



FACULTY OF MEDICINE

Approved:

Dean:

(Prof. Dr. Yoto Yotov, MD, PhD)



SYLLABUS OF THE PREGRADUATE INTERNSHIP IN “EMERGENCY MEDICINE”

Specialty	MEDICINE
Educational - qualification degree	master
Organizational form of education	full-time
Duration (days)	5 days (30 hours)
ECTS- credits: total (Internship/State Examination)	1 (1/-)
Year	Sixth
Completes with a State Examination	No
Developer(s) of the Syllabus:	Assoc. Prof. Dr Boryana Naydenova, MD, PhD Prof. Dr Viliyan Platikanov, MD, PhD Dr Monika Agatova

Varna, 2024

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ANNOTATION

Aims of the pregraduate internship	The aim of the pre-doctoral internship is for the trainee doctors to be involved in real clinical practice, to know the healthcare system, to be able to use the documentation, to be able to propose diagnostic and therapeutic solutions under the guidance of an experienced doctor.
Outcomes for students at the end of the internship:	
Competences	The purpose of the state EM clerkship is to provide theoretical and practical training to the trainee physicians in the specialty of Medicine, in the major areas of Emergency Medicine that arise in real life settings. The theoretical course deals in depth with some key topics of the specialty and is subordinated to the current standards of the specialty of Emergency Medicine and the European Recommendations of the European Resuscitation Council. The aim of the practical activities is to build the basic skills necessary for a correct diagnostic and therapeutic approach to the patient in need of emergency care.
Competence group	1. Patient Care that is compassionate, appropriate, and effective for treating health problems and promoting health.
Knowledge	<input type="checkbox"/> Principles of Diagnosis and Treatment: apply their practical knowledge in the diagnosis and treatment of patients with a variety of emergency conditions. <input type="checkbox"/> Basic Principles of Medical Ethics. <input type="checkbox"/> Multidisciplinary Approach: understand the importance of teamwork and collaboration with other medical professionals for optimal treatment and care of patients.
Skills	<input type="checkbox"/> To quickly navigate the patient's major life and health threatening conditions. <input type="checkbox"/> To know the features of the clinical examination and apply it to patients, ensuring maximum comfort for patients. <input type="checkbox"/> Know the principles of first aid in pre-hospital and hospital settings. <input type="checkbox"/> Know the principles of treatment in the emergency home, transport and emergency department settings <input type="checkbox"/> Know the indications for performing emergency diagnostic procedures. <input type="checkbox"/> Understand the impact of procedures on patients and families. <input type="checkbox"/> Determine the need for the use of additional diagnostic non-invasive and/or invasive methods, respectively interpretation of results obtained. <input type="checkbox"/> To competently perform, under the supervision and with the assistance of a registered medical practitioner, basic medical procedures required within their scope of practice. <input type="checkbox"/> To perform procedures in a manner that provides maximum patient comfort. <input type="checkbox"/> To provide effective prescriptions for the management, maintenance and prevention of health.
Competence group	2. Medical Knowledge about established and evolving biomedical, clinical, and cognate (eg, epidemic-logical and social-behavioural) sciences and the application of this knowledge to patient care.
Knowledge	<input type="checkbox"/> Knowledge of the prevalence and etiology of disease and the interaction between social and behavioral factors and patient health.

