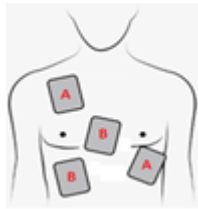


Supplementary file 1

Descriptive Table for The Variables

Items on knowledge regarding CPR & AED information

Item Number	Knowledge Score	n (%) N = 217
1	Can CPR be performed outside of a hospital area? Yes No	213 (98.2) 4 (1.8)
2	Can CPR be performed without mouth-to-mouth ventilation by a layperson at the scene? Yes No	166 (76.5) 51 (23.5)
3	Can an individual perform CPR without any certification? Yes No	167 (77.0) 50 (23.0)
4	What is the correct sequence in performing CPR? Circulation > Airway > Breathing Airway > Breathing > Circulation	28 (12.9) 189 (87.1)
5	When should an individual perform CPR? (Score is from 0 to 6 based on the number of correct responses) 1 2 3 4 5 6	6 (2.8) 30 (13.8) 84 (38.7) 82 (37.8) 10 (4.6) 5 (2.3)
6	Where is the correct location to perform chest compressions?  A B C D Not sure	153 (70.5) 11 (5.1) 40 (18.4) 11 (5.1) 2 (0.9)
7	What is the correct rate for performing chest compressions? 150–200 compressions per minute	13 (6.0)

	100–120 compressions per minute 50–100 compressions per minute As fast as possible Not sure 100/min	166 (76.5) 19 (8.7) 3 (1.4) 15 (6.9) 1 (0.5)
8	What is the correct depth for chest compressions? Until the ribs go down 1–2 cm Until the ribs go down 5–6 cm Until the ribs go down 6–10 cm As deep as possible Not sure Others	31 (14.3) 166 (76.5) 1 (0.5) 2 (0.9) 15 (6.9) 2 (0.9)
9	Have you heard about AED? Yes No	190 (86.8) 27 (12.3)
10	Do you know that using an AED immediately can increase the chances of survival? Yes No	196 (89.5) 21 (9.6)
11	Do you know the location of an AED near your home or workplace? Yes No	106 (48.4) 111 (50.7)
12	Where is the correct position to place the AED pads? A–A B–B 	193 (88.1) 24 (11.0)
13	Do you know that there are voice instructions in the AED? Yes No	165 (75.3) 52 (23.7)

Note: The correct response in bold letters (bold)

Items for perception, attitude, perceived norms, and self-efficacy

Item Number	Variables	Mean (SD)
	Perception regarding CPR and the use of an AED	36.49 (4.29)
	AED Implementation Strategy	17.53 (3.48)
1	AED equipment is clearly visible	3.48 (0.81)
2	The AED is located in a safe place	3.64 (0.67)
3	AED is located in a place that is easily accessible at all times (including after office hours)	3.44 (0.83)
4	AED posters display easy-to-follow instructions on how to use the AED	3.55 (0.78)
5	Signboards indicating the AED location are clearly displayed	3.42 (0.86)
	Public Perception of the Importance of CPR and AED	18.96 (1.50)
1	CPR & AED are important for saving lives	3.91 (0.30)
2	It is important to have an AED in my workplace	3.88 (0.32)
3	AED is important to be used on unresponsive victims	3.81 (0.43)
4	AED operators must undergo formal training	3.68 (0.57)
5	AED handling training should be conducted routinely	3.67 (0.53)
	Attitude Factor	39.29 (8.36)
1	Performing resuscitation/breathing assistance can help me save lives.	6.55 (0.81)
2	If I ask for help for someone who has suffered cardiac arrest while I am in a big city (where an ambulance can arrive quickly), the victim's chance of survival will not change whether I perform resuscitation/breathing assistance or not.	3.87 (2.40)
3	By performing resuscitation/breathing assistance on an unknown person, I risk contracting a disease (such as AIDS, hepatitis, or Covid-19).	4.99 (2.10)
4	By performing chest compressions on a person experiencing cardiac arrest, I might accidentally injure them (for example, by breaking their ribs unintentionally, which could injure the lungs). This may endanger their life. Therefore, it might be better if I do not perform resuscitation/breathing assistance and instead just seek help.	3.43 (2.13)
5	If I am unsure about the correct way to perform chest compressions but come across someone who	4.36 (2.18)

	is unconscious and not breathing, it is better to wait for the ambulance rather than starting resuscitation/breathing assistance. I might injure the victim if I perform resuscitation/breathing assistance incorrectly.	
6	If I perform resuscitation/breathing assistance and injure the victim, I might face legal action.	3.64 (2.19)
7	I would feel proud if I could perform resuscitation/breathing assistance on someone.	5.95 (1.39)
8	Being able to perform resuscitation/breathing assistance is a good thing for society.	6.49 (0.91)
	Subjective Norms Factor	21.91 (3.85)
1	My family and friends would feel proud if I performed resuscitation/breathing assistance.	6.08 (1.29)
2	If a family member or friend suffers cardiac arrest, they would want me to perform resuscitation/breathing assistance to try to save them.	6.10 (1.25)
3	If one day I witness a cardiac arrest, the victim is very likely to be a close relative (like family or a friend).	5.94 (1.40)
4	If I am in a crowded place and someone collapses in front of me, it is better for me to wait and let someone more trained provide resuscitation/breathing assistance rather than doing it myself.	3.79 (2.28)
	Self-Efficacy Factor	27.96 (4.47)
1	I know how to use the emergency line 999. Therefore, I can take immediate action if I encounter someone who is unconscious and not breathing.	6.26 (1.27)
2	I think I can perform resuscitation/breathing assistance.	5.91 (1.41)
3	I can identify if someone needs resuscitation/breathing assistance.	5.93 (1.30)
4	Only healthcare professionals can perform effective resuscitation/breathing assistance.	3.88 (2.25)
5	I know how to perform resuscitation/breathing assistance. Therefore, I can help a cardiac arrest victim efficiently.	5.98 (1.35)

Items on barriers that influence behavior in performing CPR and using an AED

Item Number	Barriers influencing the willingness to perform CPR and use an AED	18.00 (6.19)
1	I am worried about contracting infectious diseases from the victim when performing CPR.	2.88 (1.06)
2	I am worried about injuring the victim while performing CPR.	2.77 (1.04)
3	I am worried about injuring myself while performing CPR.	2.23 (1.06)
4	I am worried about injuring the victim when using an AED during CPR.	2.52 (1.14)
5	I am worried about injuring myself when using an AED during CPR.	2.32 (1.08)
6	I am worried I might be convicted of wrongdoing if I perform CPR incorrectly.	2.63 (1.17)
7	I am worried I might be convicted of wrongdoing if I use the AED incorrectly.	2.65 (1.14)

Items on Willingness to Perform CPR and Use an AED

Item Number	Willingness to Perform CPR and Use an AED	33.14 (7.87)
1	I am confident in performing CPR.	8.36 (2.16)
2	I am confident in operating an AED.	8.18 (2.23)
3	I am confident I can recognize signs that a victim has no signs of life.	8.37 (2.07)
4	I would not hesitate to use an AED on an unresponsive victim.	8.23 (2.22)