

# CARES Survival Report

## All Agencies/National Data

Service Date: 01/01/19 - 12/31/19 | Non-Traumatic Etiology

	OVERALL N = 100782				
	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>	100782	30913 (30.7)	28173 (28.0)	10641 (10.6)	8569 (8.5)
<b>Location of Arrest</b>					
Home/Residence	71004 (70.5)	20666 (29.1)	18501 (26.1)	6116 (8.6)	4827 (6.8)
Nursing Home	10986 (10.9)	2657 (24.2)	2014 (18.3)	514 (4.7)	263 (2.4)
Public Setting	18791 (18.6)	7590 (40.4)	7658 (40.8)	4011 (21.3)	3479 (18.5)
<b>Arrest Witnessed Status</b>					
Unwitnessed	49947 (49.6)	9918 (19.9)	8847 (17.7)	2216 (4.4)	1583 (3.2)
Bystander witnessed	38261 (38.0)	15757 (41.2)	14158 (37.0)	6136 (16.0)	5097 (13.3)
911 Responder witnessed	12573 (12.5)	5238 (41.7)	5168 (41.1)	2289 (18.2)	1889 (15.0)
<b>Bystander CPR*</b>					
Bystander CPR	41878 (47.5)	13129 (31.4)	11791 (28.2)	4943 (11.8)	4091 (9.8)
No Bystander CPR	46323 (52.5)	12543 (27.1)	11207 (24.2)	3407 (7.4)	2587 (5.6)
Bystander CPR (excludes nursing home/healthcare facility events)	30871 (41.2)	10066 (32.6)	9371 (30.4)	4065 (13.2)	3488 (11.3)
No Bystander CPR (excludes nursing home/healthcare facility events)	44124 (58.8)	11957 (27.1)	10750 (24.4)	3288 (7.5)	2515 (5.7)
<b>Initial Arrest Rhythm</b>					
Shockable	19027 (18.9)	9282 (48.8)	9152 (48.1)	5536 (29.1)	4927 (25.9)
Non-shockable	81744 (81.1)	21622 (26.5)	19013 (23.3)	5098 (6.2)	3636 (4.4)
<b>AED Use</b>					
Bystander AED use*	6534 (7.4)	2291 (35.1)	2029 (31.1)	1095 (16.8)	945 (14.5)
Bystander AED use* (excludes nursing home/healthcare facility events)	1738 (2.3)	850 (48.9)	845 (48.6)	599 (34.5)	562 (32.3)
Trained provider (First Responder) AED use	22484 (22.3)	6799 (30.2)	5940 (26.4)	2280 (10.1)	1897 (8.4)
<b>Utstein</b>					
Witnessed and shockable	13731 (13.6)	7402 (53.9)	7294 (53.1)	4708 (34.3)	4244 (30.9)
Bystander witnessed and shockable	11433 (11.3)	6092 (53.3)	5997 (52.5)	3803 (33.3)	3395 (29.7)
<b>Hypothermia</b>					
Field hypothermia	3385 (3.4)	1931 (57.0)	1636 (48.3)	558 (16.5)	422 (12.5)
In-hospital hypothermia (among admitted patients)	12905 (45.8)	--	--	4139 (32.1)	3116 (24.1)

**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=174).

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

<sup>†</sup>CPC missing for 29 patients.

