

## KARTA PRZEDMIOTU

<b>Discipline code</b>	0912-7LEK-C6.8-M	
<b>Name of discipline</b>	<b>Polish</b>	<i>Medycyna Ratunkowa i Medycyna Katastrof</i> <i>Emergency Medicine and Disaster Medicine</i>
	<b>English</b>	

### 1. LOCATION OF THE COURSE OF STUDY WITHIN THE SYSTEM OF STUDIES

<b>1.1. Field of study</b>	medicine
<b>1.2. Mode of study</b>	Full-time
<b>1.3. Level of study</b>	Uniform Master's study
<b>1.4. Profile of study*</b>	Practical
<b>1.5. Person/s preparing the course description</b>	Paweł Podsiadło
<b>1.6. Contact</b>	wnoz_inm@ujk.edu.pl

### 2. GENERAL CHARACTERISTICS OF THE COURSE OF STUDY

<b>2.2. Language of instruction</b>	English
<b>2.4. Prerequisites*</b>	Anatomy, Physiology, Pathology, Surgery, Internal Medicine, Anesthesiology and intensive Care

### 3. DETAILED CHARACTERISTICS OF THE COURSE OF STUDY

1.1. Form of classes	Lectures, seminars, classes
1.2. Place of classes	1)lectures, seminars: teaching rooms 2)classes: Medical simulation Center UJK, Emergency Department
1.3. Form of assessment	Lectures – Exam, Seminars, Classes –graded credit
1.4. Teaching methods	conventional lecture conversational lecture Medical simulations, practical classes in ED
1.5. Bibliography	<b>Required reading</b>
	<b>Further reading</b>
	<ul style="list-style-type: none"> <li>– Cydulka RK et al.(eds.) Tintinalli's Emergency Medicine Manual. McGraw-Hill Education, 2018</li> <li>– American College of Surgeons. Advanced Trauma Life Support</li> <li>– European Resuscitation Council Guidelines for Resuscitation 2015 <a href="https://cprguidelines.eu">https://cprguidelines.eu</a></li> <li>– European Resuscitation Council Guidelines for Resuscitation 2015 <a href="https://cprguidelines.eu">https://cprguidelines.eu</a></li> </ul>

### 4. OBJECTIVES, SYLLABUS CONTENT AND INTENDED LEARNING OUTCOMES

<p><b>4.1. Course objectives</b></p> <p>C-1-WW (knowledge)</p> <ul style="list-style-type: none"> <li>–A familiarisation with the principal elements on the extended level of the subject. It includes the knowledge about life-threatening conditions resulted from illnesses and injuries of particular human systems and organs</li> <li>- A familiarisation of the students with the planning and organization of medical coverage in industrial, transportation, environmental, chemical and natural disasters as well as military threats</li> </ul> <p>C-2-UW (skills)</p> <ul style="list-style-type: none"> <li>–preparation of the students to implement algorithms of emergency management in the certain life-threatening conditions. Developing the abilities of managing the rescue operation in the rescue team</li> <li>- preparation of the students to carrying out medical, rescue and evacuation operations in a disaster place and outside of it as well as cooperating with other rescue services</li> </ul> <p>C-3-KW (social skills)</p> <ul style="list-style-type: none"> <li>– Forming emphatic attitudes, conscientiousness, discipline, personal involvement into rescue operation in situations of immediate danger to human life or health</li> </ul>	
<b>4.2. Detailed syllabus</b>	
<b>Lp.</b>	<b>Lectures</b>
W1	Emergency medicine – what is it? The golden hour and avoidable deaths; a strategy of load & go vs stay & play; Damage Control Surgery; The chain of survival in cardiac arrest Initial assessment: cABC and SAMPLE.

	EMS system structure, EDs, Trauma Centers, Trauma Team.	
W2	Respiratory failure; oxygen masks, NIV /CPAP, ventilators, ECMO Circulation; chest pain differential diagnosis, dysrhythmias, cardiac arrest, pharmacotherapy and electrotherapy, manual CPR, MCCD, ECPR	
W3	Haemorrhagic shock Traumatic cardiac arrest. Immune response to trauma: SIRS and CARS. Limb injuries, abdominal trauma; thoracic trauma;; head injuries	
W4	Central nervous system: stroke - symptoms, time window for thrombolysis and embolectomy Syncope, loss of consciousness, convulsions Drowning. Lightning injuries. Electrical injuries. Insect sting anaphylaxis. Accidental hypothermia. Hyperthermia	
W5	Disaster medicine: multiple and mass casualty incidents; triage; on-site management, Terrorist attacks; chemical weapons. Gun-shot / blast / crush injuries	
<b>Lp.</b>	<b>Seminars / Classes</b>	
<u>C1</u>	Airway management; RSI; ETT placement inspection; DOPES; SPEEDBOMB- checklist; conicotomy Mechanical ventilation monitoring	
<u>C2</u>	Cardiopulmonary resuscitation; BLS-AED algorithm, ALS algorithm; defibrillation, cardioversion, transthoracic pacing	
<u>C3</u>	Cardiac arrest in children; Resuscitation of babies at birth Toxidromes; drugs and stimulants; CO poisoning	
<u>C4</u>	Initial assessment of trauma victims Spine trauma; immobilization – spineboard, cervical collar, vacuum mattress Haemorrhagic shock, volume replacement, peripheral veins cannulation, intraosseous access Pain management	
<u>C5</u>	Chest injuries; flail chest management; tension pneumothorax decompression; chest tube insertion Management of burns Trauma in children	
<u>C6</u>	Limb injuries; immobilization Traumatic brain injuries Spinal cord injuries	

