

CARES Survival Report

Incident State: MI | Service Date: 01/01/17 - 12/31/17 | Presumed Cardiac Etiology

	OVERALL N = 5563				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	5563	1532 (27.5)	1413 (25.4)	481 (8.6)	400 (7.2)
Location of Arrest					
Home/Residence	3873 (69.6)	1021 (26.4)	925 (23.9)	264 (6.8)	215 (5.6)
Nursing Home	845 (15.2)	192 (22.7)	148 (17.5)	28 (3.3)	14 (1.7)
Public Setting	845 (15.2)	319 (37.8)	340 (40.2)	189 (22.4)	171 (20.2)
Arrest Witnessed Status					
Unwitnessed	2865 (51.5)	537 (18.7)	492 (17.2)	120 (4.2)	92 (3.2)
Bystander witnessed	2125 (38.2)	764 (36.0)	703 (33.1)	269 (12.7)	231 (10.9)
911 Responder witnessed	573 (10.3)	231 (40.3)	218 (38.0)	92 (16.1)	77 (13.4)
Bystander CPR*					
Bystander CPR	2284 (45.8)	630 (27.6)	573 (25.1)	210 (9.2)	181 (7.9)
No Bystander CPR	2706 (54.2)	671 (24.8)	622 (23.0)	179 (6.6)	142 (5.2)
Bystander CPR (excludes nursing home/healthcare facility events)	1460 (36.2)	432 (29.6)	415 (28.4)	177 (12.1)	161 (11.0)
No Bystander CPR (excludes nursing home/healthcare facility events)	2569 (63.8)	637 (24.8)	590 (23.0)	171 (6.7)	139 (5.4)
Initial Arrest Rhythm					
Shockable	1108 (19.9)	491 (44.3)	494 (44.6)	294 (26.5)	269 (24.3)
Non-shockable	4455 (80.1)	1041 (23.4)	919 (20.6)	187 (4.2)	131 (2.9)
AED Use					
Bystander AED use*	466 (9.3)	145 (31.1)	126 (27.0)	55 (11.8)	45 (9.7)
Bystander AED use* (excludes nursing home/healthcare facility events)	81 (2.0)	41 (50.6)	39 (48.1)	29 (35.8)	28 (34.6)
Trained provider (First Responder) AED use	1497 (26.9)	413 (27.6)	386 (25.8)	135 (9.0)	116 (7.7)
Utstein					
Witnessed and shockable	771 (13.9)	364 (47.2)	362 (47.0)	228 (29.6)	209 (27.1)
Bystander witnessed and shockable	633 (11.4)	288 (45.5)	290 (45.8)	171 (27.0)	158 (25.0)
Hypothermia					
Field hypothermia	33 (0.6)	25 (75.8)	20 (60.6)	9 (27.3)	8 (24.2)
In-hospital hypothermia (among admitted patients)	618 (43.7)	--	--	195 (31.6)	146 (23.6)

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=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: 01/01/17 - 12/31/17 | Presumed Cardiac Etiology

	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	4 (10.3)	5 (12.8)	1 (2.6)	1 (2.6)
Location of Arrest					
Home/Residence	37 (94.9)	3 (8.1)	5 (13.5)	1 (2.7)	1 (2.7)
Nursing Home	0 (0.0)	0 (NaN)	0 (NaN)	0 (NaN)	0 (NaN)
Public Setting	2 (5.1)	1 (50.0)	0 (0.0)	0 (0.0)	0 (0.0)
Arrest Witnessed Status					
Unwitnessed	29 (74.4)	2 (6.9)	4 (13.8)	0 (0.0)	0 (0.0)
Bystander witnessed	9 (23.1)	2 (22.2)	1 (11.1)	1 (11.1)	1 (11.1)
911 Responder witnessed	1 (2.6)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Bystander CPR*					
Bystander CPR	19 (50.0)	4 (21.1)	3 (15.8)	1 (5.3)	1 (5.3)
No Bystander CPR	19 (50.0)	0 (0.0)	2 (10.5)	0 (0.0)	0 (0.0)
Bystander CPR (excludes nursing home/healthcare facility events)	19 (50.0)	4 (21.1)	3 (15.8)	1 (5.3)	1 (5.3)
No Bystander CPR (excludes nursing home/healthcare facility events)	19 (50.0)	0 (0.0)	2 (10.5)	0 (0.0)	0 (0.0)
Initial Arrest Rhythm					
Shockable	4 (10.3)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Non-shockable	35 (89.7)	4 (11.4)	5 (14.3)	1 (2.9)	1 (2.9)
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	6 (15.4)	1 (16.7)	3 (50.0)	0 (0.0)	0 (0.0)
Utstein					
Witnessed and shockable	2 (5.1)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Bystander witnessed and shockable	2 (5.1)	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: 01/01/17 - 12/31/17 | Presumed Cardiac Etiology

