

**MINISTRY OF PUBLIC HEALTH
HIGH STATE EDUCATIONAL ESTABLISHMENT OF UKRAINE
«UKRAINIAN MEDICAL STOMATOLOGICAL ACADEMY
POLTAVA**

«Recommended»

at the meeting of Department of
Pediatric Therapeutic Stomatology
with Dental Diseases Prevention methodical
Head of the Department
Professor Kaskova L.F.
„_____” _____ 201_ y.

«Ratification»

Wise – prorektor
on the scientific and pedagogical
work in the HSEI Ukraine «UMSA»
prof. _____ Bobyrev V.N.
"____" _____ 201_y.

2017 – 2018 academic year

REFERENCE BOOK

FOR THE FIFTH– YEAR DENTAL FOREIGN STUDENTS IN STUDYING

«PEDIATRIC DENTISTRY»

(Structure, aims, subject contain, principles of estimation, control questions)

Module 2. «Periodontal and oral mucous diseases in children. Integrated diagnosis and determination of individual approach to prevention and treatment of the mean dental diseases in children».

Fifth educative years

Poltava – 2017

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Educative discipline
“Therapeutic Pediatric Dentistry”
Standard discipline

1. Introduction.

“Therapeutic Pediatric Dentistry” its complex and multicomponent speciality including the pediatric and dentistry skills.

Preparation and activity of such specialist require many forces, to mastery, time and energy.

Every specialist are worked with children must know the features of antenatal and postnatal periods of hard dental tissues, jaw bones, soft facial tissues development and formation, the character influence of mother and child health status on these processes, the different negative factors and it features of action for the further development and appearing stomatological diseases.

The pediatrics dentist to be able to the features of clinical manifestation and pathological tendency in teeth and maxillufacial area of children, and also treatment methods and prevention of basic dental diseases in different age-old.

It is necessary to teach students to determine clinic tendency of diseases, carry out the dental diseases diagnostics and treatment in children of different age leaning on the knowledge got in general biological, clinical, stomatological and pediatric departments. It might be as well to prepare the doctor to be able to work in medical and preventive stomatological establishments of different levels after graduation internship.

Future doctor-stomatologist must know modern organization and management principles of treatment and prevention medical stomatological aid; to able to organize the primary dental diseases prevention, carry out the panel doctoring (dispanserization) and planning stomatological sanitation in child.

Therapeutic Pediatric Dentistry as an educative discipline:

- a) It's grounded on student previous studying knowledge of Human Anatomy, Histology, Embryology, and Cytology, Medical Biology, Medical Chemistry, Biological and bioorganic Chemistry, Microbiology, Virology and Immunology, Virology and Immunology and integrated with these disciplines;
- b) mortgages bases for the student studying of such clinical disciplines students as Dental Diseases Prevention, Paediatrics, Therapeutic Stomatology, Orthodontia;
- c) is based on the pedodontics of therapeutic stomatology profile disciplines study: the Propeduetic of Pedodontics (Therapeutic Stomatology and Therapeutic Pediatric Dentistry) and integrated with these disciplines;
- d) forms a view about professional responsibility with regard to treatment quality of caries and his complications, periodontal diseases and oral mucous diseases (OMM) in children and necessity of dental diseases prevention;
- e) forms an view about diagnostics, clinic and treatment of main stomatological diseases.

The Therapeutic Pediatric Dentistry program is involved the question of etiology and pathogenesis main stomatological diseases and mastering of theoretical material, practical diagnostics abilities and manual skills, treatment and prevention in studying of all discipline parts in logical sequence.

The main purpose of Therapeutic Pediatric Dentistry is consist with learning features of clinic, diagnosis, treatment and prevention of dental diseases in children of all age and training of doctor who can post graduation of internship work in treatment–preventive dental establishments at different levels. The accent is made on structural features of primary and permanent teeth with mature and immature roots, structure of periodontal tissues and oral mucous in the different age periods of children development that in future define the characteristics and technique of various dental procedures. The main component part is practical lessons of Therapeutic Pediatric Dentistry. Each student is given the opportunity to acquire the necessary practical skills directly on patients for their further use in clinical practice.

The educational process is carried out by the credit and module system in accordance with the Bologna process.

The subject “Therapeutic Pediatric Dentistry” is studying in fifth course consists of Module №2, 3-th semantic modules and 17 themes. The auditory loading – 63,7%, SIW – 36,3%.

Quantity of educative hours – 180 (6,0 credits ECTS) consist with:

- lectures - 10 hours;
- practical employments - 100 hours;
- independent work of students – 70 hours.

It is study during ninth and tenth semesters of 5 courses.

2. The structure of discipline “Therapeutic Pediatric Dentistry”:

Module 2. «Periodontal and oral mucous diseases in children. Integrated diagnosis and determination of individual approach to prevention and treatment of the mean dental diseases in children».

Content module 1. Periodontal diseases in children: etiology, pathogenesis, clinic manifestation, diagnosis, differential diagnosis, treatment, prevention.

Content module 2. Oral mucous diseases (traumatic, viral, fungal, allergic and stomatitis accompanied with somatic diseases) in children: etiology, pathogenesis, clinic manifestation, diagnosis, differential diagnosis, treatment and prevention.

Content module 3. The integrated estimation of pediatric dental status. Make an individual dental treatment and prevention plan for children.

