BIO - DEPARTMENT OF BIOLOGY

BIO/VAA11 Biology

Con Přednáška 30 [hrs/sem] + Cvičení 45 [hrs/sem]

doc. RNDr. Vladimír Divoký, Ph.D.

The teaching program is focused on knowledge of aspects of general biology necessary for further study of specialized medical branches. After passing the examination, the student is better able to understand the medical aspects which require knowledge of general biological principles, morphological and functional cytology.

BIO/VAB11

Biology

13 cr. Con,Ex

 $0 \, \mathrm{cr}$

Přednáška 30 [hrs/sem] + Cvičení 45 [hrs/sem]

Avail. sem.: W

doc. RNDr. Vladimír Divoký, Ph.D.

Avail. sem.: S

The subject enables students to understand elementary cellular processes and rules controlling reproduction of cells and organisms. The knowledge is essential for further study of medicine as well as for clinical practice.

Qualifying courses:

BIO/VAA11

BIO/ZAA11

Biology and Genetics

 $0 \, \mathrm{cr}$ Con

Přednáška 30 [hrs/sem] + Cvičení 45 [hrs/sem]

doc. RNDr. Vladimír Divoký, Ph.D.

Avail. sem.: W

The subject advances the subject matter of secondary school biology and extends the students' knowledge of cellular biology and genetics, focused on human organism. The practicum is designed to help students to understand the links between dysfunctional biological processes and development of human diseases.

BIO/ZAB11

Biology and Genetics

9 cr. Con,Ex

Přednáška 30 [hrs/sem] + Seminář 45 [hrs/sem]

doc. RNDr. Vladimír Divoký, Ph.D.

The subject advances the subject matter of secondary school genetics and extends the students' knowledge of genetics with special attention to human genetics. The seminars are designed to teach students how to use theoretical genetics in clinical medicine.

Qualifying courses:

BIO/ZAA11

CJA – DEPARTMENT OF FOREIGN LANGUAGES

CJA/VAA41

Czech I

0 cr. Con

Seminář 60 [hrs/sem]

Mgr. Dagmar Hrabalová

Avail. sem.: W

Acquisition of basic communication strategies, language structures and vocabulary in order to speak the language in everyday life situations; making students familiar with basic linguistic terminology and with the basic grammar structure of the Czech language.

CJA/VAA42

Czech II

0 cr. Con

Seminář 60 [hrs/sem]

Mgr. Lenka Podhorná

Avail. sem.: W

Acquisition of basic communication strategies, language structures and vocabulary in order to speak the language in everyday life situations; making students familiar with basic linguistic terminology and with the basic grammar structure of the Czech language.

Qualifying courses:

CJA/VAB41, LCH/VAA11, BIO/VAB11, CJA/VA031, LBF/VAB11, KAR/VAB11, NAN/VAB13, NAN/VAA13, LCH/VAB20, HIE/VAB11,

PVL/VAB71 PVL/VAB72 nebo SOL/VAB70

CJA/VAA43 $Czech\ III$

Con 0 cr.Seminář 30 [hrs/sem]

Mgr. Dagmar Hrabalová

Avail. sem.: W

Improving the knowledge of basic Czech and making students familiar with the basic medical terminology; learning to read and understand simple medical texts in the Czech language.

Qualifying courses:

CJA/VAB42

CJA/VAB31 Latin and Medical Terminology

4 cr. Con.Ex Seminář 30 [hrs/sem] Mgr. Petra Nováčková

Learning the fundamentals of Latin morphology; knowledge of Latin and Greek suffixes and prefixes; ability to understand the composed terms; ability to make simple diagnoses.

CJA/VAB41

Czech I

6 cr. Con.Ex Seminář 60 [hrs/sem]

Avail. sem.: W/S

Mgr. Dagmar Hrabalová

Avail. sem.: S

Acquisition of basic communication strategies, language structures and vocabulary in order to speak the language in everyday life situations; making students familiar with basic linguistic terminology and with the basic grammar structure of the Czech language.

Qualifying courses:

CJA/VAA41

CJA/VAB42

Czech II

6 cr. Con,Ex

Seminář 60 [hrs/sem]

Mgr. Lenka Podhorná

Avail. sem.: S

Acquisition of basic communication strategies, language structures and vocabulary in order to speak the language in everyday life situations; making students familiar with basic linguistic terminology and with the basic grammar structure of the Czech language.

Qualifying courses:

CJA/VAB43

CJA/VAA42,

CJA/VA031,

BIO/VAB11, CJA/VAB41, LBF/VAA11, LCH/VAA11, NAN/VAA13, HIE/VAB11, KAR/VAB11, LCH/VAB20,

NAN/VAB13, LBF/VAB11, PVL/VAB71 nebo PVL/VAB72

SOL/VAB70

nebo Czech III

6 cr. Con, Ex

Seminář 30 [hrs/sem]

Mgr. Dagmar Hrabalová

Avail. sem.: S

Improving the knowledge of basic Czech and making students familiar with the basic medical terminology; learning to read and understand simple medical texts in the Czech language.

Qualifying courses:

CJA/VAA43, CJA/VAB42

CJA/VA031

Latin and Medical Terminology

3 cr. Con.Ex Seminář 30 [hrs/sem]

Avail. sem.: W/S

Mgr. Petra Nováčková

Learning the fundamentals of Latin morphology; knowledge of Latin and Greek suffixes and prefixes; ability to understand the composed terms; ability to make simple diagnoses.

CJA/ZAA41

Czech 1

0 cr. Con Seminář 90 [hrs/sem]

Mgr. Lenka Podhorná

Avail. sem.: W

Teaching by objectives, correct pronunciation, drilling vocabulary, practising grammatical structures, making students familiar with the basic dental terminology a with basic examination instructions.

CJA/ZAA42

Czech 2

0 crCon Seminář 30 [hrs/sem]

Mgr. Aleš Manda

Avail. sem.: W

Teaching by objectives, correct pronunciation, drilling vocabulary, practising grammatical structures, making students familiar with the basic dental terminology a with basic examination instructions.

Qualifying courses:

HIE/ZAB11

CJA/ZAB41

Czech 1

10 cr. Con,Ex Seminář 90 [hrs/sem]

Mgr. Lenka Podhorná Avail. sem.: S

Teaching by objectives, correct pronunciation, drilling vocabulary, practising grammatical structures, making students familiar with the basic dental terminology a with basic examination instructions.

Qualifying courses:

CJA/ZAA41

CJA/ZAB42

Czech 2

4 cr. Con,Ex

Con

Seminář 30 [hrs/sem]

Mgr. Aleš Manda Avail. sem.: S

Teaching by objectives, correct pronunciation, drilling vocabulary, practising grammatical structures, making students familiar with the basic dental terminology a with basic examination instructions.

Qualifying courses:

CJA/ZAA42, CJA/ZAB41, BIO/ZAB11, LBF/ZAB11, LCH/ZAA11, NAN/ZAB11, CJA/ZAA41, ST1/ZAA40, ST1/ZAB40, ST1/ZAB01, HIE/ZAB11, KAR/VAB11

DET – DEPARTMENT OF PEDIATRICS

DET/VABP2

Pediatrics-Clinical Training

Praxe 2 [wks/sem] Avail. sem.: S

1 cr.

prof. MUDr. František Kopřiva, Ph.D.

Practical education of pediatrics is organized by the Department of Pediatrics (2 weeks). During the stay in the Department of Pediatrics (1 week) student will spent one week working directly on the site with the patients. Student will be involved in to the ward rounds and will be assisting at the diagnostic and therapeutic procedures. Student will work with documentation, and interpretation of laboratory examinations will be important part of the stay. In the second part of the practical education

student will work with general practitioner (1 week) and under his/her careful supervision will be introduced into the curative and preventive care and vaccination.

Qualifying courses: MIK/VAA12, FAR/VAB11, IN2/VAB21 nebo IN2/VAB22, PAT/VAB11, PFY/VAB11, KIM/VAB11 nebo KIM/VAB12,

IN0/VAB11 nebo IN2/VAA11

DET/VAB11

Pediatrics I

3 cr. Con

Cvičení 20 [hrs/sem] + Seminář 10 [hrs/sem] Avail. sem.: W/S

prof. MUDr. Vladimír Mihál, CSc.

Acquisition of basic theoretical knowledge and practical skills for evaluation of all components of childhood development in individual age categories, the ability to recognize common childhood diseases, interpretation of laboratory findings, knowledge of principles of correct nutrition and complex care of the child. Pediatric clinical methods as a prerequisite for the understanding of the particulars of childhood diseases. Practical training is focused on mastering of basic simple diagnostic and treatment procedures (blood collection, vaccination, probing).

Qualifying courses: IN2/VAA11, MIK/VAA12, PVL/VAB13 nebo PVL/VAB14

nebo KIM/VAB12 , CJA/VAB43 nebo CJA/VAB44

DET/VA011 Pediatrics

6 cr. Con

Cvičení 104 [hrs/sem] + Seminář 34 [hrs/sem]

MUDr. Barbora Ludíková, Ph.D., prof. MUDr. Dagmar Pospíšilová, Avail. sem.: W/S

Ph.D.

Acquisition of basic theoretical knowledge and practical skills through assessing all components of children's development in the individual age groups, the ability to recognize common childhood diseases in accordance with the principles of evidence-based medicine (EBM). After finishing the courses, students must be able to master the issue of health and illness of a human individual from birth to adulthood. They will be able to examine a child or an adolescent independently and expertly, to assess his/her development in all its components, to find eventual abnormalities. Within the scope of primary and secondary prevention they will master the procedures of preventive check-ups, the day-to-day functioning of the ward including the regime of night

emergency. They will recognize a pathological finding when performing physical examination on the basis of which they should be able to indicate laboratory and other auxiliary examinations and interpret their results. They will master general principles as well as singularities of childhood pharmacotherapy, rehabilitation care and psychological support, also with regard to family, school and social environment. The rigorous state examination also involves assessment of a written presentation of a child patient examined by the student (case report) and the search of recent literary resources in accordance with the principles of EBM. During practical instruction, the students will autonomously deal with diagnosis and treatment in a particular case study of virtual child patients using multimedia study support created for this purpose. Within the scope of the teaching block, students will also undergo practical training with the SimJunior realistic whole- body simulator for the virtual instruction of

clinical paediatric skills using several simulated clinical conditions.

Qualifying courses: DET/VABP2, FAR/VAA11 nebo FAR/VAA12 nebo

FAR/VAA13

DET/VA012 Pediatrics II 7 cr. Con

Cvičení 90 [hrs/sem] + Seminář 30 [hrs/sem]

Avail. sem.: W/S

Avail. sem.: W/S

Con

2 cr.

prof. MUDr. Dagmar Pospíšilová, Ph.D.

After completing this course, the students will gain an understanding of the issue of human health and illness from birth to adulthood. They will be able to perform a qualified and independent examination of a child or an adolescent patient and to assess his or her development from all aspects as well as to find eventual abnormalities. Within the scope of primary and secondary prevention, they will become familiar with the routine of preventive check-ups. They will be able to recognize pathological findings during physical examination, to indicate laboratory and other complementary exams and to interpret their results. They will understand general principles as well as singularities of paediatric pharmacotherapy, rehabilitation care and psychological support, also with regard to the family, school and social background. The state rigorosum exam includes the assessment of the student's written report of the examination of a paediatric patient (case report) and of the student's ability to utilize current medical literature sources according to evidence-based medicine (EBM) principles.

Qualifying courses: DET/VABP2, DET/VAB11

DET/VA014 Pediatrics 6 cr. Con

Seminář 34 [hrs/sem] + Cvičení 104 [hrs/sem] + Praxe 60 [hrs/sem] MUDr. Barbora Ludíková, Ph.D., prof. MUDr. Dagmar Pospíšilová, Avail. sem.: W/S

Ph.D.

Acquisition of basic theoretical knowledge and practical skills through assessing all components of children's development in the individual age groups, the ability to recognize common childhood diseases in accordance with the principles of evidence-based medicine (EBM).

Qualifying courses: FAR/VAA11 nebo FAR/VAA12 nebo FAR/VAA13,

MIK/VAA12

DET/VA091 Pediatrics 0 cr. Sri

prof. MUDr. Dagmar Pospíšilová, Ph.D.

The examination verifies ability to utilize general as well as specialized knowledge of Pediatrics, qualification to examine a child's progress and state of health including evaluation of anomalies and influence of family, school and social environment.

Qualifying courses: DET/VA011 nebo DET/VA012 nebo DET/VA014 , DET/VABP2 nebo DET/VA014

DET/ZAA12 Pediatrics 2 cr. Co

Cvičení 15 [hrs/sem] + Seminář 15 [hrs/sem]

MUDr. Barbora Ludíková, Ph.D. Avail. sem.: W

Theoretical and practical education is focused on the basics of paediatrics, diagnostics and therapy of the most common children diseases, especially with accent on the oral cavity. Another goal is inform and introduce students into the children emergency medicine they could meet in dentistry.

DGZ - CENTER OF DIGITAL HEALTHCARE

DGZ/VA011 Basics of Digital Medicine 2 cr. Con,Ex

Cvičení 15 [hrs/sem] + Seminář 15 [hrs/sem]

Ing. Antonín Hlavinka, doc. MUDr. Eva Klásková, Ph.D., prof. MUDr. Avail. sem.: W/S

Miloš Táborský, CSc., FESC, MBA

The aim of the course is to acquaint students of the General Medicine with the basic principles of digital medicine of the third millennium. Emphasis is placed on mastering the basic IT principles, including IT security, legal and technical aspects, as well as on the use in everyday clinical practice in fields and diagnoses where digital medicine, resp. telemedicine brings clear benefits to the patient, healthcare facilities and healthcare payers.

Qualifying courses: PAT/VAB11, PFY/VAB11

DLF – DEAN'S OFFICE OF THE FACULTY OF MEDICINE AND DENTISTRY

DLF/VC051 Student Research - Active Participat. 1

doc. MUDr. Eva Klásková, Ph.D., prof. RNDr. Hana Kolářová, CSc., MDDr. Iva Voborná, Ph.D.

Active participation of undergraduate students in research activities of departments within the Medical school. Students are involved in experimental work, data collection and analysis, including clinical data of patients. Students are familiarized with the scientific work and may initiate their scientific career.

DLF/VC052

Student Research - Active Participat. 2

Con

doc. MUDr. Eva Klásková, Ph.D., prof. RNDr. Hana Kolářová, CSc.,

Avail. sem.: W/S

Avail. sem.: W/S

MDDr. Iva Voborná, Ph.D.

Active participation of undergraduate students in research activities of departments within the Medical school. Students are involved in experimental work, data collection and analysis, including clinical data of patients. Students are familiarized with the scientific work and may initiate their scientific career.

DLF/VC053

Student Research-Active Participation 3

2 cr. Con

doc. MUDr. Eva Klásková, Ph.D., prof. RNDr. Hana Kolářová, CSc.,

Avail. sem.: W/S

MDDr. Iva Voborná, Ph.D.

Active participation of undergraduate students in research activities of departments within the Medical school. Students are involved in experimental work, data collection and analysis, including clinical data of patients. Students are familiarized with the scientific work and may initiate their scientific career.

FAR - DEPARTMENT OF PHARMACOLOGY

FAR/VAA11 Pharmacology 2 5 cr. Con,Ex

Přednáška 30 [hrs/sem] + Cvičení 45 [hrs/sem]

doc. MUDr. Karel Urbánek, Ph.D.

Avail. sem.: W

The student should be familiar with special pharmacology including principles of pharmacotherapy, drug adverse effects, important drug interactions and principles of pharmacotherapy in special age groups of patients.

Qualifying courses:

MIK/VAA12, PAT/VAB11, PFY/VAB11, FAR/VAB11

FAR/VAA12

Pharmacology 2

6 cr. Con.Ex

Přednáška 30 [hrs/sem] + Cvičení 45 [hrs/sem]

doc. MUDr. Karel Urbánek, Ph.D.

Avail. sem.: W

The student should be familiar with special pharmacology including principles of pharmacotherapy, drug adverse effects, important drug interactions and principles of pharmacotherapy in special age groups of patients.

Qualifying courses:

MIK/VAA12, PAT/VAB11, PFY/VAB11, FAR/VAB11

FAR/VAB11

Pharmacology 1

3 cr. Con

Přednáška 30 [hrs/sem] + Cvičení 45 [hrs/sem]

doc. MUDr. Karel Urbánek, Ph.D.

The student is to know drug nomenclature, principles of prescription and important drug formulations. He should be familiar with basic principles of pharmacokinetics and pharmacodynamics, types of drug adverse effects and interactions; from the special topics mainly the pharmacology of vegetative nervous system and central nervous system.

Qualifying courses:

NAN/VAA12 nebo

NAN/VAB13, HIE/VAA12, FYZ/VAB11 FYZ/VAB12, LCH/VAA20 nebo

LCH/VAB21,

MIK/VAA12

FAR/VAB21

Clinical Pharmacology

2 cr. Co

Seminář 30 [hrs/sem]

doc. MUDr. Karel Urbánek, Ph.D.

Avail. sem.: S

The student is to know basic principles of clinical pharmacology in clinical medicine. He should be familiar with the use of therapeutic drug monitoring and methods of solution of the drug-related problems connected with adverse effects and drug interactions. The student should be familiar with proper pharmacotherapy in the most important diseases and principles of pharmacotherapy in special groups of patients.

Qualifying courses:

FAR/VAB11, PFY/VAB11, FAR/VAA11 nebo FAR/VAA12

FAR/VAA13

FAR/VA042

Modern Biologic and Hormonal Pharmac...

2 cr. Co

Seminář 8 [hrs/sem]

doc. MUDr. Karel Urbánek, Ph.D.

The aim of the course is to acquaint students with the latest developments in the field of biological and hormonal pharmacotherapy in internal medicine and oncology. The course is designed primarily for students who want to study during and after profiling in fields in which it has in recent years introduced biological and hormonal therapy.

Qualifying courses: FAR/VAA11 nebo FAR/VAA12 nebo FAR/VAA13,

FAR/VAB11

FAR/ZAA11 Pharmacology

0 cr. Con

Avail. sem.: W

Seminář 45 [hrs/sem]

prof. MUDr. Rostislav Večeřa, Ph.D.

Avail. sem.: W

The student is to be able to prescribe correctly all basic drug forms, both from the group of factory made and individually prepared drugs. The student should be familiar with basic principles of drug pharmacokinetics and pharmacodynamics.

FAR/ZAA21 Clinical Pharmacology

1 cr. Co

Seminář 15 [hrs/sem]

prof. MUDr. Rostislav Večeřa, Ph.D.

Avail. sem.: W

The student will gain knowledge of the main pharmacotherapeutic groups and their use in the pathologic conditions, also about drug side effects and interactions, and about principles of drug clinical trials and the practical use of clinical pharmacology.

FAR/ZAB12 Pharmacology

6 cr. Con,Ex Seminář 45 [hrs/sem]

prof. MUDr. Rostislav Večeřa, Ph.D.

Avail. sem.: S

The student should be familiar with basic principles of general pharmacology; have a basic knowledge of pharmacology of major drug groups in the dentistry practice (analgetics, antibiotics, local anesthetics, etc.).

Qualifying courses:

FAR/ZAA11

FYZ – DEPARTMENT OF PHYSIOLOGY

FYZ/VAA11 Physiology

0 cr. Con

Přednáška 45 [hrs/sem] + Cvičení 60 [hrs/sem]

MUDr. PharmDr. Lenka Bartošíková, Ph.D.

Avail. sem.: W

The broad goal of the teaching of undergraduate students in physiology aims at providing the student comprehensive knowledge of the normal functions of the organ systems of the body to facilitate an understanding of the physiological basis of health and diseases.

Qualifying courses:

BIO/VAB11, LBF/VAB11, CJA/VAB41, CJA/VA031, LCH/VAA11,

NAN/VAB13, NAN/VAA13, LCH/VAB20, PVL/VAB71 nebo

CJA/VAA41, LBF/VAA11, HIE/VAB11

FYZ/VAB12

Physiology

16 cr. Con,Ex

Přednáška 45 [hrs/sem] + Cvičení 60 [hrs/sem]

MUDr. PharmDr. Lenka Bartošíková, Ph.D.

Avail. sem.: S

The broad goal of the teaching of undergraduate students in physiology aims at providing the student comprehensive knowledge of the normal functions of the organ systems of the body to facilitate an understanding of the physiological basis of health and diseases.

Qualifying courses:

FYZ/VAA11, CJA/VA031, BIO/VAB11, CJA/VAB41, LBF/VAA11, LCH/VAA11, NAN/VAA13, PVL/VAB71 nebo PVL/VAB72

nebo SOL/VAB70, KAR/VAB11, HIE/VAB11, LCH/VAB20,

LBF/VAB11, CJA/VAA41, BIO/VAA11, NAN/VAB13

FYZ/ZAA11

Physiology

0 cr. Con

Přednáška 30 [hrs/sem] + Cvičení 30 [hrs/sem]

MUDr. PharmDr. Lenka Bartošíková, Ph.D.

Avail. sem.: W

The broad goal of the teaching of undergraduate students in physiology aims at providing the student comprehensive knowledge of the normal functions of the organ systems of the body to facilitate an understanding of the physiological basis of health

and diseases.

LBF/ZAB11, LCH/ZAA11, BIO/ZAB11, NAN/ZAB11, CJA/ZAB41, Qualifying courses:

> HIE/ZAB11, KAR/VAB11, ST1/ZAA40, ST1/ZAB40, ST1/ZAB01,

CJA/ZAA41

FYZ/ZAB11 Physiology 9 cr. Con.Ex

Přednáška 30 [hrs/sem] + Cvičení 30 [hrs/sem]

MUDr. PharmDr. Lenka Bartošíková, Ph.D. Avail. sem.: S

The broad goal of the teaching of undergraduate students in physiology aims at providing the student comprehensive knowledge of the normal functions of the organ systems of the body to facilitate an understanding of the physiological basis of health and diseases.

Qualifying courses:

LBF/ZAB11, LCH/ZAA11, BIO/ZAB11, CJA/ZAB41, NAN/ZAB11, CJA/ZAA41, ST1/ZAA40, ST1/ZAB40, ST1/ZAB01,

HIE/ZAB11, KAR/VAB11

HEO - DEPARTMENT OF HEMATO-ONCOLOGY

HEO/VA061 Communication Skills for Challenging... 2 cr. Co

Přednáška 3 [hrs/sem] + Cvičení 3 [hrs/sem]

prof. MUDr. Vít Procházka, Ph.D.

Avail. sem.: W/S

The course is framed as a "flipped classroom" - resources and information will be provided to students well in advance before in-person sessions start, and students will be expected to fully comprehend the information before the respective class sessions. This theoretical knowledge will be applied in practical interactive classroom activities. In the first session students will learn how to analyze and provide structured assessment of video documented real-life communications between doctors and patients. In the second session, students will develop their own skills through role-modeling challenging communication situations - i.e., working in teams and pairs with provided communication scenarios.

Qualifying courses:

IN2/VAB21 nebo IN2/VAB22

HEO/VA062

Palacký-Minnesota Medical Series

1 cr. Con

Přednáška 3 [hrs/sem]

prof. MUDr. Vít Procházka, Ph.D.

Avail. sem.: W/S

Palacký-Minnesota Medical Series connects excellent educators and researchers from Palacký Medical School and from the University of Minnesota Medical School. The course aims to provide real-time online sessions to students by bringing top-level scholars from the both institutions to present novel research and contemporary issues. The course will be delivered in 4 online sessions with two presenters from the Palacký and two from the U of Minnesota, all from the respective medical fields. The presentations will provide new insights as well as complement the existing curricula. The goal is to offer top-level medical expertise from both continents to UP as well as UMN medical students.

HEO/VA063

Arts in Medicine

1 cr. Con Seminář 3 [hrs/sem]

prof. MUDr. Vít Procházka, Ph.D.

Avail. sem.: W/S

The course aims to develop individual creativity and to elevate the role of the arts and humanities in medical education and practice. It follows the current trends in medical sciences which promote diversity and include nurturing curiosity and unleashing creativity, deepening empathy, developing professionalism, and fostering resilience in physicians as well s physiciansin- training.

HIE – DEPARTMENT OF HISTOLOGY AND EMBRYOLOGY

HIE/VAA12

Histology and Embryology 2

8 cr. Con.Ex

Přednáška 45 [hrs/sem] + Cvičení 45 [hrs/sem]

MUDr. Radka Lichnovská, Ph.D.

Avail. sem.: W

Contents of the second part comprise the microscopic anatomy and embryology of organ systems.

Qualifying courses:

HIE/VAB11, KAR/VAB11, BIO/VAB11, CJA/VAB41, CJA/VA031, LCH/VAA11, LBF/VAB11, NAN/VAB13, NAN/VAA13, LCH/VAB20,

PVL/VAB71 PVL/VAB72 SOL/VAB70 nebo nebo

HIE/VAB11

Histology and Embryology 1

5 cr. Con

Přednáška 30 [hrs/sem] + Cvičení 45 [hrs/sem]

MUDr. Radka Lichnovská, Ph.D.

Avail. sem.: S

The first part of histology and embryology is focused on gaining both theoretical and practical knowledge of the microscopic structure of tissues, cardiovascular, and lymphoreticular systems, and basic embryology.

HIE/VAB21

Basic Histochemistry

1 cr. Con Seminář 4 [hrs/sem]

Mgr. Kateřina Čížková, Ph.D.

