## **CARES Summary Report**

## Demographic and Survival Characteristics of OHCA

Non-Traumatic Etiology | Arrest Witness Status: All | Date of Arrest: 01/01/13 - 12/31/23

| Montana   N=4240   |   |                   |
|--|---|-------------------|
| Median         60.5           Median         64.0           Gender (%)         N=4240           Female         1498 (35.3)           Male         2742 (64.7)           Race (%)         N=4239           American-Indian/Alaskan         302 (7.1)           Asian         12 (0.3)           Black/African-American         27 (0.6)           Hispanic/Latino         52 (1.2)           Native Hawaiian/Pacific Islander         9 (0.2)           White         3058 (7.1)           Multi-racial         1 (0.0)           Unknown         778 (18.4)           Location of Arrest (%)         N=4240           Home/Residence         3113 (73.4)           Hursing Home         199 (4.7)           Public Setting         928 (21.9)           Arrest witnessed (%)         N=4239           Bystander Witnessed         1689 (39.8)           Witnessed by 911 Responder         469 (11.1)           Unwing Home         496 (11.1)           Unwing Home         198 (4.7)           Witnessed by 911 Responder         469 (11.1)           Unwing Home         198 (4.6)           Witnessed by 911 Responder         198 (4.6)           W  | Data Caracteristics (Caracteristics Caracteristics | Montana<br>N=4240 |
| Median         64.0           Gender (%)         N=4240           Female         1498 (35.3)           Male         2742 (64.7)           Race (%)         N=4239           American-Indian/Alaskan         302 (7.1)           Asian         12 (0.3)           Black/African-American         27 (0.6)           Hispanic/Latino         52 (1.2)           Native Hawaiian/Pacific Islander         9 (0.2)           White         3058 (72.1)           Multi-racial         1 (0.0)           Unknown         778 (18.4)           Location of Arrest (%)         N=4240           Home/Residence         3113 (73.4)           Nursing Home         199 (4.7)           Public Setting         928 (21.9)           Arrest witnessed (%)         N=4239           Bystander Witnessed         1689 (39.8)           Witnessed by 911 Responder         496 (11.1)           Unwitnessed by 911 Responder         496 (11.1)           Unwitnessed by 911 Responder         1889 (39.8)           Witnessed by 911 Responder         190 (45.3)           Firist Responder         1369 (32.3)           Emergency Medical Services (EMS)         949 (22.4)           Was an AED appl   | Age   |                   |
| Gender (%)         N=4240           Female         1498 (35.3)           Male         2742 (64.7)           Race (%)         N=4239           American-Indian/Alaskan         302 (7.1)           Asian         12 (0.3)           Black/African-American         27 (0.6)           Hispanic/Latino         52 (1.2)           Native Hawaiian/Pacific Islander         9 (0.2)           White         3058 (72.1)           Multi-racial         1 (0.0)           Unknown         778 (18.4)           Location of Arrest (%)         N=4240           Home/Residence         3113 (73.4)           Nursing Home         199 (4.7)           Public Setting         928 (21.9)           Arrest witnessed (%)         N=4239           Bystander Witnessed         1689 (39.8)           Witnessed by 911 Responder         469 (11.1)           Unwinessed         2081 (49.1)           Who Initiated CPR? (%)         N=4249           Not Applicable         2 (0.0)           Bystander         1920 (45.3)           First Responder         1930 (32.3)           Emergency Medical Services (EMS)         949 (22.4)           Was an AED applied prior to EMS arrival? (%)  |   |                   |
| Female   |   |                   |
| Male         2742 (64.7)           Race (%)         N=4239           American-Indian/Alaskan         302 (7.1)           Asian         12 (0.3)           Black/African-American         27 (0.6)           Hispanic/Latino         52 (1.2)           Native Hawaiian/Pacific Islander         9 (0.2)           White         3058 (72.1)           Multi-racial         1 (0.0)           Unknown         778 (18.4)           Location of Arrest (%)         N=4240           Home/Residence         3113 (73.4)           Nursing Home         199 (4.7)           Public Setting         928 (21.9)           Arrest witnessed (%)         N=4239           Bystander Witnessed         1889 (39.8)           Winessed by 911 Responder         469 (11.1)           Unwinessed         2081 (49.1)           Who Initiated CPR? (%)         N=4240           Not Applicable         2 (0.0)           Bystander         1920 (45.3)           First Responder         1369 (32.3)           Emergency Medical Services (EMS)         949 (22.4)           Was an AED applied prior to EMS arrival? (%)         N=4240           Yes         1517 (35.8)           No <td< td=""><td>. ,</td><td></td></td<>   | . ,   |                   |
