***THEME PLAN OF PRACTICAL LESSONS***

***in Pathomorphologyy***

***for 3rd year English-medium students of Dentistry faculty***

***V semester 2012-2013***

|  |  |  |
| --- | --- | --- |
| *#* | ***THEME OF PRACTICAL LESSON*** | ***Hours*** |
| ***Content module 5. Anemias, hemorrhagic syndromes. Diseases of cardio-vascular system. Diseases of central nervous system*** | | |
| **1.** | Postmortem examination. Introduction into nosology. | **2** |
| **2.** | Atherosclerosis, hypertension disease. | **2** |
| **3.** | Ischemic heart disease. Cerebro-vascular diseases. | **2** |
| **4.** | Rheumatic fever. Systemic diseases of connective tissue. | **2** |
| ***Content module 6. Diseases of respiratory and digestive system*** | | |
| **5.** | Acute inflammatory diseases of respiratory system. | **2** |
| **6.** | Chronic obstructive pulmonary diseases. Cor pulmonale. Lung cancer. | **2** |
| **7.** | Diseases of pharynx, esophagus, stomach and intestines. | **2** |
| **8.** | Diseases of liver, biliary system and pancreas. | **2** |
| **9.** | Gross view changes and microscopical features of blood system diseases, diseases of cardio-vascular, central nervous, respiratory and digestive systems. Postmortem examination. | **2** |
| ***Content module 7. Diseases of endocrine system. Diseases of kidneys, female and male reproductive systems, pathology of pregnancy and postpartum period. Pre- and perinatal pathology*** | | |
| **10.** | Diseases of endocrine system. | **2** |
| **11.** | Diseases of female and male reproductive systems, pathology of pregnancy and postpartum period. | **2** |
| **12.** | Diseases of kidneys: glomerulopathies. | **2** |
| **13.** | Diseases of kidneys: tubulopathies, interstitial kidneys diseases, congenital malformations. Chronic renal failure. | **2** |
| ***Content module 8. Pathology of jaws and oral cavity*** | | |
| **14.** | Diseases of tooth hard tissues, pulp and periapical tissues. | **2** |
| **15.** | Diseases of gingiva. Parodontal diseases. | **2** |
| **16.** | Diseases of jaws, salivary glands, tongue, soft tissues of oral cavity. | **2** |
| **17.** | Tumor-like diseases and tumors of dental tissues, oral cavity and salivary glands. Cysts of oral cavity. Congenital malformations of facial skull, jaws and organs of oral cavity. | **2** |
| **18.** | Gross view changes and microscopical features of endocrine system diseases, diseases of kidneys, female and male reproductive systems, pathology of jaws and oral cavity.Postmortem examination. | **2** |
| ***Content module 9. Pathomorphology of infectious diseases*** | | |
| **19.** | Infectious and parasitic diseases. General characteristic of infectious process. Intestinal infectious diseases. | **2** |
| **20.** | Bacterial infections: dyphteria, scarlett fever, meningococcal infection, syphilis, sepsis. | **2** |
| **21.** | Viral respiratory infections. HIV. Rabies. Variola. Rickettsiosis. Prions infections. | **2** |
| **22.** | Tuberculosis. | **2** |
| **23.** | Gross view changes and microscopical features of infectious diseases. Postmortem examination. | **2** |
| **24.** | ***Concluding module control,*** *including**practical preparation – 2 hours, theoretical preparation – 2 hours* | **4** |
| **Total amount of hours** | | **50** |

***THEME PLAN OF LECTURES***

***in Pathomorphologyy***

***for 3rd year English-medium students of Dentistry faculty***

***V semester 2012-2013***

|  |  |  |
| --- | --- | --- |
| # | ***THEME OF LECTURES*** | ***Hours*** |
| **1.** | Introduction into nosology. Pathology of cardio-vascular system | 2 |
| **2.** | Pathology of gastro-intestinal tract and liver. | 2 |
| **3.** | Kidney’s pathology. | 2 |
| **4.** | Diseases of jaws, teeth. Pathology of oral cavity. | 2 |
| **5.** | Tumor-like diseases and tumors of dental tissues, oral cavity and salivary glands. Cysts of oral cavity. Main morphological revealing of infectious and non-infectious diseases within the oral cavity. Congenital malformations of facial skull, jaws and organs of oral cavity. | 2 |
| **Total amount of hours 10** | | |

THEMatic PLAN OF LECTURES

on Pathological Physiology for students

of dentistry faculty

5th semester

2012-2013 study years

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Themes of lectures** | **Hours** | **Lecturer** |
| 1.09.  2011 | Pathophysiology of blood system. White blood cell disorders: leukocytosis, leukopenia, leukemia. | 2 | Sementsiv. |
| 15.09.  2011 | Pathophysiology of cardiovascular system. Haemodynamic disorders. Hypertentsion: types, etiology, pathogenesis. Myocardial infarction and atherosclerosis: aetiology, pathogenesis | 2 | Sementsiv. |
| 29.09.  2011 | Pathophysiology of the upper respiratory airways disorders. Respiratory failure. Disorders of alveolar ventilation, diffusion, and perfusion. Hypoxia. | 2 | Sementsiv. |
| 13.10.  2011 | Pathophysiology of gastro-intestinal system and liver. Disorders of secretory and motile function of digestive tract. Digestive disorders associated with secretory insufficiency of the pancreas. Hepatic failure. | 2 | Sementsiv |
| 27.11.  2011 | Pathophysiology of kidneys. Causes and mechanisms of disorders of glomerular filtration, tubular reabsorption and secretion. Acute and chronic renal failure: criteria, causes, mechanisms, general manifestations. | 2 | Sementsiv |
|  | **Total** | **10** |  |

