Attachment to the Ordinance of the Rectorno 186/WST/2018

Subject name Emergency Medicine and Disaster Medicine	ECTS Code					
Name of unit teaching the subject THE ZBIGNIEW RELIGA FACULTY OF MEDICAL SCIENCES IN ZABRZE, THE UNIVERSITY OF TECHNOLOGY IN KATOWICE						
Studies						
Field of study degree	mode major specialization					
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Surname of instructor (instructors)						
Type of class, method of implementation and specified num of hours	-					
A.Type of class	Description of awarding ECTS points:					
 <u>lecture</u>, exercise classes, 	Activity Student workload					
 <u>clinical exercise classes</u> seminars, 	Participation in lectures 15 hours					
design classeslaboratories,	Participation in practical classes 30 hours					
 lectureship, diploma seminar, professional internship.* 	Preparation for practical classes and colloquiums15 hours					
* mark where applicable	Test preparation 20 hours					
B. Amount of hours in accordance with the approved curriculum	Consultations 10 hours					
Lecture – 10h	Total number of hours90 hours / 30					
Exercise classes – 30h	Amount of ECTS points per module3ETCS					
Didactic cycle 5th year, 10th semester Subject status • mandatory / facultative	Language of instruction Polish					
Didactic methods Lectures	Forms and methods of passing and general grading criteria or examination requirements					
Demonstration of clinical cases Demonstrations with the use of a computer Demonstrations with the use of a phantom Case analysis Situational method, staging Didactic discussion	 A. Method of passing examination passing with a grade* mark where applicable B. Forms of passing: written examination: test / with open questions (exercises)/longer written statement oral assessment oral test/colloquium completion of a semester assignment: preparation of a design or presentation/conducting research and presenting its results(written/oral)/completion of a specified practical work agreeing on a passing grade based on partial grades received during the course of the semester* 					

C. Basic grading criteria Evaluating participation in exercise classes, evaluating preparation for classes, constant observation, partial
assessment, oral, written, practical assessment, oral examination

Definition of preparatory subjects and initial requirements

Required familiarity with

- current guidelines of cardiorespiratory resuscitation of newborns, children, and adults
- principles of functioning of the integrated system of state emergency medicine
- principles of qualification for and performing the most common surgical and invasive procedures and their complications
- principles and guidelines for using intensive therapy

Segregation of road accident victims. Preparation for transport

Medical emergency activities for children

Subject aim

The aim of the subject is familiarizing the students with how to behave in life threatening situations of internal and surgical origin, how to treat a victim of mass events and plan diagnostic treatment in medical emergencies, assessment of the patient's condition as well as group work

Curriculum

The history of the development of emergency medicine. Emergency medicine in health care systems Legal conditions of the system of the State Emergency Medical Services in Poland Introduction to clinical procedures of emergency medicine Introduction to emergency treatment of multiple and multi-organ bodily injuries Techniques and technologies in an emergency medicine clinic Structure and financial of the hospital emergency medicine ward Life-threatening conditions of children Natural and man-made disasters. The organization of rescue services during mass casualty incidents events and disasters International cooperation in mass casualty incidents and disasters General principles of behavior at the site of an accident and with a patient in life and health threatening conditions Organization of rescue services in danger zones in road, railway, construction, marine, ecological, and aviation accidents Organization of medical aid during mass casualty incidents and disasters. Humanitarian aid Triage in mass casualty incidents and disasters Segregation systems used for adults and children Chemical disasters Bioterrorism Radiation accidents and disasters. Acute radiation syndromes in mass casualty incidents and disasters Regional plans of medical safety during disasters Medical safety during mass events Infrastructure disasters. Cooperation of medical rescue services at the site of a mass casualty incident or a disaster Etiology of sudden circulatory arrests Basic resuscitative actions for adults Basic resuscitative actions for children Basic resuscitative actions for newborns Advanced cardiorespiratory resuscitation Adult medical emergencies Principles of behavior in multiple bodily injuries. Shock Child medical emergencies Initial treatment of burns. Hyperbaric oxygen therapy Basic resuscitative actions for adults. Monitoring of functions Advanced resuscitative actions for adults Acute coronary syndrome. Stroke Mass casualty incident - securing the place of the incident, pre-hospital segregation, pre-hospital transport Multiple bodily injuries - diagnosis and treatment in a medical ward Basic resuscitative actions for adults Advanced resuscitative actions for adults Medical segregation

