

# CARES Survival Report

## All Agencies/National Data

Service Date: From 01/01/2015 Through 12/31/2015 | Non-Traumatic Etiology

	OVERALL N = 53637				
	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>	53637	17581 (32.8)	15527 (28.9)	5704 (10.6)	4602 (8.6)
<b>Location of Arrest</b>					
Home/Residence	37372 (69.7)	11545 (30.9)	10090 (27.0)	3296 (8.8)	2590 (6.9)
Nursing Home	5712 (10.6)	1552 (27.2)	1077 (18.9)	250 (4.4)	127 (2.2)
Public Setting	10553 (19.7)	4484 (42.5)	4360 (41.3)	2158 (20.4)	1885 (17.9)
<b>Arrest Witnessed Status</b>					
Unwitnessed	27412 (51.1)	6041 (22.0)	5152 (18.8)	1269 (4.6)	932 (3.4)
Bystander witnessed	19756 (36.8)	8650 (43.8)	7624 (38.6)	3231 (16.4)	2702 (13.7)
911 Responder witnessed	6467 (12.1)	2889 (44.7)	2750 (42.5)	1204 (18.6)	968 (15.0)
<b>Bystander CPR*</b>					
Bystander CPR	21746 (46.1)	7491 (34.4)	6431 (29.6)	2639 (12.1)	2205 (10.1)
No Bystander CPR	25415 (53.9)	7200 (28.3)	6345 (25.0)	1861 (7.3)	1429 (5.6)
Bystander CPR (excludes nursing home/healthcare facility events)	15743 (39.6)	5654 (35.9)	5052 (32.1)	2243 (14.2)	1929 (12.3)
No Bystander CPR (excludes nursing home/healthcare facility events)	24039 (60.4)	6838 (28.4)	6088 (25.3)	1796 (7.5)	1393 (5.8)
<b>Initial Arrest Rhythm</b>					
Shockable	10772 (20.1)	5400 (50.1)	5239 (48.6)	3139 (29.1)	2783 (25.8)
Non-shockable	42856 (79.9)	12176 (28.4)	10284 (24.0)	2563 (6.0)	1817 (4.2)
<b>AED Use</b>					
Bystander AED use*	2890 (6.1)	1173 (40.6)	1020 (35.3)	515 (17.8)	438 (15.2)
Bystander AED use* (excludes nursing home/healthcare facility events)	994 (2.5)	518 (52.1)	489 (49.2)	325 (32.7)	297 (29.9)
Trained provider (First Responder) AED use	12901 (24.1)	4103 (31.8)	3475 (26.9)	1263 (9.8)	1049 (8.1)
<b>Utstein</b>					
Witnessed and shockable	7580 (14.1)	4185 (55.2)	4093 (54.0)	2617 (34.5)	2361 (31.1)
Bystander witnessed and shockable	6366 (11.9)	3488 (54.8)	3407 (53.5)	2136 (33.6)	1913 (30.1)
<b>Hypothermia</b>					
Field hypothermia	5590 (10.4)	3667 (65.6)	2878 (51.5)	972 (17.4)	727 (13.0)
In-hospital hypothermia (among admitted patients)	6683 (43.0)	--	--	2273 (34.0)	1759 (26.3)

**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=194).

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

<sup>†</sup>CPC missing for 109 patients.

