Health MINISTRY of Moldova
STATE UNIVERSITY OF MEDICINE AND PHARMACY
"Nicolae Testemitanu"

Approved
At Council meeting Dentistry Faculty verbal process Nr._2__ din11.10.2012__

Approved
Therapeutic Sromatologie department meeting verbal process Nr._1__ din__05.09.2012__

Dentistry dean, Head of Department,
Professor __________Ion Lupan Professor________Gh.Nicolau

Syllabus for DENTISTRY FACULTY STUDENTS

Course title: **Endodontic dentistry**

Course code :
S.05.0.054; S.06.0.057;
S.07.0.077; S.08.0.081;
S.09.0.100; S.10.0.109.

Course type: mandatory discipline

Total hours - 16 556 hours

Including course - 4580 hours practical classes - 11 976 hours

Number of credits allocated to the course unit: 37

Chișinău 2012
The purpose of discipline in therapeutic dentistry:

Studying the causes of occurrence (etiology) and evolutionary mechanisms (pathogenesis) of dental disease, periodontal and oral mucosa, diagnostic their treatment and develop measures of feature Reese prophylaxis. Goal of dentist qualification requiring a comprehensive training future specialist, will give possibility professional to work successfully with contemporary level. Their implementation requires studies into two sections:
1. the general (propaedeutic dental treatment), 1, 2 Year
2. the special (clinical), 3, 4, 5 Year.

Objectives Training in the discipline of dentistry:
The level of knowledge and understanding
- To know the structure and organization of dental care, dental office organization and equipment, aseptic in dentistry, properties of dental materials and instruments used;
- Understand that specialization in dentistry brought in therapeutic, surgical, orthopedic and infant. This specialization does not require isolation of these disciplines, but in many cases the expected results can be obtained only through a complex treatment involving therapist and orthopedic surgeon (orthodontics). Those compartments has the primary role in therapeutic dentistry. This is explained not only by the fact that periodontal disease is the main cause of teeth diseases and the edentulous. In dentistry is placed on the forefront not only issues of treatment, but prevention of dental caries, periodontal disease and oral mucosa. Here imports and the correlation between body condition and diseases of the mouth organs and the effects of changes in the general condition of the mouth. This correlation, in addition to that made contact with other disciplines therapeutic clinical dentistry, better promote the most important section among other dental profiles - and orthopedic surgery. Today it is recognized widely that dental diseases prophylaxis (chronic periodontitis, periodontal disease, etc.). series of help prevent internal diseases. Particularly important is the control factor in odontogenic infectious diseases outbreak character;
- To know that along with methods of diagnosis and treatment of teeth diseases, periodontal tissues and oral mucosa, the importance of methods and means of the main prevention of dental diseases;
- To know that dentistry is a specific shape differentiation and specialization. In her distinguished: cariesology, endodontic (dentistry), periodontology, oral mucosal disease (oral pathology);
- Comply with strict medical ethics issues and ethics.

At the application level
- To make the diagnosis, treatment and prevention of dental hard tissue diseases, periodontal and oral mucosa, emphasizing etiology and pathogenesis;

The syllabus was prepared by:
Department Head, Dr. hab. st. med., University Professor Gheorghe Nicolau,
Studies Head, MD, associate Bodrug V.
- Implement isolation teeth, preparing cavities in hard dental tissues as required, using materials as clinical case, to restore form and function of teeth;
- Carry out endodontic treatment according to modern requirements;
- To apply knowledge gained in the diagnosis, treatment and prevention of periodontal disease and oral mucosa;
- To apply knowledge gained in solving common situational and clinical trials;
- Be able to determine the order of dental procedures.

**The level of integration**

- To appreciate the importance of dental medicine and therapeutic context of other dentistry disciplines.
- Medical problems creatively to address fundamental science and technology achievements (organic and inorganic chemistry, metallurgy, biophysics, etc.)
- To apply the techniques of emergency assistance;
- To possess the skills to implement and integrate knowledge acquired in clinical dentistry with other disciplines;
- Be able to objectively evaluate and self-assess knowledge in dentistry and general medicine;
- Be able to assimilate and implementing in practice, new developments in dentistry disciplines.

