

## Tables

**Table 1.** Demographic characteristics of the participants.

	<b>n (%)</b>
<b>Gender</b>	
Female / Male	510 (71.2) / 206 (28.8)
<b>Age, mean <math>\pm</math> SD</b>	30.1 $\pm$ 5.8
<b>In which region is your institution located?</b>	
Marmara Region	67 (9.4)
Aegean Region	125 (17.5)
Mediterranean Region	78 (10.9)
Central Anatolia Region	393 (54.9)
Black Sea Region	46 (6.4)
Eastern Anatolia Region	5 (0.7)
Southeastern Anatolia Region	2 (0.3)
<b>My hospital is a...</b>	
University Hospital	480 (67)
Education Research Hospital	209 (29.2)
Other	27 (3.8)
<b>Currently I am a...</b>	
Pediatric assistant	358 (50)
Pediatric Intensive Care Nurse	78 (10.9)
Pediatric Emergency Nurse	68 (9.5)
Pediatrician	61 (8.5)
Paramedic / ATT	33 (4.6)
Pediatric intensive care subspecialty, assistant, professor	35 (4.9)
Pediatric emergency subspecialty branch assistant, specialist and lecturer.	31 (4.4)
Lecturer in Pediatrics	12 (1.7)
Other	40 (5.6)
<b>Your professional experience after graduation?</b>	
<3 years	296 (41.3)
3-5 years	188 (26.3)
5-10 years	118 (16.5)
> 10 years	114 (15.9)
<b>Have you ever received a certified training on basic and advanced life support?</b>	
Yes / No	402 (56.1) / 314 (43.9)

SD: standard deviation

**Table 2.** Data about the participants' defibrillation practices.

<b>Question</b>	<b>Response</b>	<b>n (%)</b>
<b>I know the difference between defibrillation and cardioversion</b>	Agree	631 (88.1)
	Disagree	85 (11.9)
<b>Past defibrillation / cardioversion experience</b>	I have not done	117 (16.3)
	I have seen it done but I have not done	187 (26.1)
	I know theoretically how it is done but I have not done	131 (18.3)
	I have done	281 (39.2)
<b>How many times have you performed defibrillation/cardioversion before?</b>	I have not	406 (56.7)
	1	84 (11.7)
	2-5	143 (20)
	5-10	37 (5.2)
	>10	46 (6.4)
<b>Have you received theoretical or practical training about defibrillator use?</b>	Yes, I have got it at the medical school, <i>yes</i>	354 (49.4)
	Yes, I have got it during my pediatrics specialty, <i>yes</i>	307 (42.9)
	Yes, I have got it as a subspecialty assistant, <i>yes</i>	59 (8.2)
	No, I have not, <i>yes</i>	159 (22.2)

