UNIWERSYTET MEDYCZNY
IM. PIASTÓW ŚLĄSKICH WE WROCŁAWIU

Appendix No.3
to Resolution No. 2303
of Senate of Wroclaw Medical University
of 28 April 2021

Syllabus for academic year: 2021/2022 Training cycle: 2018/2019 - 2023/2024			
Description of the course			
Course	**Crisis Resource Management** **(Classes in Simulated Conditions)**	Group of detailed education results Group code D, E, F, G	Group name Social and behavioral sciences Non-interventional clinical sciences Interventional clinical sciences Legal and organizational aspects of medicine
Faculty	Faculty of Medicine		
Major	medicine		
Level of studies	X uniform magister studies ☐ 1st degree studies ☐ 2nd degree studies ☐ 3rd degree studies ☐ postgraduate studies		
Form of studies	X full-time ☐ part-time		
Year of studies	IV	**Semester:**	X winter X summer
Type of course	☐ obligatory ☐ limited choice X free choice / optional		
Language of study	☐ Polish X English		

Number of hours

Form of education

	Lectures (L)	Seminars (SE)	Auditorium classes (AC)	Major Classes – not clinical (MC)	Clinical Classes (CC)	Laboratory Classes (LC)	Classes in Simulated Conditions (CSC)	Practical Classes with Patient (PCP)	Foreign language Course (FLC)	Physical Education (PE)	Vocational Practice (VP)	Directed Self-Study (DSS)	E-learning (EL)
Winter semester:													
Department of Medical Simulation (Dep. in charge of the course)													
Direct (contact) education[1]							**30**						

[1] Education conducted with direct participation of university teachers or other academics

Distance learning[2]													
Summer semester:													
Department of Medical Simulation (Dep. in charge of the course)													
Direct (contact) education							**30**						
Distance learning													
TOTAL per year:													
Department of Medical Simulation (Dep. in charge of the course)													
Direct (contact) education							**30**						
Distance learning													

Educational objectives (max. 6 items)

C1. Gaining the ability of team management and decision making in crisis.
C2. Developing communicative skills and understanding the principles of communication.
C3. Gaining the ability of multidisciplinary teamwork and the ability of effective resource management in crisis.
C4. Understanding the causes of medical errors.
C5. Gaining the ability of self-assessment: recognition of limitations, lack of knowledge, and educational needs.
G6. Development social competences needed to practice the medical profession, in accordance with graduate's profile.

Education result for course in relation to verification methods of the intended education result and the type of class:

Number of detailed education result	Student who completes the course knows/is able to	Methods of verification of intended education results	Form of didactic class **enter the abbreviation*
D.W5.	student knows and understands the principles and methods of communication with the patient and his family that are used to build an empathic, trust-based relationship	continuous assessment – monitoring of skill management	CSC
D.W6.	student knows and understands the importance of verbal and non-verbal communication in the process of communication with the patient and the concept of trust in interaction with the patient	continuous assessment – monitoring of skill management	CSC
D.W12.	student knows and understands the role of stress in the etiopathogenesis and course of diseases as well as mechanisms of coping with stress	continuous assessment – monitoring of skill management	CSC
D.W18.	student knows and understands the principles of teamwork	continuous assessment – monitoring of skill management	CSC
D.W19.	student knows and understands cultural, ethnic and national conditions of human behavior	continuous assessment – monitoring of skill management	CSC
D.W23.	student knows and understands the basics of evidence-based medicine	continuous assessment – monitoring of skill management	CSC