| American-Indian/Alaskan 302 (7.1) Asian 12 (0.3) Black/African-American 27 (0.6) Hispanic/Latino 52 (1.2) Native Hawaiian/Pacific Islander 9 (0.2) White 3058 (72.1) Multi-racial 1 (0.0) Unknown 778 (18.4) Location of Arrest (%) N=4240 Home/Residence 3113 (73.4) Nursing Home 199 (4.7) Public Setting 928 (21.9) Arrest witnessed (%) N=4239 Bystander Witnessed 1689 (39.8) Witnessed by 911 Responder 469 (11.1) Unwitnessed by 911 Responder 469 (11.1) Unwitnessed 928 (21.9) Not Applicable 2 (0.0) Bystander First Responder 1920 (45.3) First Responder 1920 (45.3) First Responder 1920 (45.3) First Responder 1920 (45.3) First Arrest witnessed (%) Was an AED applied prior to EMS arrival? (%) N=4240 Ves 1517 (35.8) No 2723 (64.2) Who first applied automated external defibrillator? (%) Who first defibrillated the patient?* (%) N=1515 Bystander 1355 (89.4) Who first defibrillated the patient?* (%) N=4240 Not Applicable 2866 (67.6) Bystander 67 (1.6) First Responder 418 (9.9) Responding EMS Personnel 889 (21.0) First Arrest Rhythm (%) N=4240 Not Applicable 389 (21.0) First Arrest Rhythm (%) N=4240 Not Applicable 444 (19.9) Unknown Unshockable Rhythm 435 (10.3) Sustained ROSC (%) N=4240 No Asystole 1956 (46.1) Idioventricular/PEA 844 (19.9) Unknown Unshockable Rhythm 435 (10.3) Sustained ROSC (%) N=4240 No N=4240 No Nesponding EMS Personnel 689 (21.0) First Arrest Rhythm (%) N=4240 No Nesponding EMS Personnel 775 (41.9) Pronounced in the Field 7775 (41.9) Pronounced in the Field 7775 (41.9) Pronounced in EP 688 (15.5) Ongoing Resuscitation in ED 1807 (42.6) Overall Survival to Hospital Admission 1106 (26.1) Overall Survival to Hospital Admission 1106 (26.1) Overall Survival to Hospital Discharge 505 (11.9) With Good of Moderate Cerebral Performance 479 (11.3) Mustein Bystander² Survival (%) N=421   |   |                   |
| Asian   12 (0.3)   | Race (%)  | N=4239            |
| Black/African-American   |   | ` '               |
| Hispanic/Latino   S2 (1.2)   Native Hawaiian/Pacific Islander   9 (0.2)   White   3058 (72.1)   Multi-racial   1 (0.0)   Unknown   778 (18.4)   Location of Arrest (%)   N=4240   Home/Residence   3113 (73.4)   Nursing Home   199 (4.7)   Public Setting   928 (21.9)   Arrest witnessed (%)   N=4239   Bystander Witnessed   1689 (39.8)   Witnessed by 911 Responder   469 (11.1)   Unwitnessed   499 (12.3)   First Responder   499 (22.4)   Was an AED applied prior to EMS arrival? (%)   N=4240   Yes   1517 (35.8)   No   2723 (64.2)   Who first applied automated external defibrillator? (%)   N=1515   Bystander   160 (10.6)   First Responder   1355 (89.4)   Who first applied automated external defibrillator? (%)   N=4240   Not Applicable   2866 (67.6)   Bystander   67 (1.6)   First Responder   418 (9.9)   Responding EMS Personnel   889 (21.0)   First Arrest Rhythm (%)   N=4240   Not Applicable   2866 (67.6)   Bystander   67 (1.6)   First Rresponder   418 (9.9)   Responding EMS Personnel   889 (21.0)   First Arrest Rhythm (%)   N=4240   Not Applicable   1956 (46.1)   Idioventricular/PEA   499 (17.7)   No   3066 (72.3)   No   4206 (99.2)   Pre-hospital Outcome (%)   N=4240   N   |   |                   |
| Native Hawaiian/Pacific Islander   9 (0.2)   |   |                   |
| Multi-racial 1 (0.0) Unknown 778 (18.4) Location of Arrest (%) Home/Residence 3113 (73.4) Nursing Home 199 (4.7) Public Setting 928 (21.9)  Arrest witnessed (%) Bystander Witnessed 1689 (39.8) Witnessed by 911 Responder 469 (11.1) Unwitnessed 2081 (49.1) Who Initiated CPR? (%) N=4240 Not Applicable 2 (0.0) Bystander 1920 (45.3) First Responder 1369 (32.3) Ermergency Medical Services (EMS) 949 (22.4) Was an AED applied prior to EMS arrival? (%) Who first applied automated external defibrillator? (%) Who first applied automated external defibrillator? (%) Who first applicable 266 (67.6) Bystander 150 (10.6) First Responder 156 (9.9) Who first defibrillated the patient?* (%) Not Applicable 2866 (67.6) Bystander 160 (10.6) First Responder 189 (20.0) First Responder 199 (20.0) Who first defibrillated the patient?* (%) Not Applicable 2866 (67.6) Bystander 190 (10.6) First Arrest Rhythm (%) Not Applicable 2866 (67.6) Bystander 418 (9.9) Responding EMS Personnel 889 (21.0) First Arrest Rhythm (%) Vfib/Vtach/Unknown Shockable Rhythm 1005 (23.7) Asystole 1956 (46.1) Idioventricular/PEA 844 (19.9) Unknown Unshockable Rhythm 435 (10.3) Sustained ROSC (%) N=4240 Yes 34 (0.8) No 4206 (99.2) Pre-hospital Outcome (%) Prenounced in the Field 1775 (41.9) Pronounced in the Field 1775 (41.9) Mindia Admission 1106 (26.1) Overall Survival to Hospital Discharge 505 (11.9) With Good or Moderate Cerebral Performance 479 (11.3) Missing hospital outcome 7 Utstein Bystander² Survival (%) N=412   |   |                   |
