

Higher education module program

Faculty name	Faculty Medicine Jagiellonian University Medical College
Unit conducting the module	
Module name	Internal Medicine –clinical training
Language	English
Educational goals	The aim of the module is - to learn practical skills within the field of internal medicine - to systematise acquired knowledge - to prepare a student to work autonomously
Objectives of education in the module	In the frame of knowledge, a graduate: E.W1. knows most common genetic, environmental and epidemiological background of most common diseases E.W7. knows and understands the causes, symptoms, diagnostic principles and therapeutic procedures in respect to most common internal diseases in adults and their complications: a) circulatory disorders, including ischaemic heart disease, heart defects, disorders of the endocardium, myocardium, pericardium, acute and chronic cardiac failure, arterial and venous disorders, primary and secondary arterial hypertension, pulmonary hypertension, b) respiratory disorders, including: diseases of the respiratory tract, chronic bronchial asthma, obstructive pulmonary disease, bronchiectasis, mucoviscidosis, infections of the respiratory tract, interstitial diseases of the lungs, pleura, mediastinum, obstructive and central sleep apnea, respiratory failure (acute and chronic), malignancies of the respiratory system, c) disorders of the digestive system, including: diseases of the oral cavity, esophagus, stomach and duodenum, intestines, pancreas, liver, biliary tracts and gallbladder, d) disorders of the endocrine system, including diseases of hypothalamus and pituitary gland, thyroid, parathyroid glands, adrenal cortex and core, ovaries and testes, neuroendocrine tumors, pluriglandular hypofunction, various types of diabetes and metabolic syndrome; hypoglycemia, obesity, dislipidemia, e) diseases of kidneys and urinary tract, including acute and chronic renal failure, glomerular disorders, interstitial renal disorders, renal cysts, urolithiasis, urinary infections, malignancies of the urinary system, and in particular, cancers of the urinary bladder and kidney, f) disorders of the hematopoietic system, including bone marrow aplasia, anemia, granulocytopenia and aglanulocytosis, thrombocytopenia, acute leukemia, myeloproliferative and myelodysplastic- myeloproliferative tumors, myelodysplastic syndromes, tumors from mature B and T lymphocytes, bleeding diathesis, thrombophilia, life threatening conditions in hematology, blood disorders in diseases of other organs, blood donation and blood therapy, bone marrow transplantation, g) rheumatic disorders, including systemic disorders of connective tissue, systemic vasculitis, arthritis involving the vertebral column, metabolic diseases of bones, in particular, osteoporosis and deformative arthrosis, gout, h) allergic diseases, including anaphylaxis and anaphylactic shock, angioedema, i) water-electrolyte and acido-basic disturbances, dehydration, hyperhydration, electrolyte disorders, acidosis and alkalosis In the frame of skills: E.U1. carries out history taking in adult patient E.U3. performs complete and organ-system specific physical examination of adult patient E.U6. performs tentative hearing and vision field assessment and otoscopic examination E.U7. assesses patient's general condition, level of consciousness and orientation E.U12. performs differential diagnostics of most common diseases in adults and children E.U13. assesses and describes somatic and mental condition of patient E.U14. identifies life-threatening conditions E.U16. plans diagnostic, therapeutic and prophylactic procedures E.U21. identifies conditions in which survival time, functional

	<p>status or patient's preferences limit procedures concordant with the directives specified for a given disease</p> <p>E.U24. interprets laboratory tests and identifies causes of abnormalities</p> <p>E.U25. can apply nutritional therapy (including enteral and parenteral nutrition)</p> <p>E.U26. plans procedures in case of exposure to blood transmitted infections</p> <p>E.U28. can collect specimens to be used for laboratory diagnostics</p> <p>E.U29. can perform basic medical procedures, including:</p> <ol style="list-style-type: none"> temperature, pulse rate and noninvasive arterial pressure measurements vital signs monitoring using a cardiomonitor, pulsoxymetry spirometric test, oxygen therapy, assisted ventilation and intubation introduction of endotracheal tube intravenous, intramuscular and subcutaneous injections, cannulation of peripheral veins, collecting of peripheral venous blood, collecting blood specimens for smear, collecting arterial blood, collecting arterialized capillary blood taking nasal, pharyngeal and dermal swabs, pleural puncture urinary bladder catheterization in men and women, stomach probing, stomach lavage, enema standard ECG at rest with interpretation, electric cardioversion and defibrillation simple strip tests and blood glucose measurements <p>E.U30. assists while conducting the following procedures and treatments:</p> <ol style="list-style-type: none"> blood and blood components transfusions pleural cavity drainage puncture of the pericardial sac puncture of the peritoneal cavity lumbar puncture fine needle biopsy intra dermal and scarificating tests and interprets their results intra dermal and scarification tests and interprets their results bone marrow aspiration biopsy <p>E.U32. can plan specialist consultations</p> <p>E.U37. identifies patient's death throes and certifies death</p> <p>E.U38. can keep medical patient record</p>
Assessment criteria and methods of evaluating achieved objectives of education	<p>Students are assessed based on attendance and participation in classes, obtaining skills is confirmed in the book called "List of Approved Procedures"</p> <p>The final exam:</p>
Type of a training module (mandatory/optional)	Mandatory
Year of studies	6
Semester	11, 12
Type of studies	full-time long-cycle
Name and surname of the module coordinator or the person/people conducting the module	
Name and surname of the person/people examining or giving credit in the case this is not the person conducting a given module	
Type of classes	Clinical practicals
Preliminary and additional requirements	Credits for Internal Diseases module
Type and number of class hours requiring direct participation of an academic staff member and students when there are such classes in a given module	Clinical practicals in pairs - 240 hours 8 weeks
Number of ECTS score for the module	17 ECTS
ECTS credit allocation	Attendance in mandatory classes - 240 hours Preparation to practicals - 120 hours

	Preparation for the final exam - 30 hours Total 390 hours of student's work
Teaching methods used	Clinical practicals - practical clinical study
The form and conditions for passing the module, including the requirements to be admitted to the examination, to be given a credit, and also the form and conditions for passing classes which comprise a given module	Module passing requires fulfilling the following conditions: <ol style="list-style-type: none"> 1. attendance in classes 2. active participation in classes 3. passing the final exam
Training module content (with the division into teaching methods)	Clinical classes - Practical occupational learning - 240 hours Students are assigned to one/two hospital wards for 8 weeks. Student's duties are: participation in preparation before patients' examination, participation in keeping the records - recording the findings in patient's status praesens, recording tests' results in hospital records, participation in examination, participation in consulting at infirmary and different hospital wards.
Basic and supplementary reading, necessary to get a credit of a given module	1.