Avail. sem.: S

The course covers basic histochemical methods used for the detection of various chemical substances (e.g. lipids, iron, polysacharides and enzymes) and the principles these methods are based on. In addition, their practical use and importance for the understanding of chemical processes in human body will be discussed. Immunohistochemical techniques as a subset of histochemistry offer high specificity and sensitivity for the detection of intra- and extracellular components using a specific bond of antibody to antigen. The principle and practical application in research and diagnostics will be discussed.

Qualifying courses:

HIE/VAB11, HIE/VAA12

HIE/ZAA12

Histology and Embryology 2

6 cr. Con.Ex

Přednáška 45 [hrs/sem] + Cvičení 39 [hrs/sem]

MUDr. Radka Lichnovská, Ph.D.

Avail. sem.: W

Contents of the second part comprise the histology and embryology of the orofacial region and the digestive system. The microscopic anatomy and embryology of other systems will be discussed in reduced form according to requirements of the subject.

Qualifying courses:

 $HIE/ZAB11\;,\;\; LBF/ZAB11\;,\;\; LCH/ZAA11\;,\;\; BIO/ZAB11\;,\;\; NAN/ZAB11\;,$

CJA/ZAB41, CJA/ZAA41, ST1/ZAA40, ST1/ZAB40, ST1/ZAB01,

KAR/VAB11

HIE/ZAB11

Histology and Embryology 1

4 cr. Con

Přednáška 30 [hrs/sem] + Cvičení 45 [hrs/sem]

MUDr. Radka Lichnovská, Ph.D.

Avail. sem.: S

The first part of histology and embryology is focused on gaining both theoretical and practical knowledge of the microscopic structure of tissues, cardiovascular, and lymphoreticular systems, and basic embryology.

CH0 – DEPARTMENTS OF SURGERY

CH0/VAB11

Introduction to Clinical Medicine 2

3 cr. Co

Cvičení 21 [hrs/sem] + Seminář 16 [hrs/sem]

doc. MUDr. Pavel Dráč, Ph.D., prof. MUDr. Vladimír Mihál, CSc., Avail. sem.: S

doc. MUDr. Miroslav Pach, CSc., MUDr. Mgr. Pavel Skalický, Ph.D.

Students get basic information about surgical disciplines. Lessons contain practice of basic surgical skills - suturing, knotting, treatment of traumatic wound, fracture bone fixation. The aim of pediatric propedeutics is to teach students to understand pediatrics as a developmental medicine with its typical preventive character. The aim is to acquire basic skills for communication with patients and their legal representatives during taking a history (professionalism and humanity). To introduce basic differences between examination of children at different ages and examination of adults.

Qualifying courses:

CJA/VAA31 nebo CJA/VA031, PVL/VAB71 nebo

FYZ/VAB11 nebo FYZ/VAB12, IN0/VAA11

CH0/VAB12

Introduction to Clinical Medicine 2

4 cr. Co

Cvičení 21 [hrs/sem] + Seminář 16 [hrs/sem]

doc. MUDr. Pavel Dráč, Ph.D., prof. MUDr. Vladimír Mihál, CSc., Avail. sem.: S

doc. MUDr. Miroslav Pach, CSc., MUDr. Mgr. Pavel Skalický, Ph.D.

Students get basic information about surgical disciplines. Lessons contain practice of basic surgical skills - suturing, knotting, treatment of traumatic wound, fracture bone fixation. The aim of pediatric propedeutics is to teach students to understand pediatrics as a developmental medicine with its typical preventive character. The aim is to acquire basic skills for communication with patients and their legal representatives during taking a history (professionalism and humanity). To introduce

basic differences between examination of children at different ages and examination of adults.

Qualifying courses: CJA/VAA31 nebo CJA/VA031, PVL/VAB71 nebo

PVL/VAB72 nebo SOL/VAB70 nebo SOL/VAB71, FYZ/VAA11, LCH/VAA20 nebo LCH/VAB21, HIE/VAA12,

FYZ/VAB11 nebo FYZ/VAB12, IN0/VAA11

CH0/VA023 Surgery II (Orthopaedics, Neurosurgery)

16 cr. Con

Praxe 2 [wks/sem] + Praxe 4 [wks/sem] + Praxe 2 [wks/sem]

prof. MUDr. Vladimír Král, CSc., prof. MUDr. Čestmír Neoral, CSc. Avail. sem.: W/S

Passing of the state rigorous exam, i.e. gaining of theoretical and practical basics of surgery, ortopedics and neurosurgery. A graduate should be able to work independently in the specified lines of medicine after passing of the exam.

Qualifying courses: CH1/VA011 nebo CH1/VA012 nebo CH1/VA013,

CH1/VABP1 nebo CH1/VABP2

CH0/VA025 Surgery 2 16 cr. Con

Konzultace 1 [wks/sem] + Cvičení 2 [wks/sem] + Praxe 2 [wks/sem]

prof. MUDr. Vladimír Král, CSc., prof. MUDr. Čestmír Neoral, CSc. Avail. sem.: W/S

Improvement of theoretical and practical basics of general, abdominal, thoracic, vascular, plastic and cardiosurgery. Teaching prepares students for passing of the state rigorous exam.

Qualifying courses: KAR/VA023 nebo KAR/VC022, CH1/VABP1 nebo

CH1/VABP2, **ORT/VA011**, **NCH/VA011**

CH1 - DEPARTMENT OF SURGERY I

CH1/VABP2 Surgery-Clinical Training

1 cr. Con Praxe 2 [wks/sem]

Avail. sem.: S

prof. MUDr. Čestmír Neoral, CSc.

Basic orientation in practical perioperative care of surgical patients from admission to release. The student will be introduced to the diagnostic process and indications for surgical procedures, assisting at basic operations, postoperative care and determining subsequent care.

Qualifying courses: PAT/VAB11, PFY/VAB11

CH1/VA011 Surgery I 8 cr. Co

Cvičení 120 [hrs/sem] + Seminář 26 [hrs/sem]

prof. MUDr. Čestmír Neoral, CSc. Avail. sem.: W/S

Introduce the student to the fundamental principles of general surgery; acquire basic theoretical knowledge and the ability to perform basic surgical procedures (treatment of wounds, resuscitation).

PVL/VAB14 Qualifying courses: IN2/VAA11, MIK/VAA12, PVL/VAB13 nebo SOL/VAA11 nebo SOL/VAB12, FAR/VAB11. TPO/VABP1, PAT/VAB11, PFY/VAB11, PLE/VABP2 nebo PSY/VAB11 nebo PSY/VAB13, IN2/VAB21, KIM/VAB11 KIM/VAB12, CJA/VAB43 nebo CJA/VAB44 nebo

CH1/VA012 Surgery 1 6 cr. Co

Cvičení 100 [hrs/sem] + Seminář 26 [hrs/sem]

doc. MUDr. JUDr. Dušan Klos, Ph.D., LL.M. Avail. sem.: W/S

Introduce the student to the fundamental principles of general surgery; acquire basic theoretical knowledge and the ability to perform basic surgical procedures (treatment of wounds, resuscitation).

Qualifying courses: CH0/VAB11 nebo CH0/VAB12 INO/VAA11 nebo nebo IN0/VAB11 nebo IN2/VAA11, MIK/VAA12, FAR/VAB11, PAT/VAB11, PFY/VAB11, PSY/VAB11 nebo PSY/VAB13, IN2/VAB21 IN2/VAB22, KIM/VAB11 nebo CJA/VAB44, nebo KIM/VAB12, CJA/VAB43 nebo PVL/VAB14 SOL/VAA11 PVL/VAB13 nebo nebo

nebo SOL/VAB12 , PLE/VAB81 nebo SOL/VAB41 nebo TPO/VAB13 , PVL/VAB32 nebo SOL/VAB31

nebo SOL/VAB32

CH1/VA013 Surgery 1 6 cr. Con,Ex

Cvičení 100 [hrs/sem] + Seminář 26 [hrs/sem]

doc. MUDr. JUDr. Dušan Klos, Ph.D., LL.M.

Introduce the student to the fundamental principles of general surgery; acquire basic theoretical knowledge and the ability to perform basic surgical procedures (treatment of wounds, resuscitation).

Qualifying courses: CH0/VAB11 nebo CH0/VAB12 INO/VAA11 nebo IN2/VAA11, MIK/VAA12, IN0/VAB11 nebo nebo FAR/VAB11, PAT/VAB11, PFY/VAB11, PSY/VAB11 nebo PSY/VAB13, IN2/VAB21 IN2/VAB22, KIM/VAB11 nebo CJA/VAB43 CJA/VAB44, nebo KIM/VAB12, nebo PVL/VAB13 PVL/VAB14 SOL/VAA11 nebo nebo nebo SOL/VAB12, PLE/VAB81 nebo SOL/VAB41 SOL/VAB31 nebo TPO/VAB13, PVL/VAB32 nebo nebo SOL/VAB32

CH1/VA031 Basics of Surgical Sutures

1 cr. Con Cvičení 4 [hrs/sem] Avail. sem.: W/S

Avail. sem.: W/S

MUDr. Josef Chudáček, Ph.D.

Theoretical preparation and practical training of basic surgical sutures and knotting, as well as fundamental laparoscopic techniques.

Qualifying courses: CH1/VA011 nebo CH1/VA012 nebo CH1/VA013

nebo CH2/ZAB11

CH1/VA063 Basics of Burns 1 cr. Con

Přednáška 2 [hrs/sem] + Cvičení 2 [hrs/sem]

MUDr. Hana Klosová, Ph.D. Avail. sem.: W/S

Theoretical instruction and practical training to determine the severity of a burn injury and to assess the depth of burn, the management of burn wound treatment and practical training in aseptic and sterile techniques required for burn treatment procedures.

Qualifying courses: CH1/VA012 nebo CH1/VA013

CH1/VA092 Surgery 0 cr. Sri

prof. MUDr. Čestmír Neoral, CSc. Avail. sem.: W/S

Passing of the state rigorous exam, i.e. gaining of theoretical and practical basics of surgery, ortopedics and neurosurgery. A graduate should be able to work independently in the specified lines of medicine after passing of the exam.

Qualifying courses: CH0/VABP1 nebo CH1/VABP1 nebo CH1/VABP2,

 $\begin{array}{cccccc} CH0/VA023 & nebo & CH0/VA024 & nebo & CH0/VA025 \; , \\ CH0/VAB22 & nebo & KAR/VA022 & nebo & KAR/VA023 \; , \\ CH1/VA011 & nebo & CH1/VA012 & nebo & CH1/VA013 \end{array}$

CH1/VA093 Surgery 0 cr. Sri

prof. MUDr. Čestmír Neoral, CSc. Avail. sem.: W/S

Passing of the state rigorous exam, i.e. gaining of theoretical and practical basics of general surgery including traumatology, vascular surgery, chest surgery, cardiac surgery, plastic surgery and neurosurgery. A graduate should be able to work independently in the specified line of medicine after passing of the exam.

Qualifying courses: CH0/VABP1 nebo CH1/VABP1 nebo CH1/VABP2,

CH2 - DEPARTMENT OF SURGERY II - VASCULAR-TRANSPLANTATION

CH2/ZAA12 Surgery 2 0 cr. Con

Cvičení 15 [hrs/sem] + Seminář 15 [hrs/sem]

MUDr. Petr Dráč, Ph.D. Avail. sem.: W

To familiarize students with general surgery, anesthesiology and resuscitation, orthopaedics and traumatology, neurosurgery, urology and plastic surgery.

Qualifying courses: ${\rm CH2/ZAB11}$

CH2/ZAA13 Surgery 3 2 cr. Con,Ex

Seminář 15 [hrs/sem]

MUDr. Petr Dráč, Ph.D.

Avail. sem.: W

To acquaint students with basic information on acute medicine, to introduce cardiopulmonary resuscitation and intensive care in the field of surgery, to provide basic overview of diagnostics and therapeutic approach in surgery.

Qualifying courses:

CH2/ZAB12, CH2/ZAA12, CH2/ZAB11

CH2/ZAB11

Surgery 1

2 cr. Con

Cvičení 30 [hrs/sem] + Seminář 15 [hrs/sem]

MUDr. Petr Dráč, Ph.D.

Avail. sem.: S

To provide knowledge of important information on general surgery, to acquaint with basic surgical instruments, to introduce both tactic and technique of the surgical procedure.

CH2/ZAB12

Surgery 2

3 cr. Con

Cvičení 15 [hrs/sem] + Seminář 15 [hrs/sem]

MUDr. Petr Dráč, Ph.D.

Avail. sem.: S

To familiarize students with general surgery, anesthesiology and resuscitation, orthopaedics and traumatology, neurosurgery, urology and plastic surgery.

Qualifying courses:

CH2/ZAB11, CH2/ZAA12

INF – DEPARTMENT OF INFECTIOUS DISEASES

INF/VAA11

Infectious Diseases 1

0 cr. Con

Cvičení 21 [hrs/sem] + Seminář 9 [hrs/sem]

doc. MUDr. Luděk Rožnovský, CSc.

Avail. sem.: W

Introduction to the problem and relations to the other medicine specializations, transmission od infectious diseases, epidemiologic strategy, clinical manifestation of infectious diseases, diferencial diagnosis and therapy. Viral hepatitis A, B, C, D, E, G; etiology, pathology, epidemiology, clinical features, serologic tests and findings, treatment, sequelae, carrier state of the virus of hepatitis B and C, chronic viral hepatitis - treatment of them. GIT infections (pathology of the infectious diarrhoea, bacterial and viral infectious diarrhoea, clinically important bacterial and viral carrier state. HIV/AIDS infection (stage, therapy, care of HIV/AIDS patiens), respiratory infections, herpes viruses infectious diseases ant treatment, infectious exantematous diseases, infectious diseases called by Streptococci and Staphylococci, zoonose, infectious diseases in childhood. Basic information about neuroinfections - bacterial and viral, lyme diseases, TBE encephalitis, meningococcal meningitis. Prior infections. Antibiotics from the view of infectionist, antibiotic resistence, antibiotic policy. Antivirotics. Antimycotics. Strategy of vaccination - contemporary status, view to the future. Infectious diseases and pregnancy. The infectious disease and the corticosteroid therapy. Anaerobic infections, tetanus. Clostridial infections. The introduction to the problem of the geographic and travel medicine. Malaria, leishmaniosis, schistosomiasis. Clinical demonstration of the patients.

Qualifying courses:

IN1/VA012 CJA/VAB44, IN0/VAA11

nebo

IN1/VA022, nebo

CJA/VAB43 nebo

IN2/VAA11, CH0/VAB11 nebo

CH0/VAB12 IN2/VAA11, PAT/VAB11, PFY/VAB11, PSY/VAB11 nebo

nebo IN0/VAB11 PSY/VAB13, FAR/VAB11, IN2/VAB21 nebo

IN2/VAB22

INF/VAB11

Infectious Diseases 2

4 cr. Con,Ex

Cvičení 9 [hrs/sem] + Seminář 9 [hrs/sem]

prof. MUDr. Pavel Chalupa, CSc.

Avail. sem.: S

Introduction to the problem and relations to the other medicine specializations, transmission od infectious diseases, epidemiologic strategy. Viral hepatitis A, B, C, D, E, G; etiology, pathology, epidemiology, clinical features, serologic tests and findings, treatment, sequelae, carrier state of the virus of hepatitis B and C, chronic viral hepatitis - treatment of them. GIT infections (pathology of the infectious diarrhoea, bacterial and viral infectious diarrhoea, clinically important bacterial and viral carrier state. HIV/AIDS infection (stage, therapy, care of HIV/AIDS patiens), respiratory infections, herpes viruses infectious diseases ant treatment, infectious exantematous diseases, infectious diseases called by Streptococci and Staphylococci, zoonose, infectious diseases in childhood. Basic information about neuroinfections - bacterial and viral, lyme diseases, TBE encephalitis, meningococcal meningitis. Strategy of vaccination - contemporary status, view to the future. Infectious diseases and pregnancy. Variola and vacination. The introduction to the problem of the geographic and travel medicine.

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Clinical demonstration of the patients.
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INF/VAA11, IN1/VA012 IN1/VA022, CH0/VAB11 Qualifying courses: nebo nebo CH0/VAB12 nebo IN0/VAB11 nebo IN2/VAA11, IN0/VAA11 IN2/VAA11, CJA/VAB43 nebo CJA/VAB44, PAT/VAB11, PFY/VAB11, PSY/VAB11 nebo PSY/VAB13, FAR/VAB11, IN2/VAB21 nebo nebo IN2/VAB22

INF/ZAA11

Infectious Diseases

2 cr. Con,Ex

Přednáška 15 [hrs/sem] + Cvičení 12 [hrs/sem] + Seminář 2 [hrs/sem]

prof. MUDr. Pavel Chalupa, CSc.

Avail. sem.: W

Introduction to the problem and relations of other medicine specializations, transmission od infectious diseases, epidemiologic strategy, clinical manifestation of infectious diseases, diferencial diagnosis and therapy. Viral hepatitis A, B, C, D, E, G; etiology, pathology, epidemiology, clinical features, serlogic tests and findings, treatment, sequelae, carrier state of the virus of hepatitis B and C, chronic viral hepatitis - treatment of them in the relationship to dental medicine. GIT infections (pathology of the infectious diarrhoea, bacterial and viral infectious diarrhoea, clinically important bacterial and viral carrier state HIV/AIDS infection (stage, therapy, care of HIV/AIDS patiens), respiratory infections, herpes viruses infectious diseases ant treatment, infectious exantematous diseases, infectious diseases called by Streptococci and Staphylococci, zoonose, infectious diseases in childhood. Basic information about neuroinfections - bacterial and viral, lyme diseases, TBE encephalitis, meningococcal meningitis. Prion infections. Antibiotics from the view of infectionist, antibiotic resistence, antibiotic policy. Antivirotics. Antimycotics. Strategy of vaccination - contemporary status, view to the future. Infectious diseases and pregnancy. The infectious disease and the corticosteroid therapy. Anaerobic infections, tetanus. Clostridial infections. The introduction to the problem of the geographic and travel medicine. Clinical demonstration on the patients.

INO – DEPARTMENTS OF INTERNAL MEDICINE

IN0/VAA11

Introduction to Clinical Medicine 1

5 cr. Con,Ex

Cvičení 45 [hrs/sem] + Seminář 55 [hrs/sem]

MUDr. Diana Hexspoor Bawadekji, prof. MUDr. Vlastimil Ščudla, CSc.

Avail. sem.: W

The aim of the "Introduction to Clinical Medicine" is to adopt complete clinical examination, i.e. the history of the patient as well as a detailed physical examination. The student should be able to express properly the findings and write down acquired data, to work out admission record, and to compile working clinical diagnosis and an examination plan within internal medicine.

Qualifying courses:

NAN/VAB13, BIO/VAB11, LBF/VAB11, NAN/VAB11 nebo **CJA/VA031**, LCH/VAA11, CJA/VAA31 nebo CJA/VAB41, PVL/VAB72KAR/VAB11, PVL/VAB71 nebo nebo SOL/VAB70 SOL/VAB71, FYZ/VAA11, LCH/VAA20 neboHIE/VAA12, HIE/VAB11, FYZ/VAB11 FYZ/VAB12, CJA/VAB42, $PLE/V\Lambda\Lambda81$ nebo $SOL/V\Lambda\Lambda41$, PLE/VAB81nebo SOL/VAB41

IN0/VA041

Internal Medicine 4

 $\frac{24\ \mathrm{cr.}}{\text{Konzultace 1 [wks/sem]}} + \text{Praxe 7 [wks/sem]} + \text{Praxe 1 [wks/sem]}$

prof. MUDr. Pavel Horák, CSc., MUDr. Petr Jakubec, Ph.D., doc.

Konzultace I [wks/sem] + Praxe I [wks/sem]
prof. MUDr. Pavel Horák, CSc., MUDr. Petr Jakubec, Ph.D., doc.

Avail. sem.: W/S

MUDr. Dan Marek, Ph.D., prof. MUDr. Tomáš Papajík, CSc., doc.

MUDr. Ondřej Urban, Ph.D.

A detailed introduction into the organization of the departments of internal medicine, including specialized centers and laboratories of supplementary or supporting branches of internal medicine; mastery of a broad spectrum of basic practical skills in internal medicine, including injection technique and interpretation of ECG and basic radiographs; mastery of the standard work of a house physician; extended theoretical knowledge and acquisition of "clinical thinking".

Qualifying courses:

IN3/VAB12 nebo IN3/VAB13 nebo IN3/VA012, IN3/VAA12 nebo IN3/VAA13 nebo IN3/VA012, IN0/VAA11 nebo IN2/VAA11, IN2/VAB21 nebo IN1/VA022, CH0/VAB11 IN2/VAB22, IN1/VA012 nebo nebo CH0/VAB12 nebo IN0/VAB11

IN0/VA043

Internal Medicine IV

19 cr. Con

 $Konzultace\ 1\ [wks/sem]\ +\ Praxe\ 7\ [wks/sem]\ +\ Praxe\ 1\ [wks/sem]\ prof.\ MUDr.\ Miloš\ Táborský,\ CSc.,\ FESC,\ MBA,\ doc.\ MUDr.\ Ondřej Avail.\ sem.:\ W/S$

Urban, Ph.D., prof. MUDr. Josef Zadražil, CSc.

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laboratories of supplementary or supporting branches of internal medicine; mastery of a broad spectrum of basic practical skills in internal medicine, including injection technique and interpretation of ECG and basic radiographs; mastery of the standard work of a house physician; extended theoretical knowledge and acquisition of "clinical thinking".

Qualifying courses: IN3/VAB12 nebo IN3/VAB13 nebo IN3/VA012,

IN3/VAA12 nebo IN3/VAA13, IN2/VAA11, IN2/VAB21,

IN1/VA012 nebo IN1/VA022

IN0/VA091 Internal Medicine

Avail. sem.: W/S

0 cr.

prof. MUDr. Pavel Horák, CSc., prof. MUDr. Miloš Táborský, CSc.,

FESC, MBA, doc. MUDr. Ondřej Urban, Ph.D.

The objective of the State Examination is a complex evaluation of acquisition of practical and theoretical knowledge of Internal Medicine. The examination itself consists of two parts, practical and oral. The objective of the practical part of the State Examination is an evaluation of the student's ability to completely examine a patient, writing the case history, including a diagnostic conclusion, the differential - diagnostic analysis, the diagnostic and therapeutic procedure. The integral part of the examination is an evaluation of a selected radiographic and EKG record. The oral part of the State Examination is focused on an evaluation of the level of theoretical knowledge in the extent of the published syllabus in the form of answers to three questions and a related discussion, or eventually, including a written test.

Qualifying courses: IN3/VAA12 nebo IN3/VAA13 nebo IN3/VA012, IN3/VAB12 nebo IN3/VAB13 nebo IN3/VA012,

PLE/VABP2 nebo TPO/VABP1, PLE/VAB81 nebo

SOL/VAB41 nebo TPO/VAB11 nebo TPO/VAB13

IN1 – DEPARTMENT OF INTERNAL MEDICINE I - CARDIOLOGY

IN1/VA012 Internal Medicine II

6 cr. Con

Cvičení 79 [hrs/sem] + Seminář 41 [hrs/sem]

MUDr. Vlastimil Doupal, Ph.D., MUDr. Petr Jakubec, Ph.D.

Avail. sem.: W/S

Active participation on cardiologic department: patients history, physical evaluation, diagnostic methods, therapy and prognostic significance of cardiovascular diseases. Participation in specialized cardiologic laboratories included.

Qualifying courses: IN2/VAA11, MIK/VAA12, PVL/VAB13 PVL/VAB14 nebo nebo SOL/VAA11 nebo SOL/VAB12, PLE/VABP2 TPO/VABP1. PAT/VAB11, PFY/VAB11, PSY/VAB11 nebo PSY/VAB13, IN2/VAB21 IN2/VAB22, nebo nebo

CJA/VAB43 nebo CJA/VAB44, FAR/VAB11

IN1/VA022 Internal Medicine 2

5 cr. Con

Cvičení 79 [hrs/sem] + Seminář 41 [hrs/sem]

MUDr. Vlastimil Doupal, Ph.D. Avail. sem.: W/S

Active participation on cardiologic department: patients history, physical evaluation, diagnostic methods, therapy and prognostic significance of cardiovascular diseases. Participation in specialized cardiologic laboratories included.

Qualifying courses: IN0/VAA11 nebo IN2/VAA11, MIK/VAA12, PVL/VAB13

nebo PVL/VAB14 nebo SOL/VAA11 nebo SOL/VAB12, **FAR/VAB11**, PLE/VABP2 nebo TPO/VABP1,

PAT/VAB11, PFY/VAB11, PSY/VAB11 nebo PSY/VAB13,

IN0/VAB11 nebo IN2/VAA11

IN1/ZAA11 Internal Medicine 1

0 cr. Con

Cvičení 30 [hrs/sem] + Seminář 30 [hrs/sem]

MUDr. Jan Galuszka, Ph.D. Avail. sem.: W

Students will acquire basic orientation in medical documentation, history taking, physical examination principles in internal medicine, general information about examination techniques used in internal medicine focused on orientation in heart and circulatory diseases examination possibilities. Acquired knowledge will be practiced during a bed-side practical training.