| Unknown 778 (18.4)  Location of Arrest (%) N=240  Home/Residence 3113 (73.4)  Nursing Home 199 (4.7)  Public Setting 928 (21.9)  Arrest witnessed (%) N=4239  Bystander Witnessed 1689 (39.8)  Witnessed by 911 Responder 469 (11.1)  Unwitnessed by 911 Responder 2081 (49.1)  Who Initiated CPR? (%) N=4240  Not Applicable 2 (0.0)  Bystander First Responder 1920 (45.3)  First Responder 1920 (45.3)  First Responder 1920 (45.3)  Emergency Medical Services (EMS) 949 (22.4)  Was an AED applied prior to EMS arrival? (%) N=4240  Yes 1517 (35.8)  No 2723 (64.2)  Who first applied automated external defibrillator? (%) N=1515  Bystander 1800 (10.6)  First Responder 1355 (89.4)  Who first defibrillated the patient?* (%) N=4240  Not Applicable 2866 (67.6)  Bystander 67 (1.6)  First Responder 418 (9.9)  Responding EMS Personnel 889 (21.0)  First Arrest Rhythm (%) N=4240  Vfib/Vtach/Unknown Shockable Rhythm 1005 (23.7)  Asystole 1956 (46.1)  Idioventricular/PEA 844 (19.9)  Unknown Unshockable Rhythm 435 (10.3)  Sustained ROSC (%) N=4240  Yes 1174 (27.7)  No 3066 (72.3)  Was hypothermia care provided in the field? (%) N=4240  Pronounced in the Field 1775 (41.9)  Pronounced in the Field 1775 (41.9) |   |                   |
| Location of Arrest (%)   |   |                   |
| Home/Residence   |   |                   |
| Nursing Home   |   |                   |
| Public Setting 928 (21.9)  Arrest witnessed (%) N=4239  Bystander Witnessed 1689 (39.8)  Witnessed by 911 Responder 469 (11.1)  Unwitnessed Not Applicable 2081 (49.1)  Who Initiated CPR? (%) N=4240  Not Applicable 2 (0.0)  Bystander 1920 (45.3)  First Responder 1369 (32.3)  Emergency Medical Services (EMS) 949 (22.4)  Was an AED applied prior to EMS arrival? (%) N=4240  Yes 1517 (35.8)  No 2723 (64.2)  Who first applied automated external defibrillator? (%) N=1515  Bystander 160 (10.6)  First Responder 1355 (89.4)  Who first defibrillated the patient?* (%) N=4240  Not Applicable 2866 (67.6)  Bystander 67 (1.6)  First Responder 418 (9.9)  Responding EMS Personnel 889 (21.0)  First Arrest Rhythm (%) N=4240  Vfib/Vtach/Unknown Shockable Rhythm 1005 (23.7)  Asystole 1dioventricular/PEA 844 (19.9)  Unknown Unshockable Rhythm 435 (10.3)  Sustained ROSC (%) N=4240  Yes 34 (0.8)  No 4240  Yes 34 (0.8)  No 4240  Yes 34 (0.8)  No 4260 (99.2)  Pre-hospital Outcome (%) N=4240  Pronounced in the Field 1775 (41.9)  Pronounced in ED 658 (15.5)  Ongoing Resuscitation in ED 807 (42.6)  Overall Survival to Hospital Admission 1106 (26.1)  Overall Survival to Hospital Instearce 479 (11.3)  Missing hospital outcome 7  Utstein¹ Survival (%) N=412   |   |                   |
| Bystander Witnessed   1689 (39.8)   Witnessed by 911 Responder   469 (11.1)   Unwitnessed   2081 (49.1)   Who Initiated CPR? (%)   N=4240   Not Applicable   2 (0.0)   Bystander   1920 (45.3)   First Responder   1920 (45.3)   First Responder   1920 (45.3)   Emergency Medical Services (EMS)   949 (22.4)   Was an AED applied prior to EMS arrival? (%)   N=4240   Yes   1517 (35.8)   No   2723 (64.2)   Who first applied automated external defibrillator? (%)   N=1515   Bystander   160 (10.6)   First Responder   1355 (89.4)   Who first defibrillated the patient?* (%)   N=4240   Not Applicable   2866 (67.6)   Bystander   67 (1.6)   First Responding EMS Personnel   889 (21.0)   First Arrest Rhythm (%)   N=4240   Vfib/Vtach/Unknown Shockable Rhythm   1005 (23.7)   Asystole   1956 (46.1)   Idioventricular/PEA   844 (19.9)   Unknown Unshockable Rhythm   435 (10.3)   Sustained ROSC (%)   N=4240   Yes   1174 (27.7)   No   3066 (72.3)   Was hypothermia care provided in the field? (%)   N=4240   Yes   34 (0.8)   No   4206 (99.2)   Pre-hospital Outcome (%)   N=4240   Pronounced in the Field   1775 (41.9)   Pronounced in ED   658 (15.5)   Ongoing Resuscitation in ED   1807 (42.6)   Overall Surrivial (%)   N=4240   With Good or Moderate Cerebral Performance   479 (11.3)   Missing hospital outcome   7   Utstein¹ Surrival (%)   N=597   33.0%   Utstein Bystander² Survival (%)   N=412  |   | . ,               |
| Witnessed by 911 Responder         469 (11.1)           Unwitnessed         2081 (49.1)           Who Initiated CPR? (%)         N=4240           Not Applicable         2 (0.0)           Bystander         1920 (45.3)           First Responder         1369 (32.3)           Emergency Medical Services (EMS)         949 (22.4)           Was an AED applied prior to EMS arrival? (%)         N=4240           Yes         1517 (35.8)           No         2723 (64.2)           Who first applied automated external defibrillator? (%)         N=1515           Bystander         160 (10.6)           First Responder         1355 (89.4)           Who first defibrillated the patient?* (%)         N=4240           Not Applicable         2866 (67.6)           Bystander         67 (1.6)           First Responder         418 (9.9)           Responding EMS Personnel         889 (21.0)           First Arrest Rhythm (%)         N=4240           Vfib/Vtach/Unknown Shockable Rhythm         1005 (23.7)           Asystole         1956 (46.1)           Idioventricular/PEA         844 (19.9)           Unknown Unshockable Rhythm         435 (10.3)           Sustained ROSC (%)         N=4240  | Arrest witnessed (%)  | N=4239            |
