

# CARES Summary Report

## Demographic and Survival Characteristics of OHCA

Non-Traumatic Etiology | Arrest Witness Status: All | Date of Arrest: 01/01/24-12/31/24

| Data   | Montana<br>N=656 | National<br>N=137119 |
|--|------------------|----------------------|
| <b>Age</b>   | <b>N=656</b>     | <b>N=137100</b>      |
| Mean   | 62.3             | 63.1                 |
| Median   | 65.0             | 66.0                 |
| <b>Sex (%)</b>   | <b>N=655</b>     | <b>N=137106</b>      |
| Female   | 214 (32.7)       | 50482 (36.8)         |
| Male   | 441 (67.3)       | 86624 (63.2)         |
| <b>Race (%)</b>  | <b>N=656</b>     | <b>N=137113</b>      |
| American-Indian/Alaskan  | 32 (4.9)         | 560 (0.4)            |
| Asian  | 4 (0.6)          | 4100 (3.0)           |
| Black/African-American   | 7 (1.1)          | 29454 (21.5)         |
| Hispanic/Latino  | 6 (0.9)          | 12726 (9.3)          |
| Native Hawaiian/Pacific Islander                               | 0 (0.0)          | 619 (0.5)            |
| White  | 554 (84.5)       | 71936 (52.5)         |
| Multi-racial   | 2 (0.3)          | 712 (0.5)            |
| Unknown  | 51 (7.8)         | 17006 (12.4)         |
| <b>Location of Arrest (%)</b>                                  | <b>N=656</b>     | <b>N=137117</b>      |
| Home/Residence   | 469 (71.5)       | 97774 (71.3)         |
| Nursing Home   | 35 (5.3)         | 14730 (10.7)         |
| Public Setting   | 152 (23.2)       | 24613 (18.0)         |
| <b>Arrest witnessed (%)</b>                                    | <b>N=656</b>     | <b>N=137118</b>      |
| Bystander Witnessed  | 299 (45.6)       | 51419 (37.5)         |
| Witnessed by 911 Responder                                     | 61 (9.3)         | 16859 (12.3)         |
| Unwitnessed  | 296 (45.1)       | 68840 (50.2)         |
| <b>Who Initiated CPR? (%)</b>                                  | <b>N=656</b>     | <b>N=136786</b>      |
| Not Applicable   | 0 (0.0)          | 42 (0.0)             |
| Bystander  | 309 (47.1)       | 57289 (41.9)         |
| First Responder  | 250 (38.1)       | 42529 (31.1)         |
| Emergency Medical Services (EMS)                               | 97 (14.8)        | 36926 (27.0)         |
| <b>Was an AED applied prior to EMS arrival? (%)</b>            | <b>N=656</b>     | <b>N=137116</b>      |
| Yes  | 252 (38.4)       | 40031 (29.2)         |
| No   | 404 (61.6)       | 97085 (70.8)         |
| <b>Who first applied automated external defibrillator? (%)</b> | <b>N=280</b>     | <b>N=40654</b>       |
| Bystander  | 35 (12.5)        | 9251 (22.8)          |
| First Responder  | 245 (87.5)       | 31403 (77.2)         |
| <b>Who first defibrillated the patient?* (%)</b>               | <b>N=656</b>     | <b>N=137109</b>      |
| Not Applicable   | 452 (68.9)       | 95677 (69.8)         |
| Bystander  | 11 (1.7)         | 2393 (1.7)           |
| First Responder  | 91 (13.9)        | 9797 (7.1)           |
| Responding EMS Personnel                                       | 102 (15.5)       | 29242 (21.3)         |
| <b>First Arrest Rhythm (%)</b>                                 | <b>N=656</b>     | <b>N=137101</b>      |
| Vfib/Vtach/Unknown Shockable Rhythm                            | 123 (18.8)       | 24747 (18.1)         |
| Asystole   | 329 (50.2)       | 69425 (50.6)         |
| Idioventricular/PEA  | 138 (21.0)       | 30865 (22.5)         |
| Unknown Unshockable Rhythm                                     | 66 (10.1)        | 12064 (8.8)          |
| <b>Sustained ROSC (%)</b>                                      | <b>N=649</b>     | <b>N=137071</b>      |
| Yes  | 138 (21.3)       | 34752 (25.4)         |
| No   | 511 (78.7)       | 102319 (74.6)        |
| <b>Was hypothermia care provided in the field? (%)</b>         | <b>N=653</b>     | <b>N=137093</b>      |
| Yes  | 6 (0.9)          | 4384 (3.2)           |
| No   | 647 (99.1)       | 132709 (96.8)        |
| <b>Pre-hospital Outcome (%)</b>                                | <b>N=656</b>     | <b>N=137119</b>      |
| Pronounced in the Field  | 325 (49.5)       | 59026 (43.0)         |
| Pronounced in ED   | 118 (18.0)       | 13579 (9.9)          |
| Ongoing Resuscitation in ED                                    | 213 (32.5)       | 64514 (47.0)         |
| <b>Overall Survival (%)</b>                                    | <b>N=656</b>     | <b>N=137119</b>      |
| Overall Survival to Hospital Admission                         | 134 (20.4)       | 35181 (25.7)         |
| Overall Survival to Hospital Discharge                         | 74 (11.3)        | 14390 (10.5)         |
| With Good or Moderate Cerebral Performance                     | 66 (10.1)        | 11280 (8.2)          |
| Missing hospital outcome                                       | 1                | 334                  |
| <b>Utstein<sup>1</sup> Survival (%)</b>                        | <b>N=80</b>      | <b>N=14844</b>       |
|  | 36.2%            | 33.4%                |
| <b>Utstein Bystander<sup>2</sup> Survival (%)</b>              | <b>N=46</b>      | <b>N=9007</b>        |
|  | 39.1%            | 37.6%                |