Qualifying courses: **PFY/ZAB11**

IN2 – DEPARTMENT OF INTERNAL MEDICINE II - GASTROENTEROLOGY AND **GERIATRICS**

IN2/VAA11 Introduction to Internal Medicine 5 cr. Con.Ex

Přednáška 45 [hrs/sem] + Cvičení 60 [hrs/sem]

MUDr. Diana Hexspoor Bawadekji

Avail. sem.: W

The aim of internal propaedeutic lessons is to inform students about clinical examining methods and performing techniques. This includes the anamnesis, i.e. talking with the patient, especially important is a proper written formulation of the anamnesis in a case history. Another objective of the student teaching is to master the techniques of physical examination, i.e. inspection, percussion, palpation, and auscultation. The third aim is obtaining basic information about laboratory and other helping examining methods in all area of internal medicine.

Qualifying courses:

IN2/VAB21

LCH/VAA20 nebo LCH/VAB21, FYZ/VAB11 nebo

3 cr. Con

FYZ/VAB12 . CJA/VAB42 Internal Medicine I

Přednáška 30 [hrs/sem] + Cvičení 37 [hrs/sem]

doc. MUDr. Vlastimil Procházka, Ph.D.

Avail. sem.: S

The aim is to master diagnosis, therapy and prognosis of internal diseases in the specialities hepatology, haematology, transfusiology and resuscitation. On the basis of a case history and physical examination, students should be able to form the preliminary diagnosis and to develop an adequate strategy of other supporting examinations leading to the definite diagnosis. From the prognostic point of view, the aim is to realistically evaluate the probable duration of the disease and its treatment and the effect of the disease on the patient's chance for survival. Tutorial in haematology is focused on "non-malignant" haematology mainly on anaemias and disorders of haemosthasis. Introduction to transfusiology is integrated. The aim of the third part of this object are general principles of resuscitation including special resuscitation of patient with gastrointestinal disorders.

Qualifying courses:

CH0/VAB11 nebo CH0/VAB12nebo IN0/VAA11LCH/VAA20 nebo IN0/VAB11 IN2/VAA11, nebo LCH/VAB21, NAN/VAA12 nebo NAN/VAB13, nebo HIE/VAA12, FYZ/VAB11 nebo FYZ/VAB12, CJA/VAB42

IN2/VAB22

Internal Medicine 1

5 cr. Con

Cvičení 74 [hrs/sem] + Seminář 60 [hrs/sem]

MUDr. Diana Hexspoor Bawadekji

Avail. sem.: S

The aim is to master diagnosis, therapy and prognosis of internal diseases in the specialities gastroenterology. On the basis of a case history and physical examination, students should be able to form the preliminary diagnosis and to develop an adequate strategy of other supporting examinations leading to the definite diagnosis. From the prognostic point of view, the aim is to realistically evaluate the probable duration of the disease and its treatment and the effect of the disease on the patient's chance for survival. The second part of this education are general principles of nutrition especially of gastrointestinal and hepatobiliary illness.

Qualifying courses:

INO/VAA11, FYZ/VAA11, FYZ/VAB11 nebo FYZ/VAB12, HIE/VAA12, LCH/VAA20 nebo

IN2/ZAB13

Internal Medicine 2

LCH/VAB21, CJA/VAB42

Cvičení 30 [hrs/sem] + Seminář 30 [hrs/sem]

MUDr. Diana Hexspoor Bawadekii

Avail. sem.: S

Con

4 cr.

The aim is to master principle questions of the etiology and pathogenesis and to diagnosticate and treat internal diseases in the specialities: gastroenterology, hepatology, diabetelogy, nutrition and diseases of respiratory system. Student should be able to master all it in such extent requisite for the dental medicine.

Qualifying courses:

IN1/ZAA11, PFY/ZAB11

IN3 - DEPARTMENT OF INTERNAL MEDICINE III - NEPHROLOGY, RHEUMATO-LOGY AND ENDOCRINOLOGY

IN3/VAA13

Internal Medicine III

Con

Přednáška 5 [hrs/sem] + Cvičení 44 [hrs/sem] + Seminář 25 [hrs/sem]

prof. MUDr. Josef Zadražil, CSc.

Avail. sem.: W/S

Introducing students to clinical practice, diagnosis and therapy. Knowledge of theoretical principles of hematology, nephrology and rheumatology; examination of a patient including elaboration of a case record; formulation of a working diagnosis.

Qualifying courses:

IN1/VA012 nebo IN1/VA022, FAR/VAA11 nebo

FAR/VAA12 nebo FAR/VAA13

IN3/VAB13

Internal Medicine III

10 cr. Con,Ex

Přednáška 5 [hrs/sem] + Cvičení 44 [hrs/sem] + Seminář 25 [hrs/sem]

prof. MUDr. Josef Zadražil, CSc.

Theoretical fundaments of rheumatology, endocrinology and diabetology. Widening of practical skills in clinical examination, elaboration of the reports, and construction of the diagnostic process. Interpretation of laboratory tests and diagnostic methods with the formulation of working and final diagnosis, effective disease management.

Qualifying courses:

IN3/VAA12 nebo IN3/VAA13, IN1/VA012 nebo IN1/VA022, FAR/VAA11 nebo FAR/VAA12 nebo

FAR/VAA13

IN3/VA012

Internal Medicine 3

10 cr. Con,Ex

Avail. sem.: W/S

Přednáška 10 [hrs/sem] + Cvičení 60 [hrs/sem] + Seminář 50 [hrs/sem]

prof. MUDr. Pavel Horák, CSc.

Avail. sem.: W/S

Theoretical fundaments of rheumatology, endocrinology and diabetology. Widening of practical skills in clinical examination, elaboration of the reports, and construction of the diagnostic process. Interpretation of laboratory tests and diagnostic methods with the formulation of working and final diagnosis, effective disease management.

Qualifying courses:

IN1/VA012 nebo IN1/VA022, FAR/VAA11 nebo

FAR/VAA12 nebo FAR/VAA13

IN3/ZAA11

Internal Medicine 3

3 cr. Con,Ex

Cvičení 30 [hrs/sem] + Seminář 30 [hrs/sem]

prof. MUDr. Pavel Horák, CSc.

Avail. sem.: W

Differential diagnosis of selected symptoms occurring in internal medicine, especially in orofacial area and neck area faced by a dentist. Diagnosis and therapy of emergency situations in internal medicine occurring in dental practice (acute cardio-vascular accidents, including cardiopulmonary resuscitation, respiratory insufficiency, aspiration of a foreign body, bleeding from airways, unconsciousness, most frequent types of intoxication, acute complications of diabetes mellitus, bleeding into the gastrointestinal tract, fever, prophylactic and targeted therapy with antibiotics, problems of patients treated with corticoids, immunosuppressive and cytotoxic therapy). Differential diagnosis of hepatitis, diarrhea, viral hepatitis and other viral infections related to dentists. Examination of patients, elaboration of working diagnosis, diagnostic and therapeutic program, analysis of patients related to specificity of dental practice.

Qualifying courses:

 ${
m IN1/ZAA11}$, ${
m IN2/ZAB11}$ nebo ${
m IN2/ZAB12}$ nebo

IN2/ZAB13

KAR – DEPARTMENT OF ANESTHESIOLOGY, RESUSCITATION AND INTENSIVE CARE MEDICINE

KAR/VAB11

First Aid

2 cr. Co

Přednáška 15 [hrs/sem] + Cvičení 6 [hrs/sem]

MUDr. Lenka Doubravská, Ph.D.

Avail. sem.: S

Training of basic life saving techniques, taking care of unconscious patient, first aid for trauma with extensive bleeding, diagnostics and first aid for fractures, diagnostics of chest and abdominal trauma, first aid for disorders due to physical or chemical effects.

KAR/VA023

Anaesthesia and Intensive Care

5 cr. Con,Ex

Cvičení 43 [hrs/sem] + Seminář 20 [hrs/sem]

prof. MUDr. Milan Adamus, Ph.D., MBA

Avail. sem.: W/S

Providing basic and advanced cardiopulmonary resuscitation, including skills to maintain the airway with the help of simple devices or by performing other life-saving procedures. Assessment and preparation of patient for anaesthesia, introduction to basic procedures and anaesthetic techniques, introduction to basics of intensive and resuscitation care and basics of acute and chronic pain treatment.

Qualifying courses:

CH1/VA011 nebo CH1/VA012 nebo CH1/VA013,

URG/VA023

KAR/VA051

Advanced First Aid

3 cr. Con Cvičení 28 [hrs/sem]

t ii

MUDr. Pavla Hrnčiříková

Avail. sem.: S

Introduction to basics of acute and chronic pain management on the basis of Evidence-Based medicine and from the multidisciplinary point of view including psychology, physiotherapy, oncology, paediatrics. Introduction to basics of examination and pain assessment with the basics of pharmacotherapy of pain. Introduction to invasive methods of pain management including dealing with acute and perioperative pain. Possibility to complete practical part at department of anaesthetics and resuscitation facilities.

KIM – DEPARTMENT OF IMMUNOLOGY AND CLINICAL ALLERGOLOGY

KIM/VAA12 Clinical Immunology and Allergology

1 cr. Con,Ex

Cvičení 6 [hrs/sem] + Seminář 9 [hrs/sem]

prof. Mgr. MUDr. Milan Raška, Ph.D.

Avail. sem.: W

Students will learn about the immunological mechanisms, clinical manifestations and possibilities of immunologically-mediated therapy and prevention of diseases with an immunological component, especially allergic, autoimmune and malignant diseases and immunodeficiency conditions. Will be acquainted with clinical issues of transplantations. In the field of immunological investigation methods, students will deepen their knowledge of their differential diagnostic significance and interpretive potential.

Qualifying courses: **KIM**

KIM/VAB11 nebo KIM/VAB12, FAR/VAA11 nebo

FAR/VAA12 nebo FAR/VAA13, PFY/VAB11, MIK/VAA12,

FAR/VAB11

KIM/VAA13

Clinical Immunology and Allergology

2 cr. Con,Ex

Cvičení 6 [hrs/sem] + Seminář 9 [hrs/sem]

prof. Mgr. MUDr. Milan Raška, Ph.D.

Avail. sem.: W

Students will learn about the immunological mechanisms, clinical manifestations and possibilities of immunologically-mediated therapy and prevention of diseases with an immunological component, especially allergic, autoimmune and malignant diseases and immunodeficiency conditions. Will be acquainted with clinical issues of transplantations. In the field of immunological investigation methods, students will deepen their knowledge of their differential diagnostic significance and interpretive potential.

Qualifying courses:

KIM/VAB11 nebo KIM/VAB12, FAR/VAA11 nebo

FAR/VAA12 nebo FAR/VAA13, PFY/VAB11, MIK/VAA12,

FAR/VAB11

KIM/VAB11

Medical Immunology

3 cr. Con.Ex

Přednáška 15 [hrs/sem] + Cvičení 16 [hrs/sem]

prof. Mgr. MUDr. Milan Raška, Ph.D.

Avail. sem.: S

Students will acquire knowledge of theoretical bases of immunology enabling an understanding of physiological immune mechanisms in a healthy organism; understanding of pathological immunological processes involved in the pathogenesis of a disease with an immunological component and also will be familiar with principles of immunological laboratory examinations.

Qualifying courses:

BIO/VAB11, FYZ/VAB11 nebo FYZ/VAB12

KIM/VAB12

Medical Immunology

3 cr. Con

Cvičení 12 [hrs/sem] + Seminář 14 [hrs/sem]

prof. Mgr. MUDr. Milan Raška, Ph.D.

Avail. sem.: W/S

Introduction of principles of functioning of the immune system, inherited and antigen specific humoral and cell-mediated immunity, structure of lymphatic system, mechanisms of immune response induction including participating cell populations and signaling, genetic basis of antigen specific immune response diversity, HLA molecules, central and peripheral tolerance, mechanisms of induction and regulation of inflammatory response. Explanation of the differences in functioning of systemic and mucosal immune responses, mechanisms of immune defense to infection and surveillance of tumor development. Principles of hypersensitivity reactions and clinical examples. Introduction to laboratory immunological investigation, including allergen hypersensitivity investigation, principles of specimens collection from patients, principles of clinical immunology laboratory methods, overview about immunology parameters routinely investigated, indications and interpretation. Further, it will be introduced HLA polymorphism typing and selected molecular biology methods for investigation in patients with autoimmunity disorders, immune efficiencies or malignancies.

Qualifying courses:

BIO/VAB11, FYZ/VAB11 nebo FYZ/VAB12

KIM/ZAA11 Immunology

2 cr. Con,Ex

Přednáška 15 [hrs/sem] + Cvičení 15 [hrs/sem]

prof. Mgr. MUDr. Milan Raška, Ph.D.

Avail. sem.: W

Students will acquire basic knowledge of medical immunology and their practical applications. Emphasis will be given to those aspects of immunological theory and practice which link to dental medicine. The course includes also short demonstrations of methods in laboratory immunology.

KMS – DEPARTMENT OF COMMUNICATION STUDIES

KMS/VA011 Europe: User's Guide

2 cr. Con Přednáška 12 [hrs/sem]

Avail. sem.: W/S

doc. Mgr. Jaroslav Franc, Th.D.

The aim of the subject is the basic introduction into the European values and roots of European culture for the foreign students of the Palacký University; especially on those students from non-European cultural background. It pays particular

attention to the context of the Czech culture and the standards of academic education. The subject offers to the students the essential hermeneutical key to understand and to interpret the situation of modern European society.

KOZ – DEPARTMENT OF DERMATOLOGY AND VENEREOLOGY

KOZ/VA011 Dermatology and Venereology 5 cr. Con,Ex

Přednáška 9 [hrs/sem] + Cvičení 30 [hrs/sem] + Seminář 15 [hrs/sem]

MUDr. Martina Bienová, Ph.D.

Avail. sem.: W/S

Practical knowledge of dermatological and venerological examinations including basic laboratory tests. Identification of the most common dermatological and venerological diseases and basic knowledge of the appropriate therapy.

Qualifying courses:

IN2/VAA11, MIK/VAA12, PVL/VAB13 SOL/VAA11

nebo PVL/VAB14 SOL/VAB12, FAR/VAB11,

nebo

nebo IN2/VAB21, PAT/VAB11, PFY/VAB11, PSY/VAB11

PSY/VAB13, KIM/VAB11 nebo KIM/VAB12, CJA/VAB43 nebo CJA/VAB44, FAR/VAA11 nebo FAR/VAA12

nebo FAR/VAA13

KOZ/VA012

Dermatology and Venereology

3 cr. Con.Ex

Přednáška 9 [hrs/sem] + Cvičení 30 [hrs/sem] + Seminář 15 [hrs/sem]

MUDr. Martina Bienová, Ph.D.

Avail. sem.: W/S

Practical knowledge of dermatological and venerological examinations including basic laboratory tests. Identification of the most common dermatological and venerological diseases and basic knowledge of the appropriate therapy.

Qualifying courses:

IN2/VAB22, MIK/VAA12, FAR/VAB11, PAT/VAB11, PFY/VAB11,

KIM/VAB12, CJA/VAB43 KIM/VAB11 nebo nebo CJA/VAB44, FAR/VAA11 nebo FAR/VAA12 nebo

FAR/VAA13, IN0/VAA11 nebo IN2/VAA11

KOZ/ZAA11

Dermatology and Venereology

2 cr. Con,Ex

Přednáška 15 [hrs/sem] + Cvičení 15 [hrs/sem]

MUDr. Martina Bienová, Ph.D.

Avail. sem.: W

Students will acquire basic information about the most common skin diseases and sexually transmitted diseases with the accent on the orofacial area.

Qualifying courses:

PAT/ZAB11, PAT/ZAA22

LBF – DEPARTMENT OF MEDICAL BIOPHYSICS

LBF/VAA11

Medical Biophysics, Biometrics and Compu

0 cr. Con

Přednáška 30 [hrs/sem] + Cvičení 30 [hrs/sem]

MUDr. Mgr. Robert Bajgar, Ph.D.

The main objective is to teach the basic knowledge and skills on the atomic and nuclear physics, thermodynamics, gases and liquid kinetics, molecular constitution of living systems, cells biophysics including biopotencial generation and mechanism of cells excitation, heart function and circulation system biophysics. They obtain skills required for work with technical equipments for biomedical measurement and some diagnostics equipments like ECG recorder and ultrasonograph. The students are also introduced to selected software used in information mining and health care.

LBF/VAB11

Medical Biophysics, Biometrics and Comp.

10 cr. Con.Ex

Přednáška 30 [hrs/sem] + Cvičení 30 [hrs/sem]

MUDr. Mgr. Robert Bajgar, Ph.D.

The main objective is to teach the basic knowledge and skills on the atomic and nuclear physics, thermodynamics, gases and liquid kinetics, molecular constitution of living systems, cells biophysics including biopotencial generation and mechanism of cells excitation, heart function and circulation system biophysics. They obtain skills required for work with technical equipments for biomedical measurement and some diagnostics equipments like ECG recorder and ultrasonograph. The students are also introduced to selected software used in information mining and health care.

Qualifying courses: LBF/VAA11

LBF/VAB42 3D Printing in Medicine

MUDr. Mgr. Robert Bajgar, Ph.D.

Avail. sem.: S

The main goal of the subject is to present to students 3D printing technology, possibilities of creation of 3D models and use of 3D printing in medicine. During practical training the students will try to create a simple 3D model, prepare it for 3D printing and print it.

LBF/VA021

Clinical Biophysics

2 cr. Co

Přednáška 15 [hrs/sem] + Seminář 15 [hrs/sem]

MUDr. Mgr. Robert Bajgar, Ph.D.

Avail. sem.: W

The course offers an overview of modern diagnostic and therapeutic methods such as X-ray diagnostic methods, radionuclide imaging, magnetic resonance imaging, photodynamic therapy, electrodiagnostic methods, ultrasound in medicine and others. Each topic introduces and explains the physical principle of the method and of course its clinical applications. Specially, the emphasis is placed on such methods, which students meet at the clinics of the University Teaching Hospital.

Qualifying courses:

INO/VAA11 nebo IN2/VAA11, MIK/VAA12, PVL/VAB13 PVL/VAB14 nebo SOL/VAA11 nebo nebo SOL/VAB12, FAR/VAB11, IN2/VAB21 SOL/VAA12 nebo PAT/VAB11, PFY/VAB11, PSY/VAB11 nebo IN2/VAB22, nebo PSY/VAB13, KIM/VAB11 nebo KIM/VAB12, CJA/VAB43 nebo CJA/VAB44

LBF/ZAB11

Medical Biophysics

3 cr. Con,Ex

Přednáška 15 [hrs/sem] + Cvičení 45 [hrs/sem]

prof. RNDr. Hana Kolářová, CSc.

Avail. sem.: W

The goal of the subject is explanation of biophysical principles in physiological processes of human body (molecular biophysics, biophysics of cell and tissues), its function (biophysics of perception, organ biophysics) and its interaction with external environment. In the following there will be explained the essentials of biostatistics, basic physical properties of liquids, solids and mainly dental materials. The students will acquire basic physical principles of laboratory methods in dentistry, some diagnostic and therapeutic methods. A part of the practical training course is a computer work, when the students are familiarized with application software used in medicine.

LBF/ZAB21

Software Equipment in Dental Office

2 cr. Con

Přednáška 15 [hrs/sem] + Cvičení 30 [hrs/sem]

prof. RNDr. Hana Kolářová, CSc.

Avail. sem.: S

Students becomes familiar with basics of informatics, informatics technology and application software oriented to both the general and specialized medical applications. Practical skillness oriented to dentistry and stomatology is emphasized. Another part of their education is oriented to computer network applications with outcome on Internet tools application in their specialization.

LGE – DEPARTMENT OF MEDICAL GENETICS

LGE/VA011

Medical Genetics

3 cr. Con,Ex

Cvičení 5 [hrs/sem] + Seminář 25 [hrs/sem]

prof. MUDr. Martin Procházka, Ph.D.

Avail. sem.: W/S

Following the course student should be able to explain genetically ditermined illnesses and interpret results of chromosomal and DNA analysis, He/she should be able to estimate genetic risk sof recurrence of an anomaly or a disease in relatives, be able to understand basic findings in prenatal diagnosis and evaluate possible risks of teratogenic factors in a development of a

fetus.

Qualifying courses:

IN2/VAA11, MIK/VAA12, PVL/VAB13 nebo PVL/VAB14 nebo SOL/VAA11 nebo SOL/VAB12, FAR/VAB11,

IN2/VAB21, PAT/VAB11, PFY/VAB11, PSY/VAB11 nebo

PSY/VAB13, KIM/VAB11 nebo KIM/VAB12, CJA/VAB43

nebo CJA/VAB44

LGE/VA012

Medical Genetics

2 cr. Con.Ex

Cvičení 5 [hrs/sem] + Seminář 25 [hrs/sem]

prof. MUDr. Martin Procházka, Ph.D.

Following the course student should be able to explain genetically ditermined illnesses and interpret results of chromosomal and DNA analysis, He/she should be able to estimate genetic risk sof recurrence of an anomaly or a disease in relatives, be able to understand basic findings in prenatal diagnosis and evaluate possible risks of teratogenic factors in a development of

INO/VAA11 nebo INO/VAB11 nebo IN2/VAA11, Qualifying courses:

MIK/VAA12, FAR/VAB11, IN2/VAB21 IN2/VAB22, nebo PAT/VAB11, PFY/VAB11, KIM/VAB11 KIM/VAB12, nebo

CJA/VAB44, CH0/VAB11 nebo CJA/VAB41 nebo

CH0/VAB12 nebo INO/VAB11

Rare Diseases-Cases from Genetic Clinic LGE/VA021 1 cr. Con

Seminář 4 [hrs/sem]

Avail. sem.: W/S

prof. MUDr. Martin Procházka, Ph.D. Avail. sem.: W/S

To demonstrate on examples from genetic clinic the specific characteristics of care of rare diseases. Rare diseases are characterized - 1) by the difficulties and sometimes long timespan of the diagnostic process, 2) by the interdisciplinarity of highly specialized care, 3) patients with rare diseases have a specific motivation to exchange information and experience and to collaborate in all aspects of care.

Qualifying courses: LGE/VA011 nebo LGE/VA012

LCH – DEPARTMENT OF MEDICAL CHEMISTRY AND BIOCHEMISTRY

LCH/VAA11 **Medical Chemistry** 7 cr. Con,Ex

Přednáška 45 [hrs/sem] + Cvičení 15 [hrs/sem]

prof. Mgr. Martin Modrianský, Ph.D. Avail. sem.: W

The aim of medical chemistry is to explain the principles of biophysical, inorganic, bioinorganic, organic and bioorganic chemistry required for the study and understanding of biochemistry. Students will acquire the basics of chemical reasoning and imagination, such as the concepts of molecular shape, intermolecular forces, equilibrium, energy transfer, structureactivity relationships, as well as thorough knowledge of molecules present in biological systems. From the practical point of view, students will master simple calculations in stoichiometry, acid-base and oxidation-reduction equilibria, and energy changes in the course of biochemical reactions.

LCH/VAA20 Biochemistry 2 15 cr. Con.Ex

Přednáška 60 [hrs/sem] + Cvičení 30 [hrs/sem] + Seminář 30 [hrs/sem]

prof. RNDr. Jitka Ulrichová, CSc. Avail. sem.: W

The aim of the subject is to explain teoretical principles of biochemistry and the regulatory mechanisms of basic metabolic pathways. This knowledge is essential for interpretation of physiological and pathological events in human organism. Students are also trained in laboratory classes with respect to master simple biochemical analyses and the ability to interpret the results from laboratory tests.

Qualifying courses: LCH/VAB20, NAN/VAB13, NAN/VAA13, CJA/VA031, BIO/VAB11,

LBF/VAA11, LCH/VAA11, PVL/VAB71 nebo PVL/VAB72 SOL/VAB70, CJA/VAB41, HIE/VAB11, KAR/VAB11, nebo

LBF/VAB11

LCH/VAA21 **Biochemistry** 0 cr.Con

Přednáška 30 [hrs/sem] + Cvičení 60 [hrs/sem]

prof. RNDr. Jitka Ulrichová, CSc.

The aim of the subject is to explain teoretical principles of biochemistry and the regulatory mechanisms of basic metabolic

pathways. This knowledge is essential for interpretation of physiological and pathological events in human organism. Students are also trained in laboratory classes with respect to master simple biochemical analyses and the ability to interpret the results from laboratory tests.

LCH/VAA11, LBF/VAB11, BIO/VAB11 nebo Qualifying courses: BIO/VAB12,

KAR/VAB11, CJA/VAB41, CJA/VAB31, NAN/VAB11 nebo

NAN/VAB13

LCH/VAA62 Laboratory Diagnostics in Clin. Practise 2 cr. Co

Seminář 25 [hrs/sem]

doc. RNDr. David Friedecký, Ph.D.

Avail. sem.: S

The aim of the subject is to inform students about the laboratory methods and basic calculations employed in disease diagnostics and monitoring. Emphasis will be put on understanding of the significance of laboratory methods in the context of complex diagnostic procedure (involving history, physical examination, imaging techniques etc.) as well as their specific contribution in selected pathological states. The interactive form of tuition (incl. simulations, solving model situations, the use of case reports and discussion) will assist students in mastering the rational approach to laboratory test indication and the fundamentals of result interpretation.

Qualifying courses: LCH/VAA11, LCH/VAA20 nebo LCH/VAB21, PFY/VAB11

LCH/VAB20 Biochemistry 1

0 cr. Con

Přednáška 30 [hrs/sem] + Cvičení 45 [hrs/sem]

prof. RNDr. Jitka Ulrichová, CSc.

Avail. sem.: S

The aim of the subject is to explain teoretical principles of biochemistry and the regulatory mechanisms of basic metabolic pathways. This knowledge is essential for interpretation of physiological and pathological events in human organism. Students are also trained in laboratory classes with respect to master simple biochemical analyses and the ability to interpret the results from laboratory tests.

