

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, Electrocutation, Other, Drug Overdose, Exsanguination/Hemorrhage | Service Date: 01/01/17 - 12/31/17

Data	Michigan N=6879	National N=76215
Age	N=6878	N=76184
Mean	62.2	62.0
Median	65.0	64.0
Gender (%)	N=6875	N=76210
Female	2653 (38.6)	28962 (38.0)
Male	4222 (61.4)	47248 (62.0)
Race (%)	N=6838	N=76174
American-Indian/Alaskan	10 (0.1)	270 (0.4)
Asian	45 (0.7)	1518 (2.0)
Black/African-American	1858 (27.2)	17307 (22.7)
Hispanic/Latino	78 (1.1)	4111 (5.4)
Native Hawaiian/Pacific Islander	5 (0.1)	304 (0.4)
White	3775 (55.2)	36339 (47.7)
Unknown	1067 (15.6)	16325 (21.4)
Location of Arrest (%)	N=6879	N=76215
Home/Residence	4904 (71.3)	53240 (69.9)
Nursing Home	934 (13.6)	8668(11.4)
Public Setting	1041 (15.1)	14307 (18.8)
Arrest witnessed (%)	N=6879	N=76215
Bystander Witnessed	2486 (36.1)	27887 (36.6)
Witnessed by 911 Responder	795 (11.6)	9380 (12.3)
Unwitnessed	3598 (52.3)	38948 (51.1)
Who Initiated CPR? (%)	N=6879	N=76215
Not Applicable	4 (0.1)	48 (0.1)
Bystander	2724 (39.6)	30063 (39.4)
First Responder	1855 (27.0)	22309 (29.3)
Emergency Medical Services (EMS)	2296 (33.4)	23795 (31.2)
Was an AED applied prior to EMS arrival? (%)	N=6879	N=76210
Yes	2383 (34.6)	22056 (28.9)
No	4496 (65.4)	54154 (71.1)
Who first applied automated external defibrillator? (%)	N=2384	N=22036
Bystander	511 (21.4)	4595 (20.9)
First Responder	1873 (78.6)	17441 (79.1)
Who first defibrillated the patient?* (%)	N=6879	N=74891
Not Applicable	4679 (68.0)	52196 (69.7)
Bystander	92 (1.3)	1178 (1.6)
First Responder	431 (6.3)	4244 (5.7)
Responding EMS Personnel	1677 (24.4)	17273 (23.1)
First Arrest Rhythm (%)	N=6879	N=76209
Vfib/Vtach/Unknown Shockable Rhythm	1191 (17.3)	14019 (18.4)
Asystole	3270 (47.5)	38237 (50.2)
Idioventricular/PEA	1216 (17.7)	16146 (21.2)
Unknown Unshockable Rhythm	1202 (17.5)	7807 (10.2)
Sustained ROSC (%)	N=6879	N=76214
Yes	1980 (28.8)	24249 (31.8)
No	4899 (71.2)	51965 (68.2)
Was hypothermia care provided in the field? (%)	N=6879	N=76214
Yes	46 (0.7)	3871 (5.1)
No	6833 (99.3)	72343 (94.9)
Pre-hospital Outcome (%)	N=6879	N=76215
Pronounced in the Field	2291 (33.3)	27219 (35.7)
Pronounced in ED	807 (11.7)	11006 (14.4)
Ongoing Resuscitation in ED	3781 (55.0)	37990 (49.8)
Overall Survival (%)	N=6879	N=76215
Overall Survival to Hospital Admission	1898 (27.6)	21414 (28.1)
Overall Survival to Hospital Discharge	637 (9.3)	7949 (10.4)
With Good or Moderate Cerebral Performance	534 (7.8)	6392 (8.4)
Missing hospital outcome	1	173
Utstein¹ Survival (%)	N=677	N=8380
	27.2%	32.6%
Utstein Bystander² Survival (%)	N=366	N=4935
	29.8%	36.5%

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)