THEMatic PLAN OF PRACTICAL classes

on Pathological Physiology for students

of dentistry faculty

5th semester

2012-2013 study years

|  |  |  |
| --- | --- | --- |
| **№** | **Themes of practical classes** | **Hours** |
| 1. | Quantitative and qualitative changes of erythrocytes. Anemia: classification of anemias. Posthemorrhagic anemias | 3 |
| 2. | Aetiology and pathogenesis of hemolytic anemias and anemias of diminished erythropoiesis | 3 |
| 3. | White blood cell disorders: leukocytosis, leukopenia. | 3 |
| 4. | Leukemia. | 3 |
| 5. | Disorders of physicochemical properties of the blood and the haemostasis system. | 3 |
| 6. | Concluding lesion (colloquium) | 3 |
| 7. | Haemodynamic disorders. Heart failure | 3 |
| 8. | Vascular insufficiency. Hypertensive disease and atherosclerosis | 3 |
| 9. | Pathophysiology of the upper respiratory airways disorders. Respiratory failure. | 3 |
| 10. | Concluding lesion (colloquium) | 3 |
| 11. | Pathophysiology of the digestive system. Failure digestive system. | 3 |
| 12. | Pathophysiology of the liver. | 3 |
| 13. | Pathophysiology of the kidneys | 3 |
| 14. | Concluding lesion (colloquium) | 3 |
| 15. | Aetiology and pathogenesis of endocrine system disorders: pathophysiology of hypothalamus and pituitary gland diseases | 3 |
| 16. | Pathophysiology of nervous system. Exstremal states | 3 |
| 17. | Testing control | 2 |
|  | **Total** | **50** |

CALENDAR-THEMATIC PLAN of topics

for self-preparation

on Pathological Physiology for students

of dentistry faculty

4th semester

2012-2013 study years

|  |  |  |  |
| --- | --- | --- | --- |
| № | Topics | | Hours |
| 1 | Preparing to practical lessons (theoretical preparation, acquiring practical skills) | | 24 |
| 2 | Self-preparation to module control |  | 3 |
| 3 | Independent work | | 3 |
| 4 | Total | | 30 |

**Pharmacology course**

for 3rd year students of stomatological faculty

in the autumn semester session 2012-2013

*List of practicals*

|  |  |  |  |
| --- | --- | --- | --- |
| No | Date | Topic | Hours |
| 1.  2.  3.  4.  5.  6.  7.  8.  9.  10.  11.  12.  13.  14.  15.  16.  17.  18. | 3.09 – 7.09  10.09 – 14.09  17.09 – 21.09  24.09 – 28.09  1.10 – 5.10  8.10 – 12.10  15.10 – 19.10  22.10 – 26.10  30.10 – 06.11  29.10 – 2.11  5.11 – 9.11  12.11 – 16.11  19.11 – 23.11  26.11 – 30.11  3.12 – 7.12  10.12 – 14.12  17.12 – 21.12  25.12 – 31.12 | MODULE 2  Antiallergic drugs. Immunotropic drugs  Cardiotonics. Cardiac Glycosides. Antiarrhythmic drugs  Antianginal drugs. Hypolipidemic drugs  Antihypertensive drugs  Drugs affecting renal function. Drugs affecting uterine tone and contractions  Drugs affecting the blood system  Agents affecting gastrointestinal tract  Drugs that affect the respiratory system  Final Module Control  MODULE 3  Antiseptics and disinfectants. Synthetic antibacterial agents: sulfonamides, quinolones  Antibiotics – inhibitors of bacterial cell wall synthesis  Antibiotics – inhibitors of protein synthesis  Drugs used to treat tuberculosis. Antifungal drugs  Antiprotozoal drugs. Anthelmintic drugs  Antiviral drugs. Antineoplastic agents  Principles of treatment of acute drug poisoning (2,5 hours)  Drugs used to treat inflammatory processes in maxillofacial area  Final module control | 2,5  2,5  2,5  2,5  2,5  3  3  3  2,5  3  3  3  3  3  3  3  3  3 |
|  | TOTAL |  | 51 |

**Pharmacology course**

for 3rd year students of stomatological faculty

in the autumn semester session 2012-2013

*List of lectures*

*Each lecture – 2 hours*

|  |  |  |
| --- | --- | --- |
| No | Date | Topic |
| 1.  2.  3.  4.  5. | 04.09  18.09  02.10  16.10  30.10 | MODULE 2  Pharmacology of agents that affect the blood system  MODULE 3  Principles of chemotherapy. Synthetic antibacterial agents  Pharmacology of antibiotics  Drugs used to treat tuberculosis. Antifungal drugs  Antiviral drugs. Antineoplastic agents |

**Pharmacology course**

for 3rd year students of stomatological faculty

in the autumn semester session 2012-2013

*List of questions for self-study*

|  |  |  |
| --- | --- | --- |
| No | Topic | Hours |
| 1.  2.  3.  4.  5.  6.  7.  8.  9.  10.  11. | MODULE 3  Antiseptics and disinfectants.  Main principles of chemotherapy  Principles of combined use of antibiotics  Mechanisms of microbial resistance to chemotherapeutic agents  Pharmacology of antisyphilitic drugs  Pharmacology of antimalarial drugs and principles of their administration  Pharmacology of drugs used to treat toxoplasmosis, leishmaniasis, chlamidia  Pharmacology of antidote drugs. Principles of antidote therapy  Radioprotectors  Pharmacology of acids, alkalis, salts of alkaline earth metals  Drugs used in pyo-necrotic processes in maxillofacial area. Stimulators of metabolism, regeneration and immunity | 2  2  1  1  1  1  1  1  1  2  2 |
| Total |  | 51 |

# The schedule of the lectures

# for the 3rd-year English-medium students of Dentistry Faculty,

# 2012-2013 educational year, autumn term

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Subject | Date | Lecturer | Duration |
| 1. | Clinical manifestations and diagnostic criteria of chronic obstructive pulmonary disease and bronchial asthma | 13.09.2012 | Assistant professor Olga Korolyuk | 2 hours |
| 2 | Clinical manifestations and diagnostic criteria of pneumonia and its complications | 27.09.2012 | 2 hours |
| 3 | Clinical manifestations and diagnostic criteria of essential and secondary arterial hypertension. Hypertensive emergencies and urgencies. Main principles of treatment and prevention | 11.10.2012 | 2 hours |
| 4 | Atherosclerosis, ischemic heart disease, sudden cardiac death. Principles of cardiopulmonary resuscitation | 25.10.2012 | 2 hours |
| 5 | Clinical manifestations and diagnostic criteria of stable and unstable angina. Principles of treatment and prophylaxis. | 08.11.2012 | 2 hours |
| 6. | Clinical manifestations and diagnostic criteria of acute myocardial infarction and its complications | 22.11.2012 | 2 hours |
| 7 | Clinical manifestations and diagnostic criteria of premature beats, paroxysmal tachycardia, atrial fibrillation and atrioventricular block. Principles of treatment and prophylaxis. | 06.12.2012 | 2 hours |
| Totally 14 hours | | | | |