Qualifying courses:

LCH/VAA11, BIO/VAA11

LCH/VAB21 Biochemistry

16 cr. Con.Ex

Přednáška 60 [hrs/sem] + Cvičení 60 [hrs/sem]

prof. RNDr. Jitka Ulrichová, CSc.

Avail. sem.: S

The aim of the subject is to explain teoretical principles of biochemistry and the regulatory mechanisms of basic metabolic pathways. This knowledge is essential for interpretation of physiological and pathological events in human organism. Students are also trained in laboratory classes with respect to master simple biochemical analyses and the ability to interpret the results from laboratory tests.

Qualifying courses:

LCH/VAA21 nebo LCH/VAB20

LCH/VAB52

Microbiome and Its Role in the Hum. Body

2 cr. Con

Seminář 8 [hrs/sem]

Mgr. Lenka Jourová, Ph.D.

Avail. sem.: S

The aim of the subject is to define the microbiome and explain its role in the human body, especially in pathological processes, from a biochemical point of view. The emphasis is placed on microbial metabolism in the digestive tract and its further impact on the whole organism. The subject builds on knowledge of microbiology and deals with the molecular mechanisms of biochemical processes and their regulation by microbiome and its metabolites.

Qualifying courses:

LCH/VCA20 , LCH/VAB20 nebo LCH/VAB21 nebo

LCH/ZAB21, MIK/ZAA12, MIK/VAB11 nebo MIK/ZAB11

LCH/VA031

Clinical Biochemistry

2 cr. Con,Ex

Cvičení 21 [hrs/sem]

doc. MUDr. Josef Bartek, CSc.

Avail. sem.: W/S

The aim of Clinical Biochemistry lessons is independent interpretation of clinical-biochemical findings, differential diagnostics, optimization of therapy and monitoring of efficiency of therapy (based on metabolic case histories).

Qualifying courses:

LCH/VAA20 nebo LCH/VAB21

LCH/ZAA11

Medical Chemistry

3 cr. Con,Ex

Přednáška 15 [hrs/sem] + Cvičení 30 [hrs/sem]

prof. Ing. Jan Vacek, Ph.D.

Avail. sem.: W

The aim of the subject is to recall basic terms and to extend knowledge in general, inorganic and organic chemistry. Students will learn the chemical composition of dental tissue and dental materials and the chemical structure and function of other substances present in the buccal cavity (oral hygiene preparations, drugs, etc.). Further, they will acquire an outlay of principles of chemical processes that can occur there. From practical aspect, students will get basic knowledge and skills required for work in a chemical laboratory.

LCH/ZAA21

Biochemistry 1

0 cr. Con

Přednáška 15 [hrs/sem] + Cvičení 45 [hrs/sem]

doc. RNDr. Eva Anzenbacherová, CSc.

Avail. sem.: W

The aim of the subject is to explain theoretical principles of biochemistry and regulation mechanisms of basic metabolic pathways in eukaryotic cells. The emphasis is given on metabolic reaction in digestive organs and connective tissues, on the

biochemistry of saliva and on the effect of diet on selected metabolic processes.

Qualifying courses: LBF/ZAB11, LCH/ZAA11, BIO/ZAA11, NAN/ZAB11, CJA/ZAB41,

CJA/ZAA41, ST1/ZAA40, ST1/ZAB40, ST1/ZAB01, HIE/ZAB11,

KAR/VAB11

LCH/ZAA41 Calculations in Medical Chemistry

1 cr. Con

Seminář 8 [hrs/sem] Avail. sem.: W

Mgr. Martina Bancířová, Dr.

The aim of the subject is to recall basic terms and to extend knowledge in calculations required in medical chemistry.

Qualifying courses: LCH/ZAA11

LCH/ZAB21 Biochemistry 2

9 cr. Con,Ex

Přednáška 15 [hrs/sem] + Cvičení 30 [hrs/sem]

doc. RNDr. Eva Anzenbacherová, CSc.

Avail. sem.: S

The aim of the subject is to explain theoretical principles of biochemistry and regulation mechanisms of basic metabolic pathways in eukaryotic cells. The emphasis is given on metabolic reaction in digestive organs and connective tissues, on the biochemistry of saliva and on the effect of diet on selected metabolic processes.

Qualifying courses:

 $LCH/ZAA11\;,\;BIO/ZAB11\;,\;\;NAN/ZAB11\;,\;\;CJA/ZAB41\;,\;\;LBF/ZAB11\;,$

LCH/ZAA21, CJA/ZAA41, ST1/ZAA40, ST1/ZAB40, ST1/ZAB01,

HIE/ZAB11, KAR/VAB11

MIK – DEPARTMENT OF MICROBIOLOGY

MIK/VAA12 Microbiology 2

6 cr. Con,Ex

Přednáška 30 [hrs/sem] + Cvičení 30 [hrs/sem]

prof. MUDr. Milan Kolář, Ph.D.

Avail. sem.: W

To gain a basic overview of the most common infections - pathogens, vectors, nature, epidemiology, diagnosis, prevention and treatment. To become familiar with the tools in the pathogenic effect of microbes and defence mechanisms in humans. To get an overview of indications and options for collecting clinical samples for microbiological examination. To acquire general knowledge of sample analyses and identification of aetiological agents, including the time requirements. To be capable of interpreting microbiological results.

Qualifying courses:

MIK/VAB11

MIK/VAB11

Microbiology 1

3 cr. Con

Přednáška 30 [hrs/sem] + Cvičení 30 [hrs/sem]

prof. MUDr. Milan Kolář, Ph.D.

Avail. sem.: S

To practice basic skills and measures in working with infectious materials. To acquire knowledge of taxonomy, morphology, genetics and physiological properties of microroganisms. To gain an overview of diagnostic methods and microbiology laboratory services. To be capable of selecting the most suitable examinations. To become familiar with antimicrobial agents, their prophylactic and therapeutic use, and with the principles of disinfection and sterilization.

Qualifying courses:

BIO/VAB11, LCH/VAA11, LBF/VAB11, CJA/VAB41, CJA/VAB31

nebo CJA/VA031 , NAN/VAB11 nebo NAN/VAB13 ,

NAN/VAA11 nebo NAN/VAA13, PVL/VAB71 nebo

PVL/VAB72 nebo SOL/VAB70 nebo SOL/VAB71,

 $LCH/VAB20\;,\;HIE/VAB11\;,\;\;KAR/VAB11$

MIK/VA051

Clinical Cases of Antibiotic Therapy

1 cr. Co

Seminář 6 [hrs/sem]

prof. MUDr. Milan Kolář, Ph.D.

Avail. sem.: W/S

The aim is to introduce students to the principles of adequate antibiotic therapy of the most common bacterial infections in the hospital and community. The principles of identification of the cause of infection and selection of the most appropriate therapy will be presented, including the potential consequences of inadequate therapeutic approach.

Qualifying courses:

MIK/VAA12, FAR/VAB11

MIK/VA071

Clinical Cases of Viral Infections

1 cr. Co Seminář 5 [hrs/sem] prof. MUDr. Milan Kolář, Ph.D.

The aim is to introduce students to the basis of diagnosis and adequate therapy of the most common viral infections. The principles of identification of the etiological agents and selection of the most appropriate therapy will be presented.

Qualifying courses: MIK/VAA12, FAR/VAB11

MIK/VA081 Management of ATB Treatment According...

3 cr. Co Seminář 30 [hrs/sem]

Avail. sem.: W/S

Avail. sem.: W/S

prof. MUDr. Milan Kolář, Ph.D.

The aim of the course is to inform students with the practical management of antibiotic treatment for a particular patient according to the principles of Antibiotic stewardship.

MIK/VAA12, FAR/VAB11 Qualifying courses:

MIK/VA082 Diagnosis of Covid-19, Treatment Options 2 cr. Co

Seminář 8 [hrs/sem] Avail. sem.: W/S

prof. MUDr. Milan Kolář, Ph.D.

The aim of the course is to inform students with the principles of diagnosis and adequate treatment of Covid-19.

MIK/VAA12, FAR/VAB11 Qualifying courses:

MIK/ZAA12 Microbiology 2 - Oral Microbiology

Přednáška 15 [hrs/sem] + Cvičení 30 [hrs/sem]

prof. MUDr. Milan Kolář, Ph.D.

Avail. sem.: W

To gain a basic overview of the most common mouth infections - pathogens, epidemiology, diagnosis, prevention and treatment. To become familiar with the tools in the pathogenic effect of microbes and defence mechanisms in humans. To get an overview of indications and options for collecting clinical samples for microbiological examination. To acquire general knowledge of other microbes and infections, sample analyses and identification of etiological agents, including the time requirements. To be capable of interpreting microbiological results.

Qualifying courses:

MIK/ZAB11

MIK/ZAB11

Microbiology 1

0 cr. Con

Přednáška 15 [hrs/sem] + Cvičení 30 [hrs/sem]

prof. MUDr. Milan Kolář, Ph.D.

Avail. sem.: S

To practice basic skills and measures in working with infectious materials. To acquire knowledge of taxonomy, morphology, genetics and physiological properties of microorganisms. To gain an overview of diagnostic methods and microbiology laboratory services. To be capable of selecting the most suitable examinations, especially in mouth infections. To become familiar with antimicrobial agents, their prophylactic and therapeutic use, and with the principles of disinfection and sterilization in dentistry.

Qualifying courses:

LCH/ZAA11, LBF/ZAB11, NAN/ZAB11, BIO/ZAB11, CJA/ZAB41, CJA/ZAA41, ST1/ZAA40, ST1/ZAB40, ST1/ZAB01, HIE/ZAB11, KAR/VAB11

MTM – INSTITUTE OF MOLECULAR AND TRANSLATIONAL MEDICINE

MTM/VAA21

Animal Models of Human Diseases

Con 2 cr.

Seminář 10 [hrs/sem]

MUDr. Petr Džubák, Ph.D.

Avail. sem.: W

The aim of the subject is to provide students with a general overview of the methods of care and experimental work with laboratory animals and their use as study models of human diseases.

Qualifying courses:

BIO/VAB11 nebo BIO/VAB12

MTM/VAB31DNA Profiling and Its Forensic Interpr..

2 cr. Con Seminář 8 [hrs/sem]

prof. Mgr. Jiří Drábek, Ph.D. Avail. sem.: S

Students are introduced to probabilistic inferential logic and population genetics to allow for interpretation of kinship testing and analysis of crimescene DNA traces.

Qualifying courses:

BIO/VAB11 nebo BIO/VAB12 nebo BIO/ZAB11

NAN – DEPARTMENT OF ANATOMY

NAN/VAA11 Anatomy I 0 cr.

Con

Přednáška 30 [hrs/sem] + Cvičení 45 [hrs/sem]

RNDr. Miroslav Kutal, CSc.

Avail. sem.: W

General and systematic osteology, arthrology and myology. Peripheral nervous and vessels systems of limbs. Topography of the upper and lower limbs. Practical dissection week - dissection of limbs. The heart and large vessels. Digestive, respiratory, urogenital systems including its blood supply, innervations and lymphatic drainage. Peripheral parts of the cranial nerves (V., VII., IX., X., XI., XII.). Topography of body regions. Practical dissection week - dissection of the cadaver. The students gain detailed knowledge from systematic anatomy of studied organ's systems, its main function and topographical relations. NAN/VAA14

NAN/VAA12

Qualifying courses:

Anatomy II

8 cr. Con, Ex

Přednáška 60 [hrs/sem] + Seminář 45 [hrs/sem]

RNDr. Miroslav Kutal, CSc.

Avail. sem.: W

Sensory organs, central nervous system (CNS), cranial nerves (structure and its branches), autonomic nervous system, nervous pathways. Topographical anatomy focused on head and neck regions. The students gain basic knowledge from structure and function of nervous system, sensory organs and topography of whole body.

Qualifying courses:

NAN/VAB11 nebo

NAN/VAB13, CJA/VAB31, KAR/VAB11,

LCH/VAA11, LBF/VAB11, BIO/VAB11, CJA/VAB41

NAN/VAA13

Anatomy 1

0 cr. Con

Přednáška 60 [hrs/sem] + Cvičení 60 [hrs/sem]

doc. RNDr. Petr Mlejnek, Ph.D.

Avail. sem.: W

Building on secondary school level of knowledge, the aim of this subject is to introduce main hierarchy of the human body description. Relations cell - tissue - organ - system - organism will be discovered. These interconnections will be further expanding using the Anatomical Terminology as the base of the Medical Terminology. In the preliminary stages we work on the principals

of the general osteology, arthrology, myology, angiology and neurogenesis. This knowledge will be developed in systematic and topographical relations as the objective to the practical and clinical usage.

Qualifying courses:

NAN/VAA14

NAN/VAA14

Anatomy - Dissection Course 1

0 cr.

Cvičení 30 [hrs/sem]

MUDr. Alžběta Beislová

Avail. sem.: W

General and systematic osteology, arthrology and myology. Peripheral nervous and vessels systems of limbs. Topography of the upper and lower limbs. Practical dissection week - dissection of limbs. The heart and large vessels. Digestive, respiratory, urogenital systems including its blood supply, innervations and lymphatic drainage. Peripheral parts of the cranial nerves (V., VII., IX., X., XI., XII.). Topography of body regions. Practical dissection week - dissection of the cadaver. The students gain detailed knowledge from systematic anatomy of studied organ's systems, its main function and topographical relations.

NAN/VAB11

Anatomy I

11 cr. Con.Ex

Přednáška 30 [hrs/sem] + Cvičení 45 [hrs/sem]

doc. MVDr. Mária Miklošová, Ph.D.

Avail. sem.: S

General and systematic osteology, arthrology and myology. Peripheral nervous and vessels systems of limbs. Topography of the upper and lower limbs. Practical dissection week - dissection of limbs. The heart and large vessels. Digestive, respiratory, urogenital systems including its blood supply, innervations and lymphatic drainage. Peripheral parts of the cranial nerves

VII., IX., X., XI., XII.). Topography of body regions. Practical dissection week - dissection of the cadaver. The students gain detailed knowledge from systematic anatomy of studied organ's systems, its main function and topographical relations.

Qualifying courses:

NAN/VAA11 nebo NAN/VAA13, NAN/VAA14, NAN/VAB14

NAN/VAB13

Anatomy 2

13 cr. Con, Ex

Přednáška 60 [hrs/sem] + Cvičení 45 [hrs/sem]

doc. RNDr. Petr Mlejnek, Ph.D.

Avail. sem.: S

The aim of the subject is to continue in theory and practical application of the systematic anatomy and basics of topographical anatomy knowledge obtained in the subject Anatomy 1 Further interconnection to other subjects with the functional specialization is essentional too. It is focused on the ability of analysis of the basic macroscopic structure of human body in relation to the microscopic structures. The main principals of the elemental structures related to the functional understanding of central and peripheral nervous system, system of the cranial nerves and autonomic nervous system, structure of the sensory organs, respiratory, urinary and genital systems.

Qualifying courses: NAN

NAN/VAA11 nebo NAN/VAA13, NAN/VAA14, NAN/VAB14

NAN/VAB14

Anatomy - Dissection Course 2

0 cr. -Cvičení 30 [hrs/sem]

MUDr. Alžběta Beislová Avail. sem.: S

General and systematic osteology, arthrology and myology. Peripheral nervous and vessels systems of limbs. Topography of the upper and lower limbs. Practical dissection week - dissection of limbs. The heart and large vessels. Digestive, respiratory, urogenital systems including its blood supply, innervations and lymphatic drainage. Peripheral parts of the cranial nerves (V., VII., IX., X., XI., XII.). Topography of body regions. Practical dissection week - dissection of the cadaver. The students gain detailed knowledge from systematic anatomy of studied organ's systems, its main function and topographical relations.

Qualifying courses: NAN/VAA11 nebo NAN/VAA13

NAN/VAB21

Clinical and Topographical Anatomy

2 cr. Co Cvičení 15 [hrs/sem]

doc. RNDr. Petr Mlejnek, Ph.D.

Avail. sem.: S

The subject aims to intensify knowledge in various domains through topographic anatomy and interconnecting it with detailed systematic, functional and clinical anatomy, with focus on traumatology, surgery, orthopaedics, neurology and other clinical fields. The subject will put emphasis on utilising knowledge of anatomy in clinical work and on clinical and topographic anatomy, in relation to surgical approaches and in the context of correct performance of a surgical procedure with minimum damage to healthy tissues. Even today, anatomy is not a self-contained science; quite to the contrary, due to extensive development in surgical fields, the study of anatomy still remains very important and enjoys the interest of experts, especially from surgical fields.

Qualifying courses:

NAN/VAB11 nebo NAN/VAB13, NAN/VAA11 nebo

NAN/VAA13

NAN/ZAA11

Anatomy

0 cr. Con

Přednáška 60 [hrs/sem] + Cvičení 45 [hrs/sem]

doc. RNDr. Petr Mlejnek, Ph.D.

Avail. sem.: W

General and systematic osteology, arthrology and myology, specially focus on head region (temporomandibular joint's importance, masticatory muscles blood supply and innervation included). General angiology, systematic overview of upper and lower limbs' blood supply. General anatomy of the peripherous nervous system. The heart and system of main vessels. The students gain basic knowledge from systematic and clinic anatomy which are closely linked to consequent pre-clinical and clinical subjects. The extension of subject meets students' needs for future dentistry work.

NAN/ZAA32

Normal Anatomy of the Head and Neck

2 cr. Con,Ex Seminář 15 [hrs/sem]

Avail. sem.: W

Superficial and deep structures and spaces of orofacial region in head region together with associated neck regions. Specialized regions necessary for stomatologist are added, e.g. gingivodental region, dentoalveolar topography. The face bones' fractures of the skull and x-ray anatomy are included too. The students gain basic knowledge of clinical anatomy of viscerocranium and neck which is bound to help them in consequent study of dentoalveolar and maxilofacial surgery.

Qualifying courses:

NAN/ZAA11, NAN/ZAB11

NAN/ZAB11

Anatomy

13 cr. Con,Ex

Přednáška 60 [hrs/sem] + Cvičení 45 [hrs/sem]

doc. RNDr. Petr Mlejnek, Ph.D.

Avail. sem.: S

General splanchnology, systematic anatomy of the digestive system with special interest in oral cavity. Systematic anatomy of the respiratory and urogenital systems. General and systematic neuranatomy. Systematic Anatomy of cranial nerves. General Anatomy of senses. The students gain basic knowledge from systematic, topographic and clinic anatomy with link to consequent pre-clinical and clinical subjects. The extension of subject meets students' needs for future dentistry work.

Qualifying courses:

NAN/ZAA11

NEU - DEPARTMENT OF NEUROLOGY

NEU/VA012

Neurology

7 cr. Con,Ex

Cvičení 72 [hrs/sem] + Seminář 18 [hrs/sem]

prof. MUDr. Petr Kaňovský, CSc.

Avail. sem.: S

The subject complexly deals with the current issues in neurology and neurosurgery, including anatomy, physiology, syndromology, pathophysiology, diagnostics and treatment of the peripheral and central nervous system disorders. Anatomy, physiology of the peripheral and central nervous system. Pathophysiology, diagnostics and treatment of the peripheral and central nervous system disorders. Clinical neurological examination including patient history, syndromological and topical diagnostics, planning of complementary examinations (including the assessment of the results of laboratory, neuroradiological, neurophysiological and other tests), formulation of etiological diagnosis, therapy plan in acute and chronic neurological disorders (epilepsy, sleep disorders, cerebrovascular diseases, injuries, infectious diseases, tumours, extrapyramidal disorders, neurodegenerative diseases, headache, demyelinating diseases, paraneoplastic and toxonutritive affections of nervous system, brain oedema, hydrocephalus, unconsciousness, brain death, disorders of the peripheral nerves, spine and spinal cord, cranial nerves, autonomic nervous system, muscles, disorders of neuromuscular transmission).

IN2/VAA11, MIK/VAA12, PVL/VAB13 Qualifying courses: nebo PVL/VAB14 SOL/VAA11 SOL/VAA12 nebo SOL/VAB12, FAR/VAB11, PAT/VAB11, PFY/VAB11, PSY/VAB11 neboPSY/VAB13, IN2/VAB21, KIM/VAB11 nebo KIM/VAB12, CJA/VAB43 nebo CJA/VAB44

NEU/VA013 Neurology

5 cr. Con, Ex Cvičení 72 [hrs/sem] + Seminář 18 [hrs/sem]

prof. MUDr. Petr Kaňovský, CSc.

Avail. sem.: S

The course covers an up-to-date selection of topics in neurology and neurosurgery, including anatomy, physiology, syndromes, pathophysiology, diagnostics and treatment of peripheral and central nervous system disorders. Provides practical training in clinical neurological examination including patient history, diagnosis at the level of syndromes and lesion localization, planning complementary examinations (including the evaluation of laboratory, neuroradiological, neurophysiological and other test results), formulation of aetiological diagnosis, planning therapy in acute and chronic neurological disorders (epilepsy, sleep disorders, cerebrovascular diseases, injuries, infectious diseases, tumours, extrapyramidal disorders, neurodegenerative diseases, headache, demyelinating diseases, paraneoplastic and toxonutritive affections of the nervous system, brain oedema, hydrocephalus, unconsciousness, brain death, disorders of the peripheral nerves, spine and spinal cord, cranial nerves, autonomic nervous system, muscles, disorders of neuromuscular transmission).

IN2/VAA11, MIK/VAA12, FAR/VAB11, INO/VAA11 nebo Qualifying courses: PAT/VAB11, PFY/VAB11, IN2/VAB21 nebo IN2/VAB22, KIM/VAB11nebo KIM/VAB12, CJA/VAB43 nebo

CJA/VAB44

NEU/VA042 Clinical Rehabilitation

1 cr. Con,Ex Cvičení 10 [hrs/sem] + Seminář 10 [hrs/sem]

doc. MUDr. Alois Krobot, Ph.D.

Avail. sem.: W/S

The aim of the course is to introduce clinical rehabilitation, basic functional tests of motor skills and functional therapy options. The student should examine a patient with respect to detection of the most common functional disorders of motion system and be familiar with possible compensation of these disorders. Student becomes familiar with basic principles of rehabilitation programmes in significant and common diagnosis and realizes connection among other clinical fields. The part of this lessons is to familiarize with the scientific principles of spa medicine including the practical indication of this therapy.

PAT/VAB11, CJA/VAB43 nebo CJA/VAB44, IN0/VAA11 Qualifying courses: nebo IN2/VAA11, CH0/VAB11 nebo CH0/VAB12 IN2/VAA11, IN2/VAB21 nebo IN0/VAB11 nebo IN2/VAB22, PFY/VAB11 nebo

Preventive Physiotherapy for Dentistry NEU/ZAA11

Co 1 cr. Seminář 15 [hrs/sem]

doc. MUDr. Alois Krobot, Ph.D. Avail. sem.: W

Introduction to therapeutic rehabilitation, physical therapy and physiatry. Fundamentals of kinesiotherapy of temporomandibutar joint are explained as well as reflex changes in orofacial and nuchal regions, postisometric relaxation of muscles in orofacial and ventral neck region.

NEU/ZAB11 Neurology 2 cr. Con,Ex

MUDr. Andrea Bártková, Ph.D.

Cvičení 15 [hrs/sem] + Seminář 15 [hrs/sem]

The subject deals with the current issues of neurology, syndromology, pathophysiology, diagnosis, differential diagnosis and treatment of neurological disorders in relationship with dentistry. Cranial nerves affections - inflammations, tumours, neuropathies, traumatic lesions, craniocerebral and orofacial injuries. Differential diagnosis and therapy of headache and orofacial pain (migraine, neuralgia, syndrome of intracranial hypertension). Overview of orofacial presentation of other neurological disorders (i.e. myopathy, amyotrophic lateral sclerosis, extrapyramidal disorders, myasthenia gravis). Overview of the most common neurological emergencies (acute stroke, epilepsy, etc.). Brief survey of other chapters of neurology (disorders of muscles, peripheral nerves, spinal cord, spine and intervertebral discs, neurometabolic, neurodegenerative and demyelinating disorders, tumours and inflammations of the nervous system etc.).

Qualifying courses:

FYZ/ZAB11, FYZ/ZAA11, NAN/ZAA11, NAN/ZAB11

NCH – DEPARTMENT OF NEUROSURGERY

NCH/VA011 Neurosurgery

2 cr. Co Seminář 18 [hrs/sem]

Avail. sem.: W/S

prof. MUDr. Lumír Hrabálek, Ph.D., doc. MUDr. Ondřej Kalita,

Ph.D., MBA

Teaching field of neurosurgery, knowledge about the operational diagnoses and surgical treatment, knowledge of pathophysiology of the disease, diagnostic methods and clinical examination of the patient.

Qualifying courses:

IN0/VAA11 nebo IN2/VAA11, CH0/VAB11 nebo

NUM – DEPARTMENT OF NUCLEAR MEDICINE

NUM/VAB22 Radiopharmacy & Studies of Radiopharmac.

2 cr. Co

Cvičení 4 [hrs/sem] + Seminář 4 [hrs/sem]

doc. MUDr. Pavel Koranda, Ph.D.

doc. MODI. I avei Koranda, I n.D. Avan. Sem.. 5

The main aim is to increase the knowledge of basics of radiopharmacy, including new research in the field of nuclear medicine. To familiarize students with practical activity in a pre-clinical research laboratory equipped with a PET / SPECT / CT camera.

