

CARES Summary Report

Demographic and Survival Characteristics of OHCA

Non-Traumatic Etiology | Arrest Witness Status: All | Date of Arrest: 01/01/22-12/31/22

Data	Kalamazoo N=252	State (All Agencies) N=9262	National N=148767
Age	N=252	N=9259	N=148746
Mean	63.2	63.5	62.2
Median	66.0	66.0	65.0
Gender (%)	N=252	N=9262	N=148765
Female	101 (40.1)	3611 (39.0)	55512 (37.3)
Male	150 (59.5)	5647 (61.0)	93214 (62.7)
Race (%)	N=252	N=9262	N=148766
American-Indian/Alaskan	2 (0.8)	4 (0.0)	578 (0.4)
Asian	1 (0.4)	72 (0.8)	3808 (2.6)
Black/African-American	48 (19.0)	2455 (26.5)	31439 (21.1)
Hispanic/Latino	3 (1.2)	149 (1.6)	12164 (8.2)
Native Hawaiian/Pacific Islander	1 (0.4)	8 (0.1)	677 (0.5)
White	190 (75.4)	5519 (59.6)	75483 (50.7)
Multi-racial	2 (0.8)	59 (0.6)	589 (0.4)
Unknown	5 (2.0)	996 (10.8)	24028 (16.2)
Location of Arrest (%)	N=252	N=9262	N=148767
Home/Residence	203 (80.6)	6652 (71.8)	107748 (72.4)
Nursing Home	20 (7.9)	1257 (13.6)	15341 (10.3)
Public Setting	29 (11.5)	1353 (14.6)	25678 (17.3)
Arrest witnessed (%)	N=252	N=9262	N=148761
Bystander Witnessed	109 (43.3)	3474 (37.5)	55317 (37.2)
Witnessed by 911 Responder	17 (6.7)	944 (10.2)	17250 (11.6)
Unwitnessed	126 (50.0)	4844 (52.3)	76194 (51.2)
Who Initiated CPR? (%)	N=252	N=9262	N=148762
Not Applicable	0 (0.0)	6 (0.1)	64 (0.0)
Bystander	112 (44.4)	3711 (40.1)	60635 (40.8)
First Responder	117 (46.4)	2902 (31.3)	47325 (31.8)
Emergency Medical Services (EMS)	23 (9.1)	2643 (28.5)	40738 (27.4)
Was an AED applied prior to EMS arrival? (%)	N=252	N=9262	N=148764
Yes	157 (62.3)	3484 (37.6)	43640 (29.3)
No	95 (37.7)	5778 (62.4)	105124 (70.7)
Who first applied automated external defibrillator? (%)	N=157	N=3484	N=43643
Bystander	17 (10.8)	912 (26.2)	9071 (20.8)
First Responder	140 (89.2)	2572 (73.8)	34572 (79.2)
Who first defibrillated the patient?* (%)	N=252	N=9256	N=148742
Not Applicable	163 (64.7)	6634 (71.7)	105417 (70.9)
Bystander	4 (1.6)	175 (1.9)	2254 (1.5)
First Responder	38 (15.1)	599 (6.5)	9185 (6.2)
Responding EMS Personnel	47 (18.7)	1848 (20.0)	31886 (21.4)
First Arrest Rhythm (%)	N=252	N=9262	N=148730
Vfib/Vtach/Unknown Shockable Rhythm	49 (19.4)	1489 (16.1)	25301 (17.0)
Asystole	121 (48.0)	4591 (49.6)	78277 (52.6)
Idioventricular/PEA	53 (21.0)	1756 (19.0)	32684 (22.0)
Unknown Unshockable Rhythm	29 (11.5)	1426 (15.4)	12468 (8.4)
Sustained ROSC (%)	N=252	N=9261	N=148716
Yes	80 (31.7)	2581 (27.9)	39744 (26.7)
No	172 (68.3)	6680 (72.1)	108972 (73.3)
Was hypothermia care provided in the field? (%)	N=252	N=9262	N=148764
Yes	9 (3.6)	106 (1.1)	3816 (2.6)
No	243 (96.4)	9156 (98.9)	144948 (97.4)
Pre-hospital Outcome (%)	N=252	N=9262	N=148767
Pronounced in the Field	159 (63.1)	4416 (47.7)	65221 (43.8)
Pronounced in ED	6 (2.4)	431 (4.7)	13867 (9.3)
Ongoing Resuscitation in ED	87 (34.5)	4415 (47.7)	69679 (46.8)
Overall Survival (%)	N=252	N=9262	N=148767
Overall Survival to Hospital Admission	60 (23.8)	2277 (24.6)	36859 (24.8)
Overall Survival to Hospital Discharge	28 (11.1)	755 (8.2)	13807 (9.3)
With Good or Moderate Cerebral Performance	24 (9.5)	613 (6.6)	11112 (7.5)
Missing hospital outcome	0	1	691
Utstein¹ Survival (%)	N=35	N=936	N=15217
	42.9%	25.2%	30.4%
Utstein Bystander² Survival (%)	N=23	N=506	N=8931
	47.8%	29.6%	34.0%

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)