

Bridging the Emergency Response Gap: Evaluating CPR Knowledge and Preparedness among Healthcare Students at the University of Kalamoon

Your participation in completion of this survey is highly-appreciated.

- ☐ I agree to participate.
- ☐ I disagree to participate.

If you agree to participate, please answer the questions below without referral to consulting materials, textbooks or fellow staff.

Part 1: Student information

- 1) Gender:
 - ☐ Male
 - ☐ Female
- 2) How would you rate your income?
 - ☐ Low (does not cover basic needs or barely covers them).
 - ☐ Medium (only covers basic needs, not secondary needs).
 - ☐ High (covers both basic and secondary needs).
- 3) What is your faculty?
 - ☐ Faculty of Human Medicine.
 - ☐ Faculty of Dentistry.
 - ☐ Faculty of Pharmacy.
- 4) What is your university year?
 - ☐ First year.
 - ☐ Second year.
 - ☐ Third year.
 - ☐ Fourth year.
 - ☐ Fifth year.
 - ☐ Sixth year.
- 5) What is your GPA?
 - ☐ 3.5-4
 - ☐ 3-3.49
 - ☐ 2.5-2.99
 - ☐ 2-2.49
 - ☐ Below 2
- 6) Have you ever been trained for Basic Life Support (BLS)?
 - ☐ Yes
 - ☐ No

Part 2: Assessment of self-efficacy in conducting CPR.

Items	I strongly-disagree.	I disagree.	Neutral.	I agree.	I strongly-agree.
1) I feel confident in my ability to recognize a person experiencing sudden cardiac arrest.					
2) I would perform chest compressions to someone in need of them.					
3) I would perform mouth-to-mouth breathing for someone in need of it.					
4) If available, I would use an automated external defibrillator (AED).					
5) I feel confident in my ability to provide first aid to a person experiencing a traumatic event.					
6) I feel confident in my ability to respond quickly and effectively to someone injured during a traumatic event.					

Part 3: Identifying personal fears about conducting CPR.

- 1) What is the main concern that would prevent you from performing chest compressions on your friends or relatives?
 - ☐ Making a mistake.
 - ☐ Causing a bone fracture.
 - ☐ Causing damage to internal organs.
 - ☐ Stopping the heart.
 - ☐ Legal consequences for injuring the patient.
 - ☐ Contact with blood or vomit (contamination).
 - ☐ Exposure to an infectious disease.
 - ☐ Physical contact with the opposite gender.
- 2) What is the main concern that would prevent you from performing chest compressions on a stranger?
 - ☐ Making a mistake.
 - ☐ Causing a bone fracture.
 - ☐ Causing damage to internal organs.

- ☐ Stopping the heart.
- ☐ Legal consequences for injuring the patient.
- ☐ Contact with blood or vomit (contamination).
- ☐ Exposure to an infectious disease.
- ☐ Physical contact with the opposite gender.

Part 4: Assessing knowledge about Basic Life Support (BLS).

- 1) Which of the following is not immediately a life-threatening event?
 - ☐ Cardiac arrest.
 - ☐ Heart attack.
 - ☐ Respiratory arrest.
 - ☐ Airway obstruction.
- 2) Which of the following groups of individuals can administer Basic Life Support?
 - ☐ Physicians.
 - ☐ Emergency Medical Responders.
 - ☐ Trained Observers.
 - ☐ All of the above.
- 3) Which of the following organs is irreversibly-affected if CPR is delayed beyond three minutes?
 - ☐ Kidney.
 - ☐ Liver.
 - ☐ Brain.
 - ☐ Lungs.
- 4) What is the minimum depth of a chest compression?
 - ☐ 2 cm.
 - ☐ 4 cm.
 - ☐ 5 cm.
 - ☐ 6 cm.
- 5) Why is recoil necessary between each compression?
 - ☐ To give rest to the rescuer.
 - ☐ To prevent injury to the patient.
 - ☐ To allow the heart to fill with blood.
 - ☐ To allow blood delivery to the brain.
- 6) How many chest compressions must be delivered per minute?
 - ☐ 60.
 - ☐ 80.
 - ☐ 100.
 - ☐ 140.
- 7) If a cervical spine injury is suspected, which of the following maneuvers can be used?
 - ☐ Head tilt.
 - ☐ Chin lift.
 - ☐ Jaw thrust.
 - ☐ Roll over.
- 8) Each rescue breath must be delivered over:
 - ☐ One-second.

- ☐ Two seconds.
 - ☐ Three seconds.
 - ☐ Four seconds.
- 9) Which is the most likely complication if too much air is delivered during rescue breathing?
- ☐ Lung collapse.
 - ☐ Gastric inflation.
 - ☐ Pneumothorax.
 - ☐ Brain injury.
- 10) Which of the following rhythms can be shocked by an automated external defibrillator (AED)?
- ☐ Ventricular fibrillation.
 - ☐ Atrial fibrillation.
 - ☐ Asystole.
 - ☐ Pulseless electrical activity.
- 11) If the patient has an implantable pacemaker, which of the following is the most appropriate action?
- ☐ Do not use the AED.
 - ☐ Place the AED pads directly on the pacemaker.
 - ☐ Place the AED pads away from the pacemaker.
 - ☐ Use a magnet to divert energy from the pacemaker.
- 12) Which CPR technique is the best for infants?
- ☐ One-handed.
 - ☐ Two-handed.
 - ☐ Two finger.
 - ☐ Two thumb encircling hands.
- 13) What is the ideal depth of compression for infants?
- ☐ 2 cm.
 - ☐ 3 cm.
 - ☐ 4 cm.
 - ☐ 5 cm.
- 14) What is the position for placement of child AED pads?
- ☐ Anterolateral.
 - ☐ Anteroposterior.
 - ☐ Posterolateral.
 - ☐ Mediolateral.
- 15) Which of the following is not a sign of poor perfusion?
- ☐ Weak pulse.
 - ☐ Cyanosis.
 - ☐ Pale skin.
 - ☐ Warm extremities.
- 16) Which of the following protocols uses a compression: ventilation ratio of 15:2?
- ☐ Single-rescuer for adults.
 - ☐ Two-rescuer for adults.
 - ☐ Two-rescuer for children.
 - ☐ Single-rescuer for children.

- 17) How frequently must the AED rhythm be reassessed?
- ☐ One minute.
 - ☐ Two minutes.
 - ☐ Five minutes.
 - ☐ Seven minutes.
- 18) Which of the following is an antidote for opioid?
- ☐ Pethidine.
 - ☐ Naloxone.
 - ☐ Oxycodone.
 - ☐ Felypressin.
- 19) Who should perform hands-only CPR?
- ☐ Untrained observers for adults.
 - ☐ Untrained observers for children.
 - ☐ Trained observers for adults.
 - ☐ Trained observers for children.
- 20) Which of the following indicates mild choking?
- ☐ High pitched noise.
 - ☐ Continuous cough.
 - ☐ Inability to cry.
 - ☐ Cyanosis.
- 21) Heimlich maneuver is not suitable for:
- ☐ Adults.
 - ☐ Pregnant women.
 - ☐ Children.
 - ☐ Infants.
- 22) How many back blows must alternate with chest or abdominal thrusts for choking relief?
- ☐ Four.
 - ☐ Five.
 - ☐ Three.
 - ☐ Six.
- 23) What is the compression-to-ventilation ratio you should use when giving CPR to any individual?
- ☐ 30:1
 - ☐ 30:2
 - ☐ 15:1
 - ☐ 15:2

Thank you for your participation.
All information obtained in the study will be kept
confidential and used for medical research only.