Literature

Andres J.: Specjalistyczne zabiegi resuscytacyjne podręcznik dla kursu .. Specjalistyczne zabiegi resuscytacyjne u osób dorosłych. Polska Rada Resuscytacji, Kraków 2007 Andres J.: Zaawansowane zabiegi resuscytacyjne u dzieci, Polska Rada Resuscytacji, Kraków 2005 Brongel I.: Podstawy współczesnej chirurgii urazowej. Wydawnictwo Medyczne, Kraków 2008 Ciećkiewicz J.: Ratownictwo medyczne w wypadkach masowych. Górnicki, Wrocław 2006 Jakubaszko J.: Medycyna Ratunkowa. Nagłe zagrożenia pochodzenia wewnetrznego. Wydawnictwo Medyczne Górnicki, Wrocław 2003 Jakubaszko J.: ABC postępowania w urazach. WydawnictwoMedyczneGórnicki, Wrocław 2003 Kokot F.: Ostre stany zagrożenia życia w chorobach wewnętrznych. PZWL 2007 Zawadzki A.: Medycyna ratunkowa i katastrof. Podręcznik dla studentów uczelni medycznych. Wydawnictwo Lekarskie PZWL, Warszawa 2007 Brongel I, Duda K.: Mnogie i wielonarządowe obrażenia ciała PZWL, Warszawa 2001 Campbell J.E.: Basic Trauma Life Support dla paramedykówi ratowników medycznych Medycyna Praktyczna, Kraków 2006 Colquhoun M, Handley A., Evants T.: ABC resuscytacji. Wydawnictwo Medyczne Górnicki 2006 Cline D., O John Ma, Tintinalli J, Kelen D.: Medycyna ratunkowa. Urban & Partner, Wrocław 2003 Driscol et al., ABC postępowania w urazach ed. by J. Jakubaszko, Górnicki Wydawnictwo Medyczne Górnicki, Wrocław 2003 Ferber J.: Wytyczne leczenia zachowawczego cieżkich urazów czaszkowo-mózgowych u dorosłych. Urban & Partner, Wrocław 2003 King Ch., Henretig F.: Podręczny atlas zabiegów ratunkowych u dzieci. Urban & Partner, Wrocław 2003 Kowalczyk M.: Medycyna katastrof chemicznych. PZWL 2000 Larsen R.: Anestezjologia.. Urban & Partner, Wrocław 2003 Mattu A.: EKG w medycynie atunowych. Górnicki, Wrocław 2006 Plantz S., Wipfler E. (edited by) Jakubszko J.: Medycyna Ratunkowa. Urban & Partner, 2008.

Singer M., Grant I.: ABC intensywnej terapii, Wydawnictwo Medyczne Górnicki, Wrocław 2004

Strange G, Ahrens W, Schafermeyer R, Toepper W. (ed. by) Jakubaszko J.: Medycyna ratunkowa wieku dziecięcego. Urban & Partner, Wrocław 2003

Szajewski J.: Leksykonostrych zatruć, PZWL 2000

Szajner Mozart I.: Ostre zatrucia u dzieci, PZWL. 2000

Educational effects:

Effect no	Description of an educational effect	Reference to field of study related effects	Reference to areas of effects	
Knowledge	:			
W1	Knows the principles of qualifying a patient for the basic surgical and invasive diagnostic and medicinal procedures, how to perform them, and their most common complications	F.W3		
W2	Knows postoperative treatment along with analgesic therapy and postoperative monitoring	F.W5		
W3	Knows the recommendations and principles for using intensive therapy	F.W6		
W4	Knows the current guidelines of cardiorespiratory resuscitation of newborns, children, and adults	F.W7		
W5	Knows the principles of the functioning of the integrated system of State Emergency Medical Services	F.W8		
W6	 Knows the aspects of contemporarily performed imaging examinations, especially: a) radiologic symptomatology of individual diseases b) instrumental methods and imaging techniques used in performing medicinal procedures 	F.W10		

	individual typ	ontraindications, and pro- bes of imaging examinat ions to using contrast ag	ions and the	r			
W7	Knows and understand and therapeutic treatm central nervous system 1. cerebral eden on emergenci 2. other types of 3. Craniocerebra 4. Vascular defe 5. Cancerous tur	Is the causes, symptoms ent in case of the most c n as far as: na and its effects, with p es f intracranial tightness an	;				
W8	recommendations for t	ws aspects of procedural ransplanting permanent rocedures connected wi	ly damaged organs and	F.W14			
W9		of suspecting and diagno		F.W15			
W10		of behavior for individua	-	nd F.W16			
W11	Knows the most comn principles of behavior	non life-threatening cond in such conditions	ditions for children and	the E.W6			
Abilities:							
U1	Follows the principles	of asepticism and antise	epticism	F.U3			
U2	Treats simple wounds	and puts on and changes	s a sterile surgical band	age F.U4			
U3	Inserts a peripheral ver	nous catheter		F.U5	F.U5		
U4	Evaluates the result of	a radiologic examinatio	F.U7				
U5	Performs a temporary immobilization to be u	immobilization of a lim used in typical clinical si after putting on the imm	b, selects the type of tuation and controls the	F.U8	F.U8		
U6	Treats external bleedir			F.U9			
U7	Performs the basic res	uscitative procedures wi nd other rescue activitie	I F.U10				
U8	Acts in accordance with	th the current algorithm	rt F.U11	F.U11			
U9	Evaluates the condition international points sca	n of an unconscious pati ales	the F.U21	F.U21			
U10	Diagnoses the symptoms of increasing intracranial pressure F.U22						
Social compet	tencies:						
K1	Recognizes his own di needs, plans his educa	agnosis and treatment li tional activities	mitations, educational				
K2	Can work in a professional team, in a multi-cultural and multi-national environment						
K3		of professional colleague f other professions as far		n			
Methods used	l in the verification of	educational effects					
Educational effect	colloquiums	Solving problems during exercise classes	Solving problems in groups	Oral/practical assessment	Written examination		
W1-W11	X	X	X	X			
U1		X	X	X			
UI		Λ	Λ	Λ	I		

