Table S1. Baseline demographic and clinical characteristics of emergency department patients with and without in-hospital cardiac arrest (IHCA) within one hour

Variables	Total	No IHCA	IHCA	p-
	(N = 832,226)	(N = 831,353)	(N = 873)	value
Age	45.0 (32.0 – 59.0)	45.0 (32.0 – 59.0)	63.0 (53.0 – 75.0)	< 0.01
Male	404,230 (48.6)	403,591 (48.5)	639 (73.2)	< 0.01
MAP (mmHg) [†]	93.3 (86.7 – 103.7)	93.3 (86.7 – 103.7)	90.7 (73.0 – 106.7)	< 0.01
Pulse rate, bpm [†]	80.0 (72.0 – 88.0)	80.0 (72.0 – 88.0)	92.0 (76.0 – 110.0)	< 0.01
Respiratory rate,	20.0 (18.0 – 20.0)	20.0 (18.0 – 20.0)	20.0 (18.0 – 22.0)	< 0.01
breaths per min [†]				
LOS in ED	0.5(0.2-0.8)	0.5(0.2-0.8)	0.7(0.6-0.9)	< 0.01
(hours)				
Cancer	23,071 (2.8)	23,035 (2.8)	36 (4.1)	< 0.01
Not alert**	25,995 (3.1)	25,458 (3.1)	537 (61.5)	< 0.01
KTAS level 1	18,816 (2.3)	18,274 (2.2)	542 (62.1)	< 0.01
ICU admission	17,927 (2.2)	17,289 (2.1)	638 (73.1)	< 0.01
Mortality	3,346 (0.4)	3,136 (0.4)	210 (24.1)	< 0.01

Data are presented as median (interquartile range [IQR]) or as number (percentage). † Vital signs were checked on ED arrival. † Glosgow Coma Scale < 13. Abbreviations: IHCA = in-hospital cardiac arrest; MAP = mean arterial pressure; ED = emergency department; KTAS = Korean triage acuity scale; ICU = intensive care unit.

Table S2. Baseline demographic and clinical characteristics of emergency department patients with in-hospital cardiac arrest (IHCA) within and after one hour

Variables	After 1 hour	Within 1 hour	p-
	(N = 9,180)	(N = 873)	value
Age	68.0 (55.0–78.0)	63.0 (53.0 – 75.0)	< 0.01
Male	6,036 (65.8)	639 (73.2)	< 0.01
MAP (mmHg) [†]	87.3 (70.0–104.0)	90.7 (73.0 – 106.7)	< 0.01
Pulse rate, bpm [†]	95.0 (78.0–114.0)	92.0 (76.0 – 110.0)	< 0.01
Respiratory rate,	20.0 (18.0–22.0)	20.0 (18.0 – 22.0)	< 0.01
breaths per min [†]			
LOS in ED	4.2 (2.4–9.3)	0.7(0.6-0.9)	< 0.01
(hours)			
Cancer	1,032 (11.2)	36 (4.1)	< 0.01
Not alert**	5,006 (54.5)	537 (61.5)	< 0.01
KTAS level 1	4,416 (48.1)	542 (62.1)	< 0.01
ICU admission	5,375 (58.6)	638 (73.1)	< 0.01
Mortality	3,277 (35.7)	210 (24.1)	< 0.01

Data are presented as median (interquartile range [IQR]) or as number (percentage). † Vital signs were checked on ED arrival. † Glosgow Coma Scale < 13. Abbreviations: IHCA = in-hospital cardiac arrest; MAP = mean arterial pressure; ED = emergency department; KTAS = Korean triage acuity scale; ICU = intensive care unit.

Table S3. Top 10 categories for ED diagnosis

No IHCA (N = 5,817,436)		IHCA (N = 9,180)	
Diagnosis	Frequency	Diagnosis	Frequency
Gastrointestinal	890,185 (15.3)	Primary cardiac	2,383 (26.0)
		(non-AMI)	
Nontraumatic	471,379 (8.1)	Primary respiratory	1,629 (17.7)
neurologic			
disorder			
Primary	219,586 (3.8)	AMI	1,377 (4.1)
respiratory			
Urology	171,588 (2.9)	Others	154 (1.7)
Unspecified	108,365 (1.9)	Sepsis	153 (1.7)
fever			
Others	94,885 (1.6)	Gastrointestinal	142 (1.3)
Urticaria	77,566 (1.3)	Cerebrovascular	134 (1.4)
Dyspnea	51,611 (0.9)	Chronic kidney	75 (0.1)
		disease	
Primary cardiac	49,089 (0.1)	Trauma	61 (0.1)
Trauma	46,565 (0.1)	Acute Kidney	58 (0.1)
		Injury	

Data are presented as number (percentage). Abbreviations: ED = emergency department; IHCA = inhospital cardiac arrest; AMI = acute myocardial infarction.