*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.*

*<sup>1</sup>Witnessed by bystander and found in a shockable rhythm*

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

# CARES Survival Report

Incident State: MT | Date of Arrest: 01/01/24 - 12/31/24 | Non-Traumatic Etiology

|   | OVERALL<br>N = 655 |                    |                                    |                                    |  |
|---|--------------------|--------------------|------------------------------------|------------------------------------|--|
|   | Total N (%)        | Sustained ROSC (%) | Survival to hospital admission (%) | Survival to hospital discharge (%) | Survival to discharge with CPC 1 or 2 <sup>†</sup> (%) |
| <b>Total</b>  | 655                | 137 (20.9)         | 134 (20.5)                         | 74 (11.3)                          | 66 (10.1)  |
| <b>Location of Arrest</b>   |                    |                    |                                    |                                    |  |
| Home/Residence  | 469 (71.6)         | 88 (18.8)          | 81 (17.3)                          | 39 (8.3)                           | 36 (7.7)   |
| Nursing Home  | 35 (5.3)           | 6 (17.1)           | 4 (11.4)                           | 3 (8.6)                            | 1 (2.9)  |
| Public Setting  | 151 (23.1)         | 43 (28.5)          | 49 (32.5)                          | 32 (21.2)                          | 29 (19.2)  |
| <b>Arrest Witnessed Status</b>  |                    |                    |                                    |                                    |  |
| Unwitnessed   | 296 (45.2)         | 40 (13.5)          | 38 (12.8)                          | 17 (5.7)                           | 14 (4.7)   |
| Bystander witnessed   | 298 (45.5)         | 82 (27.5)          | 77 (25.8)                          | 46 (15.4)                          | 43 (14.4)  |
| 911 Responder witnessed   | 61 (9.3)           | 15 (24.6)          | 19 (31.1)                          | 11 (18.0)                          | 9 (14.8)   |
| <b>Bystander CPR*</b>   |                    |                    |                                    |                                    |  |
| Bystander CPR   | 306 (51.5)         | 74 (24.2)          | 67 (21.9)                          | 38 (12.4)                          | 33 (10.8)  |
| No Bystander CPR  | 288 (48.5)         | 48 (16.7)          | 48 (16.7)                          | 25 (8.7)                           | 24 (8.3)   |
| Bystander CPR (excludes nursing home/healthcare facility events)      | 270 (49.2)         | 62 (23.0)          | 59 (21.9)                          | 33 (12.2)                          | 31 (11.5)  |
| No Bystander CPR (excludes nursing home/healthcare facility events)   | 279 (50.8)         | 48 (17.2)          | 48 (17.2)                          | 25 (9.0)                           | 24 (8.6)   |
| <b>Initial Arrest Rhythm</b>  |                    |                    |                                    |                                    |  |
| Shockable   | 122 (18.6)         | 46 (37.7)          | 48 (39.3)                          | 38 (31.1)                          | 35 (28.7)  |
| Non-shockable   | 533 (81.4)         | 91 (17.1)          | 86 (16.1)                          | 36 (6.8)                           | 31 (5.8)   |
| <b>AED Use</b>  |                    |                    |                                    |                                    |  |
| Bystander AED use*  | 34 (5.7)           | 11 (32.4)          | 9 (26.5)                           | 6 (17.6)                           | 5 (14.7)   |
| Bystander AED use* (excludes nursing home/healthcare facility events) | 15 (2.7)           | 3 (20.0)           | 5 (33.3)                           | 3 (20.0)                           | 3 (20.0)   |
| Trained provider (First Responder) AED use                            | 245 (37.4)         | 49 (20.0)          | 46 (18.8)                          | 30 (12.2)                          | 28 (11.4)  |
| <b>Utstein</b>  |                    |                    |                                    |                                    |  |
| Witnessed and shockable   | 91 (13.9)          | 40 (44.0)          | 41 (45.1)                          | 33 (36.3)                          | 31 (34.1)  |
| Bystander witnessed and shockable                                     | 79 (12.1)          | 35 (44.3)          | 36 (45.6)                          | 29 (36.7)                          | 28 (35.4)  |
| <b>Hypothermia</b>  |                    |                    |                                    |                                    |  |
| Field hypothermia   | 6 (0.9)            | 4 (66.7)           | 6 (100.0)                          | 4 (66.7)                           | 2 (33.3)   |
| In-hospital hypothermia/TTM (among admitted patients)                 | 29 (21.6)          | --                 | --                                 | 14 (48.3)                          | 11 (37.9)  |