№ module Quantity of educative hours, quantity of	Quantity of content module their numbers	Quantity of practical lessons	The minimal quantity of Scores	The scores for keep of ICPC	Minimal quantity of scores
			Traditional scores		

credits of ECTS			„5”	„4”	„3”	„2”		
<u>Module №2</u> 180/6,0		17 lessons (№ 1-17) <i>The estimation of content module 1, 2, 3.</i> 3 lessons (№2,7,17) The concluding module control 1 lesson (№ 17)	5	4	3	1	10	63
Students who scored 63 points allowed to the final module control. For individual work added 10 points.								

Notes: Whole the hours - 180. Credits is a 6,0. 1 credit of ECTS - 30 hours.
Audience loading - 63,7%, SIW - 36,3%.

3. Finish purpose of educative discipline “Therapeutic Pediatric Dentistry”: according to the educative professional program (EPP):

- PP.004 To analyses the examination results in clinic of Pediatric Dentistry.
PP.0045 To determine character and principles of treatment of diseases in a Pediatric Dentistry.
PP. 0050 To define leading syndromes and symptoms in a clinic of Pediatric Dentistry.
PP.0075 To find out different clinical variants and complications of the most widespread diseases in the clinic of Pediatric Dentistry.
PP.0093 To demonstrate acquiring ethical and deontological principles of medical specialist and principles of professional subordination in the clinic of Pediatric Dentistry.
PP.00107 To diagnose the urgent states in the clinic of Pediatric Dentistry.
PP.00145 To render the necessary first aid at the urgent states in the clinic of Pediatric Dentistry.
PP.00150 To ground and formulate a preliminary clinical diagnosis in the clinic of Pediatric Dentistry.
PP.00155 To ground and formulate a syndrome diagnosis in the clinic of Pediatric Dentistry.

PP.00170 To plan the stomatological examination patient, interpret the results of laboratory and instrumental investigation of the most widespread diseases and qualified their complication in the clinic of Pediatric Dentistry.

PP.00179 To conduct differential diagnostics in the clinic of Pediatric Dentistry.

PP.00201 To conduct the primary and secondary prevention of the most widespread diseases in the clinic of Pediatric Dentistry.

III.00212 To put the final diagnosis of basic diseases in the clinic of Pediatric Dentistry.

4. The subject module description:

Module 2. «Periodontal and oral mucous diseases in children. Integrated diagnosis and determination of individual approach to prevention and treatment of the mean dental diseases in children».

4.1. The thematic plan of lectures.

№ n/n	Theme	Quantity of hours
1	Periodontal diseases in children: etiology, pathogenesis. Gingivitis. Periodontitis, periodontal syndrome in children: prevalence, clinic, diagnosis, differential diagnosis, treatment and prevention.	2
2	The structure and function features of oral mucous membrane (OMM) in children. Viral affections of OMM: clinic, diagnosis, treatment and prevention.	2
3	Fungal lesions of OMM in children. Etiology, clinic, diagnosis, treatment and prevention. Allergic affection of oral mucous in children. Etiology, pathogenesis, diagnosis, treatment.	2
4	The oral mucous manifestation accompanied with blood diseases in children. Clinic, diagnosis, tactics of pediatric dentist.	2
	Whole hours	8

4.2. The thematic plan of practical lessons.

№	The theme for the practical lessons	hours
	Module 2. «Periodontal and oral mucous diseases in children. Integrated diagnosis and determination of individual approach to prevention and treatment of the mean dental diseases in children»..	
	Content module № 1. Periodontal diseases in children: etiology, pathogenesis, clinic manifestation, diagnosis, differential diagnosis, treatment, prevention.	

1	The clinic and diagnosis, differential diagnosis of catarrhal, hypertrophic, ulcerative – necrotizing gingivitis in children. Choosing of medical drugs, the methods of its application.	6
2	Periodontitis in children. Periodontal syndrome in children. Clinic, diagnosis, the main principles of treatment of periodontitis in children. The main tactics of pediatric dentist. Control of content module № 1.	6
Content module № 2. Oral mucous diseases (traumatic, viral, fungal, allergic and stomatitis accompanied with somatic diseases) in children: etiology, pathogenesis, clinic manifestation, diagnosis, differential diagnosis, treatment and prevention.		
3	The acute herpetic stomatitis at the children. Etiology, pathology, clinic, diagnosis, differentiate diagnosis, prevention.	6
4	Fungal disease of oral mucous in children. Etiology, pathogenesis, clinic, diagnosis and treatment, prevention. Clinic, diagnosis, treatment and prevention. Oral mucous allergic manifestation in children of different age. Chronic recurrent aphthous stomatitis. Clinic, diagnosis, treatment and prevention.	6
5	The oral manifestation accompanied with the infective diseases, blood, digestive, endocrine diseases in children.	6
6	Cheilitis and glossitis in children. Separate and symptomatic cheilitis. Reason, clinic, diagnosis, treatment. Tactics of pediatric dentist. Defense of case history. Control of content module № 2.	6
	WHOLE HOURS	36

