

Supplemental Table 1 Background, characteristics, and time factors of family- and friend/colleague-witnessed out-of-hospital cardiac arrest cases in non-affected prefectures

Background, characteristics, and time factors	Impact phase		Unadjusted OR (95% CI) ^{a)} or P-value	Postimpact phase		Unadjusted OR (95% CI) ^{a)} or P-value
	2011 (N = 9,696)	2010/2012 (N = 17,985)		2011 (N = 14,024)	2010/2012 (N = 26,899)	
Family-witnessed patients, No. (%)	8,771 (90.5)	16,211 (90.1)	1.04 (0.95–1.13)	12,679 (90.4)	24,452 (90.9)	0.94 (0.88–1.01)
Time (7:00 a.m.–7:00 p.m.), No. (%)	5,741 (59.2)	10,653 (59.2)	1.00 (0.95–1.05)	8,285 (59.1)	16,124 (59.9)	0.97 (0.93–1.01)
Gender, No. (%)	1,362 (14.1)	2,424 (13.5)	1.05 (0.98–1.13)	1,971 (14.1)	3,659 (13.6)	1.04 (0.98–1.10)
Age, median (IQR), y	77 (66–85)	77 (66–85)	0.57	77 (66–85)	78 (67–85)	0.05
Occupation, No. (%)	6,113 (63.1)	11,429 (63.6)	0.98 (0.93–1.03)	8,846 (63.1)	16,795 (62.4)	1.03 (0.99–1.07)
Known cardiac etiology, No. (%)	5,661 (58.4)	10,483 (58.3)	1.00 (0.96–1.06)	8,220 (58.6)	16,085 (59.8)	0.95 (0.91–0.99)
Non-cardiac origin ^{b)} , No. (%)	1,232 (12.7)	2,202 (12.2)	1.04 (0.97–1.12)	1,709 (12.2)	2,845 (10.6)	1.17 (1.10–1.25)
Stable initial rhythm, No. (%)	1,399 (14.4)	2,598 (14.5)	1.00 (0.93–1.07)	1,979 (14.1)	3,676 (13.7)	1.04 (0.98–1.10)
Resuscitation by bystanders with an AED, No. (%)	4,882 (50.4)	8,833 (49.1)	1.05 (1.00–1.10)	7,139 (50.9)	13,640 (50.7)	1.01 (0.97–1.05)
Resuscitation by bystanders with an AED, No. (%)	67 (0.7)	145 (0.8)	0.60 (0.64–1.15)	101 (0.7)	197 (0.8)	0.91 (0.72–1.16)
Epinephrine administration by paramedics, No. (%)	2,097 (21.6)	3,891 (21.6)	1.00 (0.94–1.06)	3,084 (22.0)	6,106 (23.5)	0.92 (0.88–0.97)
Endotracheal intubation by paramedics, No. (%)	845 (8.7)	1,697 (9.4)	0.92 (0.84–0.99)	1,246 (8.9)	2,500 (9.3)	0.95 (0.89–1.02)
Response intervals, median (IQR), min						
Dispatch-to-emergency call	2 (0–5)	2 (0–5)	<0.005	2 (0–5)	2 (0–5)	0.24
EMS response time ^{c)}	8 (7–11)	8 (7–10)	0.10	8 (7–11)	8 (7–11)	0.86
Interval at the patient-to-arrival at the hospital	23 (18–30)	23 (18–30)	0.08	23 (18–30)	24 (18–31)	<0.01

IQR, interquartile range; CPR, cardiopulmonary resuscitation; AED, automated external defibrillator; EMS, emergency medical service;

Impact phase, 0–23 weeks from March 11; postimpact phase, from 24 weeks after March 11 until March 11 of the following year;

OR, odds ratio; CI, confidence interval.

a) 2010/2012 as a reference

b) Asphyxia, submersion, hypothermia, poisoning, and trauma

c) Time interval between emergency call and EMS arrival at patient

Supplemental Table 2 Phasic comparisons of bystander cardiopulmonary resuscitation and outcomes between 2011 and 2010/2012 in non-affected prefectures

Background and outcomes	Impact phase		Adjusted OR (95% CI) with 2010/2012 as a reference	Postimpact phase		Adjusted OR (95% CI) with 2010/2012 as a reference
	2011 (N = 9,696)	2010/2012 (N = 17,985)		2011 (N = 14,024)	2010/2012 (N = 26,899)	

rate, No. (%)	3,907 (40.3)	7,263 (40.4)	0.96 (0.91–1.02) ^{a)}	5,801 (41.4)	11,059 (41.1)	1.01 (0.96–1.0)
n survival, No. (%)	805 (8.3)	1,509 (8.4)	1.00 (0.91–1.10)	1,146 (8.2)	2,120 (7.9)	1.02 (0.94–1.10)
ogically favorable outcome, No. (%)	413 (4.3)	735 (4.1)	1.07 (0.93–1.22) ^{b)}	557 (4.0)	1,056 (3.9)	1.01 (0.90–1.13)

BCPR, bystander cardiopulmonary resuscitation; impact phase, 0-23 weeks from March 11;

postimpact phase, from 24 weeks after March 11 until March 11 of the following year; OR, odds ratio; CI, confidence interval.

a) Among the other factors including in the logistic regression model, age (adjusted OR; 95% CI, 0.94; 0.92–0.95/10 years), family bystander (0.50; 0.45–0.55), cardiac etiology (1.1; 1.03–1.17), and DA-CPR provision (8.60; 8.12–9.11) were significantly associated with BCPR rate.

b) Among the other factors including in the logistic regression model, age (0.93; 0.92–0.95/10 years), family bystander (0.50; 0.46–0.55), cardiac etiology (1.1; 1.04–1.15), and DA-CPR provision (8.99; 8.57–9.42) were significantly associated with BCPR rate.

Supplemental Table 3 Phasic comparisons of indices for dispatcher-assisted and bystander-initiated resuscitation efforts between 2011 and 2010/2012 in non-affected prefectures

related to DA-CPR and	Impact phase		Unadjusted OR (95% CI) with 2010/2012 as a reference	Postimpact phase		Unadjusted OR (95% CI) 2010/2012 referen
	2011	2010/2012		2011	2010/2012	
sensitivity, No./total	4,882/8,834 (55.3)	8,833/16,350 (54.0)	1.05 (0.99–1.11)	7,139/12,788 (55.8)	13,640/24,565 (55.5)	1.05 (0.99–1.11)
er's compliance to DA- No./total (%)	3,041/4,882 (62.3)	5,628/8,833 (63.7)	0.94 (0.88–1.01)	8,725/13,640 (63.9)	8,725/13,640 (64.0)	1.00 (0.94–1.06)
er's own performance of No./total (%)	862/4,814 (17.9)	1,635/9,152 (17.9)	1.00 (0.92–1.10)	1,236/6,885 (18.0)	2,334/13,259 (17.6)	1.02 (0.95–1.09)

DA-CPR, dispatcher-assisted cardiopulmonary resuscitation; BCPR, bystander cardiopulmonary resuscitation; impact phase, 0-23 weeks from March 11; postimpact phase, from 24 weeks after March 11 until March 11 of the following year; OR, odds ratio; CI, confidence interval.