# The schedule of the practical classes

# for the 3rd-year English-medium students of Dentistry Faculty, 2012-2013 educational year, autumn term

| **No** | Subject | Hours |
| --- | --- | --- |
| 1 | Lviv therapeutic school. Main symptoms and syndromes in patients with respiratory diseases. Methods of investigations in pulmonology. | 2 |
| 2 | Main principles of diagnosis and treatment of bronchial asthma. | 2 |
| 3 | Main principles of diagnosis and treatment COPD (chronic obstructive pulmonary diseases). | 2 |
| 4 | Main principles of diagnosis and treatment of pneumonia. | 2 |
| 5 | Main principles of diagnosis and treatment of pleuritis. | 2 |
| 6 | Main principles of diagnosis and treatment of lung emphysema. | 2 |
| 7 | Main principles of diagnosis and treatment of respiratory failure. Module control | 2 |
| 8 | Main principles of diagnosis and treatment of essential hypertension. | 2 |
| 9 | Main principles of diagnosis and treatment of symptomatic hypertensions. | 2 |
| 10 | Main principles of diagnosis and treatment of atherosclerosis. | 2 |
| 11 | Main principles of diagnosis and treatment of angina pectoris. | 2 |
| 12 | Main principles of diagnosis of acute myocardial infarction. | 2 |
| 13 | Main principles of treatment of acute myocardial infarction and its complications. | 2 |
| 14 | Main principles of diagnosis and treatment of arrhythmias and blocks. | 2 |
| 15 | Main principles of diagnosis and treatment of acute heart failure | 2 |
| 16 | Main principles of diagnosis and treatment of chronic heart failure | 2 |
| 17 | Sudden cardiac death. Cardiopulmonary resuscitation. | 2 |
| 18 | Credit | 2 |
| Totally 36 hours | | |

# Self-educational work

1. Preparation to practical classes (home task in written form) 20 hours

2. Electrocardiographic diagnosis of arrhythmias and blocks 10 hours

3. Imaging studies for the diagnosis of coronary artery disease 5 hours

4. Algorithms of emergency treatment in cardiology ……………………………………………5 hours

Totally 40 hours

# The schedule of lectures for the 4th-year English-medium students of Dentistry Faculty for 2012-2013 educational year, autumn term

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Subject | Date | Lecturer | Duration |
| 1. | Clinical and diagnostic criteria of anemias. Principles of treatment and prophylaxis | 5.09. 2012 | Assistant  professor  Olga Korolyuk | 2 hours |
| 2. | Clinical and diagnostic criteria of leukemias, lymphomas and agranulocytosis. Principles of treatment. | 19.09. 2012 | 2 hours |
| 3. | Main principles of diagnosis and treatment of diseases of hemostasis: hemophilias, thrombocytopenias, thrombocytopathies and von Willebrand’s disease. | 03.10. 2012 | 2 hours |
| 4. | Clinical and diagnostic criteria of anaphylactic shock and other allergic anaphylactic reactions. Principles of first aid and treatment. Dentist’s role in prophylaxis. | 17.10. 2012 | 2 hours |
| 5. | Clinical and diagnostic criteria of diabetes mellitus. | 31.10. 2012 | 2 hours |
|  | Principles of treatment of diabetes mellitus and its complications. Oral manifestations of diabetes mellitus. | 14.11. 2012 | 2 hours |
| Totally | | | | 12 hours |

# The schedule of practical classes for the 4th-year English-medium students of Dentistry Faculty for 2012-2013 educational year, autumn term

|  |  |  |
| --- | --- | --- |
| No | Theme | Hours |
| 1. | Iron-deficiency anemia: principles of diagnosis and treatment. Oral manifestations of the anemia | 2 |
| 2. | Megaloblastic anemias: principles of diagnosis and treatment. | 2 |
| 3. | Hemolytic and aplastic anemias: principles of diagnosis and treatment. Agranulocytosis. | 2 |
| 4. | Main features of hematooncologic diseases. Acute leukemias: clinical manifestations, diagnosis, treatment, dental manifestations and peculiarities of dental treatment. | 2 |
| 5. | Chronic leukemias: clinical manifestations, diagnosis, treatment, dental manifestations and peculiarities of dental treatment | 2 |
| 6. | Malignant lymphomas (Hodgkin and non-Hodgkin): clinical manifestations, diagnosis, treatment, oral manifestations and peculiarities of dental treatment | 2 |
| 7. | Thrombocytopenia and thrombocytopathies: clinical manifestations, diagnosis, treatment, oral manifestations and peculiarities of dental treatment | 2 |
| 8. | Hemophilias and von Willebrand’s disease: clinical manifestations, diagnosis, treatment, oral manifestations and peculiarities of dental treatment | 2 |
| 9. | Main principles of diagnosis and treatment of hemorrhagic vasculitides | 2 |
| 10. | Multiple myeloma: clinical manifestations, diagnosis, treatment, oral manifestations and peculiarities of dental treatment. Credit | 2 |
| 11. | Patient’s record plan. Bronchoobstructive syndrome: main characteristics and medications for treatment | 2 |
| 12. | Work with patients (patient’s complaints and history taking). Ischemic chest pain: main characteristics and medications for treatment | 2 |
| 13. | Work with patients (patient’s physical examination, preliminary diagnosis with rationale). Hypertensive urgencies and emergencies: main characteristics and medications for treatment | 2 |
| 14. | Work with patients (plan of additional investigations and their rationale). Main features of premature complexes and atrial fibrillation. ECG diagnosis of arrhythmias. | 2 |
| 15. | Work with patients (clinical diagnosis with rationale). Clinical manifestations of acute left ventricular failure, medications for treatment. | 2 |
| 16. | Work with patients (plan of treatment with rationale). Diagnostic criteria of rheumatic fever, management of patients with rheumatic valve disease in dental practice. | 2 |
| 17. | Work with patients (prophylaxis of the disease). Diagnostic criteria of infective endocarditis, dentist’s role in prophylaxis. | 2 |
| 18. | Module control: defense of medical record. | 2 |
| 19. | Diagnosis and treatment of anaphylactic shock | 2 |
| 20. | Clinical manifestations of angioedema and urticaria | 2 |
|  | Totally | 40 |