№	The theme for the practical lessons	hour
Content module № 3. The integrated estimation of pediatric dental status. Compiling of individual dental treatment and prevention plan for children.		
7.	Content, structure and demands for the test licensing exam «Krok -2» by specialty «Dentistry». The main principles of task solution for Pediatrics Dentistry. Filling of necessary document.	6
8.	The main directs of dental caries prevention. The general and local cariesogenic factors. Endogenous and exogenous caries prevention. The objects and means, estimation of their efficiency.	6
9.	The features of caries manifestation, diagnosis, treatment in permanent and primary teeth. Modern filling materials, their characteristic and choice in the practices of pediatric therapeutic dentist.	6
10.	Clinic, diagnosis and differentiate diagnosis of pulpitis in primary teeth. Choice of treatment method accordant with the stage of tooth maturation and kind of pulpitis. Conservative, vital and devital	6

	treatment methods. Indication, method of application, possible complications and their prevention.	
11.	Clinic, diagnosis and differentiate diagnosis of pulpitis in permanent teeth. Choice of treatment method accordant with the stage of tooth maturation and kind of pulpitis. Conservative, vital and devital treatment methods. Indication, method of application, possible complications and their prevention.	6
12.	Clinic, diagnosis, and differentiate diagnosis of apical periodontitis in primary and permanent teeth in children. Treatment and prevention, prognosis. Modern endodontic instruments, features of endodontic manipulation in primary and permanent teeth with immature roots.	6
13.	Periodontal diseases in children. Gingivitis. Etiology, pathogenesis, clinic manifestation, diagnosis, differential diagnosis. The main treatment principles. Choice of medical drugs.	6
14.	Periodontal diseases in children. Periodontitis, periodontal syndrome. Etiology, pathogenesis, clinic manifestation, diagnosis, differential diagnosis. The main treatment principles. Choice of medical drugs.	6
15.	The differential diagnosis oral mucous diseases and lips in children (different etiology: viral, bacterial, allergic and accompanied with somatic diseases).	6
16.	The leading treatment principles using for oral mucous diseases and lips (different etiology: viral, bacterial, allergic and accompanied with somatic diseases). Modern medical drugs, their choice, mechanism of action. Control of content module № 3.	6
17.	Conclusion module control (CMC)	4
	Whole hours	64

4.3 Kinds of self-independent work.

№	Kind of self – independent work	Quantity of hours	Kind of control
I.	Preparation for the practical lessons – theoretical preparation and keep the practical skills numbers of the themes: 1 – 17 (17 x 2 hours)	34	Current control in the practical lessons
1.	Mastering for the control and learning content modules - theoretical preparation and keep the practical skills numbers of the themes: 2,6,16 (3 x 2 hours)	6	Carry out the inspection of of content modules

			№1,2,3
II.	Self – independent mastering of the themes didn't keep in plan of practical lessons:		
1.	Morphological and functional features of oral mucous (OMM) in different children age. Specific and nonspecific protection mechanism of OMM in children.	4	Writing a abstract
2.	AIDS. Etiology, clinic, diagnosis, treatment, prevention. The particulars of clinic manifestation in children. Tactics of pediatric dentist. Prevention.	2	
3.	Laboratory research methods using for diagnosis of periodontal and oral mucous diseases in children.	2	
4.	Specific infection of OMM in children (syphilis, tuberculosis and another). The features of clinic manifestation in OMM. Tactics of pediatric dentist.	2	
5.	Traumatic affection of OMM in children. Clinic, diagnosis,, treatment and prevention.	2	
6.	Herpetic infection of oral cavity in children. Epidemiology. Etiology and pathogenesis. The modern diagnosis methods, treatment and prevention.	4	
7.	The emergency in the clinic of Pediatrics Dentistry	2	
III.	Individual – research self – independent work. Themes: Individual SIW - Overview of educational and methodical materials, writing essays, leading of scientific research.		
	1. Pharmacodynamics of the main groups of medical drugs used in the treatment of periodontal disease and oral mucous membranes in children.	2	
	2. Phytotherapy in the complex treatment in Pediatric Dentistry.	2	
	3. Physiotherapeutic methods of treatment in pediatric therapeutic dentistry.	2	
	4. Changes in the oral cavity with the somatic pathology and have being orthodontic treated with removable and non-removable equipment.	2	

IV.	Preparation for the final control module (FCM).	6	final control
	Whole hour:	72	

№	Kind of self – independent work	Quantity of hours	Kind of control
I.	Preparation for the practical lessons – theoretical preparation and keep the practical skills numbers of the themes: 1 – 17.	34	Current control in the practical lessons
1.	Preparation for control content module - theoretical and practical skills training, numbers are: 2,7, 17.	6	Current control in the practical lessons 2,7, 17.
II.	Self – independent mastering of the themes didn't include in plan of practical lessons:		
1.	Morphological and functional features of oral mucous (OMM) in different children age. Specific and nonspecific mechanism of OMM in children.	2	Current control in the practical lessons
2.	AIDS. Etiology, clinic, diagnosis, treatment, prevention. The particulars of clinic manifestation in children. Tactics of pediatric dentist. Prevention.	2	
3.	Laboratory research methods using for diagnosis of periodontal and oral mucous diseases in children.	2	
4.	Specific infection of OMM in children (syphilis, tuberculosis and another). The features of clinic manifestation in OMM. Tactics of pediatric dentist.	2	
5.	Traumatic affection of OMM in children. Clinic, diagnosis,, treatment and prevention.	2	
6.	Herpetic infection of oral cavity in children. Epidemiology. Etiology and pathogenesis. The modern diagnosis methods, treatment and prevention.	4	
7.	The emergency in the clinic of Pediatrics Dentistry	2	

III.	Individual – research self – independent work. Themes:	8	final control
	Individual SIW - Overview of educational and methodical materials, writing essays, leading of scientific research.		
IV.	Preparation for the final control module (FCM).	6	final control
	Whole hour:	70	

4.4. The list of individual work by the subject in studying the “Pediatric Dentistry”

V course, stomatological department. Module 2:

«Periodontal and oral mucous diseases in children. Integrated diagnosis and determination of individual approach to prevention and treatment of the mean dental diseases in children».