# CARES Survival Report

## All Agencies/National Data

Service Date: From 01/01/2015 Through 12/31/2015 | Non-Traumatic Etiology

	Age = ≤1 years N = 948				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2† (%)
<b>Total</b>	948	111 (11.7)	165 (17.4)	59 (6.2)	42 (4.4)
<b>Location of Arrest</b>					
Home/Residence	851 (89.8)	92 (10.8)	138 (16.2)	48 (5.6)	33 (3.9)
Nursing Home	9 (0.9)	1 (11.1)	2 (22.2)	1 (11.1)	1 (11.1)
Public Setting	88 (9.3)	18 (20.5)	25 (28.4)	10 (11.4)	8 (9.1)
<b>Arrest Witnessed Status</b>					
Unwitnessed	779 (82.2)	60 (7.7)	95 (12.2)	23 (3.0)	14 (1.8)
Bystander witnessed	139 (14.7)	41 (29.5)	59 (42.4)	31 (22.3)	25 (18.0)
911 Responder witnessed	30 (3.2)	10 (33.3)	11 (36.7)	5 (16.7)	3 (10.0)
<b>Bystander CPR*</b>					
Bystander CPR	414 (45.1)	57 (13.8)	79 (19.1)	34 (8.2)	23 (5.6)
No Bystander CPR	504 (54.9)	44 (8.7)	75 (14.9)	20 (4.0)	16 (3.2)
Bystander CPR (excludes nursing home/healthcare facility events)	401 (44.6)	53 (13.2)	76 (19.0)	32 (8.0)	21 (5.2)
No Bystander CPR (excludes nursing home/healthcare facility events)	498 (55.4)	42 (8.4)	71 (14.3)	19 (3.8)	15 (3.0)
<b>Initial Arrest Rhythm</b>					
Shockable	28 (3.0)	7 (25.0)	9 (32.1)	6 (21.4)	6 (21.4)
Non-shockable	920 (97.0)	104 (11.3)	156 (17.0)	53 (5.8)	36 (3.9)
<b>AED Use</b>					
Bystander AED use*	4 (0.4)	1 (25.0)	0 (0.0)	0 (0.0)	0 (0.0)
Bystander AED use* (excludes nursing home/healthcare facility events)	1 (0.1)	1 (100.0)	0 (0.0)	0 (0.0)	0 (0.0)
Trained provider (First Responder) AED use	121 (12.8)	12 (9.9)	16 (13.2)	4 (3.3)	3 (2.5)
<b>Utstein</b>					
Witnessed and shockable	9 (0.9)	5 (55.6)	6 (66.7)	4 (44.4)	4 (44.4)
Bystander witnessed and shockable	8 (0.8)	4 (50.0)	5 (62.5)	3 (37.5)	3 (37.5)
<b>Hypothermia</b>					
Field hypothermia	14 (1.5)	3 (21.4)	1 (7.1)	0 (0.0)	0 (0.0)
In-hospital hypothermia (among admitted patients)	22 (13.3)	--	--	5 (22.7)	2 (9.1)

**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=8).

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

†CPC missing for 0 patients.