# Self-educational work

|  |  |  |
| --- | --- | --- |
|  | Subject | Hours |
| 1. | Preparation to practical classes (home task). | 18 |
| 2. | Diagnostic algorithms in hemorrhagic syndrome. | 10 |
| 3. | Making up and interpretation of the results of CBC in hematological diseases | 6 |
| 4. | Algorithms of emergency care for patients with hematological diseases | 6 |
|  | Totally | 40 |

THEME PLAN

**of Practical Lessons of the Discipline “Forensic Medicine”**

**for Students of the III Year Study**

**of the Dentistry Department of Lviv State Medical University Named by Danylo Halytsky**

**on 2012-2013 Study Year**

|  |  |  |
| --- | --- | --- |
| **#** | **Hours** | **Theme** |
| 1. | 2 | The subject of forensic medicine. Organizational and juridical basis of carrying of medico-legal examination |
| 2. | 2 | Forensic tanatology. External examination of a corpse at a scène of death |
| 3. | 2 | Forensic autopsy. |
| 4. | 2 | Manner and mechanisms of death. Forensic diagnosis. Death certification |
| 5. | 2 | Medico-legal examination of cases of sudden unexpected death |
| 6. | 2 | Identification of unknown persons. Forensic dentistry |
| 7. | 2 | Medico-legal aspects of trauma. Classification and description of wounds. Blunt and sharp forced trauma |
| 8. | 2 | Estimation and qualification of body injuries according the existing legislation. Determination of the degree of body injuries. |
| 9. | 2 | Head and heck trauma. Damages of the face. Injuries of central nervous system |
| 10. | 2 | Forensic examination of firearms injuries |
| 11. | 2 | Mechanical asphyxia. Drowning and immersion |
| 12. | 2 | Forensic examination of traffic injuries |
| 13. | 2 | Forensic toxicology. Poisonings. Drugs abuse. Acute and chronic alcohol intoxication. |
| 14. | 2 | Medico-legal expertise of material evidences of biological origin |
| 15. | 2 | Final module control |
|  | **30 hours** |  |

THEME PLAN

of Individual Work

|  |  |  |
| --- | --- | --- |
| **#** | **Hours** | **Theme** |
| 1. | 2 hours | Theoretical training and development of practical skills |
| 2. | 1 hour | Peculiarities of forensic medicine in country of students residence |
| 3. | 1 hour | Medico-legal (dental) expertise of an age an health of a person |
| 4. | 1 hour | Forensic examination of injuries caused by environmental factors |
| 5. | 1 hour | Forensic and criminalistic methods of examination |
| 6. | 2 hours | Preparing for the final module control |
|  | **8 hours** |  |

**Plans of lectures, practical lessons, out of class work and individual work in discipline „Therapeutic Dentistry” for 3-rd year**

**English-medium students (5-rd term)**

**Credit-Module System**

**LECTURES (16 hours)**

|  |  |  |  |
| --- | --- | --- | --- |
| № | **Topic of the lecture** | **Hours** | **Date** |
| 1. | Methods of patient assessment and anesthesia in clinic of therapeutic dentistry. | 2 | 07.09 |
| 2. | Dental caries. Statistical indices. Influence of the environmental factors on the caries development. Classification of dental caries. | 2 | 21.09 |
| 3. | Biology of dental hard tissues. Pathological anatomy and pathohistology of caries. | 2 | 05.10 |
| 4. | Theories of caries origin. Modern attitude to the etiology and pathogenesis of dental caries. | 2 | 19.10 |
| 5. | Clinic, diagnosis and differential diagnosis of dental caries. | 2 | 02.11 |
| 6. | General treatment of dental caries. Mistakes and complications in caries treatment. Prevention of dental caries. | 2 | 16.11 |
| 7. | Non-carious tooth defects. Classification. Inheritable and inborn defects of dental hard tissues. Classification. Clinic, diagnosis, treatment and prevention. | 2 | 30.11 |
| 8. | Acquired non-carious tooth defects. Classification. Clinic, diagnosis, treatment. | 2 | 14.12 |

**PRACTICAL LESSONS**

**Module: 1: „Diseases of the tooth hard tissues and endodontium”– 9 credits (270 hours): lectures – 30 hours, practical lessons – 150 hours, out of class work – 90 hours**

Module № 1.

Examination of the patients with the diseases of the hard tooth tissues

|  |  |  |  |
| --- | --- | --- | --- |
| **№** | **Topic** | **Pract.**  **lessons** | **Individual work** |
| 1. | Structure and equipment of the dental clinic. Ethics and deontology in dentistry. Prevention of accidents. | 4 | Review of scientific and professional literature, preparation of the written work and carrying on scientific investigation |
| 2. | Methods of clinical examination of dental patient, their role in the diagnostics of the diseases of oral cavity. The description of the pain syndrome in different diseases. | 4 |
| 3. | Additional methods of diagnostics. Electric pulp test (EPT), radiographic, luminescence and transilluminational examination. Diagnostics tests. Laboratory investigations. | 4 |
| 4. | Medical Dental documentation. Medical history report – as medical, scientific and legal document. | 4 |
| 5. | Dental deposits, their types. Mechanism of development, structure, chemical composition, microbiology. Professional hygiene of oral cavity, estimation of its efficiency and the role in the prophylaxis of dental diseases. | 4 |
| 6. | Anesthesia in therapeutic dentistry, types, methods, equipment, indications for use. | 4 |
| 7. | Medical aid in emergency. Module control №1. | 4 |

