

# CARES Survival Report

## All Agencies/National Data

Service Date: From 01/01/2015 Through 12/31/2015 | Presumed Cardiac Etiology

	OVERALL N = 45892				
	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>	45892	14389 (31.4)	12441 (27.1)	4678 (10.2)	3800 (8.3)
<b>Location of Arrest</b>					
Home/Residence	31589 (68.8)	9248 (29.3)	7871 (24.9)	2570 (8.1)	2022 (6.4)
Nursing Home	5123 (11.2)	1294 (25.3)	862 (16.8)	189 (3.7)	90 (1.8)
Public Setting	9180 (20.0)	3847 (41.9)	3708 (40.4)	1919 (20.9)	1688 (18.4)
<b>Arrest Witnessed Status</b>					
Unwitnessed	23720 (51.7)	4892 (20.6)	4050 (17.1)	952 (4.0)	663 (2.8)
Bystander witnessed	17374 (37.9)	7383 (42.5)	6454 (37.1)	2812 (16.2)	2380 (13.7)
911 Responder witnessed	4796 (10.5)	2113 (44.1)	1936 (40.4)	914 (19.1)	757 (15.8)
<b>Bystander CPR*</b>					
Bystander CPR	19184 (46.7)	6409 (33.4)	5454 (28.4)	2286 (11.9)	1918 (10.0)
No Bystander CPR	21903 (53.3)	5866 (26.8)	5050 (23.1)	1478 (6.7)	1125 (5.1)
Bystander CPR (excludes nursing home/healthcare facility events)	13680 (39.8)	4797 (35.1)	4264 (31.2)	1941 (14.2)	1676 (12.3)
No Bystander CPR (excludes nursing home/healthcare facility events)	20666 (60.2)	5565 (26.9)	4841 (23.4)	1425 (6.9)	1096 (5.3)
<b>Initial Arrest Rhythm</b>					
Shockable	10286 (22.4)	5184 (50.4)	5043 (49.0)	3045 (29.6)	2706 (26.3)
Non-shockable	35600 (77.6)	9203 (25.9)	7396 (20.8)	1632 (4.6)	1093 (3.1)
<b>AED Use</b>					
Bystander AED use*	2654 (6.5)	1071 (40.4)	928 (35.0)	489 (18.4)	418 (15.7)
Bystander AED use* (excludes nursing home/healthcare facility events)	908 (2.6)	479 (52.8)	451 (49.7)	314 (34.6)	287 (31.6)
Trained provider (First Responder) AED use	11299 (24.6)	3417 (30.2)	2865 (25.4)	1089 (9.6)	906 (8.0)
<b>Utstein</b>					
Witnessed and shockable	7251 (15.8)	4026 (55.5)	3947 (54.4)	2551 (35.2)	2307 (31.8)
Bystander witnessed and shockable	6155 (13.4)	3380 (54.9)	3312 (53.8)	2088 (33.9)	1872 (30.4)
<b>Hypothermia</b>					
Field hypothermia	4838 (10.5)	3141 (64.9)	2447 (50.6)	871 (18.0)	661 (13.7)
In-hospital hypothermia (among admitted patients)	5621 (45.2)	--	--	2053 (36.5)	1612 (28.7)

**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=153).

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

<sup>†</sup>CPC missing for 106 patients.

# CARES Survival Report

## All Agencies/National Data

Service Date: From 01/01/2015 Through 12/31/2015 | Presumed Cardiac Etiology

	Age = ≤1 years N = 457				
	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>	457	40 (8.8)	57 (12.5)	18 (3.9)	13 (2.8)
<b>Location of Arrest</b>					
Home/Residence	397 (86.9)	27 (6.8)	42 (10.6)	14 (3.5)	9 (2.3)
Nursing Home	8 (1.8)	0 (0.0)	1 (12.5)	0 (0.0)	0 (0.0)
Public Setting	52 (11.4)	13 (25.0)	14 (26.9)	4 (7.7)	4 (7.7)
<b>Arrest Witnessed Status</b>					
Unwitnessed	375 (82.1)	20 (5.3)	31 (8.3)	7 (1.9)	3 (0.8)
Bystander witnessed	68 (14.9)	18 (26.5)	23 (33.8)	9 (13.2)	8 (11.8)
911 Responder witnessed	14 (3.1)	2 (14.3)	3 (21.4)	2 (14.3)	2 (14.3)
<b>Bystander CPR*</b>					
Bystander CPR	183 (41.3)	16 (8.7)	21 (11.5)	9 (4.9)	6 (3.3)
No Bystander CPR	260 (58.7)	22 (8.5)	33 (12.7)	7 (2.7)	5 (1.9)
Bystander CPR (excludes nursing home/healthcare facility events)	174 (40.6)	13 (7.5)	20 (11.5)	9 (5.2)	6 (3.4)
No Bystander CPR (excludes nursing home/healthcare facility events)	255 (59.4)	20 (7.8)	29 (11.4)	6 (2.4)	4 (1.6)
<b>Initial Arrest Rhythm</b>					
Shockable	19 (4.2)	5 (26.3)	6 (31.6)	4 (21.1)	4 (21.1)
Non-shockable	438 (95.8)	35 (8.0)	51 (11.6)	14 (3.2)	9 (2.1)
<b>AED Use</b>					
Bystander AED use*	3 (0.7)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
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	56 (12.3)	4 (7.1)	4 (7.1)	1 (1.8)	1 (1.8)
<b>Utstein</b>					
Witnessed and shockable	7 (1.5)	5 (71.4)	6 (85.7)	4 (57.1)	4 (57.1)
Bystander witnessed and shockable	6 (1.3)	4 (66.7)	5 (83.3)	3 (50.0)	3 (50.0)
<b>Hypothermia</b>					
Field hypothermia	10 (2.2)	2 (20.0)	1 (10.0)	0 (0.0)	0 (0.0)
In-hospital hypothermia (among admitted patients)	9 (15.8)	--	--	2 (22.2)	1 (11.1)