**Table 3.** Participants' familiarity with the defibrillator they use and their preferences during defibrillator use.

<b>Question</b>	<b>Response</b>	<b>n (%)</b>
<b>The defibrillator you use is...</b>	Monophasic	54 (7.5)
	Biphasic	398 (55.6)
	I do not know	264 (36.9)
<b>Does the defibrillator you use have an "external pacemaker" feature?</b>	Yes	264 (36.9)
	No	92 (12.8)
	I do not know	360 (50.3)
<b>Which position do you use most frequently during defibrillation?</b>	Antero-posterior	197 (27.5)
	Antero-lateral	493 (68.9)
	Other	26 (3.6)
<b>In defibrillation application, I use...</b>	Paddles	622 (86.9)
	Adhesive pads	94 (13.1)
<b>What do you use as a conductive material during defibrillation/cardioversion procedure?</b>	Defibrillator gel, <i>yes</i>	492 (68.7)
	Ultrasound gel, <i>yes</i>	324 (45.3)
	Alcohol, <i>yes</i>	14 (2)
	Saline, <i>yes</i>	11 (1.5)
<b>Do you pause oxygen therapy during the procedure?</b>	Yes	416 (58.1)
	No	231 (32.3)
	I do not know	69 (9.6)
<b>According to the guidelines for basic and advanced life support, do you use defibrillation on a "pulseless" patient?</b>	Yeah	247 (34.5)
	No	431 (60.2)
	I do not know	38 (5.3)
<b>For which rhythm treatments do you use defibrillator devices?</b>	Sinus Tachycardia, Yes	25 (3.5)
	Atrial fibrillation, Yes	199 (27.8)
	Atrial flutter, Yes	124 (17.3)
	Supraventricular tachycardia, Yes	218 (30.4)
	Ventricular tachycardia, Yes	432 (60.3)
	Ventricular fibrillation, Yes	626 (87.4)
	Pulse-free electrical activity, Yes	212 (29.6)
<b>Do you apply sedation/analgesia during the procedure?</b>	Asystole, Yes	61 (8.5)
	I only apply sedation in both procedures	74 (10.3)
	I only apply analgesia in both procedures	22 (3.1)
	I apply only for cardioversion	208 (29.1)
	I apply only for defibrillation	13 (1.8)
	I apply both sedation and analgesia	147 (20.5)
	I do not apply sedation and analgesia	89 (12.4)
<b>Which drugs do you prefer for sedation/analgesia?</b>	No idea	163 (22.8)
	Midazolam, Yes	557 (77.8)
	Ketamine, Yes	404 (56.4)
	Fentanyl, Yes	200 (27.9)
	Morphine, Yes	49 (6.8)
	Propofol, Yes	68 (9.5)
<b>Have you encountered any complications during defibrillation procedures?</b>	Yeah	30 (4.2)
	No	686 (95.8)
<b>Have you ever used an "automatic external defibrillator"?</b>	I do not know what it is.	83 (11.6)
	I use	578 (80.7)
	I used	55 (7.7)

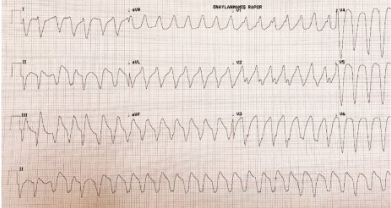
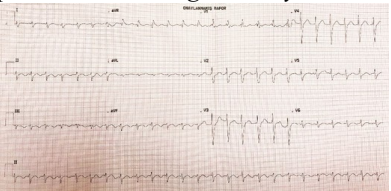
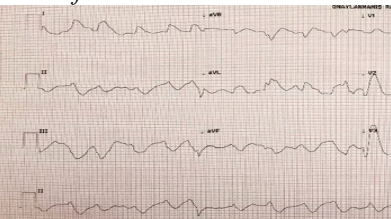

**Table 4.** Shock doses preferred by the participants for cardioversion and defibrillation.

<b>Procedure</b>	<b>Dose</b>	<b>n (%)</b>
<b>For cardioversion</b>	0.5 J/kg	121 (16.9)
	0.5-1 J/kg	161 (22.5)
	1 J/kg	115 (16.1)
	1-2 J/kg	28 (3.9)
	2 J/kg	59 (8.2)
	>2 J/kg and adult dose	169 (23.6)
	I do not know	63 (8.8)
<b>For defibrillation</b>	0.5 J/kg	6 (0.8)
	0.5-1 J/kg	5 (0.7)
	1 J/kg	27 (3.8)
	1-2 J/kg	14 (2)
	2 J/kg	352 (49.2)
	2-4 J/kg	59 (8.2)
	4 J/kg	31 (4.3)
	>4 J/kg and adult dose	158 (22.1)
	I do not know	64 (8.9)

**Table 5.** Shock dose preferences according to the participants' previous defibrillation/cardioversion experience

		<b>Have you ever had defibrillation/cardioversion?</b>	
		<b>I did not n (%)</b>	<b>I did n (%)</b>
<b>For cardioversion</b>	0.5 j/kg	74 (17)	47 (16,7)
	0.5-1 j/kg	112 (25,7)	49 (17,4)
	1 j/kg	77 (17,7)	38 (13,5)
	1-2 j/kg	13 (3)	15 (5,3)
	2 j/kg	34 (7,8)	25 (8,9)
	>2 J/kg and adult dose	90 (20,7)	79 (28,1)
	I do not know	35 (8)	28 (10)
<b>For defibrillation.</b>	0.5 j/kg	4 (0,9)	2 (0,7)
	0.5-1 j/kg	1 (0,2)	4 (1,4)
	1 j/kg	19 (4,4)	8 (2,8)
	1-2 j/kg	4 (0,9)	10 (3,6)
	2 j/kg	233 (53,6)	119 (42,3)
	2-4 J/kg	38 (8,7)	21 (7,5)
	4 j/kg	14 (3,2)	17 (6)
	>4 J/kg and adult dose	86 (19,8)	72 (25,6)
	I do not know	36 (8,3)	28 (10)

