

CARES Summary Report

Demographic and Survival Characteristics of OHCA

Non-Traumatic Etiology | Arrest Witness Status: All | Date of Arrest: 01/01/23-12/31/23

Data	Kalamazoo N=249	Michigan N=8671	National N=139822
Age	N=249	N=8670	N=139807
Mean	61.4	63.3	62.1
Median	64.0	66.0	65.0
Gender (%)	N=249	N=8671	N=139822
Female	94 (37.8)	3294 (38.0)	51700 (37.0)
Male	155 (62.2)	5375 (62.0)	88079 (63.0)
Race (%)	N=249	N=8671	N=139820
American-Indian/Alaskan	0 (0.0)	12 (0.1)	546 (0.4)
Asian	0 (0.0)	76 (0.9)	3880 (2.8)
Black/African-American	59 (23.7)	2251 (26.0)	30286 (21.7)
Hispanic/Latino	7 (2.8)	138 (1.6)	12177 (8.7)
Native Hawaiian/Pacific Islander	0 (0.0)	5 (0.1)	653 (0.5)
White	169 (67.9)	5275 (60.8)	70459 (50.4)
Multi-racial	1 (0.4)	61 (0.7)	619 (0.4)
Unknown	13 (5.2)	853 (9.8)	21200 (15.2)
Location of Arrest (%)	N=249	N=8671	N=139819
Home/Residence	185 (74.3)	6191 (71.4)	99881 (71.4)
Nursing Home	19 (7.6)	1227 (14.2)	14557 (10.4)
Public Setting	45 (18.1)	1253 (14.5)	25381 (18.2)
Arrest witnessed (%)	N=249	N=8671	N=139822
Bystander Witnessed	90 (36.1)	3271 (37.7)	51336 (36.7)
Witnessed by 911 Responder	37 (14.9)	955 (11.0)	16540 (11.8)
Unwitnessed	122 (49.0)	4445 (51.3)	71946 (51.5)
Who Initiated CPR? (%)	N=249	N=8670	N=139810
Not Applicable	0 (0.0)	6 (0.1)	63 (0.0)
Bystander	102 (41.0)	3676 (42.4)	58016 (41.5)
First Responder	119 (47.8)	2684 (31.0)	43558 (31.2)
Emergency Medical Services (EMS)	28 (11.2)	2304 (26.6)	38173 (27.3)
Was an AED applied prior to EMS arrival? (%)	N=249	N=8671	N=139821
Yes	159 (63.9)	3201 (36.9)	40084 (28.7)
No	90 (36.1)	5470 (63.1)	99737 (71.3)
Who first applied automated external defibrillator? (%)	N=159	N=3202	N=40110
Bystander	15 (9.4)	873 (27.3)	8774 (21.9)
First Responder	144 (90.6)	2329 (72.7)	31336 (78.1)
Who first defibrillated the patient?* (%)	N=247	N=8668	N=139800
Not Applicable	148 (59.9)	6001 (69.2)	98064 (70.1)
Bystander	3 (1.2)	174 (2.0)	2231 (1.6)
First Responder	42 (17.0)	582 (6.7)	8529 (6.1)
Responding EMS Personnel	54 (21.9)	1911 (22.0)	30976 (22.2)
First Arrest Rhythm (%)	N=249	N=8671	N=139807
Vfib/Vtach/Unknown Shockable Rhythm	52 (20.9)	1521 (17.5)	24517 (17.5)
Asystole	125 (50.2)	4368 (50.4)	72251 (51.7)
Idioventricular/PEA	45 (18.1)	1578 (18.2)	30884 (22.1)
Unknown Unshockable Rhythm	27 (10.8)	1204 (13.9)	12155 (8.7)
Sustained ROSC (%)	N=249	N=8671	N=139786
Yes	90 (36.1)	2448 (28.2)	37902 (27.1)
No	159 (63.9)	6223 (71.8)	101884 (72.9)
Was hypothermia care provided in the field? (%)	N=249	N=8671	N=139819
Yes	0 (0.0)	0 (0.0)	3932 (2.8)
No	249 (100.0)	8671 (100.0)	135887 (97.2)
Pre-hospital Outcome (%)	N=249	N=8671	N=139822
Pronounced in the Field	152 (61.0)	4162 (48.0)	59972 (42.9)
Pronounced in ED	7 (2.8)	457 (5.3)	13315 (9.5)
Ongoing Resuscitation in ED	90 (36.1)	4052 (46.7)	66535 (47.6)
Overall Survival (%)	N=249	N=8671	N=139822
Overall Survival to Hospital Admission	70 (28.1)	2182 (25.2)	36492 (26.1)
Overall Survival to Hospital Discharge	37 (14.9)	742 (8.6)	14300 (10.2)
With Good or Moderate Cerebral Performance	32 (12.9)	584 (6.7)	11376 (8.1)
Missing hospital outcome	0	0	332
Utstein¹ Survival (%)	N=29	N=927	N=14558
48.3%	48.3%	29.1%	32.8%
Utstein Bystander² Survival (%)	N=17	N=542	N=8840
64.7%	64.7%	32.8%	36.3%