[2] Education with applied methods and techniques for distance learning

E.W6.	student knows and understands the most common life-threatening conditions in children and the rules of conduct in these states	continuous assessment – monitoring of skill management	CSC
E.W7.	student knows and understands the causes, symptoms, principles of diagnosis and therapeutic procedure in relation to the most common internal diseases occurring in adults and their complications: 1) cardiovascular diseases, including ischemic heart disease, heart defects, endocardial diseases, heart muscle, pericardium, heart failure (acute and chronic), 2) respiratory diseases, including respiratory diseases, bronchial asthma, respiratory failure (acute and chronic), 8) allergic diseases, including anaphylaxis and anaphylactic shock and angioedema, 9) water disorders -electrolyte and acid-base: dehydration, overhydration, electrolyte imbalance, acidosis and alkalosis	continuous assessment – monitoring of skill management	CSC
E.W14.	student knows and understands the causes, symptoms, principles of diagnosis and therapeutic procedure in the most common diseases of the nervous system, including: craniocerebral trauma, in particular brain concussion	continuous assessment – monitoring of skill management	CSC
E.W41.	student knows and understands the possibilities and limitations of emergency laboratory tests	continuous assessment – monitoring of skill management	CSC
F.W1.	student knows and understands the causes, symptoms, principles of diagnosis and therapeutic procedure in relation to the most common diseases requiring surgical intervention, considering the distinctness of childhood, in particular: 1) acute and chronic abdominal diseases, 2) chest diseases, 3) limb and head diseases, 4) bone fractures and organ injuries	continuous assessment – monitoring of skill management	CSC
F.W2.	student knows and understands selected issues in the field of pediatric surgery, including traumatology and otorhinolaryngology, as well as defects and acquired diseases being the indication for surgical treatment in children	continuous assessment – monitoring of skill management	CSC
F.W6.	student knows and understands the indications and principles of intensive care	continuous assessment – monitoring of skill management	CSC
F.W7.	student knows and understands the guidelines in the field of cardiopulmonary resuscitation of newborns, children and adults	continuous assessment – monitoring of skill management	CSC
F.W8.	student knows and understands the principles of functioning of the integrated system of State Emergency Medical Services	continuous assessment – monitoring of skill management	CSC
F.W13.	student knows and understands the causes, symptoms, principles of diagnosis and therapeutic procedure in the case of the most common central nervous system diseases in the field of: 1) brain edema and its sequelae, with special regard to emergencies, 2) other forms of intracranial narrowness with their consequences, 3) injuries craniocerebral	continuous assessment – monitoring of skill management	CSC
F.W16.	student knows and understands the algorithm of conduct for individual stages of accidental hypothermia and post-traumatic hypothermia	continuous assessment – monitoring of skill management	CSC
G.W17.	student knows and understands the concept of medical error, the most common causes of medical errors and the principles of giving opinions in such cases	continuous assessment – monitoring of skill management	CSC
E.U1.	student is able to conduct a medical interview with an adult patient	continuous assessment – monitoring of skill management	CSC
E.U2.	student is able to conduct a medical interview with the child and his family	continuous assessment –	CSC

