

CARES Summary Report

Demographic and Survival Characteristics of OHCA

End of the Event: Dead in Field, Pronounced Dead in ED, Ongoing Resuscitation in ED | Arrest Witness Status: All | Resuscitation Attempted by 911 Responder: Yes | Presumed Cardiac Arrest Etiology: Presumed Cardiac Etiology, Respiratory/Asphyxia, Drowning/Submersion, Electrocution, Other, Drug Overdose, Exsanguination/Hemorrhage | Service Date: From 01/01/2013 Through 12/31/2017

Data	Michigan N=22058	National N=274231
Age	N=22036	N=274060
Mean	62.5	62.4
Median	65.0	64.0
Gender (%)	N=22053	N=274213
Female	8723 (39.6)	105857 (38.6)
Male	13330 (60.4)	168356 (61.4)
Race (%)	N=21993	N=274128
American-Indian/Alaskan	68 (0.3)	1181 (0.4)
Asian	113 (0.5)	5288 (1.9)
Black/African-American	5369 (24.4)	59359 (21.7)
Hispanic/Latino	240 (1.1)	15352 (5.6)
Native Hawaiian/Pacific Islander	16 (0.1)	1280 (0.5)
White	11339 (51.6)	128139 (46.7)
Unknown	4848 (22.0)	63529 (23.2)
Location of Arrest (%)	N=22058	N=274225
Home/Residence	15633 (70.9)	190654 (69.5)
Nursing Home	3211 (14.6)	29801 (10.9)
Public Setting	3214 (14.6)	53770 (19.6)
Arrest witnessed (%)	N=22057	N=274218
Bystander Witnessed	7771 (35.2)	101641 (37.1)
Witnessed by 911 Responder	2433 (11.0)	33650 (12.3)
Unwitnessed	11853 (53.7)	138926 (50.7)
Who Initiated CPR? (%)	N=22057	N=274226
Not Applicable	12 (0.1)	241 (0.1)
Bystander	8502 (38.5)	109705 (40.0)
First Responder	5587 (25.3)	77279 (28.2)
Emergency Medical Services (EMS)	7956 (36.1)	87001 (31.7)
Was an AED applied prior to EMS arrival? (%)	N=22058	N=274220
Yes	7071 (32.1)	77921 (28.4)
No	14987 (67.9)	196299 (71.6)
Who first applied automated external defibrillator? (%)	N=7064	N=77915
Bystander	1563 (22.1)	15035 (19.3)
First Responder	5501 (77.9)	62844 (80.7)
Who first defibrillated the patient?* (%)	N=21911	N=263577
Not Applicable	15009 (68.5)	178306 (67.6)
Bystander	376 (1.7)	4291 (1.6)
First Responder	1318 (6.0)	15926 (6.0)
Responding EMS Personnel	5208 (23.8)	65054 (24.7)
First Arrest Rhythm (%)	N=22058	N=274211
Vfib/Vtach/Unknown Shockable Rhythm	3952 (17.9)	53659 (19.6)
Asystole	10446 (47.4)	131282 (47.9)
Idioventricular/PEA	3908 (17.7)	58527 (21.3)
Unknown Unshockable Rhythm	3752 (17.0)	30743 (11.2)
Sustained ROSC (%)	N=22052	N=274122
Yes	6234 (28.3)	88463 (32.3)
No	15818 (71.7)	185659 (67.7)
Was hypothermia care provided in the field? (%)	N=22048	N=274157
Yes	122 (0.6)	24090 (8.8)
No	21926 (99.4)	250067 (91.2)
Pre-hospital Outcome (%)	N=22058	N=274231
Pronounced in the Field	6758 (30.6)	86702 (31.6)
Pronounced in ED	2939 (13.3)	43392 (15.8)
Ongoing Resuscitation in ED	12361 (56.0)	144137 (52.6)
Overall Survival (%)	N=22058	N=274231
Overall Survival to Hospital Admission	5763 (26.1)	77824 (28.4)
Overall Survival to Hospital Discharge	1935 (8.8)	29047 (10.6)
With Good or Moderate Cerebral Performance	1572 (7.1)	23266 (8.5)
Missing hospital outcome	15	936
Utstein¹ Survival (%)	N=2183	N=31907
	27.6%	33.0%
Utstein Bystander² Survival (%)	N=1239	N=18993
	30.4%	37.1%

Inclusion criteria: An out-of-hospital cardiac arrest where resuscitation is attempted by a 911 responder (CPR and/or defibrillation). This would also include patients that received an AED shock by a bystander prior to the arrival of 911 responders.

**This is a new question that was introduced on the 2011 form.*

¹Witnessed by bystander and found in a shockable rhythm

²Witnessed by bystander, found in shockable rhythm, and received some bystander intervention (CPR by bystander and/or AED applied by bystander)