

CARES Survival Report

Service Date: 01/01/18 - 12/31/18 | Presumed Cardiac Etiology

	OVERALL N = 6091				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	6091	1675 (27.5)	1512 (24.8)	492 (8.1)	413 (6.8)
Location of Arrest					
Home/Residence	4164 (68.4)	1062 (25.5)	961 (23.1)	270 (6.5)	218 (5.2)
Nursing Home	972 (16.0)	232 (23.9)	156 (16.0)	30 (3.1)	19 (2.0)
Public Setting	955 (15.7)	381 (39.9)	395 (41.4)	192 (20.1)	176 (18.4)
Arrest Witnessed Status					
Unwitnessed	3142 (51.6)	537 (17.1)	465 (14.8)	76 (2.4)	56 (1.8)
Bystander witnessed	2370 (38.9)	934 (39.4)	833 (35.1)	330 (13.9)	281 (11.9)
911 Responder witnessed	579 (9.5)	204 (35.2)	214 (37.0)	86 (14.9)	76 (13.1)
Bystander CPR*					
Bystander CPR	2617 (47.5)	762 (29.1)	640 (24.5)	238 (9.1)	208 (7.9)
No Bystander CPR	2895 (52.5)	709 (24.5)	658 (22.7)	168 (5.8)	129 (4.5)
Bystander CPR (excludes nursing home/healthcare facility events)	1676 (38.1)	515 (30.7)	461 (27.5)	197 (11.8)	176 (10.5)
No Bystander CPR (excludes nursing home/healthcare facility events)	2723 (61.9)	659 (24.2)	622 (22.8)	159 (5.8)	121 (4.4)
Initial Arrest Rhythm					
Shockable	1208 (19.8)	536 (44.4)	527 (43.6)	315 (26.1)	296 (24.5)
Non-shockable	4883 (80.2)	1139 (23.3)	985 (20.2)	177 (3.6)	117 (2.4)
AED Use					
Bystander AED use*	602 (10.9)	196 (32.6)	161 (26.7)	68 (11.3)	62 (10.3)
Bystander AED use* (excludes nursing home/healthcare facility events)	114 (2.6)	60 (52.6)	58 (50.9)	41 (36.0)	39 (34.2)
Trained provider (First Responder) AED use	1588 (26.1)	444 (28.0)	360 (22.7)	148 (9.3)	128 (8.1)
Utstein					
Witnessed and shockable	845 (13.9)	439 (52.0)	427 (50.5)	277 (32.8)	263 (31.1)
Bystander witnessed and shockable	721 (11.8)	372 (51.6)	362 (50.2)	225 (31.2)	212 (29.4)
Hypothermia					
Field hypothermia	53 (0.9)	38 (71.7)	32 (60.4)	12 (22.6)	10 (18.9)
In-hospital hypothermia (among admitted patients)	653 (43.2)	--	--	202 (30.9)	158 (24.2)

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=0).

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

[†]CPC missing for 0 patients.

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	Age = ≤1 years N = 39				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	39	5 (12.8)	5 (12.8)	0 (0.0)	0 (0.0)
Location of Arrest					
Home/Residence	35 (89.7)	4 (11.4)	4 (11.4)	0 (0.0)	0 (0.0)
Nursing Home	0 (0.0)	0 (NaN)	0 (NaN)	0 (NaN)	0 (NaN)
Public Setting	4 (10.3)	1 (25.0)	1 (25.0)	0 (0.0)	0 (0.0)
Arrest Witnessed Status					
Unwitnessed	29 (74.4)	4 (13.8)	4 (13.8)	0 (0.0)	0 (0.0)
Bystander witnessed	7 (17.9)	1 (14.3)	1 (14.3)	0 (0.0)	0 (0.0)
911 Responder witnessed	3 (7.7)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Bystander CPR*					
Bystander CPR	18 (50.0)	4 (22.2)	3 (16.7)	0 (0.0)	0 (0.0)
No Bystander CPR	18 (50.0)	1 (5.6)	2 (11.1)	0 (0.0)	0 (0.0)
Bystander CPR (excludes nursing home/healthcare facility events)	18 (50.0)	4 (22.2)	3 (16.7)	0 (0.0)	0 (0.0)
No Bystander CPR (excludes nursing home/healthcare facility events)	18 (50.0)	1 (5.6)	2 (11.1)	0 (0.0)	0 (0.0)
Initial Arrest Rhythm					
Shockable	1 (2.6)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Non-shockable	38 (97.4)	5 (13.2)	5 (13.2)	0 (0.0)	0 (0.0)
AED Use					
Bystander AED use*	0 (0.0)	0 (NaN)	0 (NaN)	0 (NaN)	0 (NaN)
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	2 (5.1)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Utstein					
Witnessed and shockable	0 (0.0)	0 (NaN)	0 (NaN)	0 (NaN)	0 (NaN)
Bystander witnessed and shockable	0 (0.0)	0 (NaN)	0 (NaN)	0 (NaN)	0 (NaN)
Hypothermia					
Field hypothermia	0 (0.0)	0 (NaN)	0 (NaN)	0 (NaN)	0 (NaN)
In-hospital hypothermia (among admitted patients)	0 (0.0)	--	--	0 (NaN)	0 (NaN)