**Table 6.** Participants' treatment preferences for case scenarios.

Cases	Treatment option (I would)	n (%)
<b>Case 1:</b> "A 14-year-old man who was being followed up in the intensive care unit in the postoperative period due to congenital cardiac disease. His general condition is poor, his pulse and blood pressure cannot be taken." 	not do anything treat the underlying cause do vagal maneuver give adenosine do synchronized cardioversion do defibrillation start cardiopulmonary resuscitation	26 (3.6) 14 (2) 8 (1.1) 28 (3.9) 137 (19.1) 387 (54.1) 116 (16.2)
<b>Correct diagnosis for the case: Pulseless VT</b> <b>Correct treatment: Defibrillation</b>		
<b>Case 2:</b> "A 3-year-old man was brought with the complaint of palpitations. The general condition is good, no circulatory problems. Vital signs: tachycardia, blood pressure normal." 	not do anything treat the underlying cause do vagal maneuver give adenosine do synchronized cardioversion do defibrillation start cardiopulmonary resuscitation	82 (11.5) 291 (40.6) 179 (25) 102 (14.2) 39 (5.4) 15 (2.1) 8 (1.1)
<b>Correct diagnosis for the case: Hemodynamically stable SVT</b> <b>Correct treatment: Vagal maneuver and adenosine</b>		
<b>Case 3:</b> "A 9-year-old girl was brought to the emergency room after a car accident." 	not do anything treat the underlying cause do vagal maneuver give adenosine do synchronized cardioversion do defibrillation start cardiopulmonary resuscitation	41 (5.7) 31 (4.3) 5 (0.7) 9 (1.3) 61 (8.5) 335 (46.8) 234 (32.7)
<b>Correct diagnosis for the case: Asystole</b> <b>Correct treatment: Cardiopulmonary resuscitation</b>		
<b>Case 4:</b> "An 8-month-old girl was brought with the complaint of unrest. The general condition is moderate, there are signs of circulatory problems. Tachycardia, hypotensive." 	not do anything treat the underlying cause do vagal maneuver give adenosine do synchronized cardioversion do defibrillation start cardiopulmonary resuscitation	52 (7.3) 185 (25.9) 56 (7.8) 185 (25.9) 216 (30.2) 15 (2.1) 6 (0.8)
<b>Correct diagnosis for the case: Unstable SVT</b> <b>Correct treatment: Synchronized cardioversion</b>		

**Table 7.** Treatment options for cases according to the participants' previous defibrillation/cardioversion experience

<b>Cases</b>	<b>Treatment option (I would)</b>	<b>Have you ever had defibrillation/cardioversion?</b>	
		<b>I did not n (%)</b>	<b>I did n (%)</b>
<b>Case 1</b>	not do anything	25 (5,7)	1 (0,4)
	treat the underlying cause	11 (2,5)	3 (1,1)
	do vagal maneuver	8 (1,8)	0 (0)
	give adenosine	23 (5,3)	5 (1,8)
	do synchronized cardioversion	84 (19,3)	53 (18,9)
	do defibrillation	218 (50,1)	169 (60,1)
	start cardiopulmonary resuscitation	66 (15,2)	50 (17,8)
<b>Case 2</b>	not do anything	54 (12,4)	28 (10)
	treat the underlying cause	154 (35,4)	137 (48,8)
	do vagal maneuver	105 (24,1)	74 (26,3)
	give adenosine	76 (17,5)	26 (9,3)
	do synchronized cardioversion	29 (6,7)	10 (3,6)
	do defibrillation	11 (2,5)	4 (1,4)
	start cardiopulmonary resuscitation	6 (1,4)	2 (0,7)
<b>Case 3</b>	not do anything	40 (9,2)	1 (0,4)
	treat the underlying cause	27 (6,2)	4 (1,4)
	do vagal maneuver	4 (0,9)	1 (0,4)
	give adenosine	5 (1,1)	4 (1,4)
	do synchronized cardioversion	49 (11,3)	12 (4,3)
	do defibrillation	195 (44,8)	140 (49,8)
	start cardiopulmonary resuscitation	115 (26,4)	119 (42,3)
<b>Case 4</b>	not do anything	47 (10,8)	5 (1,8)
	treat the underlying cause	127 (29,3)	58 (20,6)
	do vagal maneuver	42 (9,7)	14 (5)
	give adenosine	104 (24)	81 (28,8)
	do synchronized cardioversion	96 (22,1)	120 (42,7)
	do defibrillation	12 (2,8)	3 (1,1)
	start cardiopulmonary resuscitation	6 (1,4)	0 (0)

