

CARES Survival Report

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

	OVERALL N = 7450				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	7450	2120 (28.5)	1988 (26.7)	627 (8.4)	516 (6.9)
Location of Arrest					
Home/Residence	5232 (70.2)	1397 (26.7)	1317 (25.2)	371 (7.1)	296 (5.7)
Nursing Home	1064 (14.3)	269 (25.3)	189 (17.8)	36 (3.4)	21 (2.0)
Public Setting	1154 (15.5)	454 (39.3)	482 (41.8)	220 (19.1)	199 (17.2)
Arrest Witnessed Status					
Unwitnessed	3813 (51.2)	701 (18.4)	631 (16.5)	118 (3.1)	90 (2.4)
Bystander witnessed	2811 (37.7)	1126 (40.1)	1031 (36.7)	389 (13.8)	323 (11.5)
911 Responder witnessed	826 (11.1)	293 (35.5)	326 (39.5)	120 (14.5)	103 (12.5)
Bystander CPR*					
Bystander CPR	3054 (46.1)	918 (30.1)	797 (26.1)	294 (9.6)	255 (8.3)
No Bystander CPR	3570 (53.9)	909 (25.5)	865 (24.2)	213 (6.0)	158 (4.4)
Bystander CPR (excludes nursing home/healthcare facility events)	2038 (37.6)	640 (31.4)	590 (28.9)	246 (12.1)	219 (10.7)
No Bystander CPR (excludes nursing home/healthcare facility events)	3383 (62.4)	854 (25.2)	824 (24.4)	203 (6.0)	150 (4.4)
Initial Arrest Rhythm					
Shockable	1312 (17.6)	574 (43.8)	566 (43.1)	326 (24.8)	305 (23.2)
Non-shockable	6138 (82.4)	1546 (25.2)	1422 (23.2)	301 (4.9)	211 (3.4)
AED Use					
Bystander AED use*	659 (9.9)	219 (33.2)	182 (27.6)	73 (11.1)	65 (9.9)
Bystander AED use* (excludes nursing home/healthcare facility events)	131 (2.4)	67 (51.1)	65 (49.6)	42 (32.1)	40 (30.5)
Trained provider (First Responder) AED use	1922 (25.8)	565 (29.4)	477 (24.8)	179 (9.3)	153 (8.0)
Utstein					
Witnessed and shockable	920 (12.4)	468 (50.9)	454 (49.3)	285 (31.0)	269 (29.2)
Bystander witnessed and shockable	770 (10.3)	393 (51.0)	381 (49.5)	230 (29.9)	215 (27.9)
Hypothermia					
Field hypothermia	70 (0.9)	47 (67.1)	41 (58.6)	13 (18.6)	11 (15.7)
In-hospital hypothermia (among admitted patients)	845 (42.5)	--	--	244 (28.9)	181 (21.4)

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 = 113				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	113	9 (8.0)	14 (12.4)	3 (2.7)	1 (0.9)
Location of Arrest					
Home/Residence	107 (94.7)	8 (7.5)	13 (12.1)	3 (2.8)	1 (0.9)
Nursing Home	0 (0.0)	0 (NaN)	0 (NaN)	0 (NaN)	0 (NaN)
Public Setting	6 (5.3)	1 (16.7)	1 (16.7)	0 (0.0)	0 (0.0)
Arrest Witnessed Status					
Unwitnessed	94 (83.2)	8 (8.5)	13 (13.8)	3 (3.2)	1 (1.1)
Bystander witnessed	16 (14.2)	1 (6.2)	1 (6.2)	0 (0.0)	0 (0.0)
911 Responder witnessed	3 (2.7)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Bystander CPR*					
Bystander CPR	54 (49.1)	7 (13.0)	6 (11.1)	2 (3.7)	1 (1.9)
No Bystander CPR	56 (50.9)	2 (3.6)	8 (14.3)	1 (1.8)	0 (0.0)
Bystander CPR (excludes nursing home/healthcare facility events)	54 (49.1)	7 (13.0)	6 (11.1)	2 (3.7)	1 (1.9)
No Bystander CPR (excludes nursing home/healthcare facility events)	56 (50.9)	2 (3.6)	8 (14.3)	1 (1.8)	0 (0.0)
Initial Arrest Rhythm					
Shockable	3 (2.7)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Non-shockable	110 (97.3)	9 (8.2)	14 (12.7)	3 (2.7)	1 (0.9)
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	17 (15.0)	0 (0.0)	3 (17.6)	1 (5.9)	0 (0.0)
Utstein					
Witnessed and shockable	1 (0.9)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Bystander witnessed and shockable	1 (0.9)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
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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Incident State: MI | Service Date: 01/01/18 - 12/31/18 | Non-Traumatic Etiology

