

CARES Summary Report

Demographic and Survival Characteristics of OHCA

Non-Traumatic Etiology | Arrest Witness Status: All | Date of Arrest: 01/01/21-12/31/21

Data	Michigan N=9634	National N=146924
Age	N=9631	N=146891
Mean	63.2	61.9
Median	65.0	64.0
Gender (%)	N=9634	N=146918
Female	3655 (37.9)	55012 (37.4)
Male	5971 (62.0)	91864 (62.5)
Race (%)	N=9634	N=146922
American-Indian/Alaskan	25 (0.3)	525 (0.4)
Asian	69 (0.7)	3645 (2.5)
Black/African-American	2596 (26.9)	31938 (21.7)
Hispanic/Latino	192 (2.0)	12593 (8.6)
Native Hawaiian/Pacific Islander	16 (0.2)	802 (0.5)
White	5669 (58.8)	73319 (49.9)
Multi-racial	49 (0.5)	500 (0.3)
Unknown	1018 (10.6)	23600 (16.1)
Location of Arrest (%)	N=9634	N=146922
Home/Residence	7042 (73.1)	108245 (73.7)
Nursing Home	1307 (13.6)	14754 (10.0)
Public Setting	1285 (13.3)	23923 (16.3)
Arrest witnessed (%)	N=9634	N=146916
Bystander Witnessed	3583 (37.2)	55064 (37.5)
Witnessed by 911 Responder	967 (10.0)	17845 (12.1)
Unwitnessed	5084 (52.8)	74007 (50.4)
Who Initiated CPR? (%)	N=9634	N=146920
Not Applicable	3 (0.0)	62 (0.0)
Bystander	3986 (41.4)	59738 (40.7)
First Responder	2743 (28.5)	45464 (30.9)
Emergency Medical Services (EMS)	2902 (30.1)	41656 (28.4)
Was an AED applied prior to EMS arrival? (%)	N=9634	N=146922
Yes	3367 (34.9)	40753 (27.7)
No	6267 (65.1)	106169 (72.3)
Who first applied automated external defibrillator? (%)	N=3366	N=40728
Bystander	868 (25.8)	8422 (20.7)
First Responder	2498 (74.2)	32306 (79.3)
Who first defibrillated the patient?* (%)	N=9630	N=145919
Not Applicable	6888 (71.5)	104038 (71.3)
Bystander	155 (1.6)	1911 (1.3)
First Responder	556 (5.8)	7940 (5.4)
Responding EMS Personnel	2031 (21.1)	32030 (22.0)
First Arrest Rhythm (%)	N=9634	N=146895
Vfib/Vtach/Unknown Shockable Rhythm	1460 (15.2)	24083 (16.4)
Asystole	4937 (51.2)	77581 (52.8)
Idioventricular/PEA	1815 (18.8)	32544 (22.2)
Unknown Unshockable Rhythm	1422 (14.8)	12687 (8.6)
Sustained ROSC (%)	N=9634	N=146864
Yes	2746 (28.5)	39820 (27.1)
No	6888 (71.5)	107044 (72.9)
Was hypothermia care provided in the field? (%)	N=9634	N=146914
Yes	124 (1.3)	4127 (2.8)
No	9510 (98.7)	142787 (97.2)
Pre-hospital Outcome (%)	N=9634	N=146924
Pronounced in the Field	4615 (47.9)	62260 (42.4)
Pronounced in ED	479 (5.0)	14711 (10.0)
Ongoing Resuscitation in ED	4540 (47.1)	69953 (47.6)
Overall Survival (%)	N=9634	N=146924
Overall Survival to Hospital Admission	2278 (23.6)	36294 (24.7)
Overall Survival to Hospital Discharge	739 (7.7)	13403 (9.1)
With Good or Moderate Cerebral Performance	626 (6.5)	10532 (7.2)
Missing hospital outcome	1	305
Utstein¹ Survival (%)	N=865	N=14251
	28.8%	29.0%
Utstein Bystander² Survival (%)	N=490	N=8370
	31.4%	32.5%

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)