**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.

NOTE: Analysis excludes patients with missing hospital outcome (N=1).

\*Bystander CPR and bystander AED use calculations exclude 911 Responder witnessed events.

<sup>†</sup>CPC missing for 0 patients.

# CARES Survival Report

Incident State: MT | Date of Arrest: 01/01/24 - 12/31/24 | Non-Traumatic Etiology

| Age = <1 years<br>N = 11  |             |                    |                                    |                                    |  |
|---|-------------|--------------------|------------------------------------|------------------------------------|--|
|   | Total N (%) | Sustained ROSC (%) | Survival to hospital admission (%) | Survival to hospital discharge (%) | Survival to discharge with CPC 1 or 2 <sup>†</sup> (%) |
| <b>Total</b>  | 11          | 2 (18.2)           | 2 (18.2)                           | 2 (18.2)                           | 2 (18.2)   |
| <b>Location of Arrest</b>   |             |                    |                                    |                                    |  |
| Home/Residence  | 9 (81.8)    | 2 (22.2)           | 2 (22.2)                           | 2 (22.2)                           | 2 (22.2)   |
| Nursing Home  | 0 (0.0)     | 0 (NaN)            | 0 (NaN)                            | 0 (NaN)                            | 0 (NaN)  |
| Public Setting  | 2 (18.2)    | 0 (0.0)            | 0 (0.0)                            | 0 (0.0)                            | 0 (0.0)  |
| <b>Arrest Witnessed Status</b>  |             |                    |                                    |                                    |  |
| Unwitnessed   | 8 (72.7)    | 1 (12.5)           | 1 (12.5)                           | 1 (12.5)                           | 1 (12.5)   |
| Bystander witnessed   | 3 (27.3)    | 1 (33.3)           | 1 (33.3)                           | 1 (33.3)                           | 1 (33.3)   |
| 911 Responder witnessed   | 0 (0.0)     | 0 (NaN)            | 0 (NaN)                            | 0 (NaN)                            | 0 (NaN)  |
| <b>Bystander CPR*</b>   |             |                    |                                    |                                    |  |
| Bystander CPR   | 4 (36.4)    | 1 (25.0)           | 1 (25.0)                           | 1 (25.0)                           | 1 (25.0)   |
| No Bystander CPR  | 7 (63.6)    | 1 (14.3)           | 1 (14.3)                           | 1 (14.3)                           | 1 (14.3)   |
| Bystander CPR (excludes nursing home/healthcare facility events)      | 4 (36.4)    | 1 (25.0)           | 1 (25.0)                           | 1 (25.0)                           | 1 (25.0)   |
| No Bystander CPR (excludes nursing home/healthcare facility events)   | 7 (63.6)    | 1 (14.3)           | 1 (14.3)                           | 1 (14.3)                           | 1 (14.3)   |
| <b>Initial Arrest Rhythm</b>  |             |                    |                                    |                                    |  |
| Shockable   | 1 (9.1)     | 1 (100.0)          | 1 (100.0)                          | 1 (100.0)                          | 1 (100.0)  |
| Non-shockable   | 10 (90.9)   | 1 (10.0)           | 1 (10.0)                           | 1 (10.0)                           | 1 (10.0)   |
| <b>AED Use</b>  |             |                    |                                    |                                    |  |
| Bystander AED use*  | 1 (9.1)     | 0 (0.0)            | 0 (0.0)                            | 0 (0.0)                            | 0 (0.0)  |
| Bystander AED use* (excludes nursing home/healthcare facility events) | 1 (9.1)     | 0 (0.0)            | 0 (0.0)                            | 0 (0.0)                            | 0 (0.0)  |
| Trained provider (First Responder) AED use                            | 4 (36.4)    | 2 (50.0)           | 2 (50.0)                           | 2 (50.0)                           | 2 (50.0)   |
| <b>Utstein</b>  |             |                    |                                    |                                    |  |
| Witnessed and shockable   | 0 (0.0)     | 0 (NaN)            | 0 (NaN)                            | 0 (NaN)                            | 0 (NaN)  |
| Bystander witnessed and shockable                                     | 0 (0.0)     | 0 (NaN)            | 0 (NaN)                            | 0 (NaN)                            | 0 (NaN)  |
| <b>Hypothermia</b>  |             |                    |                                    |                                    |  |
| Field hypothermia   | 0 (0.0)     | 0 (NaN)            | 0 (NaN)                            | 0 (NaN)                            | 0 (NaN)  |
| In-hospital hypothermia/TTM (among admitted patients)                 | 0 (0.0)     | --                 | --                                 | 0 (NaN)                            | 0 (NaN)  |