	Age = >1 - 12 years N = 62				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	62	20 (32.3)	19 (30.6)	6 (9.7)	5 (8.1)
Location of Arrest					
Home/Residence	52 (83.9)	14 (26.9)	13 (25.0)	4 (7.7)	3 (5.8)
Nursing Home	0 (0.0)	0 (NaN)	0 (NaN)	0 (NaN)	0 (NaN)
Public Setting	10 (16.1)	6 (60.0)	6 (60.0)	2 (20.0)	2 (20.0)
Arrest Witnessed Status					
Unwitnessed	37 (59.7)	10 (27.0)	10 (27.0)	2 (5.4)	2 (5.4)
Bystander witnessed	19 (30.6)	8 (42.1)	7 (36.8)	2 (10.5)	2 (10.5)
911 Responder witnessed	6 (9.7)	2 (33.3)	2 (33.3)	2 (33.3)	1 (16.7)
Bystander CPR*					
Bystander CPR	25 (44.6)	5 (20.0)	7 (28.0)	4 (16.0)	4 (16.0)
No Bystander CPR	31 (55.4)	11 (35.5)	10 (32.3)	0 (0.0)	0 (0.0)
Bystander CPR (excludes nursing home/healthcare facility events)	24 (43.6)	7 (29.2)	7 (29.2)	4 (16.7)	4 (16.7)
No Bystander CPR (excludes nursing home/healthcare facility events)	31 (56.4)	11 (35.5)	10 (32.3)	0 (0.0)	0 (0.0)
Initial Arrest Rhythm					
Shockable	3 (4.8)	3 (100.0)	2 (66.7)	1 (33.3)	1 (33.3)
Non-shockable	59 (95.2)	17 (28.8)	17 (28.8)	5 (8.5)	4 (6.8)
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	21 (33.9)	8 (38.1)	7 (33.3)	2 (9.5)	2 (9.5)
Utstein					
Witnessed and shockable	3 (4.8)	3 (100.0)	2 (66.7)	1 (33.3)	1 (33.3)
Bystander witnessed and shockable	3 (4.8)	3 (100.0)	2 (66.7)	1 (33.3)	1 (33.3)
Hypothermia					
Field hypothermia	1 (1.6)	1 (100.0)	1 (100.0)	0 (0.0)	0 (0.0)
In-hospital hypothermia (among admitted patients)	1 (5.3)	--	--	0 (0.0)	0 (0.0)