**Preparation and preliminary requirements:**

Therapeutic Dentistry is a discipline that studies fundamental to modern dentistry Faculty will allow future physician-dentist to learn the principles of modern dental organization and assist people to use in their daily activities of new methods of diagnosis and treatment of dental disease prevention. Therefore the stage of academic training specialist will allow future use of contemporary technologies, modern concepts of training in medical rehabilitation treatment and prophylaxis of stomato-gnathic system. To acquire good knowledge of the discipline required in Physics, Biology and Chemistry, obtained in undergraduate studies.

**SEMESTER V (TOTAL 68 HOURS)**

**THEMATIC PLAN OF COURSES (TOTAL – 17)**

1. Dental caries. Epidemiology. Evidence of morbidity. Morphofunctional data of hard tissue. Etiology and pathogenesis of dental caries, local and general predisposing factors of denatal caries, the factors decisive action. Theories about the pathogenic mechanisms in dental caries. **V.Nicolaiciuc**


3. Treatment of dental caries,(local and general). **V.Nicolaiciuc**
4. Errors and complications in diagnosis and treatment of dental caries. **V.Nicolaiciuc**


7. Saliva and oral fluid, role in the development of oral pathology. **V.Nicolaiciuc**

8. Methods and remedies of prophylaxis of dental caries. **V.Nicolaiciuc**

**SEMESTER VI (TOTAL 85 HOURS)**

**THEMATIC PLAN OF COURSES (TOTAL – 34)**

1. Dental pulp. Clinical- morphological characteristics of dental pulp. Modifications in pulp in senescence and in pathologic states. **V.Nicolaiciuc**


3. Clinical signs, positive and differential diagnosis of acute pulpitis. **V.Nicolaiciuc**

4. Clinical signs, positive and differential diagnosis of chronic pulpitis. **V.Nicolaiciuc**

5. Methods of treatment of pulpitis. Indication and contraindication for application the conservative methods of treatment ( biological methods, vital amputation). **V.Nicolaiciuc**


14. Lateral condensation. Cold and worm technic. **V.Nicolaiciuc**
15. Condensation technics: worm vertical, thermomechanical, injectable worming gutta-percha. Other technics of root canal filling. **V.Nicolaiciuc**
16. Error and complication in diagnostic and treatment of pulpitis. **V.Nicolaiciuc**

**SEMESTER VII (TOTAL 72 HOURS)**

**THEMATIC PLAN OF COURSES (TOTAL – 17)**

2. Clinical picture and morphopathogenesis of acute apical periodontitis, chronic and exacerbated. Differential and positive diagnosis. **V.Nicolaiciuc**
5. Physiotherapeutic methods used in treatment of apical periodontitis. **V.Nicolaiciuc**
8. Hard dental tissues pathology which appear after teeth eruption. **V.Nicolaiciuc**

**SEMESTER VIII (TOTAL 72 HOURS)**

**THEMATIC PLAN OF COURSES (TOTAL – 17)**

6. Local and complex treatment of periodontitis - 2 hours V.Nicolaiciuc
7. Methods of surgical treatment in periodontology - 2 hours V.Nicolaiciuc
8. Guided tissue regeneration to treat periodontal disease. Forms of placement of patients - 2 hours. V.Nicolaiciuc

SEMMESTER IX (TOTAL 81 HOURS)

THEMATIC PLAN OF COURSES (TOTAL – 17)


2. Changes of Oral mucosa in systemic lesions, metabolic disorders and in dermatoses. Nicolaiciuc V.

3. Infectious diseases with manifestations in oral cavity. Principles of diagnosis and treatment. AIDS. Nicolaiciuc V.

4. Focal disease. Nicolaiciuc V.


8. Cheilitis and macrocheilitis. Nicolaiciuc V.

SEMMESTER X (TOTAL 81 HOURS)

THEMATIC PLAN OF COURSES (TOTAL – 17)

1. Modern concept in etiology, pathogeny, diagnostic and prophylaxis of dental caries - 2 hours. V.Nicolaiciuc

2. New principals in endodontic. V.Nicolaiciuc

3. Principles of complex treatment of patient with periodontal diseases - 2 hours. V.Nicolaiciuc

4. Etiological factors and pathogenic mechanism in evolution of oral mucosa diseases - 2 hours. V.Nicolaiciuc

5. Differential diagnosis of bullous and vesicular stomatitis. Principle of treatment - 2 hours. V.Nicolaiciuc
6. Differential diagnosis of stomatitis with necrotic phenomenon - 2 hours. V. Nicolaiciuc
7. Differential diagnosis of some precancerous diseases of oral mucosa - 2 hours. V. Nicolaiciuc
8. Dispensary in dentistry - 2 hours. V. Nicolaiciuc