| Unwitnessed 2081 (49.1)  Who Initiated CPR? (%) N=4240  Not Applicable 2 (0.0)  Bystander 1920 (45.3)  First Responder 1369 (32.3)  Emergency Medical Services (EMS) 949 (22.4)  Was an AED applied prior to EMS arrival? (%) N=4240  Yes 1517 (35.8)  No 2723 (64.2)  Who first applied automated external defibrillator? (%) N=1515  Bystander 160 (10.6)  First Responder 1800 (10.6)  First Arrest Rhythm (%) N=4240  Vfib/Vtach/Unknown Shockable Rhythm 1005 (23.7)  Asystole 1956 (46.1)  Idioventricular/PEA 844 (19.9)  Unknown Unshockable Rhythm 435 (10.3)  Sustained ROSC (%) N=4240  Yes 1174 (27.7)  No 3066 (72.3)  Was hypothermia care provided in the field? (%) N=4240  Yes 34 (0.8)  No 4206 (99.2)  Pre-hospital Outcome (%) N=4240  Pronounced in ED 658 (15.5)  Ongoing Resuscitation in ED 1807 (42.6)  Overall Survival (%) N=4240  Overall Survival to Hospital Admission 1106 (26.1)  Overall Survival to Hospital Discharge 505 (11.9)  Witstein Psystander² Survival (%) N=597  33.0%  Utstein Bystander² Survival (%) N=412  | Bystander Witnessed   | 1689 (39.8)       |
| Who Initiated CPR? (%)         N=4240           Not Applicable         2 (0.0)           Bystander         1320 (45.3)           First Responder         1369 (32.3)           Emergency Medical Services (EMS)         949 (22.4)           Was an AED applied prior to EMS arrival? (%)         N=4240           Yes         1517 (35.8)           No         2723 (64.2)           Who first applied automated external defibrillator? (%)         N=1515           Bystander         160 (10.6)           First Responder         1355 (89.4)           Who first defibrillated the patient?* (%)         N=4240           Not Applicable         2866 (67.6)           Bystander         67 (1.6)           First Responder         418 (9.9)           Responding EMS Personnel         889 (21.0)           First Arrest Rhythm (%)         N=4240           Vfib/Vtach/Unknown Shockable Rhythm         1005 (23.7)           Asystole         1956 (46.1)           Udioventricular/PEA         844 (19.9)           Unknown Unshockable Rhythm         435 (10.3)           Sustained ROSC (%)         N=4240           Yes         1174 (27.7)           No         3066 (72.3)           Was hypothermia care provi  | , ,   |                   |
| Not Applicable   2 (0.0)     Bystander   1920 (45.3)     First Responder   1369 (32.3)     Emergency Medical Services (EMS)   949 (22.4)     Was an AED applied prior to EMS arrival? (%)   N=4240     Yes   1517 (35.8)     No   2723 (64.2)     Who first applied automated external defibrillator? (%)   N=1515     Bystander   160 (10.6)     First Responder   1355 (89.4)     Who first defibrillated the patient?* (%)   N=4240     Not Applicable   2866 (67.6)     Bystander   67 (1.6)     First Responder   418 (9.9)     Responding EMS Personnel   889 (21.0)     First Arrest Rhythm (%)   N=4240     Vfib/Vtach/Unknown Shockable Rhythm   1005 (23.7)     Asystole   1956 (46.1)     Idioventricular/PEA   844 (19.9)     Unknown Unshockable Rhythm   435 (10.3)     Sustained ROSC (%)   N=4240     Yes   1174 (27.7)     No   3066 (72.3)     Was hypothermia care provided in the field? (%)   N=4240     Yes   34 (0.8)     No   N=4240     Pronounced in the Field   1775 (41.9)     Pronounced in ED   658 (15.5)     Ongoing Resuscitation in ED   1807 (42.6)     Overall Survival (%)   N=4240     Overall Survival to Hospital Admission   1106 (26.1)     Overall Survival to Hospital Admission   1106 (26.1)     Overall Survival to Hospital Admission   1106 (26.1)     Overall Survival to Hospital Discharge   505 (11.9)     With Good or Moderate Cerebral Performance   479 (11.3)     Missing hospital outcome (%)   N=597     33.0%     Utstein Bystander² Survival (%)   N=412   |   |                   |
| Bystander  | ` '   |                   |
| First Responder Emergency Medical Services (EMS)  Was an AED applied prior to EMS arrival? (%) Yes 1517 (35.8) No 2723 (64.2)  Who first applied automated external defibrillator? (%) Bystander First Responder 160 (10.6) First Responder 1355 (89.4)  Who first defibrillated the patient?* (%) N=4240 Not Applicable Bystander 67 (1.6) First Responder 418 (9.9) Responding EMS Personnel First Arrest Rhythm (%) Vib/Vtach/Unknown Shockable Rhythm 1005 (23.7) Asystole Idioventricular/PEA 1844 (19.9) Unknown Unshockable Rhythm 435 (10.3) Sustained ROSC (%) N=4240 Yes 1174 (27.7) No 3066 (72.3) Was hypothermia care provided in the field? (%) Prenounced in the Field Pronounced in the Field Pronounced in the Field Pronounced in ED Overall Survival (%) N=4240 Overall Survival to Hospital Admission 1106 (26.1) Overall Survival to Hospital Discharge Witsein Bystander² Survival (%) N=597 33.0% Utstein Bystander² Survival (%) N=412   |   | ` '               |