1. To prepare the scientific literature review under studied themes.
2. To create visual representation objects using in the educative process (educational stands, tables, means etc.).
3. The conclusion student thesis and report it's a result of work statement in scientific societies.
4. To take part in the student dental Olympiad.
5. Carry out the scientific researches under recommended themes:
 - The prevalence of periodontal diseases in children according to finding of dental case history outpatients children and adolescents, comparing them with a spread in Ukraine and worldwide;
 - Modern views on the etiology and pathogenesis of periodontal diseases in children;
 - To diagnosis of periodontal syndrome and identify treatment dentist tactics accompanied with reticuloendothelial system, cyclic neutropenia, diabetes mellitus;
 - The use of radiological examination for the diagnosis and differential diagnosis of localized and generalized periodontitis in children;
 - The use of X-ray changes in semiotics of diseases of periodontal tissues as gingivitis, periodontitis, periodontal syndrome;
 - The use of professional oral hygiene in the treatment of periodontal diseases in children of all ages;
 - Preparations for local and general treatment of gingivitis, depending on the clinical manifestations of the disease;
 - Treatment of localized and generalized periodontitis in children, facilities for local and general treatment depending on the clinical manifestations of the disease;

- The prevalence of oral mucous diseases in children according to finding of dental case history outpatients children and adolescents, comparing them with a spread in Ukraine and worldwide;
- Carry out the analysis and define the communication of oral mucous membrane lesions with somatic diseases and metabolic disorders in children;
- Features of diagnosis, treatment and prevention of viral mucous membrane lesions in children (acute herpetic stomatitis, recurrent herpetic stomatitis, herpangina);
- Features diagnostics manifestation on the oral mucous membrane of acute children's infectious and viral diseases (measles, scarlet fever, diphtheria, infectious mononucleosis, AIDS, etc.). Tactics Pediatric dentist:
- Features of diagnosis, treatment and prevention of acute fungal stomatitis (thrush) in infants;
- Clinical manifestations of allergic diseases in children: angioedema (Quincke's edema), anaphylactic shock, exudative erythema multiforme, Stevens-Johnson syndrome, chronic recurrent aphthous stomatitis and others;
- Provide emergency care for immediate type allergic reactions (anaphylactic shock, angioedema, and others.);
- Analysis of in the oral mucosa changes accompanied with somatic diseases of the internal organs and systems (blood system, endocrine system, digestive system, etc.);
- The specific infections manifestation in oral mucous membrane(OMM) in children (AIDS, tuberculosis, syphilis, gonorrhea);
- Diagnosis and treatment features for self-independent and symptomatic cheilitis in children;
- Diagnostics of urgent conditions in clinic of Pediatric Dentistry;
- Emergency care at an emergency clinic states in child dentistry;

Preparation of essays on the theme:

- Pharmacodynamics main groups of medical drugs used in the treatment of periodontal disease and OMM in children;
- Herbal medicine using for the complex treatment of periodontal diseases and OMM in children;
- Physiotherapy treatments methods using in Pediatric Therapeutic Dentistry.
- Oral changes accompanied with orthodontic treatment attachment-stabilized overdenture and denture.

4.5. Estimation of student learning.

Estimation of the subject (order, methodology, objects and estimation criteria current educational activity, carry out of control module tests, the general estimation of discipline).

Student must have minimal quantity of scores after studying of module and it should be possible to pass the concluding control test. It's necessary to multiply minimal quantity of scores, this corresponded with the mark «3», on a quantity of the estimation

themes in the module, just those 21 practical lessons by 3 scores ($21 \times 3 = 63$). Collected minimal quantity of scores is 63.

Maximal quantity of scores is collected to determine the multiplication of the maximal quantity of scores; this corresponded with the mark «5». There are 21 practical themes by 5 scores ($21 \times 5 = 105$) and added to 10 scores for the individual self-independent work (ISIW) and get maximal quantity of scores is 115.

The student to get a mark accordant with traditional forth – scores schedule for the current practical lessons: «5», «4», «3», «2».

Assessment is an integrated performance (included all kinds of student work as auditory out- class, self- independent works) according to criteria that are communicated to students at the beginning of the study of the discipline.

Marks:

- **“Excellent”** – a student who mastered theoretical material accordant to themes, can use their knowledge to answer questions, justify your answer , motivated her answer; stood the practical skills by the theme; learned practical skills included on classes, use them during the fullest patients examination, solve the control tasks and made explanation of their solution; to be able to fully describe the radiograph, establish a correct preliminary diagnosis, student have to carry out methods of diagnosis, treatment and prevention of dental diseases in children. The overall level of theoretical and practical training of students 91-100%.

- **“Good”** – a student mastered theoretical material by the themes, used accumulate knowledge to answer the questions accordant to the theme, but with some difficulties justifying your answer, stood the practical skills by the theme; learned practical skills included on classes, use them during the fullest patients examination, solve the control tasks and made explanation of their solution; student may have some difficulties during characteristics of radiograph and establish of preliminary diagnosis; student have to carry out methods of diagnosis, treatment and prevention of dental diseases in children. The overall level of theoretical and practical training of students 81-90%.