Methods of Teaching and Learning:

Therapeutic dentistry Discipline is studying classical manner, in year 1 and 2 during preclinical or therapeutic dentistry propaedeutic, Year 3, 4, 5 studies in dental clinic. Preclinical studies allows maneuver of students in clinical laboratory. Also students in laboratory models of hard plastics and human teeth, carious cavities and dental restorations. A special attention is paid maneuvers endodontic study under laboratory conditions. Lectures are held by the holder according to plan analytical methods using new teaching and demonstration of multimedia training materials. Practical work for students years 3, 4, 5, are performed in the dental office where students prepared observation sheet, treatment plan for patients, performing maneuvers under the control of the teaching practice. Students also meet the practical work diary scale maneuvers as practical, also widely used in practical work problems and control situational knowledge by using current control tests, studies and ortopantomogram radiogram of various cases of dental practice. The department prepare students work independently of the patient observation sheets, reports, drawings, molds, diploma papers. Some students participate in presentations, multimedia presentations to meetings or conferences of the department's scientific circle by demonstrating the work done in the laboratory or in patients with new methods in diagnosis and treatment.

Suggestions for Individual Activity:
Dentistry can be studied only through hard work every day, step by step, from simple to compound. Practical lessons learned not require additional recovery time beyond studies. I need to know that the only practical theoretical lessons can not be sufficient. Continuous improvement of practical maneuvers, as well as practical lessons and by itself, may be a permanent bond.

Methods of Assessment:
The discipline within dentistry and dental treatment propaedeutic year 1 and 2 studies and clinical trials of year 3, 4, 5, daily student is rated at the theoretical and practical work done. During each semester or a study of dentistry department students are provided treatment and testing summarizing current rated at. At the end I set Colloquium. After the year II, III, IV studies required promotion exam, which consists of questions and tests that allow students to participate further in summer practice. At the end of V maneuvers students practical examinations of the clinical case presentation. Students who have higher average grade of 8.0 (for local students) and 7.5 (foreign students) are able to support the test phase control by conducting diploma thesis, which was established and developed during the year together with scientific coordinator, other students will support the test sample control. The next stage is the oral examination for promotion, which is supported by all students and each student's practical work in practical lessons and independently as is markd in the list of records of practical labor scale is presented with or without thesis examination the state.

The examination mark is calculated according to the following criteria:
1. - annual average mark;
2. – control of test mark or license thesis;
3. – control of practice mark;
4. – control of theoretical exam.

Control test sample test conducted by technical editor ready 900 tests, of which the exams are marked 100 tests, 40 and 60 complement simple multiple.
The oral exam is prepared 200 questions, drawing up the tickets of 4 questions each. Considered final grade of 3 components: annual average mark (coefficient 0.3), sample multiple-choice test (coefficient 0.2), practical training (coefficient 0.2), and oral exam (coefficient 0.3).

Assessment of knowledge must be assessed during the year with marks from 1 to 10, without in Clinical Dentistry (year 3,4,5) as the evaluation takes place daily by assessing the level of knowledge in theoretical and clinical work that is fixed in a day. During the current semester tests are held each chapter studied. At the end of each academic year takes place on the following evaluation criteria: 1) Annual average mark, 2) practical training (in sample a. 5 with practical support to the patient), 3) note the grid test sample, 4) mark the sample theoretical examination. The final grade consists of 4 components: annual average mark (coefficient 0.3), practical training (at a. 5 with practical support to the patient sample) (coefficient 0.2), sample multiple-choice test (coefficient 0.2), examination oral (coefficient 0.3).

Decimals as follows:

- Mark 10 or excellent will be given to acquire 91-100% of data elucidating the subject material from outside sources indicated staff;
- Mark 9 and very well will be paid to acquire 81-90% of the material;
- Mark 8 or better will be granted to acquire 71-80% of the material;
- Mark 6 and 7 or unsatisfactory will be given to acquire 61-65% and 66-70% of the material;
- Mark 5 or weak will be paid to acquire 51-60% of the material;
- Mark 3 and 4 will be paid to acquire 31-40% and 41-50% of the material;
- Mark 1 and 2 or unsatisfactory will be given to acquire 0-30% of the material;

Failure to examination without good reason shall be recorded as "absent" and is equivalent to grade 0 (zero).

Language of instruction:
Romanian, Russian, English.