	Age = >1 - 12 years N = 15				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	15	4 (26.7)	4 (26.7)	2 (13.3)	2 (13.3)
Location of Arrest					
Home/Residence	12 (80.0)	3 (25.0)	3 (25.0)	1 (8.3)	1 (8.3)
Nursing Home	0 (0.0)	0 (NaN)	0 (NaN)	0 (NaN)	0 (NaN)
Public Setting	3 (20.0)	1 (33.3)	1 (33.3)	1 (33.3)	1 (33.3)
Arrest Witnessed Status					
Unwitnessed	9 (60.0)	1 (11.1)	2 (22.2)	0 (0.0)	0 (0.0)
Bystander witnessed	6 (40.0)	3 (50.0)	2 (33.3)	2 (33.3)	2 (33.3)
911 Responder witnessed	0 (0.0)	0 (NaN)	0 (NaN)	0 (NaN)	0 (NaN)
Bystander CPR*					
Bystander CPR	5 (33.3)	1 (20.0)	1 (20.0)	1 (20.0)	1 (20.0)
No Bystander CPR	10 (66.7)	3 (30.0)	3 (30.0)	1 (10.0)	1 (10.0)
Bystander CPR (excludes nursing home/healthcare facility events)	4 (28.6)	1 (25.0)	1 (25.0)	1 (25.0)	1 (25.0)
No Bystander CPR (excludes nursing home/healthcare facility events)	10 (71.4)	3 (30.0)	3 (30.0)	1 (10.0)	1 (10.0)
Initial Arrest Rhythm					
Shockable	2 (13.3)	1 (50.0)	1 (50.0)	1 (50.0)	1 (50.0)
Non-shockable	13 (86.7)	3 (23.1)	3 (23.1)	1 (7.7)	1 (7.7)
AED Use					
Bystander AED use*	2 (13.3)	1 (50.0)	1 (50.0)	1 (50.0)	1 (50.0)
Bystander AED use* (excludes nursing home/healthcare facility events)	1 (7.1)	1 (100.0)	1 (100.0)	1 (100.0)	1 (100.0)
Trained provider (First Responder) AED use	2 (13.3)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Utstein					
Witnessed and shockable	1 (6.7)	1 (100.0)	1 (100.0)	1 (100.0)	1 (100.0)
Bystander witnessed and shockable	1 (6.7)	1 (100.0)	1 (100.0)	1 (100.0)	1 (100.0)
Hypothermia					
Field hypothermia	1 (6.7)	1 (100.0)	1 (100.0)	1 (100.0)	1 (100.0)
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 = 21					
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	21	6 (28.6)	5 (23.8)	3 (14.3)	3 (14.3)
Location of Arrest					
Home/Residence	18 (85.7)	4 (22.2)	2 (11.1)	1 (5.6)	1 (5.6)
Nursing Home	0 (0.0)	0 (NaN)	0 (NaN)	0 (NaN)	0 (NaN)
Public Setting	3 (14.3)	2 (66.7)	3 (100.0)	2 (66.7)	2 (66.7)
Arrest Witnessed Status					
Unwitnessed	14 (66.7)	0 (0.0)	1 (7.1)	0 (0.0)	0 (0.0)
Bystander witnessed	6 (28.6)	5 (83.3)	3 (50.0)	3 (50.0)	3 (50.0)
911 Responder witnessed	1 (4.8)	1 (100.0)	1 (100.0)	0 (0.0)	0 (0.0)
Bystander CPR*					
Bystander CPR	12 (60.0)	5 (41.7)	4 (33.3)	3 (25.0)	3 (25.0)
No Bystander CPR	8 (40.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Bystander CPR (excludes nursing home/healthcare facility events)	11 (57.9)	5 (45.5)	3 (27.3)	3 (27.3)	3 (27.3)
No Bystander CPR (excludes nursing home/healthcare facility events)	8 (42.1)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Initial Arrest Rhythm					
Shockable	2 (9.5)	2 (100.0)	2 (100.0)	2 (100.0)	2 (100.0)
Non-shockable	19 (90.5)	4 (21.1)	3 (15.8)	1 (5.3)	1 (5.3)
AED Use					
Bystander AED use*	1 (5.0)	0 (0.0)	1 (100.0)	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	6 (28.6)	3 (50.0)	2 (33.3)	2 (33.3)	2 (33.3)
Utstein					
Witnessed and shockable	2 (9.5)	2 (100.0)	2 (100.0)	2 (100.0)	2 (100.0)
Bystander witnessed and shockable	2 (9.5)	2 (100.0)	2 (100.0)	2 (100.0)	2 (100.0)
Hypothermia					
Field hypothermia	0 (0.0)	0 (NaN)	0 (NaN)	0 (NaN)	0 (NaN)
In-hospital hypothermia (among admitted patients)	1 (20.0)	--	--	1 (100.0)	1 (100.0)