# CARES Survival Report

## All Agencies/National Data

Service Date: From 01/01/2015 Through 12/31/2015 | Non-Traumatic Etiology

	Age = >1 - 12 years N = 368				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2† (%)
<b>Total</b>	368	101 (27.4)	140 (38.0)	61 (16.6)	47 (12.8)
<b>Location of Arrest</b>					
Home/Residence	286 (77.7)	70 (24.5)	103 (36.0)	35 (12.2)	23 (8.0)
Nursing Home	3 (0.8)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Public Setting	79 (21.5)	31 (39.2)	37 (46.8)	26 (32.9)	24 (30.4)
<b>Arrest Witnessed Status</b>					
Unwitnessed	227 (61.7)	44 (19.4)	64 (28.2)	18 (7.9)	15 (6.6)
Bystander witnessed	111 (30.2)	47 (42.3)	60 (54.1)	35 (31.5)	28 (25.2)
911 Responder witnessed	30 (8.2)	10 (33.3)	16 (53.3)	8 (26.7)	4 (13.3)
<b>Bystander CPR*</b>					
Bystander CPR	178 (52.7)	58 (32.6)	79 (44.4)	45 (25.3)	39 (21.9)
No Bystander CPR	160 (47.3)	25 (15.6)	45 (28.1)	8 (5.0)	4 (2.5)
Bystander CPR (excludes nursing home/healthcare facility events)	172 (52.0)	64 (37.2)	77 (44.8)	44 (25.6)	38 (22.1)
No Bystander CPR (excludes nursing home/healthcare facility events)	159 (48.0)	25 (15.7)	45 (28.3)	8 (5.0)	4 (2.5)
<b>Initial Arrest Rhythm</b>					
Shockable	26 (7.1)	13 (50.0)	14 (53.8)	13 (50.0)	11 (42.3)
Non-shockable	342 (92.9)	88 (25.7)	126 (36.8)	48 (14.0)	36 (10.5)
<b>AED Use</b>					
Bystander AED use*	9 (2.7)	2 (22.2)	3 (33.3)	3 (33.3)	3 (33.3)
Bystander AED use* (excludes nursing home/healthcare facility events)	9 (2.7)	4 (44.4)	3 (33.3)	3 (33.3)	3 (33.3)
Trained provider (First Responder) AED use	78 (21.2)	17 (21.8)	27 (34.6)	6 (7.7)	4 (5.1)
<b>Utstein</b>					
Witnessed and shockable	15 (4.1)	11 (73.3)	12 (80.0)	11 (73.3)	10 (66.7)
Bystander witnessed and shockable	13 (3.5)	10 (76.9)	11 (84.6)	10 (76.9)	9 (69.2)
<b>Hypothermia</b>					
Field hypothermia	7 (1.9)	2 (28.6)	3 (42.9)	1 (14.3)	1 (14.3)
In-hospital hypothermia (among admitted patients)	20 (14.3)	--	--	7 (35.0)	4 (20.0)

**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=5).

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

†CPC missing for 3 patients.

# CARES Survival Report

## All Agencies/National Data

Service Date: From 01/01/2015 Through 12/31/2015 | Non-Traumatic Etiology

	Age = 13 - 18 years N = 294				
	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>	294	131 (44.6)	139 (47.3)	69 (23.5)	55 (18.7)
<b>Location of Arrest</b>					
Home/Residence	198 (67.3)	75 (37.9)	77 (38.9)	31 (15.7)	20 (10.1)
Nursing Home	3 (1.0)	2 (66.7)	1 (33.3)	1 (33.3)	0 (0.0)
Public Setting	93 (31.6)	54 (58.1)	61 (65.6)	37 (39.8)	35 (37.6)
<b>Arrest Witnessed Status</b>					
Unwitnessed	152 (51.7)	51 (33.6)	50 (32.9)	14 (9.2)	9 (5.9)
Bystander witnessed	115 (39.1)	69 (60.0)	76 (66.1)	47 (40.9)	42 (36.5)
911 Responder witnessed	27 (9.2)	11 (40.7)	13 (48.1)	8 (29.6)	4 (14.8)
<b>Bystander CPR*</b>					
Bystander CPR	144 (53.9)	70 (48.6)	70 (48.6)	35 (24.3)	30 (20.8)
No Bystander CPR	123 (46.1)	50 (40.7)	56 (45.5)	26 (21.1)	21 (17.1)
Bystander CPR (excludes nursing home/healthcare facility events)	137 (52.7)	66 (48.2)	67 (48.9)	34 (24.8)	30 (21.9)
No Bystander CPR (excludes nursing home/healthcare facility events)	123 (47.3)	50 (40.7)	56 (45.5)	26 (21.1)	21 (17.1)
<b>Initial Arrest Rhythm</b>					
Shockable	74 (25.3)	50 (67.6)	52 (70.3)	40 (54.1)	36 (48.6)
Non-shockable	219 (74.7)	80 (36.5)	86 (39.3)	28 (12.8)	18 (8.2)
<b>AED Use</b>					
Bystander AED use*	21 (7.9)	16 (76.2)	17 (81.0)	10 (47.6)	8 (38.1)
Bystander AED use* (excludes nursing home/healthcare facility events)	18 (6.9)	15 (83.3)	15 (83.3)	9 (50.0)	8 (44.4)
Trained provider (First Responder) AED use	75 (25.5)	35 (46.7)	32 (42.7)	19 (25.3)	16 (21.3)
<b>Utstein</b>					
Witnessed and shockable	59 (20.1)	41 (69.5)	44 (74.6)	36 (61.0)	34 (57.6)
Bystander witnessed and shockable	55 (18.7)	40 (72.7)	42 (76.4)	35 (63.6)	33 (60.0)
<b>Hypothermia</b>					
Field hypothermia	26 (8.8)	17 (65.4)	18 (69.2)	7 (26.9)	6 (23.1)
In-hospital hypothermia (among admitted patients)	44 (31.7)	--	--	22 (50.0)	18 (40.9)