**Table 8.** The relationship between professional experience and correctly identifying the first shock dose of cardioversion/defibrillation.

	Professional experience after graduation				<i>p</i>
	<3 years	3-5 years	5-10 years	>10 years	
<b>Cardioversion first shock dose</b>					
Correct, n (%)	40 (13.5)	31 (16.5)	21 (17.8)	23 (20.2)	0.370
Wrong, n (%)	256 (86.5)	157 (83.5)	97 (82.2)	91 (79.8)	
<b>Defibrillation first shock dose</b>					
Correct, n (%)	119 (40.2)	104 (55.3)	67 (56.8)	62 (54.4)	<b>0.001*</b>
Wrong, n (%)	177 (59.8)	84 (44.7)	51 (43.2)	52 (45.6)	

\* $p < 0.05$ , Pearson Chi-Square test was used.

**Table 9.** The relationship between the participants' self-declared knowledge level about cardioversion/defibrillation and correct responses to questions.

I find my level of knowledge about defibrillation/cardioversion procedures					
Questions	Low	Moderate	High	Excellent	<i>p</i>
<b>The first shock dose to be applied during cardioversion</b>					
Correct, n (%)	19 (11)	56 (18.5)	34 (17.6)	6 (12.8)	0.148
Wrong, n (%)	154 (89)	247 (81.5)	159 (82.4)	41 (87.2)	
<b>The first shock dose to be applied during defibrillation</b>					
Correct, n (%)	49 (28.3)	160 (52.8)	114 (59.1)	29 (61.7)	<0.001*
Wrong, n (%)	124 (71.7)	143 (47.2)	79 (40.9)	18 (38.3)	
<b>Preferred conductive material during defibrillation/cardioversion</b>					
Correct, n (%)	99 (57.2)	154 (50.8)	95 (49.2)	22 (46.8)	0.372
Wrong, n (%)	74 (42.8)	149 (49.2)	98 (50.8)	25 (53.2)	
<b>Do you pause oxygen therapy during the procedure?</b>					
Correct, n (%)	99 (57.2)	173 (57.1)	116 (60.1)	28 (59.6)	0.910
Wrong, n (%)	74 (42.8)	130 (42.9)	77 (39.9)	19 (40.4)	
<b>According to the guidelines for basic and advanced life support, do you use defibrillation on a "pulseless" patient?</b>					
Correct, n (%)	106 (61.3)	171 (56.4)	124 (64.2)	30 (63.8)	0.327
Wrong, n (%)	67 (38.7)	132 (43.6)	69 (35.8)	17 (36.2)	
<b>For which rhythm treatments do you use defibrillator devices?</b>					
Correct, n (%)	56 (32.4)	62 (20.5)	46 (23.8)	12 (25.5)	0.036*
Wrong, n (%)	117 (67.6)	241 (79.5)	147 (76.2)	35 (74.5)	
<b>Do you apply sedation/analgesia during the procedure?</b>					
Correct, n (%)	52 (30.1)	81 (26.7)	58 (30.1)	17 (36.2)	0.547
Wrong, n (%)	121 (69.9)	222 (73.3)	135 (69.9)	30 (63.8)	

\*p<0.05, Pearson Chi-Square test was used.