U2	Х	Х	X	
U3	Х	X	X	
U4	Х	Х	X	
U5	Х	X	X	
U6	Х	X	X	
U7	Х	Х	X	
U8	Х	Χ	Χ	
U9	X	X	X	
U10	X	X	X	

Criteria of evaluating educational effects						
Educational effect	For a grade of 3	For a grade of 3.5	For a grade of 4	For a grade of 4.5	For a grade of 5	
W1-W11	Exhibits knowledge of the educational content on a level of 60%- 69%	Exhibits knowledge of the educational content on a level of 70%- 76%	Exhibits knowledge of the educational content on a level of 77%-84%	Exhibits knowledge of the educational content on a level of 85%-92%	Exhibits knowledge of the educational content on a level of 93%-100%	
U1	Exhibits knowledge of the educational content on a level of 60%- 69%	Exhibits knowledge of the educational content on a level of 70%- 76%	Exhibits knowledge of the educational content on a level of 77%-84%	Exhibits knowledge of the educational content on a level of 85%-92%	Exhibits knowledge of the educational content on a level of 93%-100%	
U2	Exhibits knowledge of the educational content on a level of 60%- 69%	Exhibits knowledge of the educational content on a level of 70%- 76%	Exhibits knowledge of the educational content on a level of 77%-84%	Exhibits knowledge of the educational content on a level of 85%-92%	Exhibits knowledge of the educational content on a level of 93%-100%	
U3	Exhibits knowledge of the educational content on a level of 60%- 69%	Exhibits knowledge of the educational content on a level of 70%- 76%	Exhibits knowledge of the educational content on a level of 77%-84%	Exhibits knowledge of the educational content on a level of 85%-92%	Exhibits knowledge of the educational content on a level of 93%-100%	
U4	Exhibits knowledge of the educational content on a level of 60%- 69%	Exhibits knowledge of the educational content on a level of 70%- 76%	Exhibits knowledge of the educational content on a level of 77%-84%	Exhibits knowledge of the educational content on a level of 85%-92%	Exhibits knowledge of the educational content on a level of 93%-100%	
U5	Exhibits knowledge of the educational content on a level of 60%-	Exhibits knowledge of the educational content on a level of 70%-	Exhibits knowledge of the educational content on a level of77%-	Exhibits knowledge of the educational content on a level of85%-	Exhibits knowledge of the educational content on a level of 93%-100%	

	69%	76%	84%	92%	
U6	Exhibits knowledge of the educational content on a level of 60%- 69%	Exhibits knowledge of the educational content on a level of 70%- 76%	Exhibits knowledge of the educational content on a level of 77%-84%	Exhibits knowledge of the educational content on a level of 85%-92%	Exhibits knowledge of the educational content on a level of 93%-100%
U7	Exhibits knowledge of the educational content on a level of 60%- 69%	Exhibits knowledge of the educational content on a level of 70%- 76%	Exhibits knowledge of the educational content on a level of 77%-84%	Exhibits knowledge of the educational content on a level of 85%-92%	Exhibits knowledge of the educational content on a level of 93%-100%
U8	Exhibits knowledge of the educational content on a level of 60%- 69%	Exhibits knowledge of the educational content on a level of 70%- 76%	Exhibits knowledge of the educational content on a level of 77%-84%	Exhibits knowledge of the educational content on a level of 85%-92%	Exhibits knowledge of the educational content on a level of 93%-100%
U9	Exhibits knowledge of the educational content on a level of 60%- 69%	Exhibits knowledge of the educational content on a level of 70%- 76%	Exhibits knowledge of the educational content on a level of 77%-84%	Exhibits knowledge of the educational content on a level of 85%-92%	Exhibits knowledge of the educational content on a level of 93%-100%
U10	Exhibits knowledge of the educational content on a level of 60%- 69%	Exhibits knowledge of the educational content on a level of 70%- 76%	Exhibits knowledge of the educational content on a level of 77%-84%	Exhibits knowledge of the educational content on a level of 85%-92%	Exhibits knowledge of the educational content on a level of 93%-100%