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.*

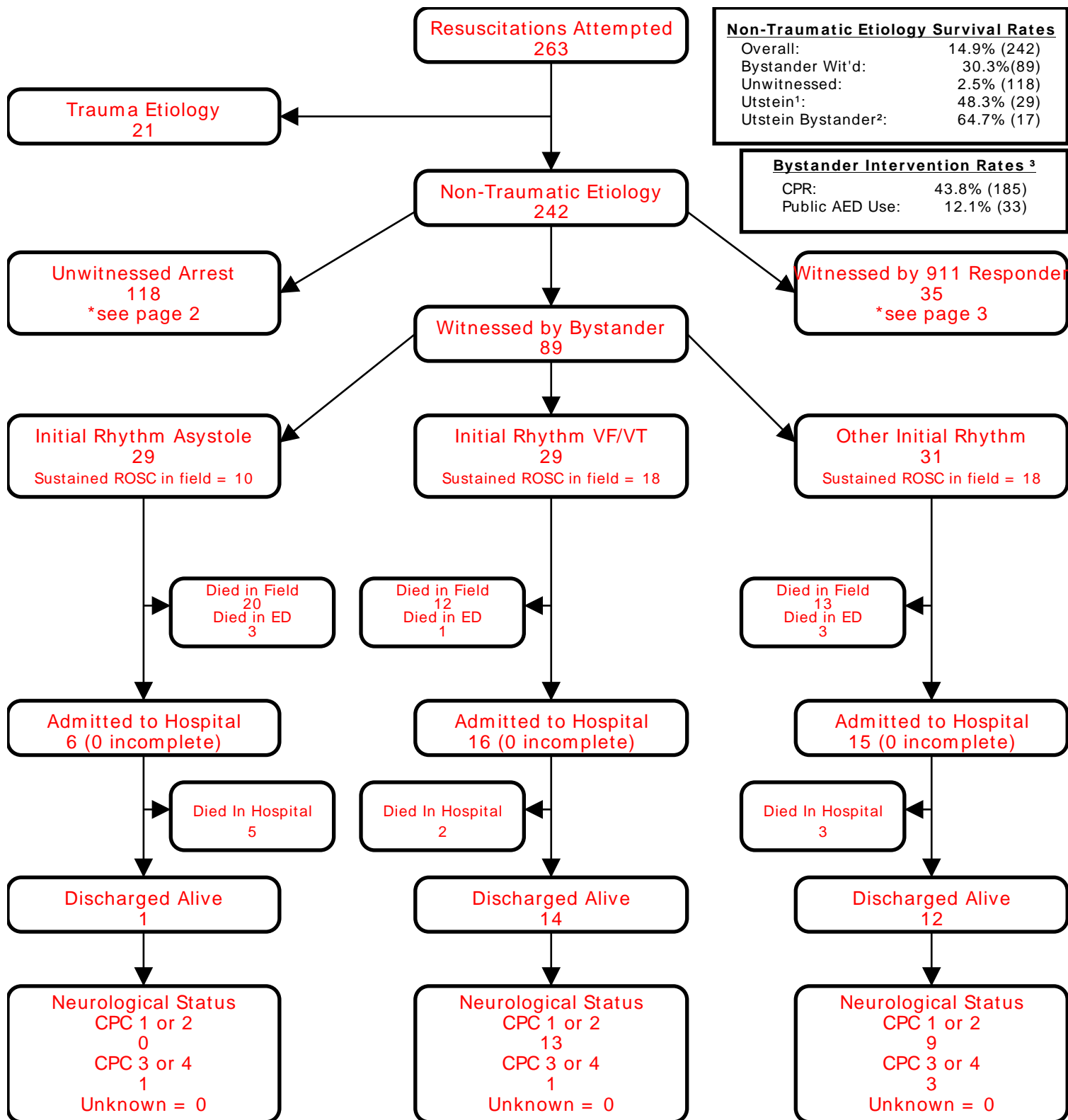
¹Witnessed by bystander and found in a shockable rhythm

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

Utstein Survival Report

All Agencies

Agency Group: Kalamazoo County MCA | Date of Arrest: 01/01/23-12/31/23



Non-Traumatic Etiology Survival Rates	
Overall:	14.9% (242)
Bystander Wit'd:	30.3% (89)
Unwitnessed:	2.5% (118)
Utstein ¹ :	48.3% (29)
Utstein Bystander ² :	64.7% (17)

Bystander Intervention Rates ³	
CPR:	43.8% (185)
Public AED Use:	12.1% (33)

¹Utstein: Witnessed by bystander and found in shockable rhythm.