Module № 2

Caries and non-caries lesions of the teeth

|  |  |  |  |
| --- | --- | --- | --- |
| **№** | **Topic** | **Pract.**  **lessons** | **Individual work** |
| 8. | Dental caries. Definition. Statistical indices. Classification of dental caries. | 4 | Review of scientific and professional literature, preparation of the written work and carrying on scientific investigation |
| 9. | Modern views on the etiology and pathogenesis of dental caries. | 4 |
| 10. | Acute and chronic caries incipient caries (macula cariosa). Pathomorphology, clinic, diagnosis, differential diagnosis, treatment. Medications and methods of remineralizational therapy. | 4 |
| 11. | Acute and chronic superficial caries. Pathomorphology, clinic, diagnosis, differential diagnosis, treatment. | 4 |
| 12. | Acute and chronic middle caries. Pathomorphology, clinic, diagnosis, differential diagnosis, treatment. | 4 |
| 13. | Acute deep (profound) caries. Pathomorphology, clinic, diagnosis, differential diagnosis. One-visit and two-visits methods of treatment. Treatment pastes for indirect pulp capping: groups, properties, peculiarities of application. General treatment of dental caries. | 4 |
| 14. | Generalized caries. clinic, diagnosis, differential diagnosis, peculiarities of treatment. Secondary caries of devitalized and vital teeth. Clinic, diagnosis, differential diagnosis, peculiarities of treatment. | 4 |
| 15. | Mistakes and complications in caries diagnosis and treatment. | 4 |
| 16. | Prophylactic of dental caries. The role of individual and social preventive measures. | 4 |
| 17. | Hereditary (inheritable) and congenital injuries of dental hard tissues. Classification, etiology, clinic, differential diagnosis, treatment. | 4 |
| 18. | Acquired injuries of dental hard tissues of non-carious origin. Classification, etiology, clinic, differential diagnosis, treatment. | 4 |
| 19. | Methods and instruments of dental prophylactics. Organization of dental hygiene for pregnant women. Estimation of the measures efficiency. Module control №2. | 4 |

**OUT OF CLASS WORK (45 hours)**

|  |  |  |  |
| --- | --- | --- | --- |
| **№** | **Topic** | **Hours** | **Type of control** |
| 1. | Preparation for practical lessons: theoretical and practical skills training. | 34 | Control at practical lessons |
| 2. | Independent work with the topics not including into practical lessons:   * Cases of emergency in therapeutic dentistry, the cause of development, clinical signs (symptoms). Rendering of the first aid. * Methods of teeth isolation during the treatment. Rubber dam set: composition, indication for use. Stages of Rubber dam application according to different clinical situations. * Recommendations in rational nutrition for the patients with generalized caries. * Teeth bleaching, systematization of applied methods. Indications and contraindication for different types of bleaching. * Clinical estimations of the quality of dental fillings. * Final finishing of the filling. Correction and polishing of the filling. * The concept of tooth restoration. Planning of the restoration. Instruments and materials which are used for restoration. | 1  1  1  1  1  1  1 | Module control |
| 3. | Preparation for the module control – theoretical and practical skills training. | 4 | Testing of the preparation for module control #1, #2 |

**INDIVIDUAL WORK (3 points)**

|  |  |  |
| --- | --- | --- |
| **№** | **Topic** | **Points** |
| 1. | Modern methods of the working field isolation in dentistry. | 1 |
| 2. | Application of the veneers in therapeutic dentistry. | 1 |
| 3. | Application of the inlays in therapeutic dentistry. | 1 |

**LECTURE lessons schedule of oral surgery  
for English-medium students of the 3rd year education on dental faculty   
in spring semester of 2012-2013 academic year.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **№** | **Topic title** | **Hours** | **Date** | **Responsible Lecturer** |
| 1 | Odontogenic maxillary sinusitis. Classification, etiology, pathogenesis, diagnostics, clinical signs, methods of treatment and prophylaxis, possible complications. | 2 |  | Prof.  Vares Ya.E. |
| 2 | Odontogenic abscesses and phlegmons of maxillofacial area. Classification and clinical signs.Management of facial space infections. | 2 |  | Prof.  Vares Ya.E. |
| 3 | Specific inflammatory diseases of maxillofacial area: actinomicosis, candidosis. Etiology, clinical signs, methods of treatment. AIDS signs in oral cavity. | 2 |  | Prof.  Vares Ya.E. |
| 4 | Acute and chronic salivary gland infections. Obstructive salivary glands diseases. Clinical signs, diagnostics and treatment. | 2 |  | Prof.  Vares Ya.E. |
| 5 | Complications of maxillofacial inflammatory infections. Sepsis, meningitis, cavernous sinus thrombosis, mediastinitis. Reasons, clinical signs. Methods of prevention. | 2 |  | Prof.  Vares Ya.E. |
| Total | | 10 |  |  |

**LECTURE lessons schedule of oral surgery  
for English-medium students of the 3th year education on dental faculty   
in autumn semester of 2012-2013 academic year.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **№** | **Тopic** | **Hоurs** | **Lecturer** | **Date** |
| 1. | Stages of maxillоfacial surgery development.  The history of the Surgical Dentistry and Maxillofacial Surgery in the Danylo Halytsky Lviv National Medical University. Examination of patients and methods of diagnostics in Oral and Maxillofacial surgery. Asepsis and antisepsis. | 2 | Associate Professor, MD, PhD (medecine) Natalya M. Krupnyk | 03.09.2012 |
| 2. | Pain and types of pain.  Anaesthesia in Oral Surgery. General Anaesthesia. Premedication. A neuroleptanalgesia ( NLA ). Ataralgesia. | 2 | Associate Professor, MD, PhD (medecine) Natalya M. Krupnyk | 17.09.2012 |
| 3. | Local Anaesthesia. Types and equipment. Topical Anaesthetics. Injection and noninjection methods. Application and infiltration anaesthesia. Block anaesthesia. Local and General Complications. | 2 | Associate Professor, MD, PhD (medecine) Natalya M. Krupnyk | 01.10.2012 |
| 4. | Tooth Extraction: instruments, indication and contraindications for teeth extraction, treatment planning, tooth extraction technique.Atypical extraction. Extraction of impacted teeth. Complications of tooth extraction. | 2 | Associate Professor, MD, PhD (medecine) Natalya M. Krupnyk | 15.10.2012 |
| 5. | Inflammatory Processes of maxillofacial area and neck. Classifications of the odontogenic inflammatory processes. Periodontitis: etiology, pathogenesis, classification, clinical signs, complications. Odontogenic periostitis of the jaw: etiology, pathogenesis, classification, clinical signs, complications. Osteomielitis of the jaw: etiology, pathogenesis, classification, clinical signs, complications. | 2 | Associate Professor, MD, PhD (medecine) Natalya M. Krupnyk | 29.11.2012 |