		monitoring of skill management	
E.U3.	student is able to perform a full and targeted physical examination of an adult patient	continuous assessment – monitoring of skill management	CSC
E.U4.	student is able to conduct a physical examination of a child of all ages	continuous assessment – monitoring of skill management	CSC
E.U7.	student is able to assess the general state of consciousness and patient awareness	continuous assessment – monitoring of skill management	CSC
E.U14.	student is able to recognize states of immediate threat to life	continuous assessment – monitoring of skill management	CSC
E.U29.	student is able to perform basic medical procedures and procedures	continuous assessment – monitoring of skill management	CSC
E.U30.	student is able to assist in carrying out the following medical procedures and procedures: 1) transfusions of blood and blood products, 2) drainage of the pleural cavity, 3) pericardial puncture	continuous assessment – monitoring of skill management	CSC
E.U32.	student is able to plan specialist consultations	continuous assessment – monitoring of skill management	CSC
E.U36.	student is able to deal with injuries	continuous assessment – monitoring of skill management	CSC
F.U4.	student is able to treat a simple wound, apply and change a sterile surgical dressing;	continuous assessment – monitoring of skill management	CSC
F.U5.	student is able to insert a peripheral puncture	continuous assessment – monitoring of skill management	CSC
F.U6.	student is able to examine nipples, lymph nodes, thyroid gland and abdominal cavity in the aspect of acute abdomen and perform finger examination through the anus	continuous assessment – monitoring of skill management	CSC
F.U7.	student is able to assess the result of radiological examination in the most common types of fractures, especially long bone fractures	continuous assessment – monitoring of skill management	CSC
F.U8.	student is able to perform temporary limb immobilization, choose the type of immobilization necessary for use in typical clinical situations and control the correct blood supply to the limb after applying the immobilizing dressing	continuous assessment – monitoring of skill management	CSC
F.U9.	student can supply external bleeding	continuous assessment – monitoring of skill management	CSC
F.U10.	student is able to perform basic resuscitation procedures with the use of an automatic external defibrillator and other rescue operations and provide first aid	continuous assessment – monitoring of skill management	CSC
F.U11.	student is able to act in accordance with the algorithm of advanced resuscitation activities	continuous assessment – monitoring of skill management	CSC
F.U21.	student is able to assess the condition of an unconscious patient according to international point scales	continuous assessment – monitoring of skill management	CSC

F.U22.	student is able to recognize the symptoms of increasing intracranial pressure	continuous assessment – monitoring of skill management	CSC
G.U8.	student is able to act in a way that avoids medical errors	continuous assessment – monitoring of skill management	CSC
D.U4.	student creates an atmosphere of trust throughout the diagnostic and treatment process	continuous assessment – monitoring of skill management	CSC
D.U5.	student willingly interviews the adult patient, child and family using the technique of active listening and expressing empathy, and talk with the patient about his life situation	continuous assessment – monitoring of skill management	CSC
D.U6.	student actively informs the patient about the purpose, course and possible risk of the proposed diagnostic or therapeutic activities and obtain his informed consent to undertake these activities	continuous assessment – monitoring of skill management	CSC
D.U11.	student willingly applies psychological interventions in a basic way motivating and supporting	continuous assessment – monitoring of skill management	CSC
D.U12.	student actively communicates with colleagues, providing feedback and support	continuous assessment – monitoring of skill management	CSC
D.U13.	student willingly follows ethical standards in professional activities	continuous assessment – monitoring of skill management	CSC

* L- lecture; SE- seminar; AC- auditorium classes; MC- major classes (non-clinical); CC- clinical classes; LC- laboratory classes; CSC- classes in simulated conditions; PCP- practical classes with patient; FLC- foreign language course; PE- physical education; VP- vocational practice; DSS- directed self-study; EL- E-learning

Student's amount of work (balance of ECTS points):

Student's workload (class participation, activity, preparation, etc.)	**Student Workload**
1. Number of hours of direct contact:	30
2. Number of hours of distance learning:	
3. Number of hours of student's own work:	9
4. Number of hours of directed self-study	n/a
Total student's workload	39
ECTS points for course	**1,5**

Content of classes: (please enter topic words of specific classes divided into their didactic form and remember how it is translated to intended educational effects)

Lectures

1.

ect.

Seminars

1.

ect.

Classes

1. Crisis resource management (CRM). Why we do err? Non–technical skills and human factors.
2. Assessment of the patient in emergency. Advanced life support.
3. Asthma attack and anaphylaxis – medical simulation with team debriefing.
4. Life-threatening heart rhythm disturbances – medical simulation with team debriefing.
5. Septic shock – medical simulation with team debriefing.
6. Emergencies in pregnancy – medical simulation with team debriefing.
7. Acute coronary syndrome – medical simulation with team debriefing.

8. Hypovolemic shock – medical simulation with team debriefing.
9. Trauma – medical simulation with team debriefing.
10. Hypothermia – medical simulation with team debriefing.

Other

1.
ect.