**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.

NOTE: Analysis excludes patients with missing hospital outcome (N=0).

\*Bystander CPR and bystander AED use calculations exclude 911 Responder witnessed events.

<sup>†</sup>CPC missing for 0 patients.

# CARES Survival Report

Incident State: MT | Date of Arrest: 01/01/24 - 12/31/24 | Non-Traumatic Etiology

| Age = 1 - 12 years<br>N = 3   |             |                    |                                    |                                    |  |
|---|-------------|--------------------|------------------------------------|------------------------------------|--|
|   | Total N (%) | Sustained ROSC (%) | Survival to hospital admission (%) | Survival to hospital discharge (%) | Survival to discharge with CPC 1 or 2 <sup>†</sup> (%) |
| <b>Total</b>  | 3           | 0 (0.0)            | 0 (0.0)                            | 0 (0.0)                            | 0 (0.0)  |
| <b>Location of Arrest</b>   |             |                    |                                    |                                    |  |
| Home/Residence  | 3 (100.0)   | 0 (0.0)            | 0 (0.0)                            | 0 (0.0)                            | 0 (0.0)  |
| Nursing Home  | 0 (0.0)     | 0 (NaN)            | 0 (NaN)                            | 0 (NaN)                            | 0 (NaN)  |
| Public Setting  | 0 (0.0)     | 0 (NaN)            | 0 (NaN)                            | 0 (NaN)                            | 0 (NaN)  |
| <b>Arrest Witnessed Status</b>  |             |                    |                                    |                                    |  |
| Unwitnessed   | 3 (100.0)   | 0 (0.0)            | 0 (0.0)                            | 0 (0.0)                            | 0 (0.0)  |
| Bystander witnessed   | 0 (0.0)     | 0 (NaN)            | 0 (NaN)                            | 0 (NaN)                            | 0 (NaN)  |
| 911 Responder witnessed   | 0 (0.0)     | 0 (NaN)            | 0 (NaN)                            | 0 (NaN)                            | 0 (NaN)  |
| <b>Bystander CPR*</b>   |             |                    |                                    |                                    |  |
| Bystander CPR   | 1 (33.3)    | 0 (0.0)            | 0 (0.0)                            | 0 (0.0)                            | 0 (0.0)  |
| No Bystander CPR  | 2 (66.7)    | 0 (0.0)            | 0 (0.0)                            | 0 (0.0)                            | 0 (0.0)  |
| Bystander CPR (excludes nursing home/healthcare facility events)      | 1 (33.3)    | 0 (0.0)            | 0 (0.0)                            | 0 (0.0)                            | 0 (0.0)  |
| No Bystander CPR (excludes nursing home/healthcare facility events)   | 2 (66.7)    | 0 (0.0)            | 0 (0.0)                            | 0 (0.0)                            | 0 (0.0)  |
| <b>Initial Arrest Rhythm</b>  |             |                    |                                    |                                    |  |
| Shockable   | 0 (0.0)     | 0 (NaN)            | 0 (NaN)                            | 0 (NaN)                            | 0 (NaN)  |
| Non-shockable   | 3 (100.0)   | 0 (0.0)            | 0 (0.0)                            | 0 (0.0)                            | 0 (0.0)  |
| <b>AED Use</b>  |             |                    |                                    |                                    |  |
| Bystander AED use*  | 0 (0.0)     | 0 (NaN)            | 0 (NaN)                            | 0 (NaN)                            | 0 (NaN)  |
| Bystander AED use* (excludes nursing home/healthcare facility events) | 0 (0.0)     | 0 (NaN)            | 0 (NaN)                            | 0 (NaN)                            | 0 (NaN)  |
| Trained provider (First Responder) AED use                            | 1 (33.3)    | 0 (0.0)            | 0 (0.0)                            | 0 (0.0)                            | 0 (0.0)  |
| <b>Utstein</b>  |             |                    |                                    |                                    |  |
| Witnessed and shockable   | 0 (0.0)     | 0 (NaN)            | 0 (NaN)                            | 0 (NaN)                            | 0 (NaN)  |
| Bystander witnessed and shockable                                     | 0 (0.0)     | 0 (NaN)            | 0 (NaN)                            | 0 (NaN)                            | 0 (NaN)  |
| <b>Hypothermia</b>  |             |                    |                                    |                                    |  |
| Field hypothermia   | 0 (0.0)     | 0 (NaN)            | 0 (NaN)                            | 0 (NaN)                            | 0 (NaN)  |
| In-hospital hypothermia/TTM (among admitted patients)                 | 0 (NaN)     | --                 | --                                 | 0 (NaN)                            | 0 (NaN)  |