**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=3).

\*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: From 01/01/2015 Through 12/31/2015 | Presumed Cardiac Etiology

	Age = >1 - 12 years N = 145				
	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>	145	36 (24.8)	45 (31.0)	19 (13.1)	15 (10.3)
<b>Location of Arrest</b>					
Home/Residence	116 (80.0)	24 (20.7)	32 (27.6)	8 (6.9)	4 (3.4)
Nursing Home	3 (2.1)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Public Setting	26 (17.9)	12 (46.2)	13 (50.0)	11 (42.3)	11 (42.3)
<b>Arrest Witnessed Status</b>					
Unwitnessed	94 (64.8)	12 (12.8)	18 (19.1)	2 (2.1)	1 (1.1)
Bystander witnessed	46 (31.7)	22 (47.8)	25 (54.3)	16 (34.8)	14 (30.4)
911 Responder witnessed	5 (3.4)	2 (40.0)	2 (40.0)	1 (20.0)	0 (0.0)
<b>Bystander CPR*</b>					
Bystander CPR	72 (51.4)	19 (26.4)	28 (38.9)	16 (22.2)	14 (19.4)
No Bystander CPR	68 (48.6)	9 (13.2)	15 (22.1)	2 (2.9)	1 (1.5)
Bystander CPR (excludes nursing home/healthcare facility events)	67 (49.6)	24 (35.8)	26 (38.8)	15 (22.4)	13 (19.4)
No Bystander CPR (excludes nursing home/healthcare facility events)	68 (50.4)	9 (13.2)	15 (22.1)	2 (2.9)	1 (1.5)
<b>Initial Arrest Rhythm</b>					
Shockable	19 (13.1)	11 (57.9)	11 (57.9)	11 (57.9)	10 (52.6)
Non-shockable	126 (86.9)	25 (19.8)	34 (27.0)	8 (6.3)	5 (4.0)
<b>AED Use</b>					
Bystander AED use*	7 (5.0)	2 (28.6)	2 (28.6)	2 (28.6)	2 (28.6)
Bystander AED use* (excludes nursing home/healthcare facility events)	7 (5.2)	3 (42.9)	2 (28.6)	2 (28.6)	2 (28.6)
Trained provider (First Responder) AED use	34 (23.4)	8 (23.5)	9 (26.5)	4 (11.8)	3 (8.8)
<b>Utstein</b>					
Witnessed and shockable	12 (8.3)	9 (75.0)	9 (75.0)	9 (75.0)	9 (75.0)
Bystander witnessed and shockable	11 (7.6)	9 (81.8)	9 (81.8)	9 (81.8)	9 (81.8)
<b>Hypothermia</b>					
Field hypothermia	2 (1.4)	1 (50.0)	1 (50.0)	1 (50.0)	1 (50.0)
In-hospital hypothermia (among admitted patients)	7 (15.6)	--	--	2 (28.6)	2 (28.6)

**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=2).

\*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 | Presumed Cardiac Etiology