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=0).

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

[†]CPC missing for 0 patients.

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	Age = >1 - 12 years N = 29				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	29	9 (31.0)	6 (20.7)	1 (3.4)	1 (3.4)
Location of Arrest					
Home/Residence	27 (93.1)	7 (25.9)	4 (14.8)	0 (0.0)	0 (0.0)
Nursing Home	0 (0.0)	0 (NaN)	0 (NaN)	0 (NaN)	0 (NaN)
Public Setting	2 (6.9)	2 (100.0)	2 (100.0)	1 (50.0)	1 (50.0)
Arrest Witnessed Status					
Unwitnessed	18 (62.1)	4 (22.2)	2 (11.1)	0 (0.0)	0 (0.0)
Bystander witnessed	9 (31.0)	5 (55.6)	4 (44.4)	1 (11.1)	1 (11.1)
911 Responder witnessed	2 (6.9)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Bystander CPR*					
Bystander CPR	11 (40.7)	1 (9.1)	2 (18.2)	1 (9.1)	1 (9.1)
No Bystander CPR	16 (59.3)	6 (37.5)	4 (25.0)	0 (0.0)	0 (0.0)
Bystander CPR (excludes nursing home/healthcare facility events)	11 (40.7)	3 (27.3)	2 (18.2)	1 (9.1)	1 (9.1)
No Bystander CPR (excludes nursing home/healthcare facility events)	16 (59.3)	6 (37.5)	4 (25.0)	0 (0.0)	0 (0.0)
Initial Arrest Rhythm					
Shockable	3 (10.3)	3 (100.0)	2 (66.7)	1 (33.3)	1 (33.3)
Non-shockable	26 (89.7)	6 (23.1)	4 (15.4)	0 (0.0)	0 (0.0)
AED Use					
Bystander AED use*	0 (0.0)	0 (NaN)	0 (NaN)	0 (NaN)	0 (NaN)
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	13 (44.8)	5 (38.5)	4 (30.8)	1 (7.7)	1 (7.7)
Utstein					
Witnessed and shockable	3 (10.3)	3 (100.0)	2 (66.7)	1 (33.3)	1 (33.3)
Bystander witnessed and shockable	3 (10.3)	3 (100.0)	2 (66.7)	1 (33.3)	1 (33.3)
Hypothermia					
Field hypothermia	1 (3.4)	1 (100.0)	1 (100.0)	0 (0.0)	0 (0.0)
In-hospital hypothermia (among admitted patients)	0 (0.0)	--	--	0 (NaN)	0 (NaN)

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=0).

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

[†]CPC missing for 0 patients.