Qualifying courses:

 $\mathbf{FYZ/VAB12}$, $\mathbf{PFY/VAB11}$ nebo $\mathbf{RAD/VA013}$, $\mathbf{RAD/VA011}$

nebo RAD/VA013

OCC – DEPARTMENT OF OPHTHALMOLOGY

OCC/VA011 Ophthalmology

4 cr. Con,Ex

Seminář 8 [hrs/sem] + Cvičení 40 [hrs/sem]

MUDr. Klára Marešová, Ph.D., FEBO, prof. MUDr. Jiří Řehák, CSc., Avail. sem.: W/S

FEB(

Student gets familiar with the issue of diseases of the orbit, anterior and posterior segment of the eye. Then they should get familiar with ophthalmological inspection procedures needed to obtain a valid diagnose, they should get acquainted with ophthalmological medicaments and surgical techniques used in ophthalmology as well.

Qualifying courses:

MIK/VAA12, PVL/VAB13 nebo PVL/VAB14 nebo

SOL/VAA11 nebo SOL/VAB12, FAR/VAB11, PLE/VABP1

nebo SOL/VABP1 nebo SOL/VABP2 nebo TPO/VABP2, PAT/VAB11, PFY/VAB11, PSY/VAB11 nebo

PSY/VAB13, KIM/VAB11 nebo KIM/VAB12, CJA/VAB43

nebo CJA/VAB44, IN0/VAA11, IN2/VAB22

ONK – DEPARTMENT OF ONCOLOGY

ONK/VAB32

Oncological Emergencies

2 cr. Con Seminář 8 [hrs/sem]

prof. MUDr. Martin Klabusay, Ph.D.

Avail. sem.: W/S

Students are introduced to oncological emergencies including diagnosis and treatment. Case reports will be discussed (including the analysis of laboratory results and imaging methods). Focus on usage of internal medicine and medicial oncology.

Qualifying courses: ONK

ONK/VA011, CH0/VAB11 nebo CH0/VAB12 nebo

IN0/VAA11 nebo IN0/VAB11 nebo IN2/VAA11,

IN2/VAB21 nebo IN2/VAB22, IN1/VA012 nebo

IN1/VA022

ONK/VA011 Clinical Oncology

3 cr. Con,Ex

Cvičení 24 [hrs/sem]

Avail. sem.: W/S

prof. MUDr. Bohuslav Melichar, Ph.D.

Students will be introduced to the basic diagnosis and treatment of malignant tumors. Emphasis on radiotherapy, chemotherapy, biological targeted therapy, and paliative care will be given. Students will obtain knowledge of the current trends in the management of malignant tumors. They will be introduced to the psychological aspects of cancer patient care.

CH0/VAB12 CH0/VAB11 INO/VAA12 Qualifying courses: $_{
m nebo}$ nebo MIK/VAA12, PVL/VAB13 nebo IN2/VAA11, nebo SOL/VAA11 SOL/VAB12, PVL/VAB14 nebo nebo FAR/VAB11, IN2/VAB21 nebo IN2/VAB22. PLE/VABP2 TPO/VABP1, PAT/VAB11, PFY/VAB11, nebo PSY/VAB11 PSY/VAB13, CJA/VAB43 CJA/VAB44, nebo nebo KIM/VAB12KIM/VAB11 nebo

ORL - DEPARTMENT OF OTORHINOLARYNGOLOGY AND HEAD AND NECK SUR-GERY

ORL/VA011 Otorhinolaryngology 4 cr. Con,Ex

Cvičení 24 [hrs/sem] + Seminář 24 [hrs/sem]

prof. MUDr. Ivo Stárek, CSc.

nebo

Avail. sem.: W/S

The students will acquire complex knowledge in the symptomatology, diagnostics and therapy of all diseases and injuries in the field of otorhinolaryngology.

Qualifying courses:

PAT/VAB11, PFY/VAB11, CJA/VAB43 nebo CJA/VAB44

CH1/VA011

CH1/VA012 nebo CH1/VA013,

ORL/ZAB11 Otorhinolaryngology

3 cr. Con,Ex

Přednáška 30 [hrs/sem] + Cvičení 30 [hrs/sem]

prof. MUDr. Ivo Stárek, CSc.

Avail. sem.: S

The students will acquire basic knowledge in the symptomatology, diagnostics and therapy of all diseases and injuries in the field of otorhinolaryngology. They will be informed in detail about the diseases at the borders of stomatology and otorhinolaryngology.

ORT - DEPARTMENT OF ORTHOPEDICS

ORT/VA011

Orthopedics

4 cr. Con.Ex

Přednáška 30 [hrs/sem] + Cvičení 30 [hrs/sem] + Seminář 20 [hrs/sem]

prof. MUDr. Jiří Gallo, Ph.D.

Avail. sem.: W/S

Student will get acquainted with general principles of orthopaedic surgery; they will be introduced into prevention, diagnostics and therapy of the most frequent orthopaedic diseases. Special attention will be given to acute events in orthopaedics.

nebo

Qualifying courses:

RAD/VA011 nebo IN2/VAA11, CH1/VA011 RAD/VA013, IN0/VAA11

nebo CH1/VA012

nebo

nebo

CH1/VA013, PRL/VA011,

CH0/VAB11

CH0/VAB12 nebo

nebo

IN0/VAB11 FAR/VAA12

IN2/VAA11, FAR/VAA11

nebo nebo

nebo

NEU/VA013, IN1/VA022

FAR/VAA13, NEU/VA012

PAT – DEPARTMENT OF CLINICAL AND MOLECULAR PATHOLOGY

PAT/VAA11

Pathology

Přednáška 45 [hrs/sem] + Cvičení 60 [hrs/sem]

Con $0 \, \mathrm{cr}$.

prof. MUDr. Jiří Ehrmann, Ph.D.

Avail. sem.: W

The main aim of pathology is study of causes, pathogenesis and morphology of diseases. Moreover, with relation to these general aspects of diseases, the students learn basic medical terminology.

Qualifying courses:

NAN/VAA12 nebo NAN/VAB13, HIE/VAA12, CJA/VAB42

PAT/VAB11

Pathology

14 cr. Con,Ex

Přednáška 60 [hrs/sem] + Cvičení 60 [hrs/sem]

prof. MUDr. Jiří Ehrmann, Ph.D.

Avail. sem.: S

The main aim of pathology is study of causes, pathogenesis and morphology of diseases. Moreover, with relation to these general aspects of diseases, the students learn basic medical terminology.

Qualifying courses:

 ${\rm PAT/VAA11}\;,\;\;{\bf NAN/VAA12}\;\;{\rm nebo}\;\;{\bf NAN/VAB13}\;,\;\;{\bf HIE/VAA12}\;,$

CJA/VAB42

PAT/VAB31 Molecular Pathology

3 cr. Con

Seminář 15 [hrs/sem]

doc. Mgr. Jan Bouchal, Ph.D.

Avail. sem.: S

Molecular pathology (MP) is the study of the etiology and pathogenesis of disease through the analysis of molecular modifications of cells and tissues, and as a profession it involves using the knowledge of the etiopathogenesis of the disease to make a diagnosis and give prognostical and therapeutical information.

Qualifying courses:

PAT/VAA11, NAN/VAA12 nebo NAN/VAB13, HIE/VAA12,

CJA/VAB42

PAT/ZAA22 Pathology - Oral Pathology

7 cr. Con,Ex

Přednáška 30 [hrs/sem] + Cvičení 30 [hrs/sem]

prof. MUDr. Jiří Ehrmann, Ph.D.

Avail. sem.: W

The main aim is basic orientation in special pathology focused on oral pathology in the range essential for stomatologists. Acquaintance with morphological correlates of organ and histological changes.

Qualifying courses:

PAT/ZAB11, HIE/ZAA12

PAT/ZAB11 Pathology

4 cr. Con

Přednáška 30 [hrs/sem] + Cvičení 30 [hrs/sem]

prof. MUDr. Jiří Ehrmann, Ph.D.

Avail. sem.: S

The main aim is basic orientation in pathology focused on pathology of inflammation, oncological pathology and etiological pathology. Acquaintance with morphological correlates of organ and histological changes.

Qualifying courses:

 $\begin{array}{c} LBF/ZAB11\;,\;\;NAN/ZAB11\;,\;\;BIO/ZAB11\;,\;\;CJA/ZAB41\;,\;\;LCH/ZAA11\;,\\ CJA/ZAA41\;,\;\;ST1/ZAA40\;,\;\;\;ST1/ZAB40\;,\;\;ST1/ZAB01\;,\;\;HIE/ZAB11\;,\\ KAR/VAB11 \end{array}$

PFY - DEPARTMENT OF PATHOLOGICAL PHYSIOLOGY

PFY/VAA11

Pathological Physiology

0 cr. Con

Přednáška 30 [hrs/sem] + Cvičení 45 [hrs/sem]

prof. MUDr. Martin Petřek, CSc.

Avail. sem.: W

During the course of students acquire knowledge about causes of pathological states, molecular, cellular, organ and systemic mechanisms of pathogenesis of major medical syndromes, symptoms, and diseases. Students study the basic clinical terminology, role of genetic and environmental factors in development of the diseases, general mechanisms of disease development. The course starts with studying the typical pathological processes: cell damage, inflammation, fever, disorders of nutrition macro- and microelements' balance, water and acid-base balance. Later on students acquire knowledge about typical disorders in the blood system and hemostasis. Pathophysiology of digestive system and main neurologic disorders is also taught during the course.

Qualifying courses:

HIE/VAA12, FYZ/VAB11 nebo FYZ/VAB12, LCH/VAA20 nebo LCH/VAB21, NAN/VAA12 nebo NAN/VAB13,

CJA/VAB42

PFY/VAB11

Pathological Physiology

10 cr. Con.Ex

Přednáška 30 [hrs/sem] + Cvičení 60 [hrs/sem]

prof. MUDr. Martin Petřek, CSc.

Avail. sem.: S

During the course of study students study common principles of the pathogenesis of the most important disorders of respiratory, cardiovascular, endocrine systems and kidneys, provided with interpretation of typical clinical case studies. Student learn to analyse role of different risk factors in pathogenesis of atherosclerosis, arterial hypertension, bronchial asthma, COPD, diabetes mellitus, kidney failure and other important medical states, comparing common and different pathways in pathogenesis of these states. Etiology, pathogenesis and clinical manifestations of life-threatening states (shock, coma, heart/respiratory/kidney failures) are explained together with main principles of diagnostics, treatment and prophylaxis of

the disorders. The students are taught to consider the complex relations between causes, dynamics and progress of diseases and to perceive the integrative essence of medicine.

Qualifying courses:

PFY/VAA11, **FYZ/VAB11** $_{
m nebo}$ FYZ/VAB12, LCH/VAA20

LCH/VAB21, CJA/VAB42, HIE/VAA12

PFY/VA021

Seminars in Pathophysiology

2 cr. Con

Seminář 10 [hrs/sem]

prof. MUDr. Martin Petřek, CSc.

Avail. sem.: W/S

The course extends the subject of Pathophysiology at a period when students have already gained their first experience at the clinical departments and therefore they can better develop logical links between theory and practice, between causes and signs or symptoms, the disease and its diagnostics and/or between diagnosis and its treatment. The topic proposal reflects students'interest incl. evaluation and students also actively contributed to formulation of this proposal, in particular as to which areas put emphasis and focus, i.e. to medicine, namely cardiology, pneumology or endocrinology. The planned teachers'assignments and their specialisations are in agreement with the topic outline.

Qualifying courses:

PFY/VAB11 nebo PFY/ZAA12

PFY/ZAA12

Pathological Physiology 2

8 cr. Con,Ex

Přednáška 15 [hrs/sem] + Cvičení 45 [hrs/sem]

prof. MUDr. Martin Petřek, CSc.

Avail. sem.: W

During the course dentistry students of acquire knowledge about molecular, cellular, organ and systemic mechanisms of pathogenesis of disorders of nutrition, gastrointestinal tract, kidneys, endocrine and nervous system. Pathophysiology of disorders of connective tissues and bones is also discussed. Students study systemic manifestations of abovementioned disorders and emphasis is made on pathogenesis of orofacial changes. Students learn to analyze typical clinical case studies related to dentistry praxis with reference to common principles of etiology and pathogenesis of diseases.

Qualifying courses:

PFY/ZAB11, BIO/ZAB11, NAN/ZAB11, CJA/ZAB41, FYZ/ZAB11,

LCH/ZAB21, LCH/ZAA21, HIE/ZAA12

PFY/ZAB11

Pathological Physiology 1

Con

Přednáška 30 [hrs/sem] + Cvičení 45 [hrs/sem]

prof. MUDr. Martin Petřek, CSc.

Avail. sem.: S

The major objective of the course is to provide students of dentistry with knowledge that enables them to understand the causes of pathological states and the molecular, cellular, organ and systemic mechanisms of development of medical syndromes, symptoms, and major diseases. The course starts with studying the typical pathological processes: cell damage, inflammation, fever, disorders of water, ion and acid-base balance. Further on during the course students study pathophysiology of respiratory, cardiovascular system, blood and coagulation. Special attention is provided to manifestations of the systemic diseases in oral cavity, and role of the disorders of oral cavity in etiology and pathogenesis of the systemic diseases.

Qualifying courses:

NAN/ZAB11, BIO/ZAB11, LCH/ZAA11, LBF/ZAB11, CJA/ZAB41, CJA/ZAA41, ST1/ZAA40, ST1/ZAB40, HIE/ZAB11, KAR/VAB11, ST1/ZAB01

PGY - DEPARTMENT OF OBSTETRICS AND GYNECOLOGY

PGY/VABP1

Gynecology and Obstetrics-Clinical Tr.

0 cr.Con Praxe 2 [wks/sem]

doc. MUDr. Jiří Dostál, Ph.D.

Avail. sem.: S

During the clerkship students should perfect gynecological examinations including colposcopy and sonography. They should improve their skills in prevention, screening and diagnosis, treatment of emergencies. They should participate on family planning, pre-conception and pre-natal consultation, low risk labour assistance, sexually transmitted diseases and menopause. They should also assist at gynecological procedures performed at operating theatres.

Qualifying courses:

PGY/VA011, CH1/VA011

CH1/VA012

neboCH1/VA013, PAT/VAB11, PFY/VAB11, CJA/VAB43 nebo

CJA/VAB44

PGY/VABP2

Gynecology and Obstetrics-Clinical Tr.

Con 1 cr.

Praxe 2 [wks/sem]

MUDr. Veronika Durdová, Ph.D.

Avail. sem.: S

During the clerkship students should perfect gynecological examinations including colposcopy and sonography. They should improve their skills in prevention, screening and diagnosis, treatment of emergencies. They should participate on family planning, pre-conception and pre-natal consultation, low risk labour assistance, sexually transmitted diseases and menopause. They should also assist at gynecological procedures performed at operating theatres.

Qualifying courses:

PGY/VA011, CH1/VA011

nebo

CH1/VA012 nebo

CH1/VA013, PAT/VAB11, PFY/VAB11

PGY/VA011

Gynecology and Obstetrics 1

6 cr.

Co Praxe 70 [hrs/sem] + Seminář 20 [hrs/sem]

prof. MUDr. Radovan Pilka, Ph.D.

Avail. sem.: W/S

The general objective of the discipline is to acquire the basic theoretical as well as practical knowledge in the field of Obstetrics including spontaneous deliveries and possible alternatives, pharmacotherapy in pregnancy, pathologies in pregnancy, physiologic changes during puerperium and possible pathologies. They also should obtain basic theoretical as well as practical knowledge in the field of Gynecology, particularly gynecologic examination, therapy of inflammation, gynecologic operations. They will deepen their theoretical knowledge in the field of family planning, infertility, developmental anomalies, endometriosis and tumours of reproductive organs. An integral part of the training are also emergencies.

Qualifying courses:

CH1/VA011 nebo CH1/VA012

nebo CH1/VA013, PAT/VAB11, PFY/VAB11, CJA/VAB43 nebo CJA/VAB44

PGY/VA012

Gynecology and Obstetrics 2

Con 9 cr. Cvičení 4 [wks/sem]

prof. MUDr. Radovan Pilka, Ph.D.

Avail. sem.: W/S

The course is based on practical training. Students will participate under guidance in Labour ward, Gynaecological ward, Out-patient clinics and Operating theatre. The student will be informed about ethical issues regarding the care of obstetric and gynecological patients. The course is based on the following clinical situations: Normal pregnancy and common pregnancy complications, hypertensive disorders in pregnancy, preeclampsia, gestational diabetes, tromboembolic complications in pregnancy, fetal diagnosis with ultrasound, the use of ultrasound in clinical gynecology and obstetrics, miscarriage and ectopic pregnancy therapeutic abortion, ethical issues, normal labour, common complications during labour, the normal and complicated puerperium, reproductive medicine including infertility and contraception, gynecological infections including sexually transmitted diseases, menstrual disorders in the adolescent and fertile period, benign and malignant gynecological tumors abdominal pain, urinary incontinence, climacteric and postmenopausal problems.

Qualifying courses:

PGY/VA011, PGY/VABP1 nebo PGY/VABP2

PGY/VA013

Gynecology and Obstetrics 2

10 cr. Con

Cvičení 4 [wks/sem] + Seminář 16 [hrs/sem]

prof. MUDr. Radovan Pilka, Ph.D.

Avail. sem.: W/S

The course is based on practical training. Students will participate under guidance in Labour ward, Gynaecological ward, Out-patient clinics and Operating theatre. The student will be informed about ethical issues regarding the care of obstetric and gynecological patients. The course is based on the following clinical situations: Normal pregnancy and common pregnancy complications, hypertensive disorders in pregnancy, preeclampsia, gestational diabetes, tromboembolic complications in pregnancy, fetal diagnosis with ultrasound, the use of ultrasound in clinical gynecology and obstetrics, miscarriage and ectopic pregnancy therapeutic abortion, ethical issues, normal labour, common complications during labour, the normal and complicated puerperium, reproductive medicine including infertility and contraception, gynecological infections including sexually transmitted diseases, menstrual disorders in the adolescent and fertile period, benign and malignant gynecological tumors abdominal pain, urinary incontinence, climacteric and postmenopausal problems.

Qualifying courses:

PGY/VA011, PGY/VABP1 nebo PGY/VABP2

PGY/VA091

Gynecology and Obstetrics

0 cr.

Sri

prof. MUDr. Radovan Pilka, Ph.D.

Avail. sem.: W/S

Verification and evaluation of the level of knowledge of Gynecology, Obstetrics and early neonatal care by examination of the patient, MCQ test and interview.

Qualifying courses:

PGY/VA011, PGY/VABP1 nebo PGY/VABP2, PGY/VA012

PGY/VA013 nebo

PLE – CENTER FOR TELEMEDICINE, SIMULATION AND CLINICAL SKILLS

PLE/VAA81

Basic Procedures in Healthcare 1

Con

Cvičení 16 [hrs/sem] + Seminář 8 [hrs/sem]

Avail. sem.: W

PhDr. Zlata Pražanová, MBA

The aim of this subject is: a) to teach students of general medice the knowledge of the safe execution of basic medical exercises in a vocational classroom; b) to learn how to perform the relevant performance in accordance with valid standards and practically practice the independent performance of performances on models under professional supervision; c) to prepare students of general medicine for the practical implementation of basic clinical practice compliance with applicable standards.

Qualifying courses: BIO/VAB11, CJA/VAB31 nebo CJA/VA031, CJA/VAB41,

HIE/VAB11, KAR/VAB11, LBF/VAB11, NAN/VAB11 nebo NAN/VAB13, PVL/VAB71 nebo PVL/VAB72 nebo

SOL/VAB70 nebo SOL/VAB71, NAN/VAA13, LCH/VAA21

nebo LCH/VAB20, LCH/VAA11

PLE/VAA83 Basic Procedures in Healthcare 3-Cl. Pr.

3 cr. Con

Praxe 56 [hrs/sem] + Seminář 12 [hrs/sem]

PhDr. Zlata Pražanová, MBA Avail. sem.: W

Incorporate the student into the medical team, enable him to make maximum use of knowledge and skills in caring for patients in the real environment of the medical facility. To enable the student to apply and develop communication skills in practice not only in relation to patients, but also to members of the medical team.

Qualifying courses: PLE/VAB81, PLE/VAB81, PLE/VABP1, PVL/VAB71 nebo

PVL/VAB72

PLE/VABP1 Basic Procedures in Healthcare-Clin. Pr.

1 cr. Con Praxe 150 [hrs/sem]

1 cr.

Con

The aim of the subject is: a) to include the student in the medical team, where s/he will be able to apply theoretical knowledge and practical skills in the real environment of the hospital facility, will get to know the system of work of the medical team and the patient medical record management; b) enable the student to perform basic nursing care and procedures, under the guidance and professional supervision of healthcare professionals in clinical practice; c) enable the student to apply appropriate forms of communication with the patient/client before, during and after procedure, with a focus on educating the client and supporting her/his activities in the healing process.

Qualifying courses: PVL/VAB71 nebo PVL/VAB72 nebo SOL/VAB70 nebo SOL/VAB71, NAN/VAB13, NAN/VAA13, CJA/VA031,

BIO/VAB11, CJA/VAB41, HIE/VAB11, LBF/VAB11, KAR/VAB11,

LCH/VAA11 , LCH/VAA21 nebo LCH/VAB20

PLE/VABP2 Obligatory Practice in General Pract...

Praxe 1 [wks/sem]

doc. MUDr. Eva Klásková, Ph.D. Avail. sem.: S

In order to increase their practical skills, students will spend five days at an office of a general practitioner, and gain practical experience with providing primary health care.

Qualifying courses: INO/VAA11 nebo IN2/VAA11, CHO/VAB11 nebo

CH0/VAB12 nebo IN0/VAB11 nebo IN2/VAA11

PLE/VAB81 Basic Procedures in Healthcare 2 2 cr. Con,Ex

Cvičení 16 [hrs/sem] + Seminář 8 [hrs/sem]

PhDr. Zlata Pražanová, MBA Avail. sem.: S

The aim of this subject is: a) to teach students of general medice the knowledge of the safe execution of basic medical exercises in a vocational classroom; b) to learn how to perform the relevant performance in accordance with valid standards and practically practice the independent performance of performances on models under professional supervision; c) to prepare students of general medicine for the practical implementation of basic clinical practice compliance with applicable standards.

Qualifying courses: BIO/VAB11, CJA/VAB31 nebo CJA/VA031, CJA/VAB41,

SOL/VAA41, LCH/VAA11, LCH/VAA21 nebo LCH/VAB20,

NAN/VAA13

PLE/VA031 Acute Conditions in Medicine

6 cr. Co

Cvičení 48 [hrs/sem] + Seminář 48 [hrs/sem]

Avail. sem.: W/S

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prof. MUDr. Miroslav Heřman, Ph.D., prof. MUDr. Pavel Horák, CSc., MUDr. Petr Jakubec, Ph.D., doc. MUDr. Eva Klásková, Ph.D., MUDr. Vladislav Kutěj, prof. MUDr. Tomáš Papajík, CSc., doc. MUDr. Vlastimil Procházka, Ph.D., prof. MUDr. Miloš Táborský, CSc., FESC, MBA, prof. RNDr. Jitka Ulrichová, CSc., doc. MUDr. Ondřej Urban, Ph.D.
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Acquaint students with the principles of emergency medicine. Teach students to behave rationally (examination, treatment and management) when confronted with acute conditions. Explain serious diseases, which can be the cause of acute conditions. Teaching will be realised with the help of simulator and extend of clinical biochemistry and radiology.

Qualifying courses: IN3/VAA12 nebo IN3/VAA13 nebo IN3/VA012, IN3/VAB12 nebo IN3/VAB13 IN3/VA012, nebo NEU/VA012 NEU/VA013, KAR/VA022 nebo nebo CH1/VA012 KAR/VA023 . CH1/VA011 nebo $\mathrm{CH1/VA013}$, $\mathrm{FAR/VAA11}$ nebo FAR/VAA12 nebo FAR/VAA13, RAD/VA011 nebo RAD/VA013, MIK/VAA12, DET/VA091

PLE/VA032 Acute Conditions in Medicine

3 cr. Co Cvičení 15 [hrs/sem] + Seminář 15 [hrs/sem]

MUDr. Petr Jakubec, Ph.D., MUDr. Vladislav Kutěj Avail. sem.: W/S

Acquaint students with the principles of emergency medicine. Teach students to behave rationally (examination, treatment and management) when confronted with acute conditions. Explain serious diseases, which can be the cause of acute conditions. Teaching will be realised with the help of simulator.

Qualifying courses: IN3/VAA12nebo IN3/VAA13, IN3/VAB12 nebo IN3/VAB13 IN3/VA012, NEU/VA012 nebo nebo NEU/VA013, KAR/VA022 nebo KAR/VA023, MIK/VAA12, CH1/VA011 CH1/VA012 CH1/VA013, nebo nebo FAR/VAA11 nebo FAR/VAA12 nebo FAR/VAA13, RAD/VA011 nebo RAD/VA013

PLE/VA041 General Practical Medicine

2 cr. Con Praxe 4 [DNY/SEM] + Seminář 5 [hrs/sem]

prof. MUDr. Eliška Sovová, Ph.D., MBA Avail. sem.: W/S

The aim of this course is to introduce to students following: adult general practitioner's work, methodology of primary care, to show differences between nationals health care systems. The most attention is dedicated to general practitioner's work organization with focus to health care quality, ambulance management, health and social aspects, expert's opinions, dispenzarization, primary prevention including vaccination and law aspects of health care providing in settings of general practitioner's office.

nebo PGY/VABP2

PLE/VA042 General Practical Medicine

2 cr. Con Seminář 5 [hrs/sem]

2 cr.