- **”Satisfactory”** – a student hasn’t mastered theoretical material enough by the themes and has difficult to applied her knowledge, didn’t motivate her answer; the practical skills haven’t study by the theme; he has a some problems during the solve the control tasks and made explanation of solution; student may have some difficulties during characteristics of radiograph and establish of preliminary diagnosis; student can’t to carry out methods of diagnosis, treatment and prevention of dental diseases in children. The overall level of theoretical and practical training of students 71-80%.

- **"Unsatisfactory"** - a student hasn’t mastered theoretical material by the themes can’t use their knowledge to answer questions and justify your answer, can’t

motivate her answer; the practical skills haven't study by the theme; he has a some problems during the solve the control tasks and made explanation of solution; student mayn't to characterize X-ray and establish of preliminary diagnosis; student can't to carry out methods of diagnosis, treatment and prevention of dental diseases in children. The overall level of theoretical and practical training of students 70%.

Estimation method of the following educative activity.

Theoretical knowledge:

1. Control test.
2. Individual oral test (questioning).
3. Solution of the situation tasks.
4. Writing theoretical control test.

Practical tasks and skills:

1. Individual control of practical skills and their performance on the phantom.

Evaluation of self -independent work:

Self - independent themes only evaluated during finish module control test besides auditory practical themes.

Methodology of the final module control (FMC):

- Test control.
- Individual oral examination.
- Individual control of practical skills and performance on the phantom.

The control module test was passed by the subject of «Pediatric Dentistry» if the student attended of the full lectures course and practical lessons. Students are allowed to final module control who have completed all kinds work provided the curriculum were taught and the collected the enough quantity of scores less than the minimum.

The final module control by subjects «Pediatric Dentistry» carry out accordant to standard program and consist with control test, individual oral questioning and individual control of practical skills their results on the phantom.

The hours specified accordant to educative curriculum for practical and seminars lessons.

The final module control includes evaluation of theoretical and practical training of students.

The final module control was allowed if the student collects less than 50 scores. The maximum quantity of scores for final module control is 80.

Control test provides the writing solve of 50 test tasks connected with different units of the «Peadiatric Dentistry» course (duration of writing test is 50 minutes).

The estimation of the control test:

91 – 100% correct answers– «5» scores,

81 – 90 % correct answers– «4» scores,
71 – 80% correct answers– «3» scores,
less 70 % correct answers– «2» scores.

If student isn't gaining 70% correct during the control module tests he must retake the tests and he doesn't have a permission to the following passing of CMC. Model mark consist with scores of current control test and semester average scores with account of scores individual work.

The marks are converted accordant with traditional forth – scores schedule to multiscores (maximum 115 scores). The current individual module successfulness it's necessary to convert after concluding control lesson.

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The algorithm of marks conversion:

- a) The average mark (current general module successfulness of the student) calculated accordant with traditional forth – scores schedule to multiscores. The scores count with one hundredth of mark;
- b) general module successfulness of the student contains the estimation of the self - independent work in average mark;
- c) The average marks of current module successfulness accordant with traditional forth – scores schedule multiplied on coefficient 24 it's a get to conversed multicores average mark.

If the average mark “2” accordant to traditional forth – scores its converted as 0 scores accordant to multiscores schedule. It is necessary to repeat an examination.

The concluding control module have to pass if the minimal scores of current general module successfulness are 3,0.

The “2” mark didn't have to retake if the average mark of current general module successfulness more than 3,0 scores, but student has a chance to retake a bad mark.

The dean's office takes a permission to retake of bad marks “hour by hour” and this reworks recorded in the department journal “The register of the bad mark retake”.

Student has a chance to retake a bad mark all the years during a studying of «Paediatric Dentistry» but before a date of concluding control module. Its connected with the student who have an average marks 3,0 and more scores. The student should to retake the bad marks before begging of a new semester in that case when an average marks less 3,0 scores. He has a two once to retake a bad marks.

The student can to retake only two bad marks during one consultation. He can to retake four bad marks in the out – class day.

The dean's office takes a one permission to retake of one bad mark and it activity are reserved till receipt of positive result (the permission are guaranteed two tests after it student will take a new permission with explanation of rework reason).

The marks aren't converted every lesson accordant with traditional forth – scores schedule to multicores.

The student has permission to concluding control test if he has a necessary minimal sum of scores and visited all the lessons during semester or rework missing of class. Minimal converted sum of scores for the current general module successfulness is **72** scores.

The student automatically passed the concluding module control if the he has 72 scores for the current general module successfulness within limits in 50-70 scores accordant to the rating principle (table 1.):

Table 1. The average scores of current module successfulness accordant with traditional forth – scores schedule corresponded to total marks current module successfulness and scores conversion for the current successfulness to rating indicator of CMC.

Average scores of the current successfulness accordant with traditional forth – scores	Total scores for current successfulness after conversion of the average scores	Rating indicator of CMC
2,00	0	Didn't have a permission to CMC
2,05	49	Didn't have a permission to CMC
2,10	50	Didn't have a permission to CMC
2,15	52	Didn't have a permission to CMC
2,20	53	Didn't have a permission to CMC
2,25	54	Didn't have a permission to CMC
2,30	55	Didn't have a permission to CMC
2,35	56	Didn't have a permission to CMC
2,40	58	Didn't have a permission to CMC
2,45	59	Didn't have a permission to CMC
2,50	60	Didn't have a permission to CMC
2,55	61	Didn't have a permission to CMC
2,60	62	Didn't have a permission to CMC

