

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: 01/01/18 - 12/31/18

Data	Michigan N=7451	National N=81864
Age	N=7450	N=81839
Mean	62.4	62.2
Median	65.0	64.0
Gender (%)	N=7450	N=81862
Female	2915 (39.1)	31010 (37.9)
Male	4535 (60.9)	50852 (62.1)
Race (%)	N=7438	N=81849
American-Indian/Alaskan	13 (0.2)	321 (0.4)
Asian	50 (0.7)	1811 (2.2)
Black/African-American	2017 (27.1)	19456 (23.8)
Hispanic/Latino	92 (1.2)	5122 (6.3)
Native Hawaiian/Pacific Islander	7 (0.1)	359 (0.4)
White	4367 (58.7)	40880 (49.9)
Unknown	892 (12.0)	13900 (17.0)
Location of Arrest (%)	N=7451	N=81864
Home/Residence	5233 (70.2)	57476 (70.2)
Nursing Home	1064 (14.3)	9116(11.1)
Public Setting	1154 (15.5)	15272 (18.7)
Arrest witnessed (%)	N=7451	N=81863
Bystander Witnessed	2812 (37.7)	30568 (37.3)
Witnessed by 911 Responder	826 (11.1)	10246 (12.5)
Unwitnessed	3813 (51.2)	41048 (50.1)
Who Initiated CPR? (%)	N=7451	N=81864
Not Applicable	5 (0.1)	51 (0.1)
Bystander	3056 (41.0)	32776 (40.0)
First Responder	1968 (26.4)	23708 (29.0)
Emergency Medical Services (EMS)	2422 (32.5)	25329 (30.9)
Was an AED applied prior to EMS arrival? (%)	N=7451	N=81863
Yes	2584 (34.7)	24100 (29.4)
No	4867 (65.3)	57763 (70.6)
Who first applied automated external defibrillator? (%)	N=2583	N=24092
Bystander	660 (25.6)	5207 (21.6)
First Responder	1923 (74.4)	18885 (78.4)
Who first defibrillated the patient?* (%)	N=7451	N=80509
Not Applicable	5082 (68.2)	56042 (69.6)
Bystander	137 (1.8)	1403 (1.7)
First Responder	460 (6.2)	4668 (5.8)
Responding EMS Personnel	1772 (23.8)	18396 (22.8)
First Arrest Rhythm (%)	N=7451	N=81852
Vfib/Vtach/Unknown Shockable Rhythm	1312 (17.6)	15088 (18.4)
Asystole	3555 (47.7)	41187 (50.3)
Idioventricular/PEA	1289 (17.3)	17811 (21.8)
Unknown Unshockable Rhythm	1295 (17.4)	7766 (9.5)
Sustained ROSC (%)	N=7451	N=81864
Yes	2121 (28.5)	25491 (31.1)
No	5330 (71.5)	56373 (68.9)
Was hypothermia care provided in the field? (%)	N=7451	N=81864
Yes	70 (0.9)	3409 (4.2)
No	7381 (99.1)	78455 (95.8)
Pre-hospital Outcome (%)	N=7451	N=81864
Pronounced in the Field	2839 (38.1)	29200 (35.7)
Pronounced in ED	789 (10.6)	11881 (14.5)
Ongoing Resuscitation in ED	3823 (51.3)	40783 (49.8)
Overall Survival (%)	N=7451	N=81864
Overall Survival to Hospital Admission	1989 (26.7)	23083 (28.2)
Overall Survival to Hospital Discharge	627 (8.4)	8490 (10.4)
With Good or Moderate Cerebral Performance	516 (6.9)	6729 (8.2)
Missing hospital outcome	0	158
Utstein¹ Survival (%)	N=770	N=9046
	29.9%	33.3%
Utstein Bystander² Survival (%)	N=409	N=5305
	35.5%	37.3%

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)