Con

doc. MUDr. Eva Klásková, Ph.D. Avail. sem.: W/S

The aim of this course is to introduce to students following: adult general practitioner's work, methodology of primary care, to show differences between nationals health care systems. The most attention is dedicated to general practitioner's work organization with focus to health care quality, ambulance management, health and social aspects, expert's opinions, dispenzarization, primary prevention including vaccination and law aspects of health care providing in settings of general practitioner's office.

CH1/VABP1 nebo DE1/VABP2, CH1/VABP1 nebo PGY/VABP2

PLE/VA051 Mandatory Clinical Training in Selec...

Praxe 9 [DNY/SEM] + Seminář 2 [hrs/sem]

prof. MUDr. Eliška Sovová, Ph.D., MBA Avail. sem.: W/S

Because of increasement of graduates practical skills, students will spend 9 days on department with specialization, which

student would like to practice in the future. During final seminar, logbook of performed tasks and practical contribution of this practice with requirement fulfillment will be evaluated.

Qualifying courses:

DET/VABP1 nebo

DET/VABP2, CH1/VABP1 nebo

PGY/VABP2

PLE/VA052

Mandatory Clinical Training in Selec...

CH1/VABP2, PGY/VABP1 nebo

2 cr. Con

Praxe 19 [DNY/SEM] + Seminář 2 [hrs/sem]

prof. Mgr. MUDr. Milan Raška, Ph.D.

Avail. sem.: W/S

Because of increasement of graduates practical skills, students will spend 19 days on department with specialization, which student would like to practice in the future. During final seminar, logbook of performed tasks and practical contribution of this practice with requirement fulfillment will be evaluated.

Qualifying courses:

DET/VABP1 nebo

DET/VABP2, CH1/VABP1 nebo

CH1/VABP2, PGY/VABP1 nebo

PGY/VABP2

PLE/ZA011

Emergency Medicine in Dentistry 1

1 cr. Co

Cvičení 3 [hrs/sem] + Seminář 2 [hrs/sem]

doc. MUDr. Eva Klásková, Ph.D., MUDr. Vladislav Kutěj, doc. MUDr.

Avail. sem.: S

et MUDr. Peter Tvrdý, Ph.D., MDDr. Iva Voborná, Ph.D.

Acquaint students with the principles of emergency medicine. Teach students to behave rationally (examination, treatment and management) when confronted with acute conditions. Explain serious diseases, which can be the cause of acute conditions. Teaching will be realised with the help of simulator and extend of clinical biochemistry and radiology.

PLE/ZA021

Emergency Medicine in Dentistry 2

Co 1 cr.

Cvičení 4 [hrs/sem] + Seminář 2 [hrs/sem]

doc. MUDr. Eva Klásková, Ph.D., MUDr. Vladislav Kutěj, doc. MUDr.

et MUDr. Peter Tvrdý, Ph.D., MDDr. Iva Voborná, Ph.D.

Acquaint students with the principles of emergency medicine. Teach students to behave rationally (examination, treatment and management) when confronted with acute conditions. Explain serious diseases, which can be the cause of acute conditions. Teaching will be realised with the help of simulator.

PRL – DEPARTMENT OF OCCUPATIONAL MEDICINE

PRL/VA011

Occupational Medicine

2 cr

Co

Cvičení 8 [hrs/sem] + Seminář 22 [hrs/sem]

doc. MUDr. Marie Nakládalová, Ph.D.

Avail. sem.: W/S

Aim of this subject is to master interdisciplinar branch of knowledge, which deals with impact of occupational environment on individual and population health. The object of the study is also prevention, diagnostics, treatment and advisory ascpects of diseases caused or made worse by work.

Qualifying courses:

PFY/VAB11, PAT/VAB11

PSY – DEPARTMENT OF PSYCHIATRY

PSY/VAA11

Medical Psychology 1

Con $0 \, cr$

Přednáška 15 [hrs/sem] + Cvičení 15 [hrs/sem]

MUDr. Aneta Sandoval

Avail. sem.: W

Established successfull contact between patient and physician like important komplement of treatment.

PSY/VAA13

Medical Psychology 1

0 cr. Con

Přednáška 15 [hrs/sem] + Cvičení 15 [hrs/sem]

prof. MUDr. Klára Látalová, Ph.D.

Avail. sem.: W

Established successfull contact between patient and physician like important komplement of treatment.

Qualifying courses:

NAN/VAB11 nebo BIO/VAB11, CJA/VAB31 nebo LCH/VAA21 nebo

NAN/VAB13, LBF/VAB11, CJA/VAB41,

CJA/VA031, LCH/VAA11,

NAN/VAA11 nebo

LCH/VAB20, KAR/VAB11, HIE/VAB11, NAN/VAA13, PVL/VAB71

PVL/VAB72 nebo

SOL/VAB70 nebo nebo SOL/VAB71

PSY/VAA31

Psychiatry and Psychother. in the Movies

2 cr. Con

Seminář 16 [hrs/sem]

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prof. MUDr. Ján Praško Pavlov, CSc.
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Using examples from the Czech and world cinematography, students will deepen their knowledge of basic psychopathology and symptoms of mental disorders, social and cultural influences, psychological care, psychotherapeutic approaches, discussions following each presentation will also focus on ethical issues in psychiatry. Psychotherapeutic techniques will be practiced during seminars.

PSY/VAB11 nebo PSY/VAB13 nebo PSY/VCB13 Qualifying courses: PSY/ZUB21, PSY/VA022PSY/ZAB21 nebo nebo

PSY/VA023 PSY/VC022 nebo nebo nebo

nebo PSY/ZAB11 PSY/ZUB11

PSY/VAB11 Medical Psychology 2 4 cr. Con,Ex

Přednáška 15 [hrs/sem] + Cvičení 15 [hrs/sem]

MUDr. Aneta Sandoval Avail. sem.: S

Established successfull contact between patient and physician which is important for the complex care of the patient.

PSY/VAA11 nebo PSY/VAA13 Qualifying courses:

PSY/VAB13 Medical Psychology 2 4 cr. Con,Ex

Přednáška 15 [hrs/sem] + Cvičení 15 [hrs/sem]

prof. MUDr. Klára Látalová, Ph.D.

Avail. sem.: S

Avail. sem.: S

Avail. sem.: S

Established successfull contact between patient and physician which is important for the complex care of the patient.

NAN/VAB13, CJA/VAB31 Qualifying courses: PSY/VAA11 nebo PSY/VAA13,

CJA/VA031, CJA/VAB41, LBF/VAB11, BIO/VAB11, nebo LCH/VAA11, LCH/VAA21 nebo LCH/VAB20, KAR/VAB11, HIE/VAB11, NAN/VAA11 nebo NAN/VAA13, PVL/VAB71

PVL/VAB72 nebo SOL/VAB70 nebo nebo

SOL/VAB71

PSY/VA022 **Psychiatry** 7 cr. Con,Ex

Přednáška 18 [hrs/sem] + Cvičení 48 [hrs/sem] + Seminář 24 [hrs/sem]

prof. MUDr. Ján Praško Pavlov, CSc.

Provide base overview psychiatric diagnosis, their treatment and maitenance.

Qualifying courses: $IN2/VA\Lambda11$, $MIK/VA\Lambda12$, PVL/VAB13 nebo PVL/VAB14

nebo SOL/VAA11 nebo SOL/VAB12, FAR/VAB11,

PAT/VAB11, PFY/VAB11, PSY/VAB11 IN2/VAB21, nebo

PSY/VAB13, KIM/VAB11 nebo KIM/VAB12, CJA/VAB43

nebo CJA/VAB44

PSY/VA023 **Psychiatry** 5 cr. Con,Ex

Přednáška 18 [hrs/sem] + Cvičení 48 [hrs/sem] + Seminář 24 [hrs/sem]

prof. MUDr. Klára Látalová, Ph.D. Avail. sem.: S

Provide base overview psychiatric diagnosis, their treatment and maitenance.

CH0/VAB11 nebo FAR/VAB11, Qualifying courses: IN2/VAA11, MIK/VAA12,

IN2/VAB22, PAT/VAB11, PFY/VAB11, IN2/VAB21 nebo

KIM/VAB11 KIM/VAB12, CJA/VAB43 nebo nebo

IN2/VAA11 CJA/VAB44, IN0/VAA11 nebo

PSY/ZAB11 **Psychiatry**

2 cr. Con,Ex

Cvičení 15 [hrs/sem]

MUDr. Dana Kylarová, Ph.D. Avail. sem.: S

Provide base overview psychiatric diagnosis, their treatment and maitenance.

Psychology in Dental Practice

1 cr. Con Seminář 15 [hrs/sem]

PhDr. Petra Kasalová Avail. sem.: S

Provide the basic psychological approaches which are essential for every physician. Provide knowledge of psychoterapeutics methods.

LCH/ZAA11, NAN/ZAB11, BIO/ZAB11, LBF/ZAB11, CJA/ZAB41, Qualifying courses:

CJA/ZAA41, ST1/ZAA40, ST1/ZAB40, ST1/ZAB01, HIE/ZAB11,

KAR/VAB11

PSY/ZAB21

PVL - DEPARTMENT OF PUBLIC HEALTH

PVL/VAA11 Epidemiological Methodology; EBM

1 cr. Con Seminář 12 [hrs/sem] Avail. sem.: W

prof. MUDr. Dagmar Horáková, Ph.D., Mgr. Simona Zatloukalová,

The course is designed as both theoretical and practical. Student gets familiar with epidemiological method of work, which is used to study the development of the disease and the identification of the factors which affect or determine the disease. The aim of the epidemiological methodology is to identify these factors, to objectively prove their role in disease development, and to design and verify appropriate preventive measures. Student gets familiar with the designs of epidemiological descriptive and analytical studies. He will practice their recognition, analysis, and results interpretation on practical examples. Student gets familiar with basics of evidence-based medicine as an integration of the best scientific evidence with clinical expertise and patients? values.

Qualifying courses: PVL/VAB13 nebo PVL/VAB14 $_{
m nebo}$ SOL/VAA11

SOL/VAB12, MIK/VAA12, PAT/VAA11

PVL/VAA51 Instruments of Evidence-Based Healthcare 2 cr. Co

Cvičení 10 [hrs/sem] + Seminář 5 [hrs/sem]

PaedDr. Mgr. Dagmar Tučková, Ph.D. et Ph.D. Avail. sem.: W

This subject builds on the knowledge gained by the students in PVL/VAB13 (Social Medicine and Medical Ethics) and further enhances the knowledge of the Evidence-Based Health Care (EBHC). EBHC as it is contemporarily conceived is based on the view that health care related decisions should be based on the high individual professional skills of the health workforce together with the best scientific evidence, and recognizing patient's preferences and values as well. During this course, the students will be practicing EBP (Evidence-Based Practice) basic skills to be able to formulate review questions, search for the best available evidence, read and recognize results of scientific articles, and critically appraise and use the best evidence and quality of sources for medical praxis.

PVL/VAB13Social Medicine and Medical Ethics

Con 2 cr. Seminář 14 [hrs/sem] Avail. sem.: S

prof. MUDr. Dagmar Horáková, Ph.D., PaedDr. Mgr. Dagmar Tučková, Ph.D. et Ph.D.

The aim of this subject in the field of social medicine is: a) to explain to students the basic concepts of health and disease, social determinants of health, social and economic consequences of disease; (b) to provide students with information on the natural history of disease, nosology and classifications of diseases; c) to explain the health system, the role of healthcare facilities, with a focus on the importance of health promotion and disease prevention; (d) to understand the importance of health demography and health indicators; e) to provide students with information on the national and European health policies/strategies. The aim of the subject in the field of medical ethics is: a) to understand basic ethical concepts, principles and norms; b) to learn basic ethical thinking and considerations in the process of health services provision; c) to get acquainted with the ethical dilemmas of contemporary medicine and to discuss current ethical dilemmas in the Czech Republic as well globally.

CJA/VAB31 CJA/VA031, BIO/VAB11, CJA/VAB41, Qualifying courses: nebo

> NAN/VAB11 NAN/VAB13, NAN/VAA11 nebo nebo NAN/VAA13, LBF/VAB11, LCH/VAA11, PVL/VAB71 nebo

PVL/VAB72 SOL/VAB70 nebo SOL/VAB71. HIE/VAB11, KAR/VAB11, LCH/VAA21 nebo LCH/VAB20

PVL/VAB14 Social Medicine and Medical Ethics

Con 4 cr. Seminář 30 [hrs/sem] Avail. sem.: S

prof. MUDr. Dagmar Horáková, Ph.D., PaedDr. Mgr. Dagmar

Tučková, Ph.D. et Ph.D.

The aim of this subject in the field of social medicine is: a) to explain to students the basic concepts of health and illness, social determinants of health, social and economic consequences of illness; (b) to provide students with information on the natural history of disease, nosology and classifications of diseases; c) to explain the health/care system, the role of health/care facilities, with a focus on the importance of health promotion and disease prevention; (d) to understand the importance of health demography and population health indicators; e) to provide students with information on the national and European health policies/strategies and to introduce them the national health information system, in particular the Czech Republic's National Health Information System (NZIS). The aim of the subject in the field of medical ethics is: a) to understand basic ethical concepts, principles and norms; b) to learn the basics of ethical consideration in the process of providing health care; c) to be familiar with problems and dilemmas in medicine.

Qualifying courses: CJA/VAB31 nebo CJA/VAB31, BIO/VAB11, CJA/VAB41, NAN/VAB11 nebo NAN/VAB13, NAN/VAB11 nebo

NAN/VAB11 nebo NAN/VAB13, NAN/VAA11 nebo NAN/VAA13, LBF/VAB11, LCH/VAA11, PVL/VAB71 nebo

PVL/VAB72 nebo SOL/VAB70 nebo SOL/VAB71 , HIE/VAB11 , KAR/VAB11 , LCH/VAA21 nebo LCH/VAB20

PVL/VAB31 Actual Epidemiological Situation in...

1 cr. Con Seminář 6 [hrs/sem]

Mgr. Simona Zatloukalová, Ph.D.

Avail. sem.: S

Training of practical skills in the epidemiology of communicable and non-communicable diseases.

Qualifying courses: MIK/VAA12, IN2/VAB21 nebo IN2/VAB22

PVL/VAB32 Communication with a Patient in Praxis

1 cr. Con Seminář 7 [hrs/sem]

prof. MUDr. Dagmar Horáková, Ph.D., Paed
Dr. Mgr. Dagmar

Avail. sem.: S

Tučková, Ph.D. et Ph.D.

The aim of this course is: a) to familiarize students with the importance of professional communication between physicians and other healthcare professionals with patients and their families; b) to emphasize the importance of mutual communication of healthcare workers within working teams in their day-to-day work and cooperation; and c) to discuss with students specific examples and professional communication experiences obtained during the provision of health care (both outpatient and hospital).

Qualifying courses: KAR/VAB11, CJA/VAB31 nebo CJA/VA031, BIO/VAB11. CJA/VAB41, NAN/VAA11 nebo NAN/VAA13, NAN/VAB11 NAN/VAB13, PVL/VAB71 PVL/VAB72 nebo nebo SOL/VAB70 SOL/VAB71, LCH/VAA21 nebo nebo

nebo SOL/VAB70 nebo SOL/VAB71, LCH/VAA21 nebo LCH/VAB20, LBF/VAB11, KAR/VAB11, HIE/VAB11

PVL/VAB52 Importance of Systematic Reviews... 2 cr. Co

Cvičení 10 [hrs/sem] + Seminář 10 [hrs/sem]

PaedDr. Mgr. Dagmar Tučková, Ph.D. et Ph.D. Avail. sem.: W/S

The main purpose of this subject is to develop a comprehensive understanding of the purposes and principles of systematic reviews and their importance for praxis in students. The objectives are to describe origins and development of systematic reveiws, critique the role of evidence in contemporary healthcare practice, describe and discus primary and particularly secondary outcomes of the research.

PVL/VAB71 Basic Communication Ethics for Praxis

1 cr. Co

Cvičení 10 [hrs/sem] + Seminář 5 [hrs/sem]

prof. MUDr. Dagmar Horáková, Ph.D., PaedDr. Mgr. Dagmar Avail. sem.: W

Tučková, Ph.D. et Ph.D.

Content of this subject is: a) to introduce to the students the basic principles of oral communication, including formal written communication formalities, to teach students how to address health professionals working in the health care system by their titles as stated in the university law; b) to practice the principles of good behaviour, assertive approach in health care, familiarize with different types of people seeking health care, including multicultural aspects; c) to describe the historical development of medicine in an ethical context, including the explanation of symbols in medicine as well as detailed information on life and work of physician Hippocrates, including his ethical oath, and to show the development of ethical principles and explain their importance for communication in current professional medical practice.

PVL/VAB72 Basic Communication Ethics for Praxis

2 cr. Co

Cvičení 10 [hrs/sem] + Seminář 5 [hrs/sem]

prof. MUDr. Dagmar Horáková, Ph.D., PaedDr. Mgr. Dagmar Avail. sem.: W

Tučková, Ph.D. et Ph.D.

Content of this subject is: a) to introduce to the students the basic principles of oral communication, including formal written communication formalities, to teach students how to address health professionals working in the health care system by their titles as stated in the university law; b) to practice the principles of good behaviour, assertive approach in health care, familiarize with different types of people seeking health care, including multicultural aspects; c) to describe the historical development of medicine in an ethical context, including the explanation of symbols in medicine as well as detailed information on life and work of physician Hippocrates, including his ethical oath, and to show the development of ethical principles and explain their importance for communication in current professional medical practice.

PVL/VA011 Epidemiology 1 2 cr. Con

prof. MUDr. Dagmar Horáková, Ph.D., Mgr. Simona Zatloukalová, Ph.D.

Seminář 80 [hrs/sem] Avail. sem.: W/S

Students become acquainted with the basic principles of epidemiological methodology as the basis for evidence based medicine. Moreover, they will learn the essential epidemiological aspects of infectious and non-communicable diseases.

Qualifying courses: IN1/VA012 nebo IN1/VA022, IN2/VAB21, IN2/VAB11, PSY/VAB11 nebo PSY/VAB13, PAT/VAB11, PFY/VAB11,

FAR/VAB11, CJA/VAB43 nebo CJA/VAB44 nebo

PVL/VAA11

PVL/VA012 Epidemiology 1

3 cr. Con Seminář 60 [hrs/sem] Avail. sem.: W/S

prof. MUDr. Dagmar Horáková, Ph.D.

Student gets familiar with epidemiological characteristics of important infectious and non-infectious diseases. The process of spreading of infectious diseases in a population (epidemic process) and its regularities will be described in detail. Student will learn how to construct an epidemic curve, evaluate epidemiological trends, and use databases and ISIN system reports. Model situations of epidemics and their solution algorithms will be presented. The aim of the course is to get the students familiar with epidemiological investigation in case of epidemics and with proposal of epidemiological measures.

Qualifying courses: IN1/VA012 nebo IN1/VA022, IN0/VAA11 nebo IN2/VAA11, CH0/VAB11 nebo CH0/VAB12 nebo

IN0/VAB11 nebo IN2/VAA11, PAT/VAB11, PFY/VAB11,

CJA/VAB43 nebo CJA/VAB44, PSY/VAB11 nebo

PSY/VAB13, FAR/VAB11, IN2/VAB21 nebo IN2/VAB22,

PVL/VAA11

PVL/VA013 Epidemiology

2 cr. Con Seminář 60 [hrs/sem] Avail. sem.: W/S

prof. MUDr. Dagmar Horáková, Ph.D.

Student gets familiar with epidemiological characteristics of important infectious and non-infectious diseases. The process of spreading of infectious diseases in a population (epidemic process) and its regularities will be described in detail. Student will learn how to construct an epidemic curve, evaluate epidemiological trends, and use databases and ISIN system reports. Model situations of epidemics and their solution algorithms will be presented. The aim of the course is to get the students familiar with epidemiological investigation in case of epidemics and with proposal of epidemiological measures.

Qualifying courses: IN1/VA012 nebo IN1/VA022, IN0/VAA11 nebo IN2/VAA11, CH0/VAB11 nebo CH0/VAB12 nebo

INO/VAB11 nebo IN2/VAA11, PAT/VAB11, PFY/VAB11,

CJA/VAB43 nebo CJA/VAB44, PSY/VAB11 nebo

PSY/VAB13, FAR/VAB11, IN2/VAB21 nebo IN2/VAB22,

PVL/VAA11

PVL/VA021 Epidemiology 2

2 cr. Con Seminář 30 [hrs/sem]

Avail. sem.: W/S

prof. MUDr. Dagmar Horáková, Ph.D.

Student will deepen the previous knowledge of general and special epidemiology. He gets familiar with the role of a physician in disease prevention and with the activities of regional hygienic station in solving current public health problems. The seminars will be targeted on actual epidemiological situation. Attention will be paid to vaccine refusal phenomena, bioterrorism, high consequence infectious diseases, and the issues of nutrition in relation to diseases with mass occurrence.

SOL/VA020 nebo SOL/VA021, FAR/VAA11 nebo FAR/VAA12 nebo FAR/VAA13, IN1/VA012 nebo

IN1/VA022

PVL/VA022 Epidemiology 2 3 cr. Con Cvičení 36 [hrs/sem] prof. MUDr. Dagmar Horáková, Ph.D.

their knowledge in the enidemicleary of infectious and abronic non infectious discoses

Students will enhance their knowledge in the epidemiology of infectious and chronic non-infectious diseases. Qualifying courses: PVL/VA011 nebo PVL/VA012 nebo PVL/VA013,

IN3/VAA13

PVL/VA023 Epidemiology and Social Medicine

3 cr. Con Seminář 34 [hrs/sem] Avail. sem.: W/S

Avail. sem.: W/S

prof. MUDr. Dagmar Horáková, Ph.D., MUDr. Ladislav Štěpánek,

Ph.D.

Subject consists of two parts which form an integral elements of State rigorous exam from epidemiology and social medicine. Student will deepen the knowledge of general and special epidemiology. He gets familiar with the role of a physician in disease prevention and with the activities of regional hygienic station in solving current public health problems. The lectures will be targeted on actual epidemiological situation. Attention will be paid to vaccine refusal phenomena, bioterrorism, high consequence infectious diseases, and the issue of nutrition in relation to diseases with mass occurrence. Social medicine part aims to acquaint students with actual issues in Czech healthcare and with priorities at the both global and european health strategy with a special focus on international healthcare recommendations.

Qualifying courses: SLP/VA011, PVL/VA041 nebo PVL/VA044, IN1/VA012

nebo IN1/VA022, FAR/VAA11 nebo FAR/VAA12

nebo FAR/VAA13

PVL/VA041 Social Medicine

1 cr. Con Seminář 24 [hrs/sem]

Avail. sem.: W

prof. MUDr. Dagmar Horáková, Ph.D., PaedDr. Mgr. Dagmar

Tučková, Ph.D. et Ph.D.

The aim of this subject is to explain to students the importance of social medicine and public health for the work of physicians and to familiarize them with basic principles of health policy/strategy for health care in the Czech Republic. The content of the subject is based on the modern European New Public Health concept and focuses mainly on: a) global and European priorities in health care with emphasis on international recommendations; b) health/care systems with emphasis on the health care system in the Czech Republic in an international comparison; c) health care provision, types of healthcare facilities, economics and financing of health care, health insurance in the Czech Republic, d) basic health/care legislation, e) management and personnel management in health care, f) performance of medical doctor's profession, g) introduction to the assessment of health status by medical examiners (disability assessment), h) information on the National Health Information System of the Czech Republic (NHIS), i) provision of health services in crisis situations, Integrated Rescue System (Integrovaný záchranný systém, IZS) with a focus on the Medical Rescue Service (Zdravotnická záchranná služba, ZZS). Practical examples will be discussed with students during this course.

Qualifying courses: PVL/VAB13 nebo PVL/VAB14 nebo SOL/VAA11

nebo SOL/VAA12 nebo SOL/VAB12

PVL/VA042 Social Medicine II 3 cr. Con

doc. MUDr. Alena Petráková, CSc.

Seminář 4 [hrs/sem]

Avail. sem.: W/S

doc. MODI. Alena i etrakova, OSC. Avan. Sem., W/

The aim of the course is to provide students with information on current public health problems in nationally and internationally, in particular on global and European health strategies, with a focus on international recommendations.

Qualifying courses: PVL/VA041 nebo PVL/VA044 nebo SOL/VA020 nebo SOL/VA021, PVL/VA011 nebo PVL/VA012

nebo PVL/VA013, SLP/VA011, IN3/VAA12 nebo IN3/VAA13, IN3/VAB12 nebo IN3/VAB13 nebo

IN3/VA012

PVL/VA043 Social Medicine 2

1 cr. Con Seminář 4 [hrs/sem]

doc. MUDr. Alena Petráková, CSc. Avail. sem.: W/S

The aim of this course is to provide students with information on current public health challenges and priorities at the global,

regional and national levels with a special focus on international legislation and recommendations.