**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.

NOTE: Analysis excludes patients with missing hospital outcome (N=0).

\*Bystander CPR and bystander AED use calculations exclude 911 Responder witnessed events.

<sup>†</sup>CPC missing for 0 patients.

# CARES Survival Report

Incident State: MT | Date of Arrest: 01/01/24 - 12/31/24 | Non-Traumatic Etiology

| Age = 13 - 18 years<br>N = 3  |             |                    |                                    |                                    |  |
|---|-------------|--------------------|------------------------------------|------------------------------------|--|
|   | Total N (%) | Sustained ROSC (%) | Survival to hospital admission (%) | Survival to hospital discharge (%) | Survival to discharge with CPC 1 or 2 <sup>†</sup> (%) |
| <b>Total</b>  | 3           | 0 (0.0)            | 2 (66.7)                           | 1 (33.3)                           | 1 (33.3)   |
| <b>Location of Arrest</b>   |             |                    |                                    |                                    |  |
| Home/Residence  | 2 (66.7)    | 0 (0.0)            | 1 (50.0)                           | 0 (0.0)                            | 0 (0.0)  |
| Nursing Home  | 0 (0.0)     | 0 (NaN)            | 0 (NaN)                            | 0 (NaN)                            | 0 (NaN)  |
| Public Setting  | 1 (33.3)    | 0 (0.0)            | 1 (100.0)                          | 1 (100.0)                          | 1 (100.0)  |
| <b>Arrest Witnessed Status</b>  |             |                    |                                    |                                    |  |
| Unwitnessed   | 0 (0.0)     | 0 (NaN)            | 0 (NaN)                            | 0 (NaN)                            | 0 (NaN)  |
| Bystander witnessed   | 3 (100.0)   | 0 (0.0)            | 2 (66.7)                           | 1 (33.3)                           | 1 (33.3)   |
| 911 Responder witnessed   | 0 (0.0)     | 0 (NaN)            | 0 (NaN)                            | 0 (NaN)                            | 0 (NaN)  |
| <b>Bystander CPR*</b>   |             |                    |                                    |                                    |  |
| Bystander CPR   | 2 (66.7)    | 0 (0.0)            | 1 (50.0)                           | 1 (50.0)                           | 1 (50.0)   |
| No Bystander CPR  | 1 (33.3)    | 0 (0.0)            | 1 (100.0)                          | 0 (0.0)                            | 0 (0.0)  |
| Bystander CPR (excludes nursing home/healthcare facility events)      | 2 (66.7)    | 0 (0.0)            | 1 (50.0)                           | 1 (50.0)                           | 1 (50.0)   |
| No Bystander CPR (excludes nursing home/healthcare facility events)   | 1 (33.3)    | 0 (0.0)            | 1 (100.0)                          | 0 (0.0)                            | 0 (0.0)  |
| <b>Initial Arrest Rhythm</b>  |             |                    |                                    |                                    |  |
| Shockable   | 1 (33.3)    | 0 (0.0)            | 1 (100.0)                          | 1 (100.0)                          | 1 (100.0)  |
| Non-shockable   | 2 (66.7)    | 0 (0.0)            | 1 (50.0)                           | 0 (0.0)                            | 0 (0.0)  |
| <b>AED Use</b>  |             |                    |                                    |                                    |  |
| Bystander AED use*  | 1 (33.3)    | 0 (0.0)            | 1 (100.0)                          | 1 (100.0)                          | 1 (100.0)  |
| Bystander AED use* (excludes nursing home/healthcare facility events) | 1 (33.3)    | 0 (0.0)            | 1 (100.0)                          | 1 (100.0)                          | 1 (100.0)  |
| Trained provider (First Responder) AED use                            | 2 (66.7)    | 0 (0.0)            | 1 (50.0)                           | 0 (0.0)                            | 0 (0.0)  |
| <b>Utstein</b>  |             |                    |                                    |                                    |  |
| Witnessed and shockable   | 1 (33.3)    | 0 (0.0)            | 1 (100.0)                          | 1 (100.0)                          | 1 (100.0)  |
| Bystander witnessed and shockable                                     | 1 (33.3)    | 0 (0.0)            | 1 (100.0)                          | 1 (100.0)                          | 1 (100.0)  |
| <b>Hypothermia</b>  |             |                    |                                    |                                    |  |
| Field hypothermia   | 0 (0.0)     | 0 (NaN)            | 0 (NaN)                            | 0 (NaN)                            | 0 (NaN)  |
| In-hospital hypothermia/TTM (among admitted patients)                 | 1 (50.0)    | --                 | --                                 | 1 (100.0)                          | 1 (100.0)  |

