



ОҢТҮСТІК ҚАЗАҚСТАН MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ	 SKMA -1979-	SOUTH KAZAKHSTAN MEDICAL ACADEMY АО «Южно-Казахстанская медицинская академия»
Department of Emergency Medicine and Nursing		044-57/19 ()
Methodological recommendation for students on teaching clinical skills at the practical skills Center		P 1 of 5

Methodological recommendation for students on teaching clinical skills at the practical skills Center

(using the execution algorithm)


Specialty: 6B10101 «General medicine»
Discipline: «Emergency medical care 1, 2»
Course: 5
Department: «Emergency medical care and nursing»
Compiled by: Auyezkhankyzy D.




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Reviewed and discussed at the meeting of the department

Protocol No. 4 from " 28 " 11 2022 G.

Head of the Department, PhD, Associate Professor  A.A. Seydakhmetova

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1. Name of the current skill: Defibrillation algorithm.

2. Learning objectives: To learn how to assess the terminal condition of patients, to get acquainted with the causes and manifestations of comatose states, learn how to effectively perform defibrillation.

3. Required theoretical knowledge of the skill:

Basic knowledge:

- basic terminal states;
- methods of diagnosis of terminal conditions;
- basic clinical skills;
- the main medicines used in terminal conditions.

By topic of the lesson:

- sequence of emergency medical care measures in terminal conditions;
- defibrillation technique;
- evaluation of the effectiveness of defibrillation;
- errors during defibrillation.

4. Simulator, simulator, dummy, list of models: dummy simulator "VOLODYA" for cardiopulmonary resuscitation, defibrillator.

5. List of medical instruments and equipment: masks, sterile gloves, sterile bandages, ambu bag, syringe, patch.

6. The execution of skill:

№	Step-by-step actions	Execution		
		Yes	Yes	Yes
1	Introduce yourself to the patient (if possible and the patient is conscious);			
2	Explain the purpose and course of the procedure (if possible and the patient is conscious);			
3	Carry out the processing of hands in accordance with the Methodological recommendations for the processing of hands of employees of medical organizations of the Republic of Kazakhstan;			
4	Set the required charge on the scale (approximately 3 J / kg for adults, 2 J / kg for children), the next 4 J / kg and above, not exceeding 10 J / kg); charge the electrodes; lubricate the plates with gel. To minimize electrical resistance during electropulse therapy, the skin under the electrodes is degreased with alcohol;			
5	It is more convenient to work with two hand electrodes. Install electrodes on the anterior surface of the chest: <ul style="list-style-type: none"> • One electrode is placed above the zone of cardiac dullness (in women - outward from the top of the heart, outside the mammary gland), the second - under the right clavicle, and if the electrode is dorsal, then under the left shoulder blade. • The electrodes can be placed in the anteroposterior 			

	position (along the left edge of the sternum in the area of the 3rd and 4th intercostal spaces and in the left subscapular region). <ul style="list-style-type: none"> • The electrodes can be placed in an anterolateral position (Cor between the clavicle and the 2nd intercostal space along the right edge of the sternum and over the 5th and 6th intercostal spaces, in the region of the apex of the heart). 			
6	In the presence of a permanent pacemaker or cardioverter and the impossibility of turning it off, an anteroposterior location of the defibrillator electrodes is preferable. The anterior electrode is 20 cm away from the pacemaker. If the electrodes are located anteriorly, the nearest electrode must be at least 13 cm away from the pacemaker.			
7	The electrodes are pressed against the chest wall tightly and with force;			
8	Perform defibrillation. The discharge is applied at the moment of complete exhalation of the patient. If there is no effect of defibrillation, it should be repeated, while the voltage of the electric discharge must be increased.			
9	After completion of defibrillation, treat the electrodes with alcohol wipes;			
10	Dispose of alcohol wipes and gloves in the KBSU for medical waste class "B".			


7. Tasks:

- Assessment of the patient's condition.
- Performing effective defibrillation.

8. References:

Basic literature:

1. The state program of healthcare development of the Republic of Kazakhstan "Health" on 2021-2024 years
2. Order of the Ministry of health of the Republic of Kazakhstan dated July 3, 2017 No. 450 "on approval Of the rules for emergency medical care in the Republic of Kazakhstan".
3. Vertkin A., Sveshnikov K. Guidelines for emergency medical care. Moscow. – E. publishing house – 2017. - 560 p.
4. Emergency care in a therapeutic clinic. Under the editorship of A. V. Gordienko. - Speclit. - 2017. - 229 p.
5. Urgent outpatient and polyclinic cardiology: a brief guide / V. V. Ruksin. - 2nd ed. - Moscow: GEOTAR-Media, 2016. - 255 p
6. Emergency medical care. Clinical recommendations. Under the editorship of S. F. Bagnenko. - GEOTAR-Media. - 2018. - 896 p.

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Additional literature:

1. Acute cardiac care. Edited By p. p. Ogurtsov, V. E. Dvornikov. - GEOTAR-Media. - 2016. - 272 p.
2. Clinical Protocol of diagnosis and treatment "Sudden death". Approved by the joint Commission on the quality of medical services of the Ministry of Health of the Republic of Kazakhstan dated June 23, 2016. Protocol No. 5.
3. Emergency medical care. Clinical recommendations / ed. by S. F. Bagnenko, Moscow: [B. I.], 2015. -871 p.
4. Emergency care for children: Handbook: translated from German. / - M. : Medpress-inform, 2014.