2,65	64	Didn't have a permission to CMC
2,70	65	Didn't have a permission to CMC
2,75	66	Didn't have a permission to CMC
2,80	67	Didn't have a permission to CMC
2,85	69	Didn't have a permission to CMC
2,90	70	Didn't have a permission to CMC
2,95	71	Didn't have a permission to CMC
3,00	72	50
3,05	73	50
3,10	74	51
3,15	75	51
3,20	77	52
3,25	78	52
3,30	79	53
3,35	80	53
3,40	82	54
3,45	83	54
3,50	84	55
3,55	85	55
3,60	86	56
3,65	87	56
3,70	89	57
3,75	90	57
3,80	92	58
3,85	93	58
3,90	94	59
3,95	95	59
4,00	96	60
4,05	97	60
4,10	98	61
4,15	99	61
4,20	101	62
4,25	102	62
4,30	103	63
4,35	104	63
4,40	106	64

4,45	107	64
4,50	108	65
4,55	109	65
4,60	110	66
4,65	111	66
4,70	113	67
4,75	114	67
4,80	115	68
4,85	116	68
4,90	118	69
4,95	119	69
5,00	120	70

The result of the concluding module control is estimated in the scores (traditional forth-scores marks didn't use).

Maximal quantity of scores for the concluding module control is 80 scores.
Minimal quantity of scores for the concluding module control is 50 scores (the module is passes).

Scores for the SIW (till 10 points) are added to the rating index CMC, which together with final module control complete the average quantity of scores accordant to rating index (isn't more than 80).

The indebtedness of the learning module to be able to eliminate during credit – exam week. The students are expelled from an academy if he didn't pass the CMC. The dean's office determined the reason of missing as “reasonable excuse” and gets permission for the student individual graphic with the leave of rector or vice – pro-rector of academy.

Evaluation of discipline exhibited by traditional department (national) 4-scores scale based on the average number of scores for all modules, provided the program discipline.

The student who had passed successfulness all kind of concluding control tests has a chance to increasing the mark accordant to traditional forth – scores schedule and ECTS marks of the discipline with the leave of rector or vice – pro-rector of academy (it isn't more than 3 CMC during all time of education) and only in graduation course.

The stimulating scores should be account to average marks:

- The work in department SSG– 3-12 scores;
- To part participate in scientific work of department – 5-12 scores;
- authorship or co-authorship of patent, in scientific article, thesis – 6-20 scores;
- to partake (in student Olympics games) – 2-20 scores.

The stimulating scores account after finish of subject studying for the recommendation of department or dean's office and it must to approve academic council of department.

Incentive scores are added after the learning of the discipline department or dean and subject for approval by the Academic Council of the Department. Total scores of discipline and incentive points must not exceed 200.

4.6. List the theoretical questions for the concluding module control 2: «Periodontal and oral mucous diseases in children. Integrated diagnosis and determination of individual approach to prevention and treatment of the main dental diseases in children».

1. Morphological and functional characteristics of periodontal tissues in children of different ages. The main components of periodontium.
2. Classification of periodontal diseases (accordant to WHO). Examination methods for periodontal tissues in children. The determination method for PMA and CPI indices.
3. The general and local factors determined manifestation of clinical features for acute and chronic forms of gingivitis in children. Differential diagnosis of different clinical forms of gingivitis.
4. The treatment and preventive tactic using for acute and chronic forms of gingivitis in children. The medical drug groups recommended for treatment of acute and chronic forms of gingivitis in children. The mechanism of action.
5. Etiological general and local factors of localized and generalized periodontitis in children. Global and local factors of. The main clinical and radiological features of periodontal disease in children.
6. The treatment and preventive tactic using for localized and generalized periodontitis in children. The medical drug groups recommended for treatment of localized and generalized periodontitis in children. The mechanism of action. The features of professional oral hygiene using for periodontal tissue diseases in children and adolescents. The algorithm of application.
7. The main clinical manifestations and characteristics of periodontal disease lesions accompanied with Pappilon-Lefevre syndrome, congenital neutropenia, eosinophilic granuloma, Hand-Schuller-Christian syndrome and et al.) The dentist tactics.
8. Morphological and functional features of structure oral mucous membrane in children of different ages.
9. Etiology and pathogenesis of AHS in children. The acute infectious diseases periods characteristic of viral diseases. General and local clinical features of AHS in children with different degrees of diseases severity.
10. General and local treatment of AHS. The medical drug groups used for treatment of AHS in children. The mechanism of action.
11. The clinical manifestation, therapeutic treatment tactics for recurrent oral herpes in children.