**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.

NOTE: Analysis excludes patients with missing hospital outcome (N=1).

\*Bystander CPR and bystander AED use calculations exclude 911 Responder witnessed events.

<sup>†</sup>CPC missing for 0 patients.

# CARES Survival Report

Incident State: MT | Date of Arrest: 01/01/24 - 12/31/24 | Non-Traumatic Etiology

| Age = >18 years<br>N = 638  |             |                    |                                    |                                    |  |
|---|-------------|--------------------|------------------------------------|------------------------------------|--|
|   | Total N (%) | Sustained ROSC (%) | Survival to hospital admission (%) | Survival to hospital discharge (%) | Survival to discharge with CPC 1 or 2 <sup>†</sup> (%) |
| <b>Total</b>  | 638         | 135 (21.2)         | 130 (20.4)                         | 71 (11.1)                          | 63 (9.9)   |
| <b>Location of Arrest</b>   |             |                    |                                    |                                    |  |
| Home/Residence  | 455 (71.3)  | 86 (18.9)          | 78 (17.1)                          | 37 (8.1)                           | 34 (7.5)   |
| Nursing Home  | 35 (5.5)    | 6 (17.1)           | 4 (11.4)                           | 3 (8.6)                            | 1 (2.9)  |
| Public Setting  | 148 (23.2)  | 43 (29.1)          | 48 (32.4)                          | 31 (20.9)                          | 28 (18.9)  |
| <b>Arrest Witnessed Status</b>  |             |                    |                                    |                                    |  |
| Unwitnessed   | 285 (44.7)  | 39 (13.7)          | 37 (13.0)                          | 16 (5.6)                           | 13 (4.6)   |
| Bystander witnessed   | 292 (45.8)  | 81 (27.7)          | 74 (25.3)                          | 44 (15.1)                          | 41 (14.0)  |
| 911 Responder witnessed   | 61 (9.6)    | 15 (24.6)          | 19 (31.1)                          | 11 (18.0)                          | 9 (14.8)   |
| <b>Bystander CPR*</b>   |             |                    |                                    |                                    |  |
| Bystander CPR   | 299 (51.8)  | 73 (24.4)          | 65 (21.7)                          | 36 (12.0)                          | 31 (10.4)  |
| No Bystander CPR  | 278 (48.2)  | 47 (16.9)          | 46 (16.5)                          | 24 (8.6)                           | 23 (8.3)   |
| Bystander CPR (excludes nursing home/healthcare facility events)      | 263 (49.4)  | 61 (23.2)          | 57 (21.7)                          | 31 (11.8)                          | 29 (11.0)  |
| No Bystander CPR (excludes nursing home/healthcare facility events)   | 269 (50.6)  | 47 (17.5)          | 46 (17.1)                          | 24 (8.9)                           | 23 (8.6)   |
| <b>Initial Arrest Rhythm</b>  |             |                    |                                    |                                    |  |
| Shockable   | 120 (18.8)  | 45 (37.5)          | 46 (38.3)                          | 36 (30.0)                          | 33 (27.5)  |
| Non-shockable   | 518 (81.2)  | 90 (17.4)          | 84 (16.2)                          | 35 (6.8)                           | 30 (5.8)   |
| <b>AED Use</b>  |             |                    |                                    |                                    |  |
| Bystander AED use*  | 32 (5.5)    | 11 (34.4)          | 8 (25.0)                           | 5 (15.6)                           | 4 (12.5)   |
| Bystander AED use* (excludes nursing home/healthcare facility events) | 13 (2.4)    | 3 (23.1)           | 4 (30.8)                           | 2 (15.4)                           | 2 (15.4)   |
| Trained provider (First Responder) AED use                            | 238 (37.3)  | 47 (19.7)          | 43 (18.1)                          | 28 (11.8)                          | 26 (10.9)  |
| <b>Utstein</b>  |             |                    |                                    |                                    |  |
| Witnessed and shockable   | 90 (14.1)   | 40 (44.4)          | 40 (44.4)                          | 32 (35.6)                          | 30 (33.3)  |
| Bystander witnessed and shockable                                     | 78 (12.2)   | 35 (44.9)          | 35 (44.9)                          | 28 (35.9)                          | 27 (34.6)  |
| <b>Hypothermia</b>  |             |                    |                                    |                                    |  |
| Field hypothermia   | 6 (0.9)     | 4 (66.7)           | 6 (100.0)                          | 4 (66.7)                           | 2 (33.3)   |
| In-hospital hypothermia/TTM (among admitted patients)                 | 28 (21.5)   | --                 | --                                 | 13 (46.4)                          | 10 (35.7)  |

