

**Appendix 2.** Characteristics of patients with out-of-hospital cardiac arrest according to regional EMSs system

	Regional EMS systems				P-value
	Osaka (n = 8,055)	Seoul (n = 4,277)	Singapore (n = 2,046)	Taiwan (n = 2,132)	
Age (yr)					<0.05
19–64	1,695 (21.0)	1,682 (39.3)	986 (48.2)	619 (29.0)	
≥ 65	6,360 (79.0)	2,595 (60.7)	1,060 (51.8)	1,513 (71.0)	
Sex					<0.05
Male	4,606 (57.2)	2,865 (67.0)	1,413 (69.1)	1,382 (64.8)	
Female	3,449 (42.8)	1,412 (33.0)	633 (30.9)	750 (35.2)	
EMS advanced airway					<0.05
No	2,821 (35.0)	3,455 (80.8)	308 (15.1)	1,406 (65.9)	
Yes	5,234 (65.0)	822 (19.2)	1,738 (84.9)	726 (34.1)	
Witnessed					<0.05
No	5,140 (63.8)	2,256 (52.7)	951 (46.5)	1,653 (77.5)	
Yes	2,915 (36.2)	2,021 (47.3)	1,095 (53.5)	479 (22.5)	
Bystander CPR					<0.05
No	4,462 (55.4)	2,530 (59.2)	1,551 (75.8)	1,665 (78.1)	
Yes	3,593 (44.6)	1,747 (40.8)	495 (24.2)	467 (21.9)	
Initial ECG rhythm					<0.05
shockable	868 (10.8)	905 (21.2)	482 (23.6)	253 (11.9)	
Non-shockable	7,166 (89.0)	3,076 (71.9)	1,563 (76.4)	1,678 (78.7)	
Unknown	21 (0.3)	296 (6.9)	1 (0.0)	201 (9.4)	
EMS scene time interval (min)					<0.05
Missing	308 (3.8)	14 (0.3)	4 (0.2)	17 (0.8)	
0–8 (min)	504 (6.3)	2,347 (54.9)	117 (5.7)	155 (7.3)	
8–16 (min)	4,033 (6.3)	1,710 (54.9)	1,266 (5.7)	1,256 (7.3)	
16–24 (min)	2,612 (50.1)	184 (40.0)	602 (61.9)	640 (58.9)	
24–32 (min)	598 (32.4)	22 (4.3)	57 (29.4)	64 (30.0)	
Median (IQR)	14 (11–19)	7 (5–10)	14 (11.62–17.0)	14 (11–17)	<0.05
Outcomes					
Survival to discharge	545 (6.8)	386 (9.0)	60 (2.9)	139 (6.5)	<0.05
Neurological recovery	301 (3.7)	163 (3.8)	32 (1.6)	64 (3.0)	<0.05

Values are presented as number (%) unless otherwise indicated.

EMS, emergency medical services; CPR, cardiopulmonary resuscitation; ECG, electrocardiography; IQR, interquartile range.