# CARES Survival Report

## All Agencies/National Data

Service Date: 01/01/19 - 12/31/19 | Non-Traumatic Etiology

	Age = <1 years N = 1299				
	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>	1299	152 (11.7)	231 (17.8)	88 (6.8)	64 (4.9)
<b>Location of Arrest</b>					
Home/Residence	1182 (91.0)	129 (10.9)	202 (17.1)	72 (6.1)	52 (4.4)
Nursing Home	0 (0.0)	0 (NaN)	0 (NaN)	0 (NaN)	0 (NaN)
Public Setting	117 (9.0)	23 (19.7)	29 (24.8)	16 (13.7)	12 (10.3)
<b>Arrest Witnessed Status</b>					
Unwitnessed	1045 (80.4)	75 (7.2)	137 (13.1)	37 (3.5)	22 (2.1)
Bystander witnessed	216 (16.6)	66 (30.6)	82 (38.0)	44 (20.4)	37 (17.1)
911 Responder witnessed	38 (2.9)	11 (28.9)	12 (31.6)	7 (18.4)	5 (13.2)
<b>Bystander CPR*</b>					
Bystander CPR	624 (49.5)	87 (13.9)	125 (20.0)	50 (8.0)	36 (5.8)
No Bystander CPR	637 (50.5)	54 (8.5)	94 (14.8)	31 (4.9)	23 (3.6)
Bystander CPR (excludes nursing home/healthcare facility events)	607 (49.0)	80 (13.2)	119 (19.6)	48 (7.9)	34 (5.6)
No Bystander CPR (excludes nursing home/healthcare facility events)	633 (51.0)	52 (8.2)	93 (14.7)	31 (4.9)	23 (3.6)
<b>Initial Arrest Rhythm</b>					
Shockable	39 (3.0)	14 (35.9)	15 (38.5)	9 (23.1)	7 (17.9)
Non-shockable	1259 (97.0)	137 (10.9)	215 (17.1)	78 (6.2)	56 (4.4)
<b>AED Use</b>					
Bystander AED use*	11 (0.9)	1 (9.1)	2 (18.2)	1 (9.1)	0 (0.0)
Bystander AED use* (excludes nursing home/healthcare facility events)	3 (0.2)	0 (0.0)	1 (33.3)	1 (33.3)	0 (0.0)
Trained provider (First Responder) AED use	197 (15.2)	25 (12.7)	33 (16.8)	12 (6.1)	9 (4.6)
<b>Utstein</b>					
Witnessed and shockable	19 (1.5)	12 (63.2)	11 (57.9)	7 (36.8)	6 (31.6)
Bystander witnessed and shockable	18 (1.4)	11 (61.1)	10 (55.6)	6 (33.3)	6 (33.3)
<b>Hypothermia</b>					
Field hypothermia	14 (1.1)	2 (14.3)	2 (14.3)	1 (7.1)	1 (7.1)
In-hospital hypothermia (among admitted patients)	53 (22.9)	--	--	17 (32.1)	10 (18.9)

**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=8).

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

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

# CARES Survival Report

## All Agencies/National Data

Service Date: 01/01/19 - 12/31/19 | Non-Traumatic Etiology

	Age = 1 - 12 years N = 835				
	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>	835	218 (26.1)	309 (37.0)	125 (15.0)	87 (10.4)
<b>Location of Arrest</b>					
Home/Residence	696 (83.4)	164 (23.6)	235 (33.8)	85 (12.2)	56 (8.0)
Nursing Home	2 (0.2)	1 (50.0)	1 (50.0)	0 (0.0)	0 (0.0)
Public Setting	137 (16.4)	53 (38.7)	73 (53.3)	40 (29.2)	31 (22.6)
<b>Arrest Witnessed Status</b>					
Unwitnessed	520 (62.3)	91 (17.5)	147 (28.3)	42 (8.1)	23 (4.4)
Bystander witnessed	272 (32.6)	115 (42.3)	141 (51.8)	70 (25.7)	56 (20.6)
911 Responder witnessed	43 (5.1)	12 (27.9)	21 (48.8)	13 (30.2)	8 (18.6)
<b>Bystander CPR*</b>					
Bystander CPR	431 (54.4)	134 (31.1)	180 (41.8)	76 (17.6)	57 (13.2)
No Bystander CPR	361 (45.6)	72 (19.9)	108 (29.9)	36 (10.0)	22 (6.1)
Bystander CPR (excludes nursing home/healthcare facility events)	413 (53.5)	128 (31.0)	173 (41.9)	71 (17.2)	54 (13.1)
No Bystander CPR (excludes nursing home/healthcare facility events)	359 (46.5)	72 (20.1)	108 (30.1)	36 (10.0)	22 (6.1)
<b>Initial Arrest Rhythm</b>					
Shockable	43 (5.1)	18 (41.9)	23 (53.5)	14 (32.6)	13 (30.2)
Non-shockable	792 (94.9)	200 (25.3)	286 (36.1)	111 (14.0)	74 (9.3)
<b>AED Use</b>					
Bystander AED use*	16 (2.0)	10 (62.5)	11 (68.8)	7 (43.8)	6 (37.5)
Bystander AED use* (excludes nursing home/healthcare facility events)	11 (1.4)	8 (72.7)	9 (81.8)	5 (45.5)	4 (36.4)
Trained provider (First Responder) AED use	167 (20.0)	44 (26.3)	64 (38.3)	17 (10.2)	9 (5.4)
<b>Utstein</b>					
Witnessed and shockable	26 (3.1)	12 (46.2)	18 (69.2)	12 (46.2)	11 (42.3)
Bystander witnessed and shockable	22 (2.6)	12 (54.5)	16 (72.7)	11 (50.0)	10 (45.5)
<b>Hypothermia</b>					
Field hypothermia	10 (1.2)	8 (80.0)	8 (80.0)	1 (10.0)	0 (0.0)
In-hospital hypothermia (among admitted patients)	58 (18.8)	--	--	16 (27.6)	9 (15.5)

