

# CARES Survival Report

## All Agencies/National Data

Service Date: 01/01/18 - 12/31/18 | Non-Traumatic Etiology

	OVERALL N = 81702				
	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>	81702	25381 (31.1)	23069 (28.2)	8489 (10.4)	6729 (8.2)
<b>Location of Arrest</b>					
Home/Residence	57377 (70.2)	16842 (29.4)	15118 (26.3)	4870 (8.5)	3767 (6.6)
Nursing Home	9111 (11.2)	2304 (25.3)	1690 (18.5)	392 (4.3)	175 (1.9)
Public Setting	15214 (18.6)	6235 (41.0)	6261 (41.2)	3227 (21.2)	2787 (18.3)
<b>Arrest Witnessed Status</b>					
Unwitnessed	40994 (50.2)	8340 (20.3)	7365 (18.0)	1820 (4.4)	1317 (3.2)
Bystander witnessed	30494 (37.3)	12713 (41.7)	11436 (37.5)	4837 (15.9)	3946 (12.9)
911 Responder witnessed	10212 (12.5)	4327 (42.4)	4268 (41.8)	1832 (17.9)	1466 (14.4)
<b>Bystander CPR*</b>					
Bystander CPR	32711 (45.8)	10411 (31.8)	9350 (28.6)	3871 (11.8)	3174 (9.7)
No Bystander CPR	38777 (54.2)	10641 (27.4)	9451 (24.4)	2786 (7.2)	2089 (5.4)
Bystander CPR (excludes nursing home/healthcare facility events)	23764 (39.2)	7873 (33.1)	7382 (31.1)	3235 (13.6)	2758 (11.6)
No Bystander CPR (excludes nursing home/healthcare facility events)	36839 (60.8)	10114 (27.5)	9066 (24.6)	2693 (7.3)	2030 (5.5)
<b>Initial Arrest Rhythm</b>					
Shockable	15040 (18.4)	7325 (48.7)	7271 (48.3)	4431 (29.5)	3905 (26.0)
Non-shockable	66650 (81.6)	18045 (27.1)	15788 (23.7)	4049 (6.1)	2815 (4.2)
<b>AED Use</b>					
Bystander AED use*	5194 (7.3)	1847 (35.6)	1593 (30.7)	845 (16.3)	713 (13.7)
Bystander AED use* (excludes nursing home/healthcare facility events)	1376 (2.3)	681 (49.5)	667 (48.5)	481 (35.0)	452 (32.8)
Trained provider (First Responder) AED use	18849 (23.1)	5583 (29.6)	4904 (26.0)	1817 (9.6)	1501 (8.0)
<b>Utstein</b>					
Witnessed and shockable	10808 (13.2)	5843 (54.1)	5789 (53.6)	3752 (34.7)	3347 (31.0)
Bystander witnessed and shockable	9018 (11.0)	4792 (53.1)	4761 (52.8)	3015 (33.4)	2662 (29.5)
<b>Hypothermia</b>					
Field hypothermia	3404 (4.2)	1965 (57.7)	1626 (47.8)	577 (17.0)	451 (13.2)
In-hospital hypothermia (among admitted patients)	10261 (44.5)	--	--	3352 (32.7)	2519 (24.5)

**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.

NOTE: Analysis excludes patients with missing hospital outcome (N=158).

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

<sup>†</sup>CPC missing for 178 patients.