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=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 = 40					
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	40	14 (35.0)	16 (40.0)	4 (10.0)	3 (7.5)
Location of Arrest					
Home/Residence	32 (80.0)	10 (31.2)	11 (34.4)	1 (3.1)	1 (3.1)
Nursing Home	0 (0.0)	0 (NaN)	0 (NaN)	0 (NaN)	0 (NaN)
Public Setting	8 (20.0)	4 (50.0)	5 (62.5)	3 (37.5)	2 (25.0)
Arrest Witnessed Status					
Unwitnessed	22 (55.0)	6 (27.3)	5 (22.7)	1 (4.5)	1 (4.5)
Bystander witnessed	17 (42.5)	8 (47.1)	11 (64.7)	3 (17.6)	2 (11.8)
911 Responder witnessed	1 (2.5)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Bystander CPR*					
Bystander CPR	18 (46.2)	7 (38.9)	9 (50.0)	2 (11.1)	2 (11.1)
No Bystander CPR	21 (53.8)	7 (33.3)	7 (33.3)	2 (9.5)	1 (4.8)
Bystander CPR (excludes nursing home/healthcare facility events)	18 (46.2)	7 (38.9)	9 (50.0)	2 (11.1)	2 (11.1)
No Bystander CPR (excludes nursing home/healthcare facility events)	21 (53.8)	7 (33.3)	7 (33.3)	2 (9.5)	1 (4.8)
Initial Arrest Rhythm					
Shockable	5 (12.5)	3 (60.0)	4 (80.0)	3 (60.0)	2 (40.0)
Non-shockable	35 (87.5)	11 (31.4)	12 (34.3)	1 (2.9)	1 (2.9)
AED Use					
Bystander AED use*	1 (2.6)	1 (100.0)	1 (100.0)	1 (100.0)	1 (100.0)
Bystander AED use* (excludes nursing home/healthcare facility events)	1 (2.6)	1 (100.0)	1 (100.0)	1 (100.0)	1 (100.0)
Trained provider (First Responder) AED use	15 (37.5)	9 (60.0)	8 (53.3)	2 (13.3)	2 (13.3)
Utstein					
Witnessed and shockable	5 (12.5)	3 (60.0)	4 (80.0)	3 (60.0)	2 (40.0)
Bystander witnessed and shockable	5 (12.5)	3 (60.0)	4 (80.0)	3 (60.0)	2 (40.0)
Hypothermia					
Field hypothermia	0 (0.0)	0 (NaN)	0 (NaN)	0 (NaN)	0 (NaN)
In-hospital hypothermia (among admitted patients)	4 (25.0)	--	--	1 (25.0)	1 (25.0)

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=0).

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

[†]CPC missing for 0 patients.

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

	Age = >18 years N = 7227				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	7227	2077 (28.7)	1937 (26.8)	614 (8.5)	507 (7.0)
Location of Arrest					
Home/Residence	5033 (69.6)	1365 (27.1)	1278 (25.4)	363 (7.2)	291 (5.8)
Nursing Home	1064 (14.7)	269 (25.3)	189 (17.8)	36 (3.4)	21 (2.0)
Public Setting	1130 (15.6)	443 (39.2)	470 (41.6)	215 (19.0)	195 (17.3)
Arrest Witnessed Status					
Unwitnessed	3660 (50.6)	677 (18.5)	603 (16.5)	112 (3.1)	86 (2.3)
Bystander witnessed	2755 (38.1)	1109 (40.3)	1011 (36.7)	384 (13.9)	319 (11.6)
911 Responder witnessed	812 (11.2)	291 (35.8)	323 (39.8)	118 (14.5)	102 (12.6)
Bystander CPR*					
Bystander CPR	2955 (46.1)	897 (30.4)	774 (26.2)	286 (9.7)	248 (8.4)
No Bystander CPR	3460 (53.9)	889 (25.7)	840 (24.3)	210 (6.1)	157 (4.5)
Bystander CPR (excludes nursing home/healthcare facility events)	1940 (37.2)	619 (31.9)	567 (29.2)	238 (12.3)	212 (10.9)
No Bystander CPR (excludes nursing home/healthcare facility events)	3273 (62.8)	834 (25.5)	799 (24.4)	200 (6.1)	149 (4.6)
Initial Arrest Rhythm					
Shockable	1301 (18.0)	568 (43.7)	560 (43.0)	322 (24.8)	302 (23.2)
Non-shockable	5926 (82.0)	1509 (25.5)	1377 (23.2)	292 (4.9)	205 (3.5)
AED Use					
Bystander AED use*	658 (10.3)	218 (33.1)	181 (27.5)	72 (10.9)	64 (9.7)
Bystander AED use* (excludes nursing home/healthcare facility events)	130 (2.5)	66 (50.8)	64 (49.2)	41 (31.5)	39 (30.0)
Trained provider (First Responder) AED use	1869 (25.9)	548 (29.3)	459 (24.6)	174 (9.3)	149 (8.0)
Utstein					
Witnessed and shockable	911 (12.6)	462 (50.7)	448 (49.2)	281 (30.8)	266 (29.2)
Bystander witnessed and shockable	761 (10.5)	387 (50.9)	375 (49.3)	226 (29.7)	212 (27.9)
Hypothermia					
Field hypothermia	69 (1.0)	46 (66.7)	40 (58.0)	13 (18.8)	11 (15.9)
In-hospital hypothermia (among admitted patients)	839 (43.3)	--	--	243 (29.0)	180 (21.5)

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=0).

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

[†]CPC missing for 0 patients.