JAGIELLONIAN UNIVERSITY MEDICAL COLLEGE

Advanced Life Support

Educational subject description sheet

Basic information

Department Faculty of Medicine	**Didactic cycle** 2019/20
Field of study Medical Program	**Realization year** 2023/24
Study level long-cycle master's degree program	**Lecture languages** English
Study form full-time	**Block** obligatory for passing in the course of studies
Education profile general academic	**Mandatory** elective
Disciplines Medical science	**Examination** graded credit
Subject related to scientific research Yes	**Standard group** F. Clinical procedural sciences

Subject coordinator	Paweł Krawczyk
Lecturer	Paweł Krawczyk, Bogdan Ciążyński, Jan Szpor, Barbara Uchańska, Mateusz Popielski

Periods Semester 9, Semester 10	**Examination** graded credit **Activities and hours** e-learning: 10, classes: 20	**Number of ECTS points** 2.0

Goals

C1	Familiarisation with the Advanced Life Support Algorythm.
C2	Care of the deteriorating patient. Prevention of cardiac arrest.
C3	Recognition and treatment of reversible causes of cardiac arrest 4Ts and 4 Hs.
C4	Special circumstances: Asthma, Anaphylaxis, Pregnancy, Toxins, Hyperkalaemia, Hypovolaemia
C5	Post cardiac arrest care
C6	Non-technical skills in cardiopulmonary resuscitation

Subject's learning outcomes

Code	Outcomes in terms of	Effects	Examination methods
Knowledge – Student knows and understands:			
W1	guidelines for cardiopulmonary resuscitation of newborns, children and adults	F.W7	written examination
Skills – Student can:			
U1	identify life-threatening conditions that require immediate medical intervention	O.U2	classroom observation
U2	plan the diagnostic procedure and interpret its results	O.U3	classroom observation
U3	implement appropriate and safe therapeutic treatment and predict its effects	O.U4	classroom observation
U4	communicate and share knowledge with colleagues in a team	O.U8	classroom observation
U5	critically evaluate the results of scientific research and adequately justify the position	O.U9	classroom observation
U6	operate according to the algorithm of advanced resuscitation activities	F.U11	classroom observation
U7	perform basic resuscitation procedures using an automatic external defibrillator and other emergency procedures and first aid	F.U10	classroom observation
Social competences – Student is ready to:			
K1	to be guided by the well-being of a patient	O.K2	classroom observation
K2	perceive and recognize own limitations and self-assessing educational deficits and needs	O.K5	classroom observation
K3	take actions towards the patient on the basis of ethical norms and principles, with an awareness of the social determinants and limitations of the disease	O.K4	classroom observation

Calculation of ECTS points

Activity form	Activity hours*
e-learning	10

classes	20
preparation for classes	25

Student workload	**Hours** 55
Workload involving teacher	**Hours** 30
Practical workload	**Hours** 20

* hour means 45 minutes

Study content

No.	Course content	Subject's learning outcomes	Activities
1.	Cardiac arrest teaching simulation and seminars	W1, U1, U2, U3, U4, U5, U6, U7, K1, K2, K3	classes, e-learning
2.	Advanced Life Support Algorythm	W1, U4, U6	e-learning

Course advanced

Teaching methods:

case study, classes in simulated conditions, discussion, e-learning, seminar, simulation, lecture with multimedia presentation

Activities	Examination methods	Credit conditions
e-learning	classroom observation	Active participation
classes	written examination	MCQ, Cardiac Arrest Scenario TEST

Entry requirements

Knowlegde:
Basic Life Support algorythm. Advanced Life Support algorythm. Peri-arrest arythmias.
Skills:
ABCDE approach, Cardiopulmonary resuscitation (BLS).

Literature

Obligatory

1. European Resuscitation Council Resuscitation Guidelines 2020

Standard effects

Code	Content
F.U10	perform basic resuscitation procedures using an automatic external defibrillator and other emergency procedures and first aid
F.U11	operate according to the algorithm of advanced resuscitation activities
F.W7	guidelines for cardiopulmonary resuscitation of newborns, children and adults
O.K2	to be guided by the well-being of a patient
O.K4	take actions towards the patient on the basis of ethical norms and principles, with an awareness of the social determinants and limitations of the disease
O.K5	perceive and recognize own limitations and self-assessing educational deficits and needs
O.U2	identify life-threatening conditions that require immediate medical intervention
O.U3	plan the diagnostic procedure and interpret its results
O.U4	implement appropriate and safe therapeutic treatment and predict its effects
O.U8	communicate and share knowledge with colleagues in a team
O.U9	critically evaluate the results of scientific research and adequately justify the position