12. General and local clinical features of herpes angina in children. Clinical treatment of herpes angina in children.
13. Clinical current and manifestations of infectious mononucleosis in the oral cavity, measles, scarlet fever, diphtheria. Characteristics of eruption. The dentist tactics.
14. The reason produced the development of thrush in children. The laboratory examination methods used for oral mucous candidiasis in children. Clinic picture of acute and chronic oral mucous candidosis in children with different degrees of diseases severity. The methods and objects recommended for treatment of thrush and chronic candidiasis in children. The medical drug groups used for treatment of chronic candidosis in children.
15. Causes, mechanisms of development, clinical features, treatment principles of anaphylaxis in children. What are the main differential features of other emergency conditions? Emergency measures. Causes, mechanisms and clinical manifestations of Quincke's edema (angioedema) angioedema. Treatment principles of and emergency aid for children with Quincke's edema.
16. The reasons and mechanisms of development, characteristic clinical manifestations of exudative erythema multiforme. Additional examination methods using for diagnosis exudative erythema multiforme. Interpretation of results. Methods and means for general and local treatment of erythema multiforme. Groups of medical drugs used for this purpose, their mechanism of action.
17. Causes, mechanisms of development, clinical features chronic recurrent aphthomatous stomatitis (CRAS) in children. The methods and objects recommended for treatment of CRAS in children.
18. The characteristic of general clinic features and manifestation in oral cavity accompanied with iron-deficient anemia in children. The dentist tactics.
19. The general and clinic manifestation chronic and acute leucosis in oral cavity. The clinic changes in peripheral blood characterized chronic and acute leucosis in children. The dentist tactics.
20. The characteristic of general clinic features and manifestation in oral cavity accompanied with haemophilia, agranulocytosis. The clinic changes in peripheral blood characterized haemophilia, agranulocytosis in children. The dentist tactics during the treatment of children with hemorrhagic diathesis in children.
21. The dental status accompanied with hypo- and hyperfunction of thyroid gland and parathyroid gland, liver and bile-excreting ducts diseases, chronic gastritis with different secretion status and intestinal disease in children.
22. The reason produced the development of lips disease in children, clinic manifestation and diagnosis of different forms of cheilitis in children. The treatment and preventive principles.
23. The development reasons and clinic manifestation different forms of glossitis in children. The morphological changes in tongue epithelium accompanied with glossitis. The dentist tactics.

24. The contribution of the dental domestic scientists (I.Y. Novik, V.K. Leontyev, T.F. Vynogradova, L.O. Homenko etc..) in realization and advance improve the methods of prevention and treatment of leading dental diseases in children.
25. The epidemiology of leading dental diseases in children. The WHO methods of dental examination. The dental caries prevalence and intensity, index CPI as main epidemiological indicators. Their characterization, interpretation of the results.
26. Evaluation of oral hygiene. The purpose of the study. Hygiene indices of Fedorova – Volodkyna by Green -Vermilliona, Sillness-Loe. Determination method, the interpretation of results.
27. Indexed assessment of periodontal tissues (PMA, CPI, SBI). Determination method, the interpretation of results.
28. Homeostasis hard tissues. The mechanisms of its regulation. The role of saliva and dental pulp in support of the dental hard tissues mineral composition.
29. Cariesogenous situation in the oral cavity. The main components, their methods exposure and remove. The mechanism of enamel demineralization.
30. Means and methods of oral hygienic care. Individual, controlled, professional teeth cleaning. Hygienic training and education in the prevention of dental diseases.
31. The main directions of dental caries prevention. Endogenous and exogenous prevention, their essence, the rationale use.
32. Endogenous prevention of dental caries. Characteristics of the used medical drug group. The complete of prevention plan, assessment of effectiveness. The fluoride preparations used for endogenous dental caries prevention.
33. Exogenous prevention of dental caries. Modern means and techniques of exogenous prevention of dental caries, the assessment of effectiveness.
34. Hermetic sealing fissures as a method of dental caries prevention in posterior teeth of children. Classification of Hermetic sealing. Indications. Terms of sealing. Invasive and noninvasive sealing.
35. Complex system of dental diseases prevention. The main components, stages of implementation.
36. Dental clinical examination (dispensarization) of children at the dentist as a method of implementing primary prevention of dental diseases. Organizational principles, methods of dispensary groups formation.
37. Protective mechanisms of oral cavity, dental-gingival sulcus. Their role in the dental caries and periodontal tissue diseases prevention in children and adolescents.
38. The development periods for temporary teeth. Terms of foundation and mineralization of deciduous teeth. Negative influence factors in the antenatal period. Terms and physiological signs of deciduous teeth eruption. Terms of formation and resorption.
39. The development periods for permanent teeth. Terms of foundation and mineralization of permanent teeth. Negative influence factors in the intra-mandibular tooth development period.
40. Anatomic and topographic features of the structure temporary and permanent

immature teeth. Stages of dental root development, their radiological characteristics.

41. The dental caries treatment of temporary and permanent teeth in children. Modern treatment methods. Filling materials, their choice. Choice of treatment and filling materials in teeth with incomplete root formation.
42. Remineralizative therapy of acute initial caries in children. Indications, methods, techniques of implement, criteria for effectiveness.
43. Anatomical and physiological characteristics of the pulp in temporary and permanent teeth with different dental development stages. Clinical picture, diagnosis, differential diagnosis and treatment of acute and chronic pulpitis temporary and permanent teeth in children.
44. Clinical picture, diagnosis, differential diagnosis and treatment of pulpitis, complicated with periodontitis in temporary and permanent teeth in children.
45. Root canal treatment of pulpitis in children permanent teeth. The choice of root fillings materials depending on the of dental stage development. Method of sealing, control effectiveness.
46. Anatomic and physiological features of periodontium structure in children temporary and permanent teeth. The growth area, its structure and participation in the dental root development. Radiological characteristic of root stages formation.
47. Peculiarities of acute and chronic periodontitis in children temporary and permanent teeth. Clinical and radiological characteristics of chronic periodontitis in children temporary and permanent teeth. Differential diagnosis.
48. Principles of treatment of acute and chronic periodontitis temporary and permanent teeth in children. The choice of treatment for chronic periodontitis in deciduous teeth. Treatment of chronic periodontitis permanent teeth with immature roots. Control method of efficiencies, prognosis.
49. The choice of root fillings materials for treatment of periodontitis in children temporary and permanent teeth. Methods of temporary and permanent root canal obturation.
50. Classification of traumatic lesions in children. The clinic, diagnosis, treatment of traumatic lesions in children temporary and permanent teeth. Prognosis.