| Was an AED applied prior to EMS arrival? (%)         N=4240           Yes         1517 (35.8)           No         2723 (64.2)           Who first applied automated external defibrillator? (%)         N=1515           Bystander         160 (10.6)           First Responder         1355 (89.4)           Who first defibrillated the patient?* (%)         N=4240           Not Applicable         2866 (67.6)           Bystander         67 (1.6)           First Responder         418 (9.9)           Responding EMS Personnel         889 (21.0)           First Arrest Rhythm (%)         N=4240           Vfib/Vtach/Unknown Shockable Rhythm         1005 (23.7)           Asystole         1956 (46.1)           Idioventricular/PEA         844 (19.9)           Unknown Unshockable Rhythm         435 (10.3)           Sustained ROSC (%)         N=4240           Yes         1174 (27.7)           No         3066 (72.3)           Was hypothermia care provided in the field? (%)         N=4240           Yes         34 (0.8)           No         4206 (99.2)           Pre-hospital Outcome (%)         N=4240           Pronounced in the Field         1775 (41.9)           Pronounced in ED  | <b>7</b>  |                   |
| Yes         1517 (35.8)           No         2723 (64.2)           Who first applied automated external defibrillator? (%)         N=1515           Bystander         160 (10.6)           First Responder         1355 (89.4)           Who first defibrillated the patient?* (%)         N=4240           Not Applicable         2866 (67.6)           Bystander         67 (1.6)           First Responder         418 (9.9)           Responding EMS Personnel         889 (21.0)           First Arrest Rhythm (%)         N=4240           Vfib/Vtach/Unknown Shockable Rhythm         1005 (23.7)           Asystole         1956 (46.1)           Idioventricular/PEA         844 (19.9)           Unknown Unshockable Rhythm         435 (10.3)           Sustained ROSC (%)         N=4240           Yes         1174 (27.7)           No         3066 (72.3)           Was hypothermia care provided in the field? (%)         N=4240           Yes         34 (0.8)           No         4206 (99.2)           Pre-hospital Outcome (%)         N=4240           Pronounced in the Field         1775 (41.9)           Pronounced in the D         658 (15.5)           Ongoing Resuscitation in ED <t< td=""><td>Emergency Medical Services (EMS)</td><td></td></t<>  | Emergency Medical Services (EMS)  |                   |
| No         2723 (64.2)           Who first applied automated external defibrillator? (%)         N=1515           Bystander         160 (10.6)           First Responder         1355 (89.4)           Who first defibrillated the patient?* (%)         N=4240           Not Applicable         2866 (67.6)           Bystander         67 (1.6)           First Responder         418 (9.9)           Responding EMS Personnel         889 (21.0)           First Arrest Rhythm (%)         N=4240           Vfib/Vtach/Unknown Shockable Rhythm         1005 (23.7)           Asystole         1956 (46.1)           Idioventricular/PEA         844 (19.9)           Unknown Unshockable Rhythm         435 (10.3)           Sustained ROSC (%)         N=4240           Yes         1774 (27.7)           No         3066 (72.3)           Was hypothermia care provided in the field? (%)         N=4240           Yes         34 (0.8)           No         4206 (99.2)           Pre-hospital Outcome (%)         N=4240           Pronounced in the Field         1775 (41.9)           Pronounced in ED         658 (15.5)           Ongoing Resuscitation in ED         1807 (42.6)           Overall Survival (%) </td <td>Was an AED applied prior to EMS arrival? (%)</td> <td>N=4240</td>   | Was an AED applied prior to EMS arrival? (%)  | N=4240            |
| Who first applied automated external defibrillator? (%)         N=1515           Bystander         160 (10.6)           First Responder         1355 (89.4)           Who first defibrillated the patient?* (%)         N=4240           Not Applicable         2866 (67.6)           Bystander         67 (1.6)           First Responder         418 (9.9)           Responding EMS Personnel         889 (21.0)           First Arrest Rhythm (%)         N=4240           Vfib/Vtach/Unknown Shockable Rhythm         1005 (23.7)           Asystole         1956 (46.1)           Idioventricular/PEA         844 (19.9)           Unknown Unshockable Rhythm         435 (10.3)           Sustained ROSC (%)         N=4240           Yes         1174 (27.7)           No         3066 (72.3)           Was hypothermia care provided in the field? (%)         N=4240           Yes         34 (0.8)           No         4206 (99.2)           Pre-hospital Outcome (%)         N=4240           Pronounced in the Field         1775 (41.9)           Pronounced in ED         658 (15.5)           Ongoing Resuscitation in ED         1807 (42.6)           Overall Survival (%)         N=4240           Overall S  |   |                   |
| Bystander  |   | , ,               |
| First Responder  Who first defibrillated the patient?* (%) Not Applicable Bystander First Responder Responding EMS Personnel  First Arrest Rhythm (%) Vfib/Vtach/Unknown Shockable Rhythm Asystole Unknown Unshockable Rhythm Asystole Vfisa Arrest Rhythm Unknown Unshockable Rhythm Asystole Asys |   |                   |