PVL/VA041 nebo PVL/VA044 Qualifying courses: nebo SOL/VA020 nebo SOL/VA021, PVL/VA011 nebo PVL/VA012

> nebo PVL/VA013, SLP/VA011, FAR/VAA11 nebo **FAR/VAA13**, **IN1/VA012** FAR/VAA12 nebo nebo

IN1/VA022

PVL/VA044 Social Medicine 1

2 cr. Con Seminář 24 [hrs/sem]

doc. MUDr. Alena Petráková, CSc. Avail. sem.: W

The aim of this subject is to explain to the students the importance of social medicine and public health for the work of physicians and to familiarize them with basic principles of health policy/strategy for health care in the Czech Republic in an international comparison. The content of the subject is based on the modern European New Public Health concept and focuses mainly on: a) global and European priorities in health care with emphasis on international recommendations; b) health/care systems with an emphasis on the health care system in the Czech Republic in an international comparison; c) health care provision, types of healthcare facilities, economy and financing of health care, health insurance in the Czech Republic, d) basic health legislation, e) management and personnel management in health care, f) professional medical practice, g) health status in an international comparison, h) quality of life in chronically ill patients, i) care for specific population groups (children, seniors, disabled people, the unemployed, the homeless, etc.). Practical examples will be given to the students during this course.

PVL/VAB14 nebo Qualifying courses: PVL/VAB13 nebo SOL/VAA11

SOL/VAA12 nebo SOL/VAB12

PVL/VA091 Epidemiology, Law and Social Medicine 0 cr. Sri

> prof. MUDr. Dagmar Horáková, Ph.D. Avail. sem.: W/S

Evaluation of the level of knowledge of Epidemiology, Medical Law and Social Medicine.

PVL/VA021 PVL/VA022, SLP/VA021 nebo Qualifying courses: nebo

SLP/VA022, PVL/VA042 nebo PVL/VA043 nebo SOL/VA022. PVL/VA011 nebo PVL/VA012 nebo

PVL/VA013, SLP/VA011, PVL/VA041 nebo PVL/VA044 SOL/VA020SOL/VA021, PVL/VAB13 nebo nebo

SOL/VAA11 nebo

PVL/VAB14 nebo nebo

SOL/VAB12 SOL/VAA12 nebo

PVL/ZAA11 **Epidemiology**

4 cr. Con,Ex Seminář 60 [hrs/sem]

prof. MUDr. Dagmar Horáková, Ph.D., MUDr. Ladislav Štěpánek, Avail. sem.: W

Ph.D.

Students become acquainted with the basic principles of epidemiological methodology as the basis for evidence based medicine. Moreover, they will learn the essential epidemiological aspects of infectious and non-communicable diseases, with respect to dental medicine problems.

PVL/ZAA12Management, Ethics, Law and Social Aspects

3 cr. Con,Ex Seminář 30 [hrs/sem]

Avail. sem.: W

prof. MUDr. Dagmar Horáková, Ph.D., PaedDr. Mgr. Dagmar

Tučková, Ph.D. et Ph.D.

The aim of this subject is to acquaint students with the basics of health management, economics, legislation, ethics and social aspects related with health services provision with a focus on dentistry. The subject's content are the basic principles of health systems in international comparison (in the Czech Republic and selected countries worldwide), global health, international cooperation in the field of health care and methods of organization and management of health care, including the basics of health policy, legislation and economics with emphasis on dental practice, including private practice. The basic principles of social and epidemiological research with emphasis on Evidence-Based Dentistry, including basic principles of best practice in clinical dental practice and prevention, are also presented within the framework of this subject. Teaching the basics of effective communication highlights ethical principles in the work of dentists and other health workers in dental practice. Students are guided to the multicultural approach to people with different cultural and social experiences.

RAD – DEPARTMENT OF RADIOLOGY

RAD/VAA31 Radiolog. Images of Normal Structures 2

2 cr. Co Seminář 12 [hrs/sem] prof. MUDr. Miroslav Heřman, Ph.D.

The main aim of lessons is to familiarize students with normal structures of cranium, spine, brain and spinal cord in different types of imaging methods and practically demonstrate clinical utility of knowledge which students are familiarized in theoretical principles.

Qualifying courses:

NAN/VAA11 nebo NAN/VAA13, NAN/VAB11 nebo

NAN/VAB13

RAD/VAB30

Radiolog. Images of Normal Structures 1

2 cr. Co

Avail. sem.: W/S

Seminář 12 [hrs/sem]

prof. MUDr. Miroslav Heřman, Ph.D.

Avail. sem.: W/S

The main aim of lessons is to familiarize students with normal structures noticed in different types of imaging methods and practically demonstrate clinical utility of knowledge which students are familiarized in theoretical principles.

Qualifying courses:

NAN/VAA13

RAD/VA011 Radiology and Nuclear Medicine 7 cr. Con,Ex

Cvičení 60 [hrs/sem] + Seminář 10 [hrs/sem]

prof. MUDr. Miroslav Heřman, Ph.D.

Avail. sem.: W/S

To familiarize students with basic imaging methods used in radiology and nuclear medicine, their principles, indications and evaluation.

Qualifying courses:

IN2/VAA11, MIK/VAA12, PVL/VAB13 PVL/VAB14 nebo SOL/VAA11 SOL/VAB12, FAR/VAB11, nebo nebo

PAT/VAB11, PFY/VAB11, PSY/VΛB11 nebo IN2/VAB21, PSY/VAB13, CJA/VAB43CJA/VAB44, KIM/VAB11 nebo

KIM/VAB12 nebo

RAD/VA013

Radiology and Nuclear Medicine

4 cr. Con,Ex

Cvičení 46 [hrs/sem] + Seminář 24 [hrs/sem]

prof. MUDr. Miroslav Heřman, Ph.D.

Avail. sem.: W/S

To familiarize students with basic imaging methods used in radiology and nuclear medicine, their principles, indications and evaluation.

Qualifying courses:

MIK/VAA12, FAR/VAB11, IN2/VAB21 nebo IN2/VAB22, PAT/VAB11, PFY/VAB11, CJA/VAB43 nebo CJA/VAB44,

KIM/VAB11 KIM/VAB12, IN0/VAA11 nebo

RAD/VA021

Practical Sonography

2 cr. Con

Cvičení 8 [hrs/sem]

prof. MUDr. Miroslav Heřman, Ph.D.

Avail. sem.: W/S

To familiarize students with potentials and indications of sonography in clinical practise and enable students to practically perform the most common examinations.

Qualifying courses:

PAT/VAB11, PFY/VAB11

RAD/VA041

Interpretation of Imaging Methods Find.

1 cr. Con

Cvičení 4 [hrs/sem]

prof. MUDr. Miroslav Heřman, Ph.D.

Avail. sem.: W/S

Building on the theoretical knowledge gained in subject Radiology and Nuclear Medicine to further practical experience in interpretation of images of all imaging methods used in medicine.

Qualifying courses:

RAD/VA011 nebo RAD/VA013, PAT/VAB11, PFY/VAB11

SLP - DEPARTMENT OF FORENSIC MEDICINE AND MEDICAL LAW

SLP/VA011 Forensic Medicine 3 cr. Con.Ex

Cvičení 28 [hrs/sem] + Seminář 14 [hrs/sem]

MUDr. Martin Dobiáš, Ph.D.

Avail. sem.: W/S

The students are to be able ro perform the examination of the dead person and get acquinted with the problems of violent and sudden death, to know significant judical code and administrative routine; to examine samples of blood and body fluid; to define the level of alcohol; to take material for serological and toxicological examination, to know how to proceed in accordance with the law at compensation of following pains and aggravation of social assertion.

Qualifying courses: IN1/VA012 nebo IN1/VA022, IN0/VAA11 nebo IN2/VAA11, CH0/VAB11 nebo CH0/VAB12 nebo

SLP/VA021 Medical Law

3 cr. Con Seminář 2 [hrs/sem]

doc. RNDr. Peter Ondra, CSc.

Avail. sem.: W/S

The aim of the subject is to to get acquinted the student with statutory norms modifying the activity and competence of professional organization ČLK (CM CH), to get acquinted him with the basic conditions of the birth of legal responsibility of the doctor and other health worker and other legal norms concerning the pursuance of the profession.

Qualifying courses: SLP/VA011, PVL/VA011 nebo PVL/VA012 nebo

nebo PVL/VA044 nebo SOL/VA020 nebo

SOL/VA021

SLP/VA022 Medical Law

1 cr. Con

Seminář 2 [hrs/sem] Avail. sem.: W/S

MUDr. Martin Dobiáš, Ph.D.

Avail. sem.: W/S

The aim of the subject is to to get acquinted the student with statutory norms modifying the activity and competence of

professional organization ČLK (CM CH), to get acquinted him with the basic conditions of the birth of legal responsibility of the doctor and other health worker and other legal norms concerning the pursuance of the profession.

Qualifying courses: SLP/VA011, PVL/VA011 nebo PVL/VA012 nebo PVL/VA013, PVL/VA041 nebo PVL/VA044 nebo

IN1/VA022

SLP/ZAA11 Forensic Problem in Dentistry

2 cr. Co

Přednáška 15 [hrs/sem] + Cvičení 15 [hrs/sem]

MUDr. Martin Dobiáš, Ph.D. Avail. sem.: W

Students get the basic information about forensic medicine as a branch which explains medical pieces of knowledge and from them extrapolated conclusion for needs of other medical disciplines and rights with special concetration on dental surgery.

ST1 – INSTITUTE OF DENTISTRY AND ORAL SCIENCES

ST1/VAA11 Basic of Dentistry 1

0 cr. Con Seminář 10 [hrs/sem]

doc. MUDr. Miloš Špidlen, Ph.D.

Avail. sem.: W

Inform students of general medicine about basic problems related to dentistry, problems of dental caries, diseases of oral cavity, possible complications of these diseases and basic procedures for their treatment.

ST1/VAB11 Basic of Dentistry 2

1 cr. Con

Cvičení 4 [hrs/sem]

doc. MUDr. Miloš Špidlen, Ph.D.

Avail. sem.: S

ractical training of students of general medicine in partial mastering of basic procedures of hard dental tissue treatment by preparation and modeling using simulators. Practical training and practice of the oral hygiene process and the prevention of diseases of the oral cavity as a whole.

Qualifying courses:

ŠT1/VAA11

ST1/ZAA03 Preventive Dentistry and Cariology 2

0 cr. Con

Přednáška 30 [hrs/sem] + Cvičení 45 [hrs/sem]

doc. MUDr. Květoslava Nováková, CSc.

Avail. sem.: W

Principal issues in prevention and prophylaxis in dentistry. Oral health and its relation to the overall health state, the most frequent pathological changes in mouth cavity, caries and periodontal diseases. Lectures are focused on the dental caries

diagnosis and its treatment. In practical trainings students learn about examination and professional oral hygiene.

Qualifying courses: ST1/ZAB01, LBF/ZAB11, NAN/ZAB11, CJA/ZAB41, LCH/ZAA11,

BIO/ZAB11, ST1/ZAB40, ST1/ZAA40, HIE/ZAB11, CJA/ZAA41,

KAR/VAB11

ST1/ZAA20 Dental Radiology 3 cr. Con,Ex

Přednáška 15 [hrs/sem] + Cvičení 30 [hrs/sem] Avail. sem.: W

doc. MUDr. Květoslava Nováková, CSc.

Physical principles of RTG radiation and operation of an RTG department. Intraoral and extraoral methods of x-ray in dentistry and maxillofacial surgery, individual types of projection, making and interpretation of x-ray. Practical training in intraoral RTG as well as OPG.

ST1/ZAA24 Pediatric Dentistry 2 0 cr. Co

Přednáška 15 [hrs/sem] + Cvičení 30 [hrs/sem]

doc. MUDr. Květoslava Nováková, CSc. Avail. sem.: W

The aim of the subject is to communicate with children patients and their attendance in the office, familiarization with diagnostics, treatment and consequences of tooth injury in children, principles of prosthetic treatment in different age groups of children, exchange of temporary dentition and the basics of anesthesia, sedation and care of individuals with disabilities. After graduation students will be able to apply the knowledge of prevention and preservation, prosthetic and surgical care of children. The course includes diagnostic procedures and treatment of acute conditions dental emergency.

Qualifying courses: ST1/ZAB23

ST1/ZAA25 Pediatric Dentistry 3 0 cr. Con

Cvičení 35 [hrs/sem]

doc. MUDr. Květoslava Nováková, CSc. Avail. sem.: W

Students demonstrate their preparation for postgraduate practice by using the application of psychological approach to children's patients, choosing optimal diagnostic procedures and justifying the option not only of therapeutic procedures but also knowledge of possible complications. The course includes diagnostic procedures and treatment of acute conditions dental emergency.

Qualifying courses: ST1/ZAB03, ST1/ZAB23, ST1/ZAB24, ST1/ZAA24, ST1/ZAA19

nebo ST1/ZAA20, ST1/ZAA36

ST1/ZAA33 Orthodontics 2 0 cr. Con

Přednáška 15 [hrs/sem] + Cvičení 30 [hrs/sem] + Seminář 15 [hrs/sem]

prof. MUDr. Milan Kamínek, DrSc. Avail. sem.: W

Removable orthodontic appliances, their indications and application. Fixed orthodontics appliances, their parts and indications for their use. Principles and methods of making of the orthodontic treatment plan. Use of serial extraction. Part of the course will be the practice of diagnostic procedures and treatment of acute conditions to medical first-aid service in the premises of the Department of Oral and Maxillofacial Surgery. Classes will be held under the supervision of Institute of Dentistry and Oral Sciences and Department of Oral and Maxillofacial Surgery lecturers.

Qualifying courses: ST1/ZAB31

ST1/ZAA35 Operative Dentistry 1 0 cr. Con

Přednáška 15 [hrs/sem] + Cvičení 60 [hrs/sem]

doc. MUDr. Květoslava Nováková, CSc. Avail. sem.: W

The content of the subject are clinical principles of diagnostics and treatment of carious and non-carious lesions and their consequences, preservation of dental pulp vitality as well as treatment of dentin wound, current filling materials, their properties and indications for the treatment of hard dental tissues. During the practical trainings the students practice their ability to independently provide the patients examination, including the making and interpretation of X-ray images, use of DIFOTI technology, oral hygiene adjustment, determination of the treatment plan, and subsequent treatment of carious and non-carious lesions of hard dental tissues. During the practical trainings the magnification technique will be also used. The training will also include the practice of diagnostic treatment procedures of acute conditions realized at the Dental Emergency at the Department of Oral and Maxillofacial Surgery. This part of the practical trainings will

be supervised by doctors of the Department of Oral and Maxillofacial Surgery.

 ${\bf Qualifying\ courses:} \qquad {\bf ST1/ZAB21}\ ,\ {\bf ST1/ZAB13}\ ,\ {\bf MIK/ZAA12}\ ,\ {\bf NAN/ZAA32}\ ,\ {\bf PAT/ZAA22}\ ,$

ST1/ZAA20, FAR/ZAB11 nebo FAR/ZAB12, ST1/ZAB11

ST1/ZAA36 Operative Dentistry 2 0 cr. Con

Přednáška 15 [hrs/sem] + Cvičení 55 [hrs/sem]

Avail. sem.: W

doc. MUDr. Květoslava Nováková, CSc.

The content of the subject is deepening of the knowledge of cariology and endodontic diseases. The students will receive the knowledge about aesthetic reconstructions and treatment using veneers. During the trainings tooth bleaching as well as miniinvasive treatment of tooth decay have been discussed. The patients treatment using surgical microscope will be demonstrated. The student is acquainted with the specifics of operative dentistry in seniors and patients with health risks. Furthermore the issue of endodontic periodontal lesions as well as cooperation with other dental disciplines will be discussed. During the practical trainings the students practise their skills in examination and treatment of dental caries and their consequences, establish a treatment plan and adjust the oral hygiene. Modern technologies such as the use of intraoral scanners and photos, used for communication with the laboratory in the making of small indirect reconstructions, are also used during the trainings. The concept of teaching is divided to the effect, that it allows to gradually treat complicated cases using magnifying technique. The training will also include the practice of diagnostic treatment procedures of acute conditions realized at the Dental Emergency at the Department of Oral and Maxillofacial Surgery. This part of the practical trainings will be supervised by doctors of the Department of Oral and Maxillofacial Surgery.

Qualifying courses:

ST1/ZAA35, ST1/ZAB35, INF/ZAA11, IN3/ZAA11, KIM/ZAA11, KOZ/ZAA11, UCH/ZAB24, NEU/ZAB11, ORL/ZAB11, ST1/ZAB24, ST1/ZAB53, ST1/ZAB61

ST1/ZAA38

Orthodontics 3

4 cr. Con,Ex Cvičení 15 [hrs/sem]

Avail. sem.: W

prof. MUDr. Milan Kamínek, DrSc.

Main factors influencing the treatment plan. Main biomechanic principles of the therapy with orthodontic appliances. Classification of orthodontic anomalies with the focus on Angle Class II and III. Principles of orthodontic treatment of anomalies in the number of teeth, impacted teeth solution. Part of the course will be the practice of diagnostic procedures and treatment of acute conditions to medical first-aid service in the premises of the Department of Oral and Maxillofacial Surgery. Classes will be held under the supervision of Institute of Dentistry and Oral Sciences and Department of Oral and Maxillofacial Surgery lecturers.

Qualifying courses: ST1/ZAB31, ST1/ZAA33, ST1/ZAB33 nebo ST1/ZAB37

ST1/ZAA40 Pre-Clinical Dentistry 1

0 cr. Con

Přednáška 30 [hrs/sem] + Cvičení 75 [hrs/sem]

doc. MUDr. Miloš Špidlen, Ph.D.

Avail. sem.: W

Introduction into the study of Dental medicine, dental anatomy, management of caries with filling, techniques of preparation, characteristics and indications of filling materials, facilities and instruments. The subject focuses on the practical application of theoretical background. Skills are trained in a simulator.

ST1/ZAA43

Pre-Clinical Dentistry 2

8 cr. Con,Ex

Přednáška 30 [hrs/sem] + Cvičení 75 [hrs/sem]

doc. MUDr. Miloš Špidlen, Ph.D.

Avail. sem.: W

Theoretical background and practical skills in making removable dental prostheses.

Qualifying courses:

 $ST1/ZAA40\;,\quad BIO/ZAB11\;,\quad CJA/ZAB41\;,\quad LBF/ZAB11\;,\quad LCH/ZAA11\;,\\ NAN/ZAB11\;,\quad ST1/ZAB40\;,\quad ST1/ZAB01\;,\quad HIE/ZAB11\;,\quad KAR/VAB11\;,\\ CJA/ZAA41$

ST1/ZAA45

ST1/ZAA52

Oral Medicine

0 cr. Co

Přednáška 22 [hrs/sem] + Cvičení 15 [hrs/sem] + Seminář 8 [hrs/sem]

doc. MUDr. Květoslava Nováková, CSc.

Avail sem · W

doc. MUDr. Kvetosiava Novakova, OSc

The most frequent diseases of oral cavity mucosa, manifestations of some diseases in oral cavity mucosa, their etiology, differential diagnostics, and therapy. Specific problems of dental care in persons with complex diseases. Part of the course will be the practice of diagnostic procedures and treatment of acute conditions to medical first-aid service in the premises of the Department of Oral and Maxillofacial Surgery. Classes will be held under the supervision of Institute of Dentistry and Oral

Sciences and Department of Oral and Maxillofacial Surgery lecturers.

Periodontology 2

0 cr. Con

Přednáška 5 [hrs/sem] + Cvičení 25 [hrs/sem] + Seminář 10 [hrs/sem]

doc. MUDr. Květoslava Nováková, CSc.

Avail. sem.: W

Periodontitis and periodontium atrophy - diagnostics and clinical treatment. Making of treatment plan and conservative phase of therapy. Practical training in patients' examination, diagnostics of periodontopathy, instruments, professional oral hygiene. Part of the course will be the practice of diagnostic procedures and treatment of acute conditions to medical first-aid

service in the premises of the Department of Oral and Maxillofacial Surgery. Classes will be held under the supervision of Institute of Dentistry and Oral Sciences and Department of Oral and Maxillofacial Surgery lecturers.

ST1/ZAB51 Qualifying courses:

ST1/ZAA61 Prosthodontics 1 0 cr.Con

Přednáška 30 [hrs/sem] + Cvičení 53 [hrs/sem]

doc. MUDr. Miloš Špidlen, Ph.D.

Avail. sem.: W

Detailed information on clinical diagnostics of dentition defects, row of teeth, and on synoptic concept of the defects treatment and documentation. Part of the course will be the practice of diagnostic procedures and treatment of acute conditions to medical first-aid service in the premises of the Department of Oral and Maxillofacial Surgery. Classes will be held under the supervision of Institute of Dentistry and Oral Sciences and Department of Oral and Maxillofacial Surgery lecturers.

Qualifying courses:

ST1/ZAB11

ST1/ZAA62 Prosthodontics 2

Con 0 cr.

Přednáška 15 [hrs/sem] + Cvičení 60 [hrs/sem]

doc. MUDr. Miloš Špidlen, Ph.D.

Avail. sem.: W

Detailed clinical information on indications and clinical techniques of making partial and completes dentures, combined prostheses and prostheses supported by implants. Part of the course will be the practice of diagnostic procedures and treatment of acute conditions to medical first-aid service in the premises of the Department of Oral and Maxillofacial Surgery. Classes will be held under the supervision of Institute of Dentistry and Oral Sciences and Department of Oral and Maxillofacial Surgery lecturers.

Qualifying courses:

ST1/ZAA61, ST1/ZAB61

ST1/ZAA72

Preparation for Restorative and Prosth.

Con 2 cr.

Cvičení 24 [hrs/sem]

MDDr. Basel Azar, Ph.D.

Avail. sem.: W

Skills improvement in restorative preparation according to the Black classification, plastic filling procedure, preparation for prosthodontic retorations, impressions and CAD/CAM system.

Qualifying courses:

ST1/ZAA40, ST1/ZAB40, ST1/ZAA43

ST1/ZAB01

Preventive Dentistry and Cariology 1

2 cr. Con

Seminář 30 [hrs/sem]

doc. MUDr. Květoslava Nováková, CSc.

Avail. sem.: S

Principal issues in prevention and prophylaxis in dentistry. Oral health and its relation to the overall health state, the most frequent pathological changes in mouth cavity, caries and periodontal diseases. Lectures are focused on the main etiological factors of these pathologies and possibilities of their prevention.

ST1/ZAB03

Preventive Dentistry and Cariology 2

11 cr. Con,Ex

Přednáška 30 [hrs/sem] + Cvičení 45 [hrs/sem]

doc. MUDr. Květoslava Nováková, CSc.

Avail. sem.: S

Principal issues in prevention and prophylaxis in dentistry. Oral health and its relation to the overall health state, the most frequent pathological changes in mouth cavity, caries and periodontal diseases. Lectures are focused on prevention in individual fields of dentistry. In practical trainings students learn about examination, professional oral hygiene and treatment of dental caries

Qualifying courses:

ST1/ZAB01, $ST1/Z\Lambda\Lambda03$, LBF/ZAB11, NAN/ZAB11, BIO/ZAB11, CJA/ZAB41, LCH/ZAA11, CJA/ZAA41, ST1/ZAA40, ST1/ZAB40,

HIE/ZAB11, KAR/VAB11

ST1/ZAB11

Gnathology, Basic of Prosthodontics

3 cr. Con.Ex

Přednáška 15 [hrs/sem] + Cvičení 22 [hrs/sem] + Seminář 10 [hrs/sem]

doc. MUDr. Miloš Špidlen, Ph.D.

Avail. sem.: S

Survey of dental arches occlusion including their functional, morphological and partially clinical aspects.

ST1/ZAB13

Microscopic Endodontics

Con

Cvičení 6 [hrs/sem] + Seminář 4 [hrs/sem]

doc. MUDr. Květoslava Nováková, CSc.

Avail. sem.: S

Introducing the students with magnifying technologies used in operative dentistry and endodontics, acquiring the basic

knowledge and skills of examination and treatment in the indirect view of the working area.

Qualifying courses: ST1/ZAB03, ST1/ZAA03, HIE/ZAA12, ST1/ZAA43, FYZ/ZAB11,

LCH/ZAB21, ST1/ZAB71

ST1/ZAB14 Orthodontic Treatment Planning 2 cr. Con

Cvičení 14 [hrs/sem] + Seminář 14 [hrs/sem]

prof. MUDr. Milan Kamínek, DrSc. Avail. sem.: S

Orthodontic diagnostics and records. Treatment procedure planning. Interdisciplinary cooperation in treatment procedure planning. Teaching content includes orthodontic model analysis, segmental analysis made by tradiditional way as well as by digital way with the use of new software. Relocation of lower incisors, incl. digital simulation of individual tooth movement, movement of groups of teeth a jaws. Procedure how to perform photo records for orthodontics, prosthodontics and orthognathic surgery. Treatment planning for orthodontic treatment and for interdisciplinary orthodontic-periodontic-prosthodontic treatment. Knowledge of orthodontic-surgical treatment planning in orthognathic surgery operation.

ST1/ZAB21 Endodontics 5 cr. Con,Ex

Cvičení 39 [hrs/sem] + Seminář 26 [hrs/sem]

doc. MUDr. Květoslava Nováková, CSc.