**Practical lessons schedule of oral surgery  
for English-medium students of the 3rd year education on dental faculty   
in autumn semester of 2012-2013 academic year.**

|  |  |  |
| --- | --- | --- |
| **№** | **Topic title** | **Hours** |
| 1 | Organization of surgical dental aid. Dental medical documentation. Principles of examination of maxillofacial area and oral cavity. | 3,5 |
| 2 | Principles of asepsis in dentistry. AIDS: diagnostics, clinical signs, prevention in surgical practice. | 3,5 |
| 3 | A notion about pain in medicine, dentistry. A srtucture of trigeminal nerve. General anaesthesia (narcosis) in dental practice: types, peculiarities of administration. Preoperative medications. | 3,5 |
| 4 | Agents, used for local anaesthesia, their pharmacodynamic aspects of action, side effects. Indications for local anaesthesia, its classification. Application, infiltration anaesthesia. | 3,5 |
| 5 | Peripheral conduction anaesthesia of the lower jaw: types, methods (intraoral and extraoral), spread of analgesia. Local complications, their treatment. | 3,5 |
| 6 | Peripheral conduction anaesthesia of the upper jaw: types, methods (intraoral and extraoral), spread of analgesia. Local complications, their treatment. | 3,5 |
| 7 | Central conduction anaesthesia of the jaws. Methods, indications, local complications. | 3,5 |
| 8 | General complications of local anaesthesia, their prevention and treatment. Emergency care, heart & lung reanimation. | 3,5 |
| 9 | Indications and contraindications for the removal of teeth. Patient’s and surgeon’s preparation. Instrumentation. | 3,5 |
| 10 | Specific techniques for removal of maxillary and mandibular teeth. Steps of the procedure. | 3,5 |
| 11 | Basic principles of complicated exodontias. Methods, steps of the procedure. Preparation of patients with concomitant pathology for teeth extraction. Complications of teeth extraction: classification and ways of prevention. | 3,5 |
| 12 | Principles of management of impacted teeth, indications and contraindications for their removal. Surgical procedure of impacted teeth extraction. Pericoronitis: clinical signs, treatment. | 3,5 |
| 13 | Module control. | 3,5 |
| 14 | Inflammatory diseases of maxillofacial area: etiology, pathogenesis, ways of infection spreading, classification. | 3,5 |
| 15 | Classification of periodontitis. Acute periodontitis: clinical signs, diagnostics, surgical treatment, prevention. | 3,5 |
| 16 | Chronic periodontitis: clinical signs, diagnostics, surgical treatment, prevention. Odontogenic granuloma of the face: clinical signs, diagnostics, surgical treatment | 3,5 |
| 17 | Acute and chronic odontogenic periostitis: clinical signs, diagnostics, surgical treatment, complications. | 3,5 |
| 18 | Acute osteomyelitis of the jaws: etiology, pathogenesis, classification. |  |
| 19 | Acute and subacute odontogenic osteomyelitis: clinical signs, differential diagnostics, methods of treatment, prevention, complications. | 3,5 |
| 20 | Chronic odontogenic osteomyelitis: clinical signs, differential diagnostics, methods of treatment, prevention, complications. Peculiarities of jaws osteomyelitis in drug-dependant patients. | 3,5 |
| Total | | 70 |