**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=3).

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

<sup>†</sup>CPC missing for 1 patients.

# CARES Survival Report

## All Agencies/National Data

Service Date: 01/01/19 - 12/31/19 | Non-Traumatic Etiology

	Age = 13 - 18 years N = 550				
	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>	550	186 (33.8)	204 (37.1)	89 (16.2)	80 (14.5)
<b>Location of Arrest</b>					
Home/Residence	419 (76.2)	126 (30.1)	136 (32.5)	50 (11.9)	44 (10.5)
Nursing Home	5 (0.9)	1 (20.0)	1 (20.0)	1 (20.0)	0 (0.0)
Public Setting	126 (22.9)	59 (46.8)	67 (53.2)	38 (30.2)	36 (28.6)
<b>Arrest Witnessed Status</b>					
Unwitnessed	315 (57.3)	77 (24.4)	89 (28.3)	26 (8.3)	22 (7.0)
Bystander witnessed	195 (35.5)	99 (50.8)	103 (52.8)	59 (30.3)	56 (28.7)
911 Responder witnessed	40 (7.3)	10 (25.0)	12 (30.0)	4 (10.0)	2 (5.0)
<b>Bystander CPR*</b>					
Bystander CPR	254 (49.8)	101 (39.8)	103 (40.6)	57 (22.4)	54 (21.3)
No Bystander CPR	256 (50.2)	75 (29.3)	89 (34.8)	28 (10.9)	24 (9.4)
Bystander CPR (excludes nursing home/healthcare facility events)	244 (48.9)	97 (39.8)	97 (39.8)	53 (21.7)	51 (20.9)
No Bystander CPR (excludes nursing home/healthcare facility events)	255 (51.1)	75 (29.4)	89 (34.9)	28 (11.0)	24 (9.4)
<b>Initial Arrest Rhythm</b>					
Shockable	106 (19.3)	63 (59.4)	64 (60.4)	51 (48.1)	51 (48.1)
Non-shockable	444 (80.7)	123 (27.7)	140 (31.5)	38 (8.6)	29 (6.5)
<b>AED Use</b>					
Bystander AED use*	26 (5.1)	19 (73.1)	18 (69.2)	15 (57.7)	14 (53.8)
Bystander AED use* (excludes nursing home/healthcare facility events)	21 (4.2)	16 (76.2)	15 (71.4)	12 (57.1)	12 (57.1)
Trained provider (First Responder) AED use	139 (25.3)	57 (41.0)	55 (39.6)	25 (18.0)	22 (15.8)
<b>Utstein</b>					
Witnessed and shockable	77 (14.0)	48 (62.3)	47 (61.0)	41 (53.2)	41 (53.2)
Bystander witnessed and shockable	72 (13.1)	47 (65.3)	45 (62.5)	40 (55.6)	40 (55.6)
<b>Hypothermia</b>					
Field hypothermia	10 (1.8)	7 (70.0)	7 (70.0)	1 (10.0)	1 (10.0)
In-hospital hypothermia (among admitted patients)	75 (36.8)	--	--	32 (42.7)	28 (37.3)

