganic and biological chemistry", "Physiology", etc.

Co - requisites - "Cytology and Histology" "Pharmacology" and others.

Postrequisites - "Pediatric Therapeutic Dentistry", "Therapeutic Dentistry" and others.

The purpose of the course - "Fundamentals of clinical and laboratory diagnosis of dental diseases" to acquaint students with the latest methods of diagnosis of functional conditions of the human body and research of various pathological conditions, to teach them to master the techniques of these studies.

The objectives of the discipline : "Fundamentals of clinical and laboratory diagnosis of dental diseases" are: to present the theoretical foundations and methodological features of the system approach in the study of functional diagnostics, science related to scientific knowledge of methods for studying functional states of organs and organism as a whole. in these conditions, their use in the diagnosis of diseases

Expected results As a result of studying the discipline "Fundamentals of clinical and laboratory diagnosis of dental diseases" the student must:

know:

- The structure of the purpose and objectives of the clinical diagnostic laboratory;
- Forms of work of clinical diagnostic laboratory;
- Clinical methods of examination;
- Paraclinical methods of examination;
- Modern medical technology laboratory lit. idzhen ;

—□determine complex laboratory lit. idzhen for the most common pathologies ;

- basic principles under Section idhotovtsi and transport of biological material for laboratory research ;

—□basic principles of selection of biological material to patients for laboratory lit. idzhen ;

—□features laboratory lit. idzhen on the system, tissue , cellular and molecular levels ;

—□basic rules of registration of results of laboratory lit. idzhen and forms of providing these results to the customer (doctor , patient , etc.);

- the basics of medical and laboratory ethics at work with biological mother alom ;

Be able:

- to carry out the slaughter , the biological material for research ;

—prepare accompanying materials for transportation of biological material ; —□conduct service inspection of laboratory equipment for conducting lit. idzhen ;

—define the term suitability of reagents for lit. idzhen ;

—create standard operating procedures and protocols for laboratory lit. idzhen ;

—conduct an analysis of the obtained results of laboratory lit. idzhen ;

—optimized set of necessary laboratory lit. idzhen with the use of modern laboratory technology for determining individual performance ;

—execute related materials and to provide appropriate manner the results of laboratory lit. idzhen ;

—know the performance of laboratory lit. idzhen in normal and in pathology ;

—maintain records of laboratory lit. idzhen and conduct sample analysis of the specific results of laboratory research

—provide data and laboratory testing for internal and external monitoring

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Course description

Forms and methods of teaching

The course will be laid out in the form of workshops (30 hr.), Lectures (10 hrs.)
At rhanizatsiyi independent work of students (50 hrs.).). During the teaching of the discipline the following methods are used: lecturers, Power Point demonstration and explanation, conversation, analytical information. During practical classes, students use theoretical knowledge to perform practical tasks. It is planned to hold group consultations (1 hour per week according to the consultation schedule)
Recommended reading :

1. Therapeutic dentistry of childhood. Volume 2. / [Khomenko LA, Maidannik VG, Golubeva VG etc.]; under ed. prof. L.A. Khomenko. - K .: Книга-плюс, 2017. - 808c.

1. Schneider SA, Levitsky AP Experimental hundred matolohyya Ch.I . Experime ntal models of dental diseases - Odessa : KP "Odessa City Printing House", 2017. - 167 p.
2. Pustovit SV Some methodological approaches to ethical regulation of medical research // Organization and conduct of ethical examination of biomedical research. - K .: Сфера, 2006. - C. 15-26

3. Goryachkovsky AM Clinical biochemistry in laboratory diagnostics. - 3rd ed., - Odessa: Ecology, 2005. - 607 p.
4. L.Ye. Bilokon Methods of laboratory diagnostics // Clinical biochemistry. Educational and methodical manual for students of medical faculty in the specialty "Laboratory diagnostics"), 2011. P249-281
5. Therapeutic dentistry for children. Volume 2. / [Khomenko LA, Maidannik VG, Golubeva VG etc.]; under ed. prof. L.A. Khomenko. - K .: Книга-плюс, 2017. - 808c

Lecture topics:

Topic 1. Funktsionalni methods of diagnosis homeorezisa (delta biochemical and biophysical markers

Theme 2 Funktsionalni methods of assessment mikrokapilyarnoho bed by elektrokoloremetrii

Topic 3. On the assessment of the degree of mineralization of the hard tissues of the tooth by electrocolorimetry

Topic 4. On the assessment of the degree of dysbiosis of the oral cavity by biochemical and biophysical markers
of microbial contamination and nonspecific resistance of the oral cavity

Topic 5 . At bstezhennya state of hard tissue of teeth, periodontal and oral fluid when conducting clinical and laboratory examination of the patient

Topics of practical classes:

Topic 1. Terms of biomedical and legal ethics when conducting laboratory lit. idzhen .

Theme 2. Complex modern general clinical laboratory o- instrumental methods of research in dentistry .

Topic 3. Modern immunological, microbiological and virological methods of laboratory research in dentistry

Topic 4. Cytofluorimetric , genetic, cytological, morphological and other methods of laboratory research in the clinical practice of a dentist .

Evaluation.

The results of the test are evaluated on a two-point scale: " passed" and "not passed ":

The results of the test are evaluated on a two-point scale: "credited" and "not credited":

"PASSED" gets a student who has attended all practical classes, shows theoretical knowledge in the curriculum of the elective course, mastered practical skills, mastered the basics and read additional literature, correctly answered test questions (more than 71%). The total amount of points for the current educational activity must be not less than 120 points.

"NOT PASSED" is awarded to a student who has not found theoretical knowledge in the scope of the elective curriculum, does not have basic practical skills. During the semester, he missed practical classes in an elective course without a good reason. Did not solve 70% of test questions. The total amount of points for the current educational activity is less than 120 points

Independent work (IV) of students

Students' work consists of self-study of a certain list of topics or topics that require in-depth study. ID is controlled by tests and control papers. Questions related to self-study are included in the means ofncontrol. The entire scope of the IW contains tasks that require the student to work systematically independently..

COURSE POLICY

The student must acquire knowledge, perform all types of educational tasks, pass all types of educational control, attend all types and forms of classes provided for in the curriculum, avoiding omissions and delays.

Deadline and recompilation policy .

The student works off a missed lecture in the form of writing an abstract on the topic of the lecture. The student works off the missed practicaclass by answering questions of the teacher on duty (twice a week on Tuesdays and Saturdays).

Academic Integrity Policy

Observance of academic integrity by students of education presupposes independent performance of educational tasks, tasks of current and final control of learning outcomes.

Unacceptable in the educational activities of participants in the educational process is the use of family or business ties to obtain a positive and higher assessment in the implementation of any form of control of learning outcomes, the use of prohibited aids or technical means (cheat sheets, headphones , telephones, smartphones , etc.); passing of procedures of control of results of training by fictitious persons.

For violation of academic integrity, the applicant may be held subject to the following academic liability:

–reduction of assessment (exam, test, etc.);

–re-passing the assessment (exam, test, etc.);

–appointment of additional control measures (additional individual tasks, tests, etc.);

–re-passing the relevant educational component of the educational program;

–deductions from the university.

Attendance and lateness policy.

Absence of a student at lectures or practical classes is noted in the register of attendance in the form of a mark "ab". The student must work off the practical classesduring2 weeks.

Mobile devices

The use of a smartphone, tablet or other device is allowed with the permission of the teacher.

Behavior in the audience .Work in ф team (student group, staff of the department, employees of the clinical base of the department) is provided. The communication environment is friendly, creative, open to constructive criticism.