# CARES Survival Report

## All Agencies/National Data

Service Date: 01/01/18 - 12/31/18 | Non-Traumatic Etiology

	Age = ≤1 years N = 1280				
	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>	1280	169 (13.2)	246 (19.2)	86 (6.7)	63 (4.9)
<b>Location of Arrest</b>					
Home/Residence	1179 (92.1)	143 (12.1)	213 (18.1)	68 (5.8)	49 (4.2)
Nursing Home	1 (0.1)	1 (100.0)	1 (100.0)	0 (0.0)	0 (0.0)
Public Setting	100 (7.8)	25 (25.0)	32 (32.0)	18 (18.0)	14 (14.0)
<b>Arrest Witnessed Status</b>					
Unwitnessed	1008 (78.8)	85 (8.4)	144 (14.3)	32 (3.2)	20 (2.0)
Bystander witnessed	234 (18.3)	72 (30.8)	85 (36.3)	45 (19.2)	37 (15.8)
911 Responder witnessed	38 (3.0)	12 (31.6)	17 (44.7)	9 (23.7)	6 (15.8)
<b>Bystander CPR*</b>					
Bystander CPR	607 (48.9)	90 (14.8)	111 (18.3)	42 (6.9)	35 (5.8)
No Bystander CPR	635 (51.1)	67 (10.6)	118 (18.6)	35 (5.5)	22 (3.5)
Bystander CPR (excludes nursing home/healthcare facility events)	591 (48.2)	84 (14.2)	106 (17.9)	39 (6.6)	32 (5.4)
No Bystander CPR (excludes nursing home/healthcare facility events)	634 (51.8)	67 (10.6)	117 (18.5)	35 (5.5)	22 (3.5)
<b>Initial Arrest Rhythm</b>					
Shockable	50 (3.9)	22 (44.0)	23 (46.0)	15 (30.0)	14 (28.0)
Non-shockable	1230 (96.1)	147 (12.0)	223 (18.1)	71 (5.8)	49 (4.0)
<b>AED Use</b>					
Bystander AED use*	7 (0.6)	2 (28.6)	1 (14.3)	1 (14.3)	1 (14.3)
Bystander AED use* (excludes nursing home/healthcare facility events)	3 (0.2)	2 (66.7)	1 (33.3)	1 (33.3)	1 (33.3)
Trained provider (First Responder) AED use	149 (11.6)	18 (12.1)	31 (20.8)	7 (4.7)	5 (3.4)
<b>Utstein</b>					
Witnessed and shockable	32 (2.5)	18 (56.2)	18 (56.2)	13 (40.6)	12 (37.5)
Bystander witnessed and shockable	29 (2.3)	17 (58.6)	17 (58.6)	12 (41.4)	11 (37.9)
<b>Hypothermia</b>					
Field hypothermia	9 (0.7)	1 (11.1)	1 (11.1)	0 (0.0)	0 (0.0)
In-hospital hypothermia (among admitted patients)	51 (20.7)	--	--	14 (27.5)	11 (21.6)

**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.

NOTE: Analysis excludes patients with missing hospital outcome (N=8).

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

<sup>†</sup>CPC missing for 2 patients.