**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.

NOTE: Analysis excludes patients with missing hospital outcome (N=0).

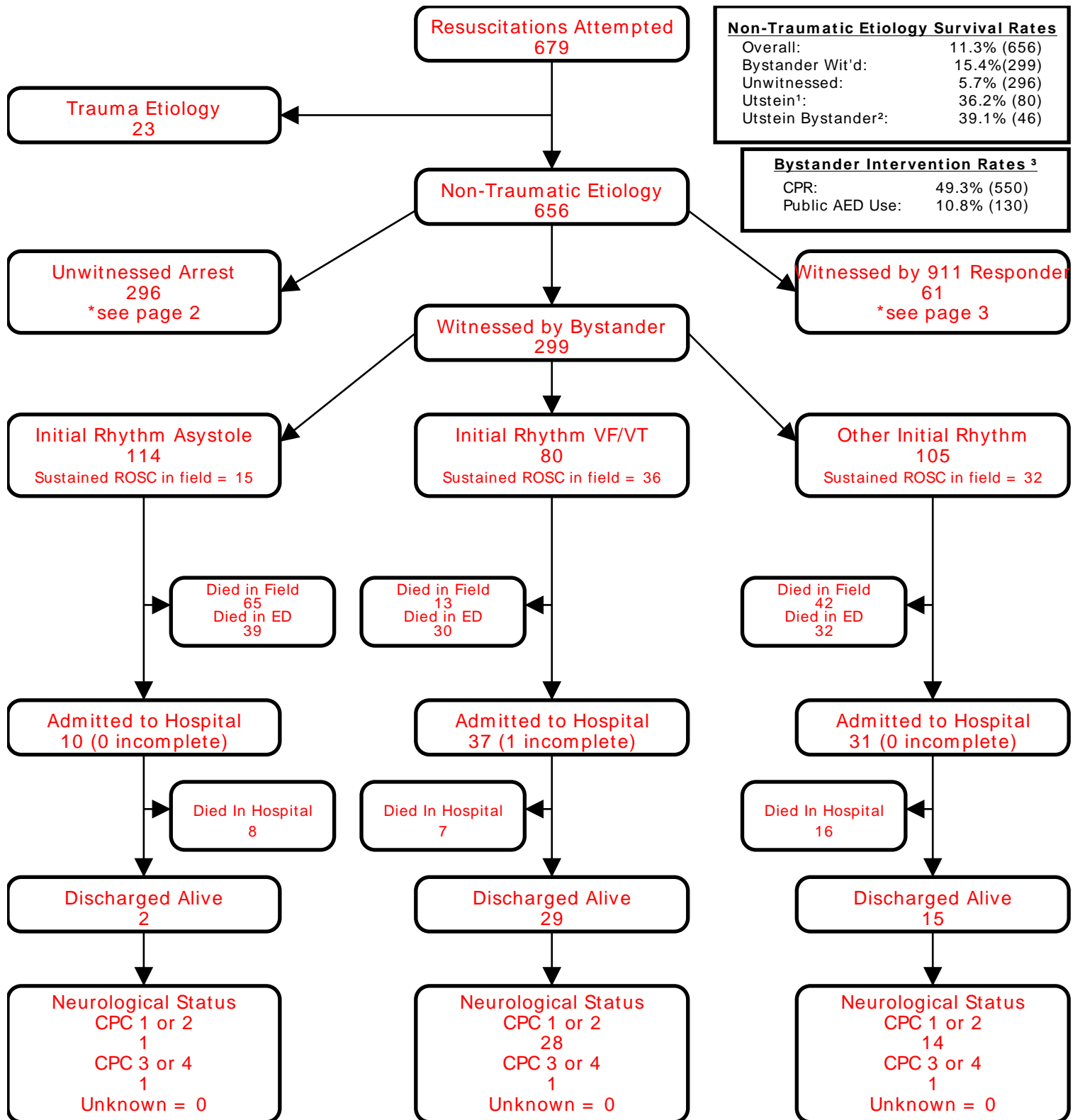
\*Bystander CPR and bystander AED use calculations exclude 911 Responder witnessed events.