	<ul style="list-style-type: none"> <input type="checkbox"/> Knowledge of the pathogenetic mechanisms of the major nosological entities in emergency medicine. <input type="checkbox"/> Clinical assessment, staging and monitoring of patients. <input type="checkbox"/> Knowledge of drug substances, their doses, side effects and interactions, and the ability to select and administer optimal pharmacotherapy for emergency patients. <input type="checkbox"/> Knowledge of the basic theoretical and practical skills for administration in emergency conditions. <input type="checkbox"/> Knowledge of trauma and traumatic illness, drowning and drowning, shock, respiratory failure, acute cardiovascular disorders, acute cerebral circulatory disorder, acute poisoning, anaphylaxis, thyrotoxic and Addisonian crisis, ketoacidosis and hypoglycemia, etc. <input type="checkbox"/> Dissemination of experience among colleagues.
Skills	<ul style="list-style-type: none"> <input type="checkbox"/> To acquire new scientific and clinical knowledge in emergency medicine. <input type="checkbox"/> To apply a research and analytical approach to clinical and scientific problem solving. <input type="checkbox"/> To apply medical and scientific knowledge to emergency clinical situations. <input type="checkbox"/> To perform complex clinical assessment of patients, including interpretation of symptoms, physical examination, and interpretation of laboratory and imaging results. <input type="checkbox"/> To carry out patient monitoring by assessing disease activity and severity and treatment effectiveness. <input type="checkbox"/> To initiate and present best and innovative practices and share what is learned with colleagues.
Competence group	<p>3. Practice-Based Learning and Improvement that involves investigation and evaluation of their own patient care, appraisal, and assimilation of scientific evidence, and improvements in patient care.</p>
Knowledge	<ul style="list-style-type: none"> <input type="checkbox"/> Practical skills in recognizing, diagnosing, assessing, preventing and treating acute life-threatening or disabling emergency conditions in the areas of trauma, pulmonary, cardiovascular, gastroenterology, rheumatology, allergy, psychology, nephrology, hematology, endocrinology, etc.
Skills	<ul style="list-style-type: none"> <input type="checkbox"/> Represented through the correct and precise execution of professional responsibilities, adherence to ethical principles, and empathy for diverse patient populations. <input type="checkbox"/> Providing and maintaining an airway - intubation, laryngeal mask, supraglottic devices, coniotomy <input type="checkbox"/> Oxygen therapy <input type="checkbox"/> Blood circulation access - central and peripheral venous access, ostial access <input type="checkbox"/> CPR - ALS, RLS, defibrillation, etc. <input type="checkbox"/> Gastric lavage and antidote therapy <input type="checkbox"/> Principles of ATLS <input type="checkbox"/> Bladder catheterisations <input type="checkbox"/> Corrections of VER, CPR, metabolic disorders <input type="checkbox"/> Pleural cavity drainage <input type="checkbox"/> Developing a management plan for acute and life-threatening conditions in trauma, pulmonary, cardiovascular, gastroenterology, rheumatology, allergy, psychology, nephrology, hematology, endocrinology, etc.

Competence group	4. Interpersonal and Communication Skills that result in effective information exchange and teaming with patients, their families, and other health professionals.
Competence group	5. Professionalism , as manifested through a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population.
Competence group	6. Systems-Based Practice , as manifested by actions that demonstrate an awareness of and responsiveness to the larger context and system of health care and the ability to effectively call on system resources to provide care that is of optimal value.

Methods of education
<ul style="list-style-type: none"> ▪ lectures ▪ seminars ▪ practical's and laboratory exercises, practical and creative problem solving, case studies, consultations, discussions, work with scientific literature, regulatory documents, databases, analyses, presentations, work with patients under observation, medical documentation.

Links with courses from the curriculum of the specialty
<input type="checkbox"/> Imaging <input type="checkbox"/> Cardiology <input type="checkbox"/> Pneumology <input type="checkbox"/> Clinical Laboratory <input type="checkbox"/> General and operative surgery <input type="checkbox"/> General Medicine <input type="checkbox"/> Psychiatry

REGULATIONS FOR THE CONDUCT OF THE PREGRADUATE INTERNSHIP

Trainee doctors start the working day alongside the doctors-in-training at the respective clinics/departments where they are doing their government internship. Their stay in the respective clinical unit shall be for the duration of the working day. Trainee doctors shall be on duty for a full day, including Saturdays, Sundays and public holidays, and shall then benefit from compensatory days off. Trainee doctors are given specific responsibility in terms of admissions, ordering tests on patients, following up on these tests - all under the direction and supervision of a senior doctor; discussing and prescribing therapy; and knowing and keeping medical records.

Working with highly specialized simulators in the Simulation Centre at MU-Varna.

Work in the centres of the CMC and emergency centres.

Attendance of the lecture course, according to the schedule approved at the beginning of each internship.