²Utstein Bystander: Witnessed by bystander, found in shockable rhythm, and received some bystander intervention (CPR and/or AED application).

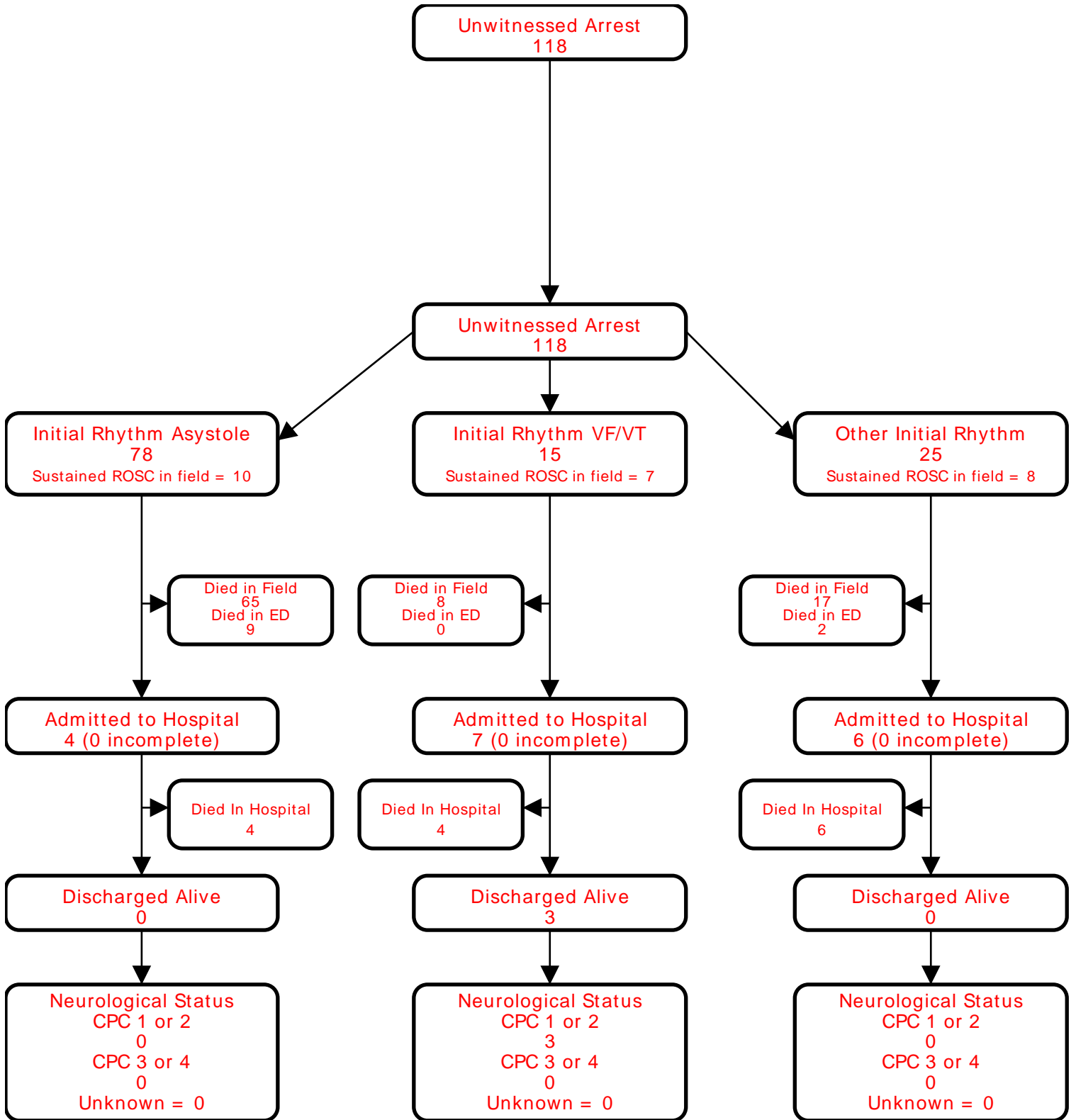
³Bystander CPR rate excludes 911 Responder Witnessed, Nursing Home, and Healthcare Facility arrests. Public AED Use rate excludes 911 Responder Witnessed, Home/Residence, Nursing Home, and Healthcare Facility arrests.

*Only data from the previous calendar year is fully audited. Data from the current calendar year is dynamic.

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