#### 4.3. Intended learning outcomes

Code	A student, who passed the course	Relation to learning outcomes
within the scope of <b>KNOWLEDGE</b> :		
W01	knows the most common life-threatening conditions in children and the rules of conduct in these states;	E.W6.
W02	knows and understands the capabilities and limitations of laboratory tests in emergency situations;	E.W39.
W03	knows and understand the causes, symptoms, principles of diagnosis and therapeutic management in relation to the most common diseases requiring surgical intervention, taking into account the individuality of childhood, in particular: a) acute and chronic diseases of the abdominal cavity, b) diseases of the chest, c) diseases of limbs and head, d) bone fractures and injuries of organs;	F.W1.
W04	knows the principles of the integrated state system of medical rescue;	F.W8.
W05	knows the issues concerning modern imaging tests, in particular: a) basic radiological symptomatology of diseases, b) instrumental methods and imaging techniques used to perform medical treatments, c) the indications, contraindications and preparation of patients to particular types of imaging tests and contraindications the use of contrast agents;	F.W10.
W06	knows and understands the causes, symptoms, principles of diagnosis and therapeutic procedures for the most frequent diseases of the central nervous system in terms of: a) a swelling of the brain and its consequences, with particular emphasis on the states of emergency, b) other forms of intracranial narrowness of their consequences, c) cranio-cerebral injuries d) vascular malformations of the central nervous system, e) tumors of the central nervous system,	F.W13.



U09	X	X																	
U10	X	X																	
U11	X	X																	
U12	X	X																	
U13	X	X																	
U14	X	X																	
U15	X	X																	
U16	X	X																	
U17	X	X																	
U18	X	X																	
U19	X	X																	
U20	X	X																	
U21	X	X																	
U22	X	X																	
U23	x	X																	

<b>4.5. Criteria of assessment of the intended learning outcomes</b>		
<b>Form of classes</b>	<b>Grade</b>	<b>Criterion of assessment</b>
<b>wykład (W)</b>	<b>3</b>	61-68% Attends classes, has difficulties in solving the tasks, needs guidance and supervision at work, bases the solution of the task only on the recommended pattern
	<b>3,5</b>	69-76% Attends classes, has difficulties in solving the tasks, needs guidance at work, uses stereotypical approach to solve tasks
	<b>4</b>	77-84% Takes part in classes, demonstrates involvement, solves tasks independently (uses acquired knowledge), adapts accepted patterns to solve tasks
	<b>4,5</b>	85-92% Takes part in classes actively, demonstrates involvement, solves tasks independently. bases the task solution on given information as well as additional sources
	<b>5</b>	93-100% Takes part in classes actively, demonstrates involvement, solves tasks independently. bases the task solution on given information as well as additional sources, uses innovative ways of solving tasks
<b>ćwiczenia (C)*</b>	<b>3</b>	61-68% Attends classes, has difficulties in solving the tasks, needs guidance and supervision at work, bases the solution of the task only on the recommended pattern
	<b>3,5</b>	69-76% Attends classes, has difficulties in solving the tasks, needs guidance at work, uses stereotypical approach to solve tasks
	<b>4</b>	77-84% Takes part in classes, demonstrates involvement, solves tasks independently (uses acquired knowledge), adapts accepted patterns to solve tasks
	<b>4,5</b>	85-92% Takes part in classes actively, demonstrates involvement, solves tasks independently. bases the task solution on given information as well as additional sources
	<b>5</b>	93-100% Takes part in classes actively, demonstrates involvement, solves tasks independently. bases the task solution on given information as well as additional sources, uses innovative ways of solving tasks
<b>Ćwiczenia praktyczne (Cwp)*</b>	<b>3</b>	61-68% Attends classes, has difficulties in solving the tasks, needs guidance and supervision at work, bases the solution of the task only on the recommended pattern
	<b>3,5</b>	69-76% Attends classes, has difficulties in solving the tasks, needs guidance at work, uses stereotypical approach to solve tasks
	<b>4</b>	77-84% Takes part in classes, demonstrates involvement, solves tasks independently (uses acquired knowledge), adapts accepted patterns to solve tasks
	<b>4,5</b>	85-92% Takes part in classes actively, demonstrates involvement, solves tasks independently. bases the task solution on given information as well as additional sources
	<b>5</b>	93-100% Takes part in classes actively, demonstrates involvement, solves tasks independently. bases the task solution on given information as well as additional sources, uses innovative ways of solving tasks

5. BALANCE OF ECTS CREDITS – STUDENT’S WORK INPUT

Category	Obciążenie studenta
	Studia stacjonarne
<b>NUMBER OF HOURS WITH THE DIRECT PARTICIPATION OF THE TEACHER /CONTACT HOURS/</b>	<b>40</b>
<i>Participation in lectures*</i>	15
<i>Participation in classes, seminars, laboratories*</i>	25
<i>Preparation in the exam/final test*</i>	
<i>Others*</i>	
<b>INDEPENDENT WORK OF THE STUDENT/NON-CONTACT HOURS/</b>	<b>10</b>
<i>Preparation for the lecture*</i>	10
<i>Preparation for the classes, seminars, laboratories*</i>	
<i>Preparation for the exam/test*</i>	
<i>Gathering materials for the project/Internet query*</i>	
<i>Preparation of multimedia presentation</i>	
<i>Others (please specify e.g. e-learning)*</i>	
<b>TOTAL NUMBER OF HOURS</b>	<b>50</b>
<b>ECTS credits for the course of study</b>	<b>2</b>

**Przyjmuję do realizacji** (data i podpisy osób prowadzących przedmiot w danym roku akademickim)

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