	Age = 13 - 18 years N = 170				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2† (%)
<b>Total</b>	170	72 (42.4)	75 (44.1)	46 (27.1)	38 (22.4)
<b>Location of Arrest</b>					
Home/Residence	109 (64.1)	29 (26.6)	32 (29.4)	13 (11.9)	7 (6.4)
Nursing Home	2 (1.2)	1 (50.0)	0 (0.0)	0 (0.0)	0 (0.0)
Public Setting	59 (34.7)	42 (71.2)	43 (72.9)	33 (55.9)	31 (52.5)
<b>Arrest Witnessed Status</b>					
Unwitnessed	84 (49.4)	22 (26.2)	21 (25.0)	4 (4.8)	1 (1.2)
Bystander witnessed	74 (43.5)	45 (60.8)	49 (66.2)	38 (51.4)	34 (45.9)
911 Responder witnessed	12 (7.1)	5 (41.7)	5 (41.7)	4 (33.3)	3 (25.0)
<b>Bystander CPR*</b>					
Bystander CPR	94 (59.5)	45 (47.9)	48 (51.1)	29 (30.9)	25 (26.6)
No Bystander CPR	64 (40.5)	22 (34.4)	22 (34.4)	13 (20.3)	10 (15.6)
Bystander CPR (excludes nursing home/healthcare facility events)	91 (58.7)	43 (47.3)	48 (52.7)	29 (31.9)	25 (27.5)
No Bystander CPR (excludes nursing home/healthcare facility events)	64 (41.3)	22 (34.4)	22 (34.4)	13 (20.3)	10 (15.6)
<b>Initial Arrest Rhythm</b>					
Shockable	57 (33.5)	43 (75.4)	45 (78.9)	38 (66.7)	34 (59.6)
Non-shockable	113 (66.5)	29 (25.7)	30 (26.5)	8 (7.1)	4 (3.5)
<b>AED Use</b>					
Bystander AED use*	13 (8.2)	11 (84.6)	11 (84.6)	9 (69.2)	8 (61.5)
Bystander AED use* (excludes nursing home/healthcare facility events)	13 (8.4)	11 (84.6)	11 (84.6)	9 (69.2)	8 (61.5)
Trained provider (First Responder) AED use	48 (28.2)	22 (45.8)	22 (45.8)	15 (31.2)	14 (29.2)
<b>Utstein</b>					
Witnessed and shockable	49 (28.8)	37 (75.5)	40 (81.6)	35 (71.4)	33 (67.3)
Bystander witnessed and shockable	47 (27.6)	36 (76.6)	39 (83.0)	34 (72.3)	32 (68.1)
<b>Hypothermia</b>					
Field hypothermia	13 (7.6)	10 (76.9)	10 (76.9)	5 (38.5)	4 (30.8)
In-hospital hypothermia (among admitted patients)	24 (32.0)	--	--	18 (75.0)	15 (62.5)

**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=2).

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

†CPC missing for 2 patients.

# CARES Survival Report

## All Agencies/National Data

Service Date: From 01/01/2015 Through 12/31/2015 | Presumed Cardiac Etiology

	Age = >18 years N = 45087				
	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>	45087	14233 (31.6)	12254 (27.2)	4591 (10.2)	3731 (8.3)
<b>Location of Arrest</b>					
Home/Residence	30945 (68.6)	9163 (29.6)	7760 (25.1)	2533 (8.2)	2001 (6.5)
Nursing Home	5108 (11.3)	1293 (25.3)	861 (16.9)	189 (3.7)	90 (1.8)
Public Setting	9034 (20.0)	3777 (41.8)	3633 (40.2)	1869 (20.7)	1640 (18.2)
<b>Arrest Witnessed Status</b>					
Unwitnessed	23151 (51.3)	4837 (20.9)	3978 (17.2)	939 (4.1)	658 (2.8)
Bystander witnessed	17175 (38.1)	7294 (42.5)	6352 (37.0)	2747 (16.0)	2323 (13.5)
911 Responder witnessed	4759 (10.6)	2101 (44.1)	1923 (40.4)	905 (19.0)	750 (15.8)
<b>Bystander CPR*</b>					
Bystander CPR	18827 (46.7)	6320 (33.6)	5354 (28.4)	2231 (11.9)	1872 (9.9)
No Bystander CPR	21492 (53.3)	5811 (27.0)	4976 (23.2)	1455 (6.8)	1109 (5.2)
Bystander CPR (excludes nursing home/healthcare facility events)	13343 (39.7)	4714 (35.3)	4168 (31.2)	1887 (14.1)	1631 (12.2)
No Bystander CPR (excludes nursing home/healthcare facility events)	20260 (60.3)	5512 (27.2)	4771 (23.5)	1403 (6.9)	1081 (5.3)
<b>Initial Arrest Rhythm</b>					
Shockable	10188 (22.6)	5124 (50.3)	4980 (48.9)	2991 (29.4)	2657 (26.1)
Non-shockable	34894 (77.4)	9107 (26.1)	7272 (20.8)	1599 (4.6)	1073 (3.1)
<b>AED Use</b>					
Bystander AED use*	2628 (6.5)	1057 (40.2)	915 (34.8)	478 (18.2)	408 (15.5)
Bystander AED use* (excludes nursing home/healthcare facility events)	888 (2.6)	465 (52.4)	438 (49.3)	303 (34.1)	277 (31.2)
Trained provider (First Responder) AED use	11161 (24.8)	3383 (30.3)	2830 (25.4)	1069 (9.6)	888 (8.0)
<b>Utstein</b>					
Witnessed and shockable	7181 (15.9)	3974 (55.3)	3891 (54.2)	2502 (34.8)	2260 (31.5)
Bystander witnessed and shockable	6089 (13.5)	3330 (54.7)	3258 (53.5)	2041 (33.5)	1827 (30.0)
<b>Hypothermia</b>					
Field hypothermia	4813 (10.7)	3128 (65.0)	2435 (50.6)	865 (18.0)	656 (13.6)
In-hospital hypothermia (among admitted patients)	5579 (45.5)	--	--	2031 (36.4)	1594 (28.6)

**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=146).

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

<sup>†</sup>CPC missing for 101 patients.