The content of the subject is to acquire basic knowledge and skills in the field of endodontics. The students will be acquainted with the content of the discipline, pulp chamber topography, histology and physiology of the dental pulp and pulp-periodontal organ. Furthermore, during the trainings the students will be acquainted with the endodontic equipment, instruments and devices for root canal treatment, techniques and methods of root canal shaping, disinfectants, temporary filling in endodontics as well as filling of root canals (theoretically and practically on root canal models). Theoretically, the issue of caries near the pulp, caries penetrating into the pulp as well as reversible and irreversible diseases of the dental pulp is discussed. The students will be theoretically acquainted with the issue of inflammation of dental pulp, infected root canal, inflammation of the apical periodontitis, acute conditions and complications in endodontics as well as use of magnifying tools (magnifying glasses, surgical microscope). The students will learn the examination algorithm and treatment options, basic principles of postendodontic treatment as well as root canal retreatment. The students will also receive the information about endodontics in temporary dentition, treatment procedure of exposed dental pulp in permanent immature teeth, apexification, revitalization of immature teeth as well as indications of surgical endodontics and extraction of permanent immature teeth. In the final practical trainings the tutor will demonstrate the diagnostic and practical procedures used in endodontics, including X-ray techniques and local anesthesia on the patients.

Qualifying courses: ST1/ZAB03, ST1/ZAA03, HIE/ZAA12, FYZ/ZAB11, LCH/ZAB21,

ST1/ZAB71

ST1/ZAB23 Pediatric Dentistry 1

1 cr. Con Seminář 15 [hrs/sem]

Avail. sem.: S

doc. MUDr. Květoslava Nováková, CSc. Avail. sem.: S

The subject follows the knowledge of preventive dentistry and cariology with a theoretical overview of the development of dental crowns and tooth root teeth, their disorders, the principles of tooth eruption, numerous anomalies of teeth and morphological differences between temporary and permanent dentition. Students will be introduced to extraction indications in children and will receive an introductory note on tooth injuries.

ST1/ZAB24 Pediatric Dentistry 2 6 cr. Con,Ex

Cvičení 30 [hrs/sem] + Seminář 15 [hrs/sem]

doc. MUDr. Květoslava Nováková, CSc. Avail. sem.: S

The course is focused on the deepening and synthesis of basic knowledge in children's dentistry to the extent that enables independent decision making in the prevention, diagnosis and therapy of the most common dental diseases in children including the necessary manual skills. Students acquire knowledge and skills in endodontic treatment in children, in mucogingival and dentoalveolar surgery and become acquainted with oral mucosal disease in children, indications for radiological examination of children and injuries of temporary teeth. The course includes diagnostic procedures and treatment of acute conditions dental emergency.

Qualifying courses: ST1/ZAB23, ST1/ZAA24

ST1/ZAB25 Pediatric Dentistry 3 4 cr. Con Cvičení 35 [hrs/sem]

doc. MUDr. Květoslava Nováková, CSc. Avail. sem.: S

The student is capable of comprehensive treatment of a child's patient, that is, application of current knowledge and recom-

mended methods in psychology, prevention, diagnostics and therapy, including manual skills.

Qualifying courses: ST1/ZAB03, ST1/ZAB23, ST1/ZAB24, ST1/ZAA24, ST1/ZAA19

nebo ST1/ZAA20, ST1/ZAA36, ST1/ZAA25

ST1/ZAB31 Orthodontics 1 4 cr. Con

Přednáška 15 [hrs/sem] + Cvičení 16 [hrs/sem] + Seminář 16 [hrs/sem]

prof. MUDr. Milan Kamínek, DrSc. Avail. sem.: S

Removable orthodontic appliances, indications for their application, usage. Fixed orthodontic appliances, their parts and indications for their use. Principles and making of the orthodontic treatment plan. Use of serial extraction.

ST1/ZAB33 Orthodontics 2

6 cr. Con

Cvičení 15 [hrs/sem] + Seminář 30 [hrs/sem]

prof. MUDr. Milan Kamínek, DrSc.

Avail. sem.: S

Main factors influencing the treatment plan. Main biomechanic principles of the therapy with orthodontic appliances. Classification of orthodontic anomalies with the focus on Angle Class II. Orthodontic anomalies of class III, open and deep bite. Focus on the main treatment principles. Part of the course will be the practice of diagnostic procedures and treatment of acute conditions to medical first-aid service in the premises of the Department of Oral and Maxillofacial Surgery. Classes will be held under the supervision of Institute of Dentistry and Oral Sciences

and Department of Oral and Maxillofacial Surgery lecturers.

Qualifying courses: ST1/ZAB31, ST1/ZAA33

ST1/ZAB34 Orthodontics 3

3 cr. Con

Cvičení 24 [hrs/sem] + Seminář 12 [hrs/sem]

prof. MUDr. Milan Kamínek, DrSc.

Avail. sem.: S

Principles of cooperation with a pediatric dentist, dentoalveolar surgeon, prosthetist, and periodontologist. Information on the cooperation with ortho-gnathic surgeon, orthodontic pretreatment prior to surgical management of a disorder.

Qualifying courses: ST1/ZAA33, ST1/ZAB33 nebo

/ZAB33 nebo ST1/ZAB37, ST1/ZAB31,

ST1/ZAA34 nebo ST1/ZAA38

ST1/ZAB35 Operative Dentistry 1

6 cr. Con,Ex

Přednáška 15 [hrs/sem] + Cvičení 45 [hrs/sem]

doc. MUDr. Květoslava Nováková, CSc.

Avail. sem.: S

During the training the students' acquired knowledge and skills in the area of diagnosis and treatment of carious and non-carious defects of hard dental tissues are repeated and improved. During the training the issue of treatment of caries near the dental pulp as well as caries penetrating into the dental pulp is discussed. The students will also receive the knowledge in the field of diagnosis and treatment of common acute and chronic pathological conditions in endodontics as well as the basic principles of differential diagnosis of pain of odontogenic origin. During the practical trainings the student independently performs the examination and treatment of the patient with dentin pain, pulpalgia as well as acute and chronic inflammation of apical periodontium. During the practical trainings the magnifying technique will be also used. The training will also include the practice of diagnostic and treatment procedures of acute conditions realized at the Dental Emergency at the Department of Oral and Maxillofacial Surgery. This part of the practical trainings will be supervised by doctors of the Department of Oral and Maxillofacial Surgery.

Qualifying courses: ST1/ZAB21, ST1/ZAA35, ST1/ZAB13, MIK/ZAA12, NAN/ZAA32,

PAT/ZAA22, PFY/ZAA12, ST1/ZAA20, FAR/ZAB11 nebo

FAR/ZAB12, ST1/ZAB11

ST1/ZAB36 Operative Dentistry 2

8 cr. Con

Cvičení 55 [hrs/sem] + Seminář 15 [hrs/sem]

doc. MUDr. Květoslava Nováková, CSc.

Avail. sem.: S

Continuation and consolidation of knowledge in the area of prevention, diagnosis and treatment of dental caries. Deepening of the knowledge in the field of diagnosis and treatment of inflammatory diseases of dental pulp and apical periodontium. Emphasis of the recommended methods and the modern treatment of patients. During practical trainings acquired knowledge

Emphasis of the recommended methods and the modern treatment of patients. During practical trainings acquired knowl and skills are consolidated that prepares the students for the final state exam.

Qualifying courses: ST1/ZAA35, ST1/ZAB35, ST1/ZAA36, INF/ZAA11, KOZ/ZAA11,

 $\begin{array}{l} KIM/ZAA11 \;,\;\; UCH/ZAB24 \;,\;\; NEU/ZAB11 \;,\;\; ORL/ZAB11 \;,\;\; ST1/ZAB24 \;,\;\; ST1/ZAB53 \;,\;\;\; ST1/ZAB61 \end{array}$

ST1/ZAB40 Pre-Clinical Dentistry 1

12 cr. Con

Přednáška 30 [hrs/sem] + Cvičení 75 [hrs/sem]

doc. MUDr. Miloš Špidlen, Ph.D.

Avail. sem.: S

Technological principles of fixed prosthesis production. Crowns and fixed bridgeworks. Taking of impressions, making of casts, and their mounting in articulator. Students make 3 singles crowns and 1 fixed bridgework during the course.

Qualifying courses:

ST1/ZAA40

ST1/ZAB45

Oral Medicine

4 cr. Con Cvičení 20 [hrs/sem]

doc. MUDr. Květoslava Nováková, CSc.

Avail. sem.: S

The most frequent diseases of oral cavity mucosa, manifestations of some diseases in oral cavity mucosa, their etiology, differential diagnostics, and therapy. Specific problems of dental care in persons with complex diseases.

ST1/ZAB51

Periodontology 1

2 cr. Con

Seminář 30 [hrs/sem]

doc. MUDr. Květoslava Nováková, CSc.

Avail. sem.: S

Etiology and pathogenesis of periodontopathia, clinical examination in periodontics, classification and diagnostics of diseases of gingiva.

ST1/ZAB53

Periodontology 2

5 cr. Con.Ex

Přednáška 8 [hrs/sem] + Cvičení 25 [hrs/sem] + Seminář 7 [hrs/sem]

doc. MUDr. Květoslava Nováková, CSc.

Indications, contraindications and surgical management in periodontology, including guided tissue regeneration and use of implants. Indications for orthodontic treatment in dentition with periodontal diseases. Recall. Practical part include examination, diagnostics and treatment plan in patients with periodontopathia. All kinds of conservative therapy of periodontitis, and simple surgical management of periodontium. Part of the course will be the practice of diagnostic procedures and treatment of acute conditions to medical first-aid service in the premises of the Department of Oral and Maxillofacial Surgery. Classes will be held under the supervision of Institute of Dentistry and Oral Sciences and Department of Oral and Maxillofacial Surgery lecturers.

Qualifying courses:

ST1/ZAB51, ST1/ZAA52

ST1/ZAB61

Prosthodontics 1

6 cr. Con,Ex

Přednáška 15 [hrs/sem] + Cvičení 45 [hrs/sem]

doc. MUDr. Miloš Špidlen, Ph.D.

Avail. sem.: S

Detailed information on clinical diagnostics of dentition defects, row of teeth, and on synoptic concept of the defects treatment and documentation. Part of the course will be the practice of diagnostic procedures and treatment of acute conditions to medical first-aid service in the premises of the Department of Oral and Maxillofacial Surgery. Classes will be held under the supervision of Institute of Dentistry and Oral Sciences and Department of Oral and Maxillofacial Surgery lecturers.

Qualifying courses:

ST1/ZAA61, **ST1/ZAB11**

ST1/ZAB62

Prosthodontics 2

10 cr. Con

Cvičení 75 [hrs/sem] + Seminář 15 [hrs/sem]

doc. MUDr. Miloš Špidlen, Ph.D.

Avail. sem.: S

Detailed clinical information on indications and clinical techniques of making partial and completes dentures, combined prostheses and prostheses supported by implants.

Qualifying courses:

ST1/ZAA61, **ST1/ZAB61**, ST1/ZAA62

ST1/ZAB71

Prosthetic Technology

6 cr. Con, Ex

Přednáška 15 [hrs/sem] + Cvičení 60 [hrs/sem]

doc. MUDr. Miloš Špidlen, Ph.D.

Avail. sem.: S

The subject is a follow-up of pre-clinical dentistry in the field of prosthetics. More theoretical information and practical training in dental materials and fundamental technologies used in a prosthetic laboratory.

Qualifying courses:

CJA/ZAB41, BIO/ZAB11, LBF/ZAB11, NAN/ZAB11, LCH/ZAA11, CJA/ZAA41, ST1/ZAA40, ST1/ZAB40, ST1/ZAB01, HIE/ZAB11, KAR/VAB11

ST1/ZAB72

Profess. Practice in Medical Emergency..

Con 1 cr.

Praxe 6 [hrs/sem]

MDDr. Iva Voborná, Ph.D.

Avail. sem.: S

Practicing diagnostic procedures and practical interventions in the treatment of acute conditions on emergency medical service.

Qualifying courses:

ST1/ZAB21

ST1/ZAB81

Dentistry - Clinical Training 1

2 cr. Con Praxe 30 [hrs/sem]

doc. MUDr. Miloš Špidlen, Ph.D.

Avail. sem.: S

A week in the dental office of a practising dentist. Students get acquainted with documentation, preparation of dental materials, and improve synchronization of instrumentation with the needs of an attending physician.

ST1/ZAB82

Dentistry - Clinical Training 2

2 cr. Con

Praxe 30 [hrs/sem]

doc. MUDr. Miloš Špidlen, Ph.D.

Avail. sem.: S

Summer practical training in the private dental office. Familiarization students with operation of dental office. Students will be cooperationg with dentist and dental asistence during filling procedure, dental impressions and fixed indirect restorations.

Qualifying courses:

ST1/ZAB81, BIO/ZAB11, LCH/ZAA11, NAN/ZAB11, LBF/ZAB11, CLA/ZAB11

CJA/ZAB41

ST1/ZAB83

Dentistry - Clinical Training 3

2 cr. Con

Avail. sem.: S

Praxe 30 [hrs/sem]

doc. MUDr. Květoslava Nováková, CSc.

One week practice in a dentist's office. Students are practically involved in examinations, X-ray examination and diagnostics, making of simple fillings, taking of impressions in prosthetics and professional hygiene of oral cavity. Students are encouraged to attend part of the holiday practice at the morning Dental Emergency at the Department of Oral and Mxillofacial Surgery at Faculty Hospital in Olomouc. Students will be able to take out liability insurance during out-of-school practice.

Qualifying courses:

ST1/ZAB82

ST1/ZAB84

Dentistry - Clinical Training 4

6 cr. Con

Praxe 90 [hrs/sem]

doc. MUDr. Květoslava Nováková, CSc.

Avail. sem.: S

Three week practice in a dentist's office. Students provide examination and treatment of dental caries by the fillings, takes part in the all types of endodontic treatment including making and evaluation of X-ray images, provides professional hygiene of oral cavity as well as therapeutical treatment of periodontal diseases using modern methods with doctor supervision. If it is possible students provide the simple extraction of the teeth, improve their skills in impressions making. Students are encouraged to attend part of the holiday practice at the morning Dental Emergency at the Department of Oral and Maxillofacial Surgery at Faculty Hospital in Olomouc. Students will be able to take out liability insurance during out-of-school practice.

Qualifying courses:

ST1/ZAB83

ST1/ZA062

Incizors Modeling Using the Vanini's...

4 cr. Con

Cvičení 20 [hrs/sem]

doc. MUDr. Květoslava Nováková, CSc.

Avail. sem.: W/S

Practicing the process of the total reconstruction of the crown of the upper central incisor. Modeling of different types of effects on the dentin core and the incisal edges.

Qualifying courses:

ST1/ZAB21

ST1/ZA073

Internship at the Med. Emergency Service

1 cr. Con

Praxe 6 [hrs/sem]

MDDr. Iva Voborná, Ph.D.

Avail. sem.: W/S

Theoretical and practical introduction in to the diagnostic procedures and practical achievements in the treatment of acute conditions on the dental emergency service.

Qualifying courses:

ST1/ZAB21

ST1/ZA091

Operative Dentistry, Pediat.Dentistry...

0 cr.

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doc. MUDr. Květoslava Nováková, CSc.

Avail. sem.: S

State Rigorous Examination from Restorative Dentistry, Pediatric Dentistry and Periodontology lasts one day.

ST1/ZAB81, ST1/ZAB82, ST1/ZAB83, ST1/ZAB84, Qualifying courses: ST1/ZAA35,

> **ST1/ZAB35**, ST1/ZAA36, ST1/ZAB36, ST1/ZAB52 nebo

ST1/ZAB53, ST1/ZAA52, ST1/ZAA24, ST1/ZAB24, ST1/ZAB51

ST1/ZA092 Prosthodontics and Orthodontics

0 cr.

doc. MUDr. Miloš Špidlen, Ph.D. Avail. sem.: S

State rigorous examination in Prosthodontics and Orthodontics is held within one day. It consists of a practical and theoretical part.

ST1/ZAB81, ST1/ZAB82, ST1/ZAB83, ST1/ZAB84, ST1/ZAA61, Qualifying courses:

ST1/ZAB61, ST1/ZAA34 nebo ST1/ZAA38, ST1/ZAB31,

ST1/ZAA33, ST1/ZAA62, ST1/ZAB62

TRA – DEPARTMENT OF TRAUMATOLOGY

TRA/VA021 Hand and Wrist Surgery

Con 1 cr.

Seminář 4 [hrs/sem] Avail. sem.: W/S

doc. MUDr. Pavel Dráč, Ph.D.

Present the particularity of the hand and wrist surgery. Demonstrate the basic content of theorethical knowledge - etiology, diagnostics, possibilities of conservative and surgical treatment.

Qualifying courses:

CH1/VA012 nebo CH1/VA013

TRA/VA031 Advanced Trauma Life Support Principles

Con 1 cr

Seminář 4 [hrs/sem]

doc. MUDr. Pavel Dráč, Ph.D.

Avail. sem.: W/S

Present the algorithm of primary care of polytraumatized patients. Demonstrate of particular steps of ATLS algorithm. Facilitate practical training of selected procedures and techniques usable for the management of polytraumatized patients.

Qualifying courses:

CH1/VA012 nebo CH1/VA013

TRA/VA041 Fractures in Children Con

1 cr

Seminář 4 [hrs/sem]

doc. MUDr. Pavel Dráč, Ph.D.

Avail. sem.: W/S

Present the particularity of the pediatric trauma surgery regard to injuries of growing skeleton. Demonstrate the basic content of theorethical knowledge - etiology, diagnostics, possibilities of conservative and surgical treatment of these injuries.

Qualifying courses:

PAT/VAB11 nebo IN2/VAB22nebo

PAT/ZAA22, IN2/VAB21 nebo IN2/ZAB11 nebo

IN2/ZAB12

nebo

IN2/ZAB13, MIK/VAA12 nebo MIK/ZAA12,

PFY/VAB11 nebo

PFY/ZAA12, FAR/VAB11 nebo

FAR/ZAB12

TVL – DEPARTMENT EXERCISE MEDICINE AND CARDIOVASCULAR REHABILI-**TATION**

TVL/VAA21 Selected Chapters from Sports Medicine

Cvičení 4 [hrs/sem] + Seminář 12 [hrs/sem]

prof. MUDr. Eliška Sovová, Ph.D., MBA

Avail. sem.: W

Knowledge of sport's population problems with increased accent to practical solvent of the most often health problems rised at physical activity.

TVL/VA041

Exercise Medicine and Clinical Rehabil.

2 cr. Con,Ex

Cvičení 15 [hrs/sem] + Seminář 15 [hrs/sem]

prof. MUDr. Eliška Sovová, Ph.D., MBA

Avail. sem.: W

Knowledge of theoretical principles of exercise physiology and pathophysiology including risks of possible complications, and knowledge of clinical application of results. The student should examine a patient with respect to detection of the most common functional disorders of motion system and be familiar with possible compensation of these disorders. Student becomes familiar with basic principles of rehabilitation programmes in significant and common diagnosis and realizes connection among other clinical fields. The part of this lessons is to familiarize with the scientific principles of spa medicine including the practical indication of this therapy.

nebo IN2/VAB22

TVL/VA042 Exercise Medicine 1 cr. Con,Ex

Cvičení 13 [hrs/sem] + Seminář 18 [hrs/sem]

prof. MUDr. Eliška Sovová, Ph.D., MBA Avail. sem.: W/S

Knowledge of theoretical principles of exercise physiology and pathophysiology including risks of possible complications, and knowledge of clinical application of results. The student

should examine a patient with respect to detection of the most common functional disorders of motion and cardiovascular system and be familiar with possible compensation of these disorders. Student becomes familiar with basic principles of prescription of exercise in significant and common diagnosis and realizes connection among other clinical fields. Student becomes more familiar with the basic principles of healthy nutrition and antidoping rules. The part of this lessons is to familiarize with the scientific principles of spa medicine including the practical indication of this therapy.

UCH – DEPARTMENT OF ORALCAND MAXILLOFACIAL SURGERY

UCH/ZAA23 Dental Implantology

4 cr. Co Seminář 20 [hrs/sem]

Avail. sem.: W

doc. MUDr. et MUDr. Peter Tvrdý, Ph.D.

Indications and contraindications in dental implantology. Principles of osseointegration, classification of dental implants. Augmentation in dental implantology. Technique of implantation, prosthodontic treatment after implantation, prevention and treatment of complications in dental implantology. Part of the course will be the practice of diagnostic procedures and treatment of acute conditions to medical first-aid service in the premises of the Department of Oral and Maxillofacial Surgery. Classes will be held under the supervision of Institute of Dentistry and Oral Sciences and Department of Oral and Maxillofacial Surgery lecturers.

UCH/ZAA24 Oral Surgery 2 0 cr.

Přednáška 15 $[\mathrm{hrs/sem}]$ + Cvičení 45 $[\mathrm{hrs/sem}]$

doc. MUDr. et MUDr. Peter Tvrdý, Ph.D. Avail. sem.: W

Preprosthetic surgery, temporomandibular joint disorders (non-surgical and surgical treatment), essentials of orthognathic surgery, principles of management of orofacial cleft, syndromes of the head and neck, differential diagnosis and management of the orofacial pain, diagnostic and treatment of salivary gland disorders (excluding tumors), head and neck lymphadenopathy, specific infectious diseases.

Qualifying courses: UCH/ZAB11 nebo UCH/ZAB14

UCH/ZAA34 Oral Surgery 3 4 cr. Con,Ex

Přednáška 15 [hrs/sem] + Cvičení 56 [hrs/sem]

Teeth and alveolar bone injuries (first aid, treatment), fracture of the mandible, fracture of the middle face floor, the pecularities of the mandibular and maxillary fracture treatment in children and the elderly, first aid treatment of head and neck injuries, war facial injuries.

Qualifying courses: UCH/ZAB13 nebo UCH/ZAB24, UCH/ZAA12 nebo

UCH/ZAA24

UCH/ZAB14 Oral Surgery 1 1 cr. Con

Cvičení 10 [hrs/sem] + Seminář 15 [hrs/sem]

doc. MUDr. et MUDr. Peter Tvrdý, Ph.D. Avail. sem.: W/S

Oral and maxillatacial surgery description of subject examination of nations diagnostic and treatment plan local ana

Oral and maxillofacial surgery - description of subject, examination of patient, diagnostic and treatment plan, local anaesthesia, tooth extraction, removal of unerupted teeth, surgical extraction, surgical endodontics, pericoronitis, treatment of

the patient with hemocoagulation disorders, pathological cavities in the orofacial area, orofacial inflammatory processes.

Qualifying courses: FAR/ZAA11, IN1/ZAA11, MIK/ZAA12, NAN/ZAA31, PAT/ZAA21,

PFY/ZAA12, ST1/ZAA20, PFY/ZAB11, MIK/ZAB11, PAT/ZAB11

UCH/ZAB24 Oral Surgery 2 5 cr. Con

Přednáška 15 [hrs/sem] + Cvičení 45 [hrs/sem]

doc. MUDr. et MUDr. Peter Tvrdý, Ph.D. Avail. sem.: S

Introduction to oral and maxillofacial onkology, benign tumors, malignant epithelial tumors, malignant mesenchymal tumors, odontogenic tumors, tumors of the salivary glands, oncologic

prevention and dispenzarization (follow-up) in dentistry.

Qualifying courses: UCH/ZAB11 nebo UCH/ZAB14, UCH/ZAA12 nebo

UCH/ZAA24

UCH/ZAB34 Oral Surgery 3 3 cr. Con

Přednáška 15 [hrs/sem] + Cvičení 56 [hrs/sem]

doc. MUDr. et MUDr. Peter Tvrdý, Ph.D. Avail. sem.: S

Systemic complication of dental treatment, dry socket, reconstructive operation in maxillofacial surgery, disinfection and sterilization in oral and maxillofacial surgery, the role of viruses in the epidemiology of oropharyngeal carcinomas, bleeding in dentoalveolar surgery.

Qualifying courses: UCH/ZAA12 nebo UCH/ZAA24, UCH/ZAB13 nebo

UCH/ZAB24, UCH/ZAA21 nebo UCH/ZAA34

UCH/ZA091 Oral Surgery 0 cr. Sri

doc. MUDr. et MUDr. Peter Tvrdý, Ph.D. Avail. sem.: S

A practical part of State Examination is to be sat for during the last week of practical training. It is focused on the clinical examination of the patient (incl. anamnesis, clinical examination, treatment planning), performing of tooth extraction or a simple oral operation and X-ray scan evaluation. The oral part of the State Examination is focused on knowledge of oral surgery, maxillofacial oncology and traumatology.

Qualifying courses: ST1/ZAB81, ST1/ZAB82, ST1/ZAB83, ST1/ZAB84, UCH/ZAB11

nebo UCH/ZAB14, UCH/ZAA12 nebo UCH/ZAA24,

UCH/ZAA21 nebo UCH/ZAA34, UCH/ZAB21 nebo

UCH/ZAB34

URG – CENTER FOR EMERGENCY MEDICINE

URG/VA023 Emergency Medicine 3 cr. Con,Ex

Praxe 5 [hrs/sem] + Cvičení 24 [hrs/sem] + Seminář 10 [hrs/sem]

MUDr. Vladislav Kutěj Avail. sem.: W/S

Providing basic and advanced cardiopulmonary resuscitation, including performing other life-saving procedures, introduction of emergency medical system and emergency departments.

Qualifying courses: CH1/VA011 nebo CH1/VA012 nebo CH1/VA013

URO - DEPARTMENT OF UROLOGY

URO/VA011 Urology 4 cr. Con,Ex

Přednáška 27 [hrs/sem] + Cvičení 42 [hrs/sem] + Seminář 21 [hrs/sem]

prof. MUDr. Vladimír Študent, Ph.D. Avail. sem.: W/S

Presentation of urology for students, description of fundamental diagnostics and treatment procedures, urological diseases and its treatment.

Qualifying courses: CH1/VA011 nebo CH1/VA012 nebo CH1/VA013