**Table 10.** The relationship between the participants' self-confidence about defibrillator use and correct responses to questions.

	I am competent in using defibrillators			
Questions	I agree	I do not agree	I have no experience	<i>p</i>
<b>The first shock dose to be applied during cardioversion</b>				
Correct, n (%)	62 (19.4)	35 (16)	18 (10.2)	<b>0.028*</b>
Wrong, n (%)	258 (80.6)	184 (84)	159 (89.8)	
<b>The first shock dose to be applied during defibrillation</b>				
Correct, n (%)	188 (58.8)	89 (40.6)	75 (42.4)	<b>&lt;0.001*</b>
Wrong, n (%)	132 (41.3)	130 (59.4)	102 (57.6)	
<b>Preferred conductive material during defibrillation/cardioversion</b>				
Correct, n (%)	168 (52.5)	117 (53.4)	85 (48)	0.522
Wrong, n (%)	152 (47.5)	102 (46.6)	92 (52)	
<b>Do you pause oxygen therapy during the procedure?</b>				
Correct, n (%)	185 (57.8)	139 (63.5)	92 (52)	0.070
Wrong, n (%)	135 (42.2)	80 (36.5)	85 (48)	
<b>According to the guidelines for basic and advanced life support, do you use defibrillation on a "pulseless" patient?</b>				
Correct, n (%)	200 (62.5)	128 (58.4)	103 (58.2)	0.526
Wrong, n (%)	120 (37.5)	91 (41.6)	74 (41.8)	
<b>For which rhythm treatments do you use defibrillator devices?</b>				
Correct, n (%)	80 (25)	53 (24.2)	43 (24.3)	0.973
Wrong, n (%)	240 (75)	166 (75.8)	134 (75.7)	
<b>Do you apply sedation/analgesia during the procedure?</b>				
Correct, n (%)	88 (27.5)	63 (28.8)	57 (32.2)	0.539
Wrong, n (%)	232 (72.5)	156 (71.2)	120 (67.8)	

\* $p < 0.05$ , Pearson Chi-Square test was used.

**Table 11.** The relationship between the participants' self-confidence about which patient requires defibrillation and correct responses to questions.

Questions	My knowledge about which patient needs defibrillation/cardioversion is...			<i>p</i>
	Sufficient	Insufficient	I do not know	
<b>The first shock dose to be applied during cardioversion</b>				
Correct, n (%)	84 (18.8)	25 (12.1)	6 (9.7)	<b>0.034*</b>
Wrong, n (%)	363 (81.2)	182 (87.9)	56 (90.3)	
<b>The first shock dose to be applied during defibrillation</b>				
Correct, n (%)	266 (59.5)	59 (28.5)	27 (43.5)	<b>&lt;0.001*</b>
Wrong, n (%)	181 (40.5)	148 (71.5)	35 (56.5)	
<b>Preferred conductive material during defibrillation/cardioversion</b>				
Correct, n (%)	214 (47.9)	125 (60.4)	31 (50)	<b>0.011*</b>
Wrong, n (%)	233 (52.1)	82 (39.6)	31 (50)	
<b>Do you pause oxygen therapy during the procedure?</b>				
Correct, n (%)	266 (59.5)	114 (55.1)	36 (58.1)	0.565
Wrong, n (%)	181 (40.5)	93 (44.9)	26 (41.9)	
<b>According to the guidelines for basic and advanced life support, do you use defibrillation on a "pulseless" patient?</b>				
Correct, n (%)	268 (60)	128 (61.8)	35 (56.5)	0.739
Wrong, n (%)	179 (40)	79 (38.2)	27 (43.5)	
<b>For which rhythm treatments do you use defibrillator devices?</b>				
Correct, n (%)	105 (23.5)	52 (25.1)	19 (30.6)	0.461
Wrong, n (%)	342 (76.5)	155 (74.9)	43 (69.4)	
<b>Do you apply sedation/analgesia during the procedure?</b>				
Correct, n (%)	136 (30.4)	58 (28)	14 (22.6)	0.412
Wrong, n (%)	311 (69.6)	149 (72)	48 (77.4)	

\* $p < 0.05$ , Pearson Chi-Square test was used.