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Age = 13 - 18 years					
N = 14					
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	14	8 (57.1)	9 (64.3)	3 (21.4)	2 (14.3)
Location of Arrest					
Home/Residence	8 (57.1)	4 (50.0)	4 (50.0)	0 (0.0)	0 (0.0)
Nursing Home	0 (0.0)	0 (NaN)	0 (NaN)	0 (NaN)	0 (NaN)
Public Setting	6 (42.9)	4 (66.7)	5 (83.3)	3 (50.0)	2 (33.3)
Arrest Witnessed Status					
Unwitnessed	3 (21.4)	2 (66.7)	2 (66.7)	0 (0.0)	0 (0.0)
Bystander witnessed	10 (71.4)	6 (60.0)	7 (70.0)	3 (30.0)	2 (20.0)
911 Responder witnessed	1 (7.1)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Bystander CPR*					
Bystander CPR	7 (53.8)	5 (71.4)	6 (85.7)	1 (14.3)	1 (14.3)
No Bystander CPR	6 (46.2)	3 (50.0)	3 (50.0)	2 (33.3)	1 (16.7)
Bystander CPR (excludes nursing home/healthcare facility events)	7 (53.8)	5 (71.4)	6 (85.7)	1 (14.3)	1 (14.3)
No Bystander CPR (excludes nursing home/healthcare facility events)	6 (46.2)	3 (50.0)	3 (50.0)	2 (33.3)	1 (16.7)
Initial Arrest Rhythm					
Shockable	4 (28.6)	3 (75.0)	4 (100.0)	3 (75.0)	2 (50.0)
Non-shockable	10 (71.4)	5 (50.0)	5 (50.0)	0 (0.0)	0 (0.0)
AED Use					
Bystander AED use*	1 (7.7)	1 (100.0)	1 (100.0)	1 (100.0)	1 (100.0)
Bystander AED use* (excludes nursing home/healthcare facility events)	1 (7.7)	1 (100.0)	1 (100.0)	1 (100.0)	1 (100.0)
Trained provider (First Responder) AED use	4 (28.6)	4 (100.0)	4 (100.0)	1 (25.0)	1 (25.0)
Utstein					
Witnessed and shockable	4 (28.6)	3 (75.0)	4 (100.0)	3 (75.0)	2 (50.0)
Bystander witnessed and shockable	4 (28.6)	3 (75.0)	4 (100.0)	3 (75.0)	2 (50.0)
Hypothermia					
Field hypothermia	0 (0.0)	0 (NaN)	0 (NaN)	0 (NaN)	0 (NaN)
In-hospital hypothermia (among admitted patients)	2 (22.2)	--	--	1 (50.0)	1 (50.0)

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NOTE: Analysis excludes patients with missing hospital outcome (N=0).

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

[†]CPC missing for 0 patients.

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Service Date: 01/01/18 - 12/31/18 | Presumed Cardiac Etiology

	Age = >18 years N = 6007				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	6007	1653 (27.5)	1492 (24.8)	488 (8.1)	410 (6.8)
Location of Arrest					
Home/Residence	4092 (68.1)	1047 (25.6)	949 (23.2)	270 (6.6)	218 (5.3)
Nursing Home	972 (16.2)	232 (23.9)	156 (16.0)	30 (3.1)	19 (2.0)
Public Setting	943 (15.7)	374 (39.7)	387 (41.0)	188 (19.9)	173 (18.3)
Arrest Witnessed Status					
Unwitnessed	3092 (51.5)	527 (17.0)	457 (14.8)	76 (2.5)	56 (1.8)
Bystander witnessed	2342 (39.0)	922 (39.4)	821 (35.1)	326 (13.9)	278 (11.9)
911 Responder witnessed	573 (9.5)	204 (35.6)	214 (37.3)	86 (15.0)	76 (13.3)
Bystander CPR*					
Bystander CPR	2580 (47.5)	750 (29.1)	629 (24.4)	236 (9.1)	206 (8.0)
No Bystander CPR	2854 (52.5)	699 (24.5)	649 (22.7)	166 (5.8)	128 (4.5)
Bystander CPR (excludes nursing home/healthcare facility events)	1639 (37.9)	503 (30.7)	450 (27.5)	195 (11.9)	174 (10.6)
No Bystander CPR (excludes nursing home/healthcare facility events)	2682 (62.1)	649 (24.2)	613 (22.9)	157 (5.9)	120 (4.5)
Initial Arrest Rhythm					
Shockable	1200 (20.0)	530 (44.2)	521 (43.4)	311 (25.9)	293 (24.4)
Non-shockable	4807 (80.0)	1123 (23.4)	971 (20.2)	177 (3.7)	117 (2.4)
AED Use					
Bystander AED use*	601 (11.1)	195 (32.4)	160 (26.6)	67 (11.1)	61 (10.1)
Bystander AED use* (excludes nursing home/healthcare facility events)	113 (2.6)	59 (52.2)	57 (50.4)	40 (35.4)	38 (33.6)
Trained provider (First Responder) AED use	1569 (26.1)	435 (27.7)	352 (22.4)	146 (9.3)	126 (8.0)
Utstein					
Witnessed and shockable	838 (14.0)	433 (51.7)	421 (50.2)	273 (32.6)	260 (31.0)
Bystander witnessed and shockable	714 (11.9)	366 (51.3)	356 (49.9)	221 (31.0)	209 (29.3)
Hypothermia					
Field hypothermia	52 (0.9)	37 (71.2)	31 (59.6)	12 (23.1)	10 (19.2)
In-hospital hypothermia (among admitted patients)	651 (43.6)	--	--	201 (30.9)	157 (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=0).

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

[†]CPC missing for 0 patients.