Basic literature (list according to importance, no more than 3 items)

1. Kohn LT, Corrigan JM, Donaldson MS – To Err Is Human: Building a Safer Health System; Committee on Quality of Health Care in America, Institute of Medicine; National Academy of Sciences; 2000; ISBN: 0-309- 51563-7
2. Reason J – Human error: models and management. BMJ 2000; 320:768–70
3. Rall M, Dieckmann P – Errors in medicine, patient safety and human factors. Euroanesthesia 2005; Vienna, Austria 28-31 May 2005

Additional literature and other materials (no more than 3 items)

1. The European Resuscitation Council Guidelines for Resuscitation 2021
2. Advanced Life Support – ERC course manual
3. European Trauma Course – course manual

Preliminary conditions: (minimum requirements to be met by the student before starting the course)
Knowledge of cardiac arrest in special circumstances (The European Resuscitation Council Guidelines for Resuscitation 2021).

Conditions to receive credit for the course: (specify the form and conditions of receiving credit for classes included in the course, admission terms to final theoretical or practical examination, its form and requirements to be met by the student to pass it and criteria for specific grades)

Each absence must be made up, including rector's days or dean's hours.

Class credit – passing the continuous assessment (activeness, knowledge, and presentation of acquired skills).

Grade:	Criteria for courses ending with a grade[3]
Very Good (5.0)	**presents skills (5/5)**: 1) task management, 2) situation awareness, 3) team leadership, 4) skilful resources' utilization, 5) effective communication with team members and experts
Good Above (4.5)	**presents skills (4/5)**: 1) task management, 2) situation awareness, 3) team leadership, 4) skilful resources' utilization, 5) effective communication with team members and experts
Good (4.0)	**presents skills (3/5)**: 1) task management, 2) situation awareness, 3) team leadership, 4) skilful resources' utilization, 5) effective communication with team members and experts
Satisfactory Plus (3.5)	**presents skills (2/5)**: 1) task management, 2) situation awareness, 3) team leadership, 4) skilful resources' utilization, 5) effective communication with team members and experts
Satisfactory (3.0)	**presents skills (1/5)**: 1) task management, 2) situation awareness, 3) team leadership, 4) skilful resources' utilization, 5) effective communication with team members and experts
	Criteria for courses ending with a credit[3]
Credit	

Grade:	Criteria for exam[3]
Very Good (5.0)	
Good Above (4.5)	
Good (4.0)	
Satisfactory Plus (3.5)	
Satisfactory (3.0)	

[3] The verification must cover all education results, which are realize in all form of classes within the course

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Department in charge of the course:	**Department of Medical Simulation**
Department address:	Tytusa Chalubinskiego 7a, 50–368 Wroclaw
Telephone:	0048 71 784 1950
E-Mail:	WL-34@umed.wroc.pl

Person in charge for the course:	**Dr. Piotr Kolęda**
Telephone:	**Dr. Piotr Kolęda**
E-Mail:	0048 71 784 1950

List of persons conducting specific classes:

Name and surname	Degree/scientific or professional title	Discipline	Performed profession	Form of classes
Piotr Kolęda	MD, PhD	Medical and health sciences / Medical sciences	paediatric surgery specialist	classes in simulated conditions
Mariusz Koral	MSc	Medical sciences	paramedic	classes in simulated conditions
Joanna Turska	MD, PhD	Medical and health sciences / Medical sciences	thoracic surgery specialist	classes in simulated conditions

Date of Syllabus development

June 30th, 2021

Syllabus developed by

Piotr Kolęda

Signature of Head(s) of teaching unit(s)

Uniwersytet Medyczny we Wrocławiu
ZAKŁAD SYMULACJI MEDYCZNEJ
p.o. kierownika
dr Piotr Kolęda

Dean's signature

Wroclaw Medical University
Faculty of Medicine
Vice-Dean for Medical Studies
prof. Beata Sobieszczańska, PhD