<sup>†</sup>CPC missing for 0 patients.

# Utstein Survival Report

All Agencies

Incident State: MT | Date of Arrest: 01/01/24 - 12/31/24



<sup>1</sup>Utstein: Witnessed by bystander and found in shockable rhythm.

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

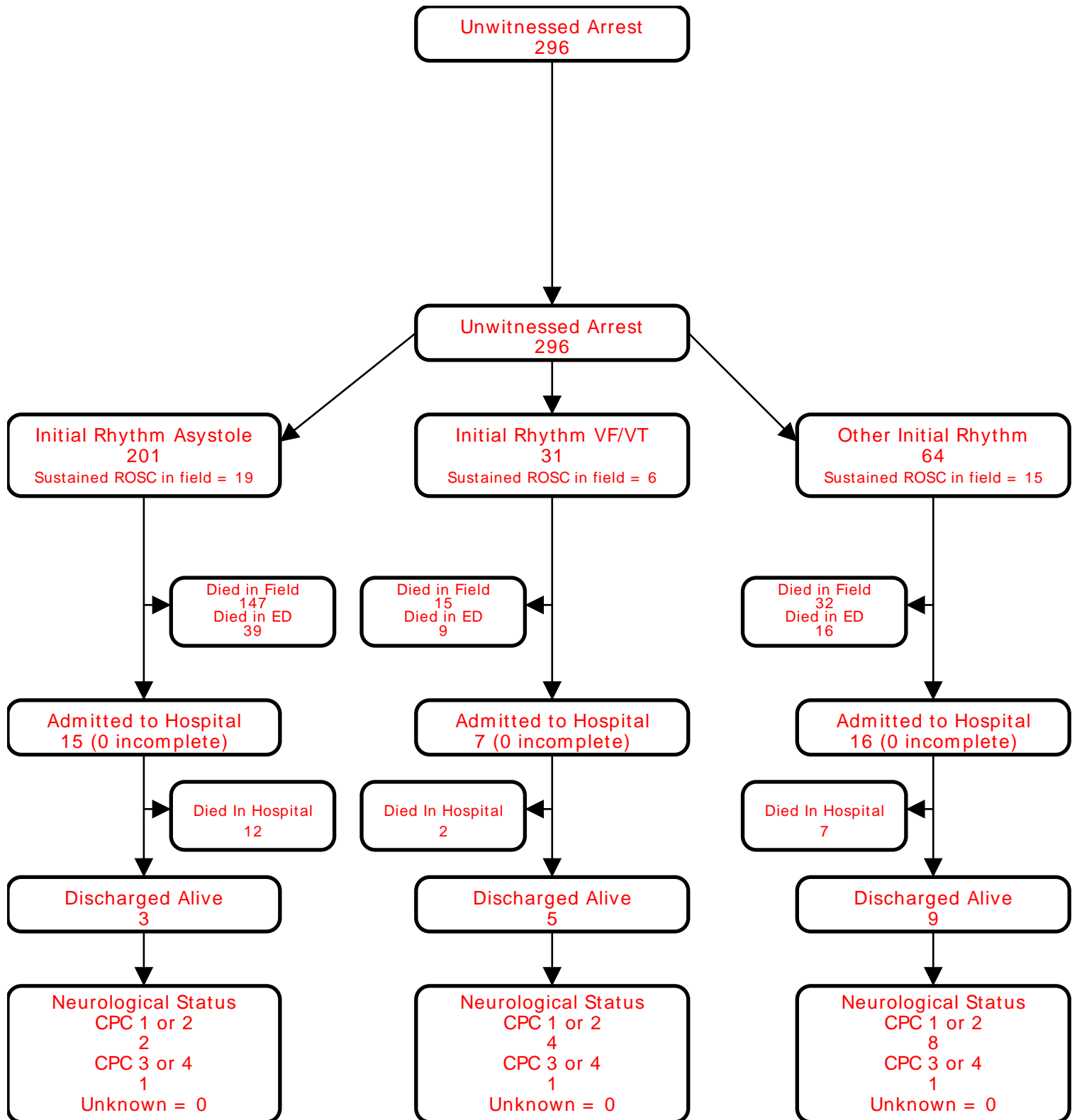
<sup>3</sup>Bystander CPR rate excludes 911 Responder Witnessed, Nursing Home, and Healthcare Facility arrests. Public AED Use rate excludes 911 Responder Witnessed, Home/Residence, Nursing Home, and Healthcare Facility arrests.

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

# Utstein Survival Report

All Agencies

Incident State: MT | Date of Arrest: 01/01/24 - 12/31/24



# Utstein Survival Report

All Agencies

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