## THEMATIC PLAN

**Lectures (1-9), Practical Lessons (1-18),**

**Materials (1-3) for self-conducted elaboration (Independent work)**

**on Prosthetic Dentistry, 3trd Year, 5th Semester**

|  |  |  |
| --- | --- | --- |
| № | Themes contents | Acad. hours |
|  | Tooth hard tissue pathology. Diagnosis, treatment modes in teeth preparation. Clinical indications for artificial crowns. | 2 |
|  | Methods of teeth coronal parts reconstruction by post-core systems. | 2 |
|  | Clinical and laboratory stages of treatment: artificial crowns and post-core fabrication. | 2 |
|  | Preparation of teeth for artificial crowns with ceramic and resin veneers. | 2 |
|  | Gingival retraction methods. Temporary crowns and bridge prostheses. | 2 |
|  | The biocompatibility of dental alloys as the important clinical requirement in prosthetic dentistry. | 2 |
|  | Clinical implication and techniques of the dental alloys application. | 2 |
|  | Clinical implication and techniques of the auxilliary materials application. | 2 |
|  | Dental implants-based prosthetic treatment (as an alternative option). | 2 |
|  | ***In total*** | **18** |
| **Module I. Application of the fixed and removable partial dentures** | | |
| Contextual module 1. Specialized patients examination in prosthetic dentistry. Clinical analysis of oclusal status. Anaesthesia. | | |
| 1. | Control of the initial knowledge level. Patients examination in prosthetic dentistry. Clinical methods and means of examination. | 4 |
| 2. | Supplementary (special) methods of examination. Preliminary and conclusive diagnosis. | 4 |
| 3. | Components and characteristics of masticatory system | 4 |
| 4. | Different types of occlusion signs and characteristics | 4 |
| 5. | Analysis of diagnostic models in articulator | 4 |
| 6. | Anaesthesia in prosthetic dentistry. Indications for the different clinical methods. Possible faults and complications: preventive approaches | 4 |
| Contextual module 2. Prosthetic treatment with use of artificial crowns. | | |
| 7. | Indications for the teeth restoration by artificial crowns (single-unit dentures) | 4 |
| 8. | Technology, clinical and laboratory stages of swaged crowns fabrication. Constructional and additional materials. | 4 |
| 9. | Technology, clinical and laboratory stages of combined crowns fabrication. Materials and methods of veneering. | 4 |
| 10. | Technology, clinical and laboratory stages of acrylic crowns fabrication. Constructional and additional materials. | 4 |
| 11. | Technology, clinical and laboratory stages of full cast crowns fabrication. Constructional and additional materials. | 4 |
| 12. | Analysis of possible faults and complications in use of artificial crowns for the prosthetic purposes | 4 |
| Contextual module 3. Fixed partial dentures prosthetics. | | |
| 13. | Clinical indications for the fixed partial (bridge-like) dentures application | 4 |
| 14. | Clinical and laboratory stages of soldered fixed partial dentures manufacturing. | 4 |
| 15. | Indications and clinical stages of metal-ceramic fixed partial dentures application. | 4 |
| 16. | Laboratory stages of metal-ceramic fixed partial dentures manufacturing | 4 |
| 17. | Fixation (luting) of the fixed partial dentures | 4 |
| 18. | Analysis of possible faults and complications in use of the fixed partial dentures: preventive approaches | 4 |
|  | ***In total*** | **72** |
| 1. | Functional anatomy of the maxillary and mandibular teeth crowns. Contemporary materials and techniques of non-removable prosthetic appliances fabrication. | 18 |
| 2. | Clinically-oriented biomechanics of the mandibular movements. | 7 |
| 3. | Comparative characteristics of the contemporary veneering materials utilized in the fabrication of bridge prostheses. | 8 |
|  | ***In total*** | **33** |
|  | ***On aggregate in the Semester*** | **123** |

**on Orthodontics**

**(3th Year, 5th Semester)**

**SELF-INDEPENDENT STUDY**

|  |  |  |
| --- | --- | --- |
| **№** | Assignments | Acad. hrs |
| 1. | Embryogenesis of oro- facial region. | 3 |
| 2. | Special features of the primary dentition stage. | 3 |
| 3. | Special features of mixed dentition stage. | 3 |
| 4. | Special features of permanent dentition stage. | 3 |
| 5. | Orthodontic dispensary groups. | 3 |
| 6. | Measures for prevention malocclusion in I and II dispensary groups. | 3 |
|  | | 12 |
| total |  | 18 |

## THEMATIC PLAN

**Practical Lessons on Orthodontics**

**(3th Year, 5th Semester)**

|  |  |  |
| --- | --- | --- |
| **№** | **Theme of the lesson** | **Hour** |
| 1. | Norm and pathology in orthodontics. Relationship between the form and function. Definition of dentoalveolar “Anomaly” and “Deformation”. Anomalies of teeth, dental arches and occlusion. Risk factors, their classification. | 2 |
| 2. | Embryogenesis of oro-facial region. Risk factors, influencing on malocclusion development during pregnancy. Anatomical and physiological special features of newborn’s oral cavity. Risk factors, influencing on dental development until 6 month of child’s life. | 2 |
| 3. | Peculiarities of malocclusion prevention in the antenatal period. Congenital deformities. Their prevention. Main means of the prevention of malocclusion in the postnatal period. | 2 |
| 4. | Anatomical and physiological peculiarities of oral cavity of new-born child. Risk factors during this period. | 2 |
| 5. | The main means for malocclusion prevention in the postnatal period. | 2 |
| 6. | The first period of primary dentition stage (0,5-2,5 years). Risk factors during this period. Pathological tooth eruption and preventive measures. | 2 |
| 7. | The second period of primary dentition stage (3,5-5 years). Risk factors during this period and their determination. Abnormal harmful habits, their eradication: psychological treatment, treatment with appliances. | 2 |
| 8. | The third period of primary dentition stage (5-6 years). Disturbance of physiological development of the dental occlusion in this stage (disturbance in teeth eruption, absence of physiological diastema and generalized spacings, mesial step and others). Elimination of risk factors. | 2 |
| 9. | Early period of mixed dentition stage (6-9 years). Risk factors. Dental caries and it complications as favorable factors for development of malocclusion. | 2 |
| 10. | Last period of mixed dentition stage 9-12 years). Chronological, bone and dental age, their dependence from sex, hormonal balance, general child’s development. Risk factors in this period, their elimination. | 2 |
| 11. | Risk factors of malocclusion formation in late mixed dentition, their elimination | 2 |
| 12. | Permanent dentition stage (12-15 years), peculiarities of formation. | 2 |
| 13. | Risk factors of malocclusion formation in permanent dentition, their elimination. | 2 |
| 14 | Physiological types of occlusion. The main signs of normal occlusion depending on the age. | 2 |
| 15 | Functions: mastication, deglutition, respiration and speech, their types. Disturbances of these functions as risk factors of malocclusion development. Normalization of these functions – the element of malocclusion prevention. | 2 |
| 16 | Orthodontic dispensary groups, their short characteristics. I and II dispensary groups. The main preventive measures in these groups. | 2 |
| 17 | Organization of the work on malocclusion prevention among medical staff of kinder day nursery, kinder gardens and schools. The coordination of dentist’s preventive work with other specialists. | 2 |
| 18 | Summary lesson | 2 |
| Total |  | 36 |

**Thematic schedule of lectures WS 2012**

**«Bioethics and biosafety» for foreign students, 3rd Year,**

**Dentistry Faculty, Groups 3-5**

**5th Semester, 2012-2013 academic year**

|  |  |  |  |
| --- | --- | --- | --- |
| **№**  **of lectures** | **Topics** | **Hours** | **MONDAY** |
| 1. | Historical roots of bioethics.  Epistemology and ethical/cultural models of bioethics.  Philosophical foundations of bioethics.  Bioethical background in the vocation of the physician/dentist.  Moral aspects of artificial reproductive technologies and attempts of human cloning. Alternative to In Vitro Fertilization (IFV) – NaProTechnologies (Natural Procreation Technologies) . | 1  1 | **24.09** |
| 2. | Right to life from the moment of conception till natural death. Bioethical aspects of demography. Abortion. Healing of Post-Abortion Syndrome (PAS).  Problem of euthanasia in the context of bioethics. Palliative care as the alternative to euthanasia. | 1  1 | **22.10** |
| 3. | Contraception and its alternative – Fertility Awareness Methods (FAM). | 2 | **19.11** |
| **Altogether** |  | **6** |  |