| Who first defibrillated the patient?* (%)         N=4240           Not Applicable         2866 (67.6)           Bystander         67 (1.6)           First Responder         418 (9.9)           Responding EMS Personnel         889 (21.0)           First Arrest Rhythm (%)         N=4240           Vfib/Vtach/Unknown Shockable Rhythm         1005 (23.7)           Asystole         1956 (46.1)           Idioventricular/PEA         844 (19.9)           Unknown Unshockable Rhythm         435 (10.3)           Sustained ROSC (%)         N=4240           Yes         1174 (27.7)           No         3066 (72.3)           Was hypothermia care provided in the field? (%)         N=4240           Yes         34 (0.8)           No         4206 (99.2)           Pre-hospital Outcome (%)         N=4240           Pronounced in the Field         1775 (41.9)           Pronounced in ED         658 (15.5)           Ongoing Resuscitation in ED         1807 (42.6)           Overall Survival (%)         N=4240           Overall Survival to Hospital Admission         1106 (26.1)           Overall Survival to Hospital Discharge         505 (11.9)           With Good or Moderate Cerebral Performance         7 </td <td></td> <td></td>   |   |                   |
| Not Applicable         2866 (67.6)           Bystander         67 (1.6)           First Responder         418 (9.9)           Responding EMS Personnel         889 (21.0)           First Arrest Rhythm (%)         N=4240           Vfib/Vtach/Unknown Shockable Rhythm         1005 (23.7)           Asystole         1956 (46.1)           Idioventricular/PEA         844 (19.9)           Unknown Unshockable Rhythm         435 (10.3)           Sustained ROSC (%)         N=4240           Yes         1174 (27.7)           No         3066 (72.3)           Was hypothermia care provided in the field? (%)         N=4240           Yes         34 (0.8)           No         4206 (99.2)           Pre-hospital Outcome (%)         N=4240           Pronounced in the Field         1775 (41.9)           Pronounced in ED         658 (15.5)           Ongoing Resuscitation in ED         1807 (42.6)           Overall Survival (%)         N=4240           Overall Survival to Hospital Admission         1106 (26.1)           Overall Survival to Hospital Discharge         505 (11.9)           With Good or Moderate Cerebral Performance         479 (11.3)           Missing hospital outcome         7   | •   |                   |
| Bystander 67 (1.6) First Responder 418 (9.9) Responding EMS Personnel 889 (21.0) First Arrest Rhythm (%) N=4240 Vfib/Vtach/Unknown Shockable Rhythm 1005 (23.7) Asystole 1956 (46.1) Idioventricular/PEA 844 (19.9) Unknown Unshockable Rhythm 435 (10.3) Sustained ROSC (%) N=4240 Yes 1174 (27.7) No 3066 (72.3) Was hypothermia care provided in the field? (%) N=4240 Yes 34 (0.8) No 4206 (99.2) Pre-hospital Outcome (%) N=4240 Pronounced in the Field 1775 (41.9) Pronounced in ED 658 (15.5) Ongoing Resuscitation in ED 1807 (42.6) Overall Survival (%) N=4240 Overall Survival to Hospital Admission 1106 (26.1) Overall Survival to Hospital Discharge 77 Utstein¹ Survival (%) N=597 33.0% Utstein Bystander² Survival (%) N=412   | • • • •   |                   |
| Responding EMS Personnel       889 (21.0)         First Arrest Rhythm (%)       N=4240         Vfib/Vtach/Unknown Shockable Rhythm       1005 (23.7)         Asystole       1956 (46.1)         Idioventricular/PEA       844 (19.9)         Unknown Unshockable Rhythm       435 (10.3)         Sustained ROSC (%)       N=4240         Yes       1174 (27.7)         No       3066 (72.3)         Was hypothermia care provided in the field? (%)       N=4240         Yes       34 (0.8)         No       4206 (99.2)         Pre-hospital Outcome (%)       N=4240         Pronounced in the Field       1775 (41.9)         Pronounced in ED       658 (15.5)         Ongoing Resuscitation in ED       1807 (42.6)         Overall Survival (%)       N=4240         Overall Survival to Hospital Admission       1106 (26.1)         Overall Survival to Hospital Discharge       505 (11.9)         With Good or Moderate Cerebral Performance       479 (11.3)         Missing hospital outcome       7         Utstein¹ Survival (%)       N=597         33.0%       Utstein¹ Bystander² Survival (%)  |   | ` '               |
| First Arrest Rhythm (%)         N=4240           Vfib/Vtach/Unknown Shockable Rhythm         1005 (23.7)           Asystole         1956 (46.1)           Idioventricular/PEA         844 (19.9)           Unknown Unshockable Rhythm         435 (10.3)           Sustained ROSC (%)         N=4240           Yes         1174 (27.7)           No         3066 (72.3)           Was hypothermia care provided in the field? (%)         N=4240           Yes         34 (0.8)           No         4206 (99.2)           Pre-hospital Outcome (%)         N=4240           Pronounced in the Field         1775 (41.9)           Pronounced in ED         658 (15.5)           Ongoing Resuscitation in ED         1807 (42.6)           Overall Survival (%)         N=4240           Overall Survival to Hospital Admission         1106 (26.1)           Overall Survival to Hospital Discharge         505 (11.9)           With Good or Moderate Cerebral Performance         479 (11.3)           Missing hospital outcome         7           Utstein¹ Survival (%)         N=597           33.0%         Utstein Bystander² Survival (%)   | ·   |                   |