**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.

NOTE: Analysis excludes patients with missing hospital outcome (N=2).

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

<sup>†</sup>CPC missing for 1 patients.

# CARES Survival Report

## All Agencies/National Data

Service Date: 01/01/19 - 12/31/19 | Non-Traumatic Etiology

	Age = >18 years N = 98002				
	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>	98002	30337 (31.0)	27404 (28.0)	10324 (10.5)	8324 (8.5)
<b>Location of Arrest</b>					
Home/Residence	68636 (70.0)	20233 (29.5)	17910 (26.1)	5899 (8.6)	4666 (6.8)
Nursing Home	10977 (11.2)	2655 (24.2)	2012 (18.3)	513 (4.7)	263 (2.4)
Public Setting	18388 (18.8)	7449 (40.5)	7482 (40.7)	3912 (21.3)	3395 (18.5)
<b>Arrest Witnessed Status</b>					
Unwitnessed	48046 (49.0)	9670 (20.1)	8471 (17.6)	2109 (4.4)	1514 (3.2)
Bystander witnessed	37521 (38.3)	15466 (41.2)	13814 (36.8)	5952 (15.9)	4938 (13.2)
911 Responder witnessed	12434 (12.7)	5201 (41.8)	5119 (41.2)	2263 (18.2)	1872 (15.1)
<b>Bystander CPR*</b>					
Bystander CPR	40542 (47.4)	12803 (31.6)	11376 (28.1)	4757 (11.7)	3941 (9.7)
No Bystander CPR	45018 (52.6)	12330 (27.4)	10902 (24.2)	3302 (7.3)	2509 (5.6)
Bystander CPR (excludes nursing home/healthcare facility events)	29586 (40.9)	9758 (33.0)	8978 (30.3)	3891 (13.2)	3347 (11.3)
No Bystander CPR (excludes nursing home/healthcare facility events)	42827 (59.1)	11746 (27.4)	10446 (24.4)	3183 (7.4)	2437 (5.7)
<b>Initial Arrest Rhythm</b>					
Shockable	18835 (19.2)	9186 (48.8)	9048 (48.0)	5461 (29.0)	4855 (25.8)
Non-shockable	79157 (80.8)	21143 (26.7)	18349 (23.2)	4857 (6.1)	3464 (4.4)
<b>AED Use</b>					
Bystander AED use*	6479 (7.6)	2261 (34.9)	1998 (30.8)	1072 (16.5)	925 (14.3)
Bystander AED use* (excludes nursing home/healthcare facility events)	1702 (2.4)	826 (48.5)	820 (48.2)	581 (34.1)	546 (32.1)
Trained provider (First Responder) AED use	21976 (22.4)	6673 (30.4)	5788 (26.3)	2226 (10.1)	1857 (8.5)
<b>Utstein</b>					
Witnessed and shockable	13607 (13.9)	7330 (53.9)	7217 (53.0)	4648 (34.2)	4186 (30.8)
Bystander witnessed and shockable	11319 (11.5)	6022 (53.2)	5925 (52.3)	3746 (33.1)	3339 (29.5)
<b>Hypothermia</b>					
Field hypothermia	3351 (3.4)	1914 (57.1)	1619 (48.3)	555 (16.6)	420 (12.5)
In-hospital hypothermia (among admitted patients)	12714 (46.4)	--	--	4072 (32.0)	3067 (24.1)

**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=160).

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

<sup>†</sup>CPC missing for 27 patients.