# CARES Survival Report

## All Agencies/National Data

Service Date: 01/01/18 - 12/31/18 | Non-Traumatic Etiology

	Age = >1 - 12 years N = 560				
	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>	560	163 (29.1)	212 (37.9)	91 (16.2)	74 (13.2)
<b>Location of Arrest</b>					
Home/Residence	455 (81.2)	116 (25.5)	147 (32.3)	53 (11.6)	38 (8.4)
Nursing Home	0 (0.0)	0 (NaN)	0 (NaN)	0 (NaN)	0 (NaN)
Public Setting	105 (18.8)	47 (44.8)	65 (61.9)	38 (36.2)	36 (34.3)
<b>Arrest Witnessed Status</b>					
Unwitnessed	342 (61.1)	72 (21.1)	104 (30.4)	35 (10.2)	29 (8.5)
Bystander witnessed	185 (33.0)	82 (44.3)	93 (50.3)	52 (28.1)	42 (22.7)
911 Responder witnessed	33 (5.9)	9 (27.3)	15 (45.5)	4 (12.1)	3 (9.1)
<b>Bystander CPR*</b>					
Bystander CPR	275 (52.2)	75 (27.3)	111 (40.4)	52 (18.9)	46 (16.7)
No Bystander CPR	252 (47.8)	69 (27.4)	86 (34.1)	35 (13.9)	25 (9.9)
Bystander CPR (excludes nursing home/healthcare facility events)	270 (51.7)	83 (30.7)	109 (40.4)	50 (18.5)	44 (16.3)
No Bystander CPR (excludes nursing home/healthcare facility events)	252 (48.3)	69 (27.4)	86 (34.1)	35 (13.9)	25 (9.9)
<b>Initial Arrest Rhythm</b>					
Shockable	38 (6.8)	24 (63.2)	23 (60.5)	19 (50.0)	17 (44.7)
Non-shockable	522 (93.2)	139 (26.6)	189 (36.2)	72 (13.8)	57 (10.9)
<b>AED Use</b>					
Bystander AED use*	8 (1.5)	2 (25.0)	4 (50.0)	3 (37.5)	3 (37.5)
Bystander AED use* (excludes nursing home/healthcare facility events)	6 (1.1)	2 (33.3)	3 (50.0)	2 (33.3)	2 (33.3)
Trained provider (First Responder) AED use	130 (23.2)	34 (26.2)	45 (34.6)	7 (5.4)	6 (4.6)
<b>Utstein</b>					
Witnessed and shockable	28 (5.0)	19 (67.9)	19 (67.9)	16 (57.1)	14 (50.0)
Bystander witnessed and shockable	25 (4.5)	19 (76.0)	19 (76.0)	16 (64.0)	14 (56.0)
<b>Hypothermia</b>					
Field hypothermia	8 (1.4)	4 (50.0)	4 (50.0)	0 (0.0)	0 (0.0)
In-hospital hypothermia (among admitted patients)	33 (15.6)	--	--	8 (24.2)	7 (21.2)

**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=5).

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

<sup>†</sup>CPC missing for 2 patients.

# CARES Survival Report

## All Agencies/National Data

Service Date: 01/01/18 - 12/31/18 | Non-Traumatic Etiology

	Age = 13 - 18 years N = 416				
	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>	416	149 (35.8)	171 (41.1)	80 (19.2)	71 (17.1)
<b>Location of Arrest</b>					
Home/Residence	315 (75.7)	95 (30.2)	108 (34.3)	39 (12.4)	33 (10.5)
Nursing Home	5 (1.2)	2 (40.0)	3 (60.0)	2 (40.0)	1 (20.0)
Public Setting	96 (23.1)	52 (54.2)	60 (62.5)	39 (40.6)	37 (38.5)
<b>Arrest Witnessed Status</b>					
Unwitnessed	243 (58.4)	58 (23.9)	67 (27.6)	15 (6.2)	13 (5.3)
Bystander witnessed	141 (33.9)	75 (53.2)	83 (58.9)	56 (39.7)	51 (36.2)
911 Responder witnessed	32 (7.7)	16 (50.0)	21 (65.6)	9 (28.1)	7 (21.9)
<b>Bystander CPR*</b>					
Bystander CPR	185 (48.2)	74 (40.0)	83 (44.9)	47 (25.4)	44 (23.8)
No Bystander CPR	199 (51.8)	59 (29.6)	67 (33.7)	24 (12.1)	20 (10.1)
Bystander CPR (excludes nursing home/healthcare facility events)	182 (48.3)	73 (40.1)	82 (45.1)	46 (25.3)	43 (23.6)
No Bystander CPR (excludes nursing home/healthcare facility events)	195 (51.7)	56 (28.7)	64 (32.8)	22 (11.3)	18 (9.2)
<b>Initial Arrest Rhythm</b>					
Shockable	83 (20.0)	59 (71.1)	65 (78.3)	51 (61.4)	46 (55.4)
Non-shockable	333 (80.0)	90 (27.0)	106 (31.8)	29 (8.7)	25 (7.5)
<b>AED Use</b>					
Bystander AED use*	20 (5.2)	12 (60.0)	12 (60.0)	10 (50.0)	10 (50.0)
Bystander AED use* (excludes nursing home/healthcare facility events)	17 (4.5)	11 (64.7)	11 (64.7)	9 (52.9)	9 (52.9)
Trained provider (First Responder) AED use	115 (27.6)	46 (40.0)	54 (47.0)	26 (22.6)	24 (20.9)
<b>Utstein</b>					
Witnessed and shockable	71 (17.1)	51 (71.8)	57 (80.3)	45 (63.4)	41 (57.7)
Bystander witnessed and shockable	63 (15.1)	45 (71.4)	50 (79.4)	41 (65.1)	37 (58.7)
<b>Hypothermia</b>					
Field hypothermia	10 (2.4)	8 (80.0)	8 (80.0)	3 (30.0)	3 (30.0)
In-hospital hypothermia (among admitted patients)	54 (31.6)	--	--	23 (42.6)	21 (38.9)