| Vfib/Vtach/Unknown Shockable Rhythm         1005 (23.7)           Asystole         1956 (46.1)           Idioventricular/PEA         844 (19.9)           Unknown Unshockable Rhythm         435 (10.3)           Sustained ROSC (%)         N=4240           Yes         1174 (27.7)           No         3066 (72.3)           Was hypothermia care provided in the field? (%)         N=4240           Yes         34 (0.8)           No         4206 (99.2)           Pre-hospital Outcome (%)         N=4240           Pronounced in the Field         1775 (41.9)           Pronounced in ED         658 (15.5)           Ongoing Resuscitation in ED         1807 (42.6)           Overall Survival (%)         N=4240           Overall Survival to Hospital Admission         1106 (26.1)           Overall Survival to Hospital Discharge         505 (11.9)           With Good or Moderate Cerebral Performance         479 (11.3)           Missing hospital outcome         7           Utstein¹ Survival (%)         N=597           33.0%         Utstein Bystander² Survival (%)         N=412  |   |                   |
| Asystole 1956 (46.1) Idioventricular/PEA 844 (19.9) Unknown Unshockable Rhythm 435 (10.3)  Sustained ROSC (%) N=4240 Yes 1174 (27.7) No 3066 (72.3)  Was hypothermia care provided in the field? (%) N=4240 Yes 34 (0.8) No 4206 (99.2)  Pre-hospital Outcome (%) N=4240 Pronounced in the Field 1775 (41.9) Pronounced in ED 658 (15.5) Ongoing Resuscitation in ED 1807 (42.6)  Overall Survival (%) N=4240  Overall Survival to Hospital Admission 1106 (26.1) Overall Survival to Hospital Discharge 505 (11.9) With Good or Moderate Cerebral Performance 479 (11.3) Missing hospital outcome 7  Utstein¹ Survival (%) N=597 33.0% Utstein Bystander² Survival (%) N=412  | · · · ·   |                   |
| Idioventricular/PEA  | •   |                   |
| Unknown Unshockable Rhythm 435 (10.3)  Sustained ROSC (%) N=4240  Yes 1174 (27.7)  No 3066 (72.3)  Was hypothermia care provided in the field? (%) N=4240  Yes 34 (0.8)  No 4206 (99.2)  Pre-hospital Outcome (%) N=4240  Pronounced in the Field 1775 (41.9)  Pronounced in ED 658 (15.5)  Ongoing Resuscitation in ED 1807 (42.6)  Overall Survival (%) N=4240  Overall Survival to Hospital Admission 1106 (26.1)  Overall Survival to Hospital Discharge 505 (11.9)  With Good or Moderate Cerebral Performance 479 (11.3)  Missing hospital outcome 7  Utstein¹ Survival (%) N=597  33.0%  Utstein Bystander² Survival (%) N=412  | -7  | ` ,               |
| Yes       1174 (27.7)         No       3066 (72.3)         Was hypothermia care provided in the field? (%)       N=4240         Yes       34 (0.8)         No       4206 (99.2)         Pre-hospital Outcome (%)       N=4240         Pronounced in the Field       1775 (41.9)         Pronounced in ED       658 (15.5)         Ongoing Resuscitation in ED       1807 (42.6)         Overall Survival (%)       N=4240         Overall Survival to Hospital Admission       1106 (26.1)         Overall Survival to Hospital Discharge       505 (11.9)         With Good or Moderate Cerebral Performance       479 (11.3)         Missing hospital outcome       7         Utstein¹ Survival (%)       N=597         33.0%       N=412  | Unknown Unshockable Rhythm  | 435 (10.3)        |
| No       3066 (72.3)         Was hypothermia care provided in the field? (%)       N=4240         Yes       34 (0.8)         No       4206 (99.2)         Pre-hospital Outcome (%)       N=4240         Pronounced in the Field       1775 (41.9)         Pronounced in ED       658 (15.5)         Ongoing Resuscitation in ED       1807 (42.6)         Overall Survival (%)       N=4240         Overall Survival to Hospital Admission       1106 (26.1)         Overall Survival to Hospital Discharge       505 (11.9)         With Good or Moderate Cerebral Performance       479 (11.3)         Missing hospital outcome       7         Utstein¹ Survival (%)       N=597         33.0%       Utstein Bystander² Survival (%)  | Sustained ROSC (%)  | N=4240            |
| Was hypothermia care provided in the field? (%)         N=4240           Yes         34 (0.8)           No         4206 (99.2)           Pre-hospital Outcome (%)         N=4240           Pronounced in the Field         1775 (41.9)           Pronounced in ED         658 (15.5)           Ongoing Resuscitation in ED         1807 (42.6)           Overall Survival (%)         N=4240           Overall Survival to Hospital Admission         1106 (26.1)           Overall Survival to Hospital Discharge         505 (11.9)           With Good or Moderate Cerebral Performance         479 (11.3)           Missing hospital outcome         7           Utstein¹ Survival (%)         N=597           33.0%         Utstein Bystander² Survival (%)   |   |                   |