4.7. The list of practical skills for the concluding module control 2:

«Periodontal and oral mucous diseases in children. Integrated diagnosis and determination of individual approach to prevention and treatment of the mean dental diseases in children».

1. To be able to interpret the results of cytological and microbiological examination of periodontal pockets contents .
2. To be able to interpret results of X-ray examination for periodontal diseases in children.

3. To be able to inspect hematological analysis and compare with normal indices for the all ages children with blood and other pathological conditions.
4. To be able to determine the severity of chronic catarrhal gingivitis by index PMA.
5. To be able to determine the destruction degree of periodontal tissues by CPI index.
6. To be able to determine the oral hygienic index accordant to Green-Vermillion index.
7. Be able to conduct the individual hygiene training and education of the child, depending on the dental status, especially account the condition of periodontal tissues and mucous membrane.
8. To be able to prescribe a means for individual oral hygienic care depending with various dental status, particularly take in account the periodontal and mucous membrane diseases.
9. To be able to conduct professional oral hygiene for children and adolescents with gingivitis and periodontitis.
10. To be able to conduct oral irrigation children of different ages.
11. To be able to conduct instillation of medical drugs in gingival and periodontal pockets.
12. To be able to carry out applications in the treatment of periodontal tissues and mucous membrane diseases of.
13. To be able to remove plaque and debris from gingival mucosa and another part of the oral cavity.
14. To be able to prescribe physiotherapy for periodontal tissues and mucous membrane treatment in children.
15. Be able to reveal the risk factors for leading dental diseases during stomatological examination of the child.
16. To be able to make up the individual plan for the prevention of dental caries and periodontal tissue diseases in children.
17. To be able to determine the need of therapeutic, surgical, orthodontic care during dental examination of the child and compile individual plan of treatment child.
18. To be able to carry out the applique with dental fluoride varnish and gel, deep fluoridation of enamel.
19. To be able to make the fissure sealing with noninvasive and invasive methods use various sealants.
20. To be able to determine a dispensary clinic examination group of the child and the prescribe the individual preventive measures.

4.8. Recommended literature:

Basic literature:

1. Kaskova L.F., Vashchenko I.Yu. Dental Diseases in the Practice of the Pediatric Therapeutic Dentistry. / Methodical recommendation. Part 1. - Poltava, 2010. - 156p.
2. Kaskova L.F., Vashchenko I.Yu. Dental Diseases in the Practice of the Pediatric Therapeutic Dentistry. / Methodical recommendation. Part 1. - Poltava, 2010. - 143p.
3. Kaskova L.F., Vashchenko I.Yu. Propaedeutics of Pedodontics. / L.F. Kaskova, I.Yu. Vashchenko. // Methodical recommendation – Poltava, 2007. – 156.

4. Pinkham I.R., D.D.S., M.S. Pediatric dentistry. – V.B. Saunders company. – 1999. – 566p.
5. Peter Heasman. Restorative Dentistry, Pediatric Dentistry and Orthodontics. - Churchill Livingstone. – 2003. – P. 378.

Additional literature:

1. Harty F. J. Endodontics in Clinic Practice. –1994. – 366 p.
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3. Mithell D. Oxford handbook of clinical dentistry / D. Mithell, L. Mithell. – Oxford University Press, 1999. – 804 p.
4. Rosen S. L. Fundamentals and Principles of Polymeric Material / S. L. Rosen. – New-York, 1982. – 187 p.
5. Tyldesley W.R. Diagnostic picture tests in oral medicine / W. R. Tyldesley. – London, 1986. – 128 p.

Основна література:

1. Хоменко Л.О. та спів. Терапевтична стоматологія дитячого віку. -Київ:Книга плюс, 2001. - 524с.
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4. Хоменко Л.А., Биденко Н.В. Практическая эндодонтия: инструменты, материалы и методы. –Киев:Книга плюс, 2002. -216с.
5. Биденко Н.В. Стеклоиономерные материалы и их применение в стоматологии. –Киев: Книга плюс, 2003. –144с.
6. Хоменко Л.А., Савичук А.В., Биденко Н.В., Остапко Е.И. и др. Профилактика стоматологических заболеваний: учебное пособие. – Ч.1. –К.:Книга Плюс, 2007. –127с.
7. Хоменко Л.А., Савичук А.В., Биденко Н.В., Остапко Е.И. и др. Профилактика стоматологических заболеваний: учебное пособие. – Ч.2. –К.:”Книга Плюс”, 2008. –132 с.
8. Профілактика стоматологічних захворювань: підруч. для студ. вищих мед. навч. закл. /Л.Ф. Каськова, Л.І. Амосова, О.О. Карпенко, О.В. Хміль [та ін.]; за ред. проф. Л.Ф. Каськової. –Х.:Факт, 2011. –392с.

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2. Виноградова Т.Ф. Стоматология детского возраста (руководство для врачей). – М.: Медицина, 1987.- 528 с.

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4. Данилевський М.Ф., Сидельникова Л.Ф., Рахній Ж.І. Пульпіт. —К.:Здоров'я, 2003. —168с.
5. Дельцова О.І., Чайковський Ю.Б., Геращенко С.Б. Гістологія та ембріогенез органів ротової порожнини: навчальний посібник.- Коломия: ВПТ «Вік», 1994. —94с.
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