**Thematic schedule of practical lessons, WS 2012**

**«Bioethics and biosafety» for foreign students, 3rd Year, Dentistry Faculty, Groups 3-5. 5th Semester,**

**2012-2013 academic year**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **№** | **Topics** | **Hours** | **Monday** | **Tuesday** | **Friday** |
|  | **5** | **3** | **4** |
| 1 | Historical roots of bioethics.  Epistemology and ethical/cultural models of bioethics.  Philosophical foundations of bioethics.  Bioethical background in the vocation of the physician/dentist. | 2 | 03.09 | 04.09 | 07.09 |
| 2 | Status quo and perspectives of Bioethics in Ukraine. Impact of Bioethics on the activities of Health structures in Ukraine. | 2 | 17.09 | 18.09 | 21.09 |
| 3 | Right to life from the moment of conception till natural death. Bioethical aspects of demography. Abortion. Healing of Post-Abortion Syndrome (PAS). | 2 | 01.10 | 02.10 | 05.10 |
| 4 | Contraception and its alternative – Fertility Awareness Methods (FAM). | 2 | 15.10 | 16.10 | 19.10 |
| 5 | Moral aspects of artificial reproductive technologies and attempts of human cloning. Alternative to In Vitro Fertilization (IFV) – NaProTechnologies (Natural Procreation Technologies) .  Bioethical problems of using stem cells.  Bioethical criteria of admissibility of biomedical manipulations and genetic engineering. Bioethics and ecology. | 2 | 29.10 | 30.10 | 02.11 |
| 6 | Biosafety issues in the context of bioethics.  Problems of application of new biotechnologies in the context of human dignity, integrity and identity.  Genetically modified foods and their consequences – potential risk for human health, life and environment. | 2 | 12.11 | 13.11 | 16.11 |
| 7 | Informed consent and experiments on human persons. Ethical aspects of clinical testing of drugs. Manipulations with the mental health of human persons. The task and functions of Bioethical Committees. | 2 | 26.11 | 27.11 | 30.11 |
| 8 | Bioethics and organ transplantation. Moral aspects of donation of organs and tissues in the context of bioethics. General Principles of transplantation. | 2 | 10.12 | 11.12 | 14.12 |
| 9 | Problem of euthanasia in the context of bioethics. Palliative care as the alternative to euthanasia. | 2 | 24.12 | 25.12 | 28.12 |
| 10 | Bioethical aspects of alcoholism prevention. Tobacco, its production and trade as bioethical issue. | 2 | 14.01 | 15.01 | 18.01 |
| 11 | Drug abuse prevention, rehabilitation and resocialization of drug addicted as bioethical issue.  Bioethical principles of AIDS prevention and treatment of HIV-infected persons. | 2 |  |  |  |
| 12 | Bioethics and social problems. Bioethical aspects of disease. Transsexualism and correction of sexual orientation. Ethical aspects of homosexuality.  Moral aspects of war. Moral evaluation of capital punishment. The influence of mass media on bioethical formation of human persons. | 2 |  |  |  |
|  | **Altogether** | **24** |  |  |  |

**Thematic schedule of individual studies, WS 2012**

**«Bioethics and biosafety» for foreign students, 3rd Year, Dentistry Faculty, Groups 3-5. 5th Semester,**

**2012-2013 academic year**

|  |  |  |
| --- | --- | --- |
| **№** | **Topics** | **Hours** |
|  |
| 1 | Historical roots of bioethics.  Epistemology and ethical/cultural models of bioethics.  Philosophical foundations of bioethics.  Bioethical background in the vocation of the physician/dentist. | 1 |
| 2 | Status quo and perspectives of Bioethics in Ukraine. Impact of Bioethics on the activities of Health structures in Ukraine. | 1 |
| 3 | Right to life from the moment of conception till natural death. Bioethical aspects of demography. Abortion. Healing of Post-Abortion Syndrome (PAS). | 1 |
| 4 | Contraception and its alternative – Fertility Awareness Methods (FAM). | 1 |
| 5 | Moral aspects of artificial reproductive technologies and attempts of human cloning. Alternative to In Vitro Fertilization (IFV) – NaProTechnologies (Natural Procreation Technologies) .  Bioethical problems of using stem cells.  Bioethical criteria of admissibility of biomedical manipulations and genetic engineering. Bioethics and ecology. | 1 |
| 6 | Biosafety issues in the context of bioethics.  Problems of application of new biotechnologies in the context of human dignity, integrity and identity.  Genetically modified foods and their consequences – potential risk for human health, life and environment. | 1 |
| 7 | Informed consent and experiments on human persons. Ethical aspects of clinical testing of drugs. Manipulations with the mental health of human persons. The task and functions of Bioethical Committees. | 1 |
| 8 | Bioethics and organ transplantation. Moral aspects of donation of organs and tissues in the context of bioethics. General Principles of transplantation. | 1 |
| 9 | Problem of euthanasia in the context of bioethics. Palliative care as the alternative to euthanasia. | 1 |
| 10 | Bioethical aspects of alcoholism prevention. Tobacco, its production and trade as bioethical issue. | 1 |
| 11 | Drug abuse prevention, rehabilitation and resocialization of drug addicted as bioethical issue.  Bioethical principles of AIDS prevention and treatment of HIV-infected persons. | 1 |
| 12 | Bioethics and social problems. Bioethical aspects of disease. Transsexualism and correction of sexual orientation. Ethical aspects of homosexuality.  Moral aspects of war. Moral evaluation of capital punishment. The influence of mass media on bioethical formation of human persons. | 1 |
|  | **Altogether** | **12** |