**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=3).

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

<sup>†</sup>CPC missing for 2 patients.

# CARES Survival Report

## All Agencies/National Data

Service Date: 01/01/18 - 12/31/18 | Non-Traumatic Etiology

	Age = >18 years N = 79356				
	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>	79356	24877 (31.3)	22413 (28.2)	8216 (10.4)	6507 (8.2)
<b>Location of Arrest</b>					
Home/Residence	55358 (69.8)	16473 (29.8)	14629 (26.4)	4697 (8.5)	3636 (6.6)
Nursing Home	9105 (11.5)	2301 (25.3)	1686 (18.5)	390 (4.3)	174 (1.9)
Public Setting	14893 (18.8)	6103 (41.0)	6098 (40.9)	3129 (21.0)	2697 (18.1)
<b>Arrest Witnessed Status</b>					
Unwitnessed	39378 (49.6)	8119 (20.6)	7045 (17.9)	1735 (4.4)	1253 (3.2)
Bystander witnessed	29887 (37.7)	12472 (41.7)	11160 (37.3)	4674 (15.6)	3807 (12.7)
911 Responder witnessed	10089 (12.7)	4285 (42.5)	4208 (41.7)	1807 (17.9)	1447 (14.3)
<b>Bystander CPR*</b>					
Bystander CPR	31628 (45.7)	10160 (32.1)	9040 (28.6)	3727 (11.8)	3046 (9.6)
No Bystander CPR	37637 (54.3)	10430 (27.7)	9165 (24.4)	2682 (7.1)	2014 (5.4)
Bystander CPR (excludes nursing home/healthcare facility events)	22707 (38.9)	7631 (33.6)	7080 (31.2)	3097 (13.6)	2636 (11.6)
No Bystander CPR (excludes nursing home/healthcare facility events)	35706 (61.1)	9906 (27.7)	8784 (24.6)	2591 (7.3)	1957 (5.5)
<b>Initial Arrest Rhythm</b>					
Shockable	14867 (18.7)	7219 (48.6)	7159 (48.2)	4345 (29.2)	3827 (25.7)
Non-shockable	64477 (81.3)	17647 (27.4)	15244 (23.6)	3862 (6.0)	2671 (4.1)
<b>AED Use</b>					
Bystander AED use*	5158 (7.4)	1829 (35.5)	1575 (30.5)	830 (16.1)	698 (13.5)
Bystander AED use* (excludes nursing home/healthcare facility events)	1349 (2.3)	665 (49.3)	651 (48.3)	468 (34.7)	439 (32.5)
Trained provider (First Responder) AED use	18447 (23.2)	5482 (29.7)	4773 (25.9)	1777 (9.6)	1466 (7.9)
<b>Utstein</b>					
Witnessed and shockable	10675 (13.5)	5754 (53.9)	5694 (53.3)	3677 (34.4)	3279 (30.7)
Bystander witnessed and shockable	8899 (11.2)	4710 (52.9)	4674 (52.5)	2945 (33.1)	2599 (29.2)
<b>Hypothermia</b>					
Field hypothermia	3375 (4.3)	1951 (57.8)	1612 (47.8)	574 (17.0)	448 (13.3)
In-hospital hypothermia (among admitted patients)	10112 (45.1)	--	--	3300 (32.6)	2475 (24.5)

**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.

NOTE: Analysis excludes patients with missing hospital outcome (N=139).

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

<sup>†</sup>CPC missing for 172 patients.