| Yes       34 (0.8)         No       4206 (99.2)         Pre-hospital Outcome (%)       N=4240         Pronounced in the Field       1775 (41.9)         Pronounced in ED       658 (15.5)         Ongoing Resuscitation in ED       1807 (42.6)         Overall Survival (%)       N=4240         Overall Survival to Hospital Admission       1106 (26.1)         Overall Survival to Hospital Discharge       505 (11.9)         With Good or Moderate Cerebral Performance       479 (11.3)         Missing hospital outcome       7         Utstein¹ Survival (%)       N=597         33.0%         Utstein Bystander² Survival (%)       N=412  |   |                   |
| No         4206 (99.2)           Pre-hospital Outcome (%)         N=4240           Pronounced in the Field         1775 (41.9)           Pronounced in ED         658 (15.5)           Ongoing Resuscitation in ED         1807 (42.6)           Overall Survival (%)         N=4240           Overall Survival to Hospital Admission         1106 (26.1)           Overall Survival to Hospital Discharge         505 (11.9)           With Good or Moderate Cerebral Performance         479 (11.3)           Missing hospital outcome         7           Utstein¹ Survival (%)         N=597           33.0%         Utstein Bystander² Survival (%)   | ,   |                   |
| Pre-hospital Outcome (%)         N=4240           Pronounced in the Field         1775 (41.9)           Pronounced in ED         658 (15.5)           Ongoing Resuscitation in ED         1807 (42.6)           Overall Survival (%)         N=4240           Overall Survival to Hospital Admission         1106 (26.1)           Overall Survival to Hospital Discharge         505 (11.9)           With Good or Moderate Cerebral Performance         479 (11.3)           Missing hospital outcome         7           Utstein¹ Survival (%)         N=597           33.0%         Utstein Bystander² Survival (%)           N=412  |   | ` '               |
| Pronounced in the Field       1775 (41.9)         Pronounced in ED       658 (15.5)         Ongoing Resuscitation in ED       1807 (42.6)         Overall Survival (%)       N=4240         Overall Survival to Hospital Admission       1106 (26.1)         Overall Survival to Hospital Discharge       505 (11.9)         With Good or Moderate Cerebral Performance       479 (11.3)         Missing hospital outcome       7         Utstein¹ Survival (%)       N=597         33.0%         Utstein Bystander² Survival (%)       N=412  |   | , ,               |
| Pronounced in ED         658 (15.5)           Ongoing Resuscitation in ED         1807 (42.6)           Overall Survival (%)         N=4240           Overall Survival to Hospital Admission         1106 (26.1)           Overall Survival to Hospital Discharge         505 (11.9)           With Good or Moderate Cerebral Performance         479 (11.3)           Missing hospital outcome         7           Utstein¹ Survival (%)         N=597           33.0%           Utstein Bystander² Survival (%)         N=412  |   |                   |
| Overall Survival (%)         N=4240           Overall Survival to Hospital Admission         1106 (26.1)           Overall Survival to Hospital Discharge         505 (11.9)           With Good or Moderate Cerebral Performance         479 (11.3)           Missing hospital outcome         7           Utstein¹ Survival (%)         N=597           33.0%           Utstein Bystander² Survival (%)         N=412  | Pronounced in ED  | , ,               |
| Overall Survival to Hospital Admission         1106 (26.1)           Overall Survival to Hospital Discharge         505 (11.9)           With Good or Moderate Cerebral Performance         479 (11.3)           Missing hospital outcome         7           Utstein¹ Survival (%)         N=597           33.0%           Utstein Bystander² Survival (%)         N=412  | Ongoing Resuscitation in ED   | 1807 (42.6)       |
| Overall Survival to Hospital Discharge 505 (11.9)  With Good or Moderate Cerebral Performance 479 (11.3)  Missing hospital outcome 7  Utstein¹ Survival (%) N=597 33.0%  Utstein Bystander² Survival (%) N=412   |   |                   |
| With Good or Moderate Cerebral Performance         479 (11.3)           Missing hospital outcome         7           Utstein¹ Survival (%)         N=597           33.0%           Utstein Bystander² Survival (%)         N=412   |   |                   |
| Missing hospital outcome 7  Utstein¹ Survival (%) N=597 33.0%  Utstein Bystander² Survival (%) N=412   |   | . ,               |
| Utstein¹ Survival (%)  N=597 33.0%  Utstein Bystander² Survival (%)  N=412   |   |                   |
| Utstein Bystander² Survival (%) N=412  |   |                   |
| Utstein Bystander² Survival (%) N=412  |   |                   |
|  | Utstein Bystander <sup>2</sup> Survival (%)   | N=412             |
|  |   | 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 \*This is a new question that was introduced on the 2011 form.

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

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