**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: From 01/01/2015 Through 12/31/2015 | Non-Traumatic Etiology

	Age = >18 years N = 51965				
	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>	51965	17220 (33.1)	15063 (29.0)	5506 (10.6)	4451 (8.6)
<b>Location of Arrest</b>					
Home/Residence	35990 (69.3)	11294 (31.4)	9758 (27.1)	3175 (8.8)	2509 (7.0)
Nursing Home	5695 (11.0)	1549 (27.2)	1074 (18.9)	248 (4.4)	126 (2.2)
Public Setting	10280 (19.8)	4377 (42.6)	4231 (41.2)	2083 (20.3)	1816 (17.7)
<b>Arrest Witnessed Status</b>					
Unwitnessed	26230 (50.5)	5884 (22.4)	4940 (18.8)	1213 (4.6)	894 (3.4)
Bystander witnessed	19366 (37.3)	8482 (43.8)	7417 (38.3)	3114 (16.1)	2604 (13.4)
911 Responder witnessed	6367 (12.3)	2853 (44.8)	2705 (42.5)	1179 (18.5)	953 (15.0)
<b>Bystander CPR*</b>					
Bystander CPR	20992 (46.0)	7289 (34.7)	6194 (29.5)	2522 (12.0)	2111 (10.1)
No Bystander CPR	24597 (54.0)	7077 (28.8)	6163 (25.1)	1805 (7.3)	1387 (5.6)
Bystander CPR (excludes nursing home/healthcare facility events)	15018 (39.3)	5462 (36.4)	4824 (32.1)	2130 (14.2)	1838 (12.2)
No Bystander CPR (excludes nursing home/healthcare facility events)	23228 (60.7)	6717 (28.9)	5910 (25.4)	1741 (7.5)	1352 (5.8)
<b>Initial Arrest Rhythm</b>					
Shockable	10641 (20.5)	5329 (50.1)	5163 (48.5)	3079 (28.9)	2729 (25.6)
Non-shockable	41317 (79.5)	11887 (28.8)	9897 (24.0)	2426 (5.9)	1721 (4.2)
<b>AED Use</b>					
Bystander AED use*	2853 (6.3)	1152 (40.4)	1000 (35.1)	502 (17.6)	427 (15.0)
Bystander AED use* (excludes nursing home/healthcare facility events)	966 (2.5)	498 (51.6)	471 (48.8)	313 (32.4)	286 (29.6)
Trained provider (First Responder) AED use	12626 (24.3)	4038 (32.0)	3399 (26.9)	1234 (9.8)	1026 (8.1)
<b>Utstein</b>					
Witnessed and shockable	7495 (14.4)	4127 (55.1)	4030 (53.8)	2565 (34.2)	2312 (30.8)
Bystander witnessed and shockable	6288 (12.1)	3433 (54.6)	3348 (53.2)	2087 (33.2)	1867 (29.7)
<b>Hypothermia</b>					
Field hypothermia	5543 (10.7)	3645 (65.8)	2856 (51.5)	964 (17.4)	720 (13.0)
In-hospital hypothermia (among admitted patients)	6591 (43.8)	--	--	2237 (33.9)	1733 (26.3)

**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=176).

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

<sup>†</sup>CPC missing for 103 patients.