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: 01/01/17 - 12/31/17 | Presumed Cardiac Etiology

	Age = >18 years N = 5488				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	5488	1518 (27.7)	1399 (25.5)	475 (8.7)	394 (7.2)
Location of Arrest					
Home/Residence	3806 (69.4)	1011 (26.6)	915 (24.0)	261 (6.9)	212 (5.6)
Nursing Home	845 (15.4)	192 (22.7)	148 (17.5)	28 (3.3)	14 (1.7)
Public Setting	837 (15.3)	315 (37.6)	336 (40.1)	186 (22.2)	168 (20.1)
Arrest Witnessed Status					
Unwitnessed	2813 (51.3)	534 (19.0)	485 (17.2)	120 (4.3)	92 (3.3)
Bystander witnessed	2104 (38.3)	754 (35.8)	697 (33.1)	263 (12.5)	225 (10.7)
911 Responder witnessed	571 (10.4)	230 (40.3)	217 (38.0)	92 (16.1)	77 (13.5)
Bystander CPR*					
Bystander CPR	2248 (45.7)	620 (27.6)	565 (25.1)	205 (9.1)	176 (7.8)
No Bystander CPR	2669 (54.3)	668 (25.0)	617 (23.1)	178 (6.7)	141 (5.3)
Bystander CPR (excludes nursing home/healthcare facility events)	1426 (36.0)	422 (29.6)	408 (28.6)	172 (12.1)	156 (10.9)
No Bystander CPR (excludes nursing home/healthcare facility events)	2532 (64.0)	634 (25.0)	585 (23.1)	170 (6.7)	138 (5.5)
Initial Arrest Rhythm					
Shockable	1100 (20.0)	488 (44.4)	491 (44.6)	291 (26.5)	266 (24.2)
Non-shockable	4388 (80.0)	1030 (23.5)	908 (20.7)	184 (4.2)	128 (2.9)
AED Use					
Bystander AED use*	463 (9.4)	144 (31.1)	124 (26.8)	54 (11.7)	44 (9.5)
Bystander AED use* (excludes nursing home/healthcare facility events)	80 (2.0)	40 (50.0)	38 (47.5)	28 (35.0)	27 (33.8)
Trained provider (First Responder) AED use	1483 (27.0)	409 (27.6)	381 (25.7)	133 (9.0)	114 (7.7)
Utstein					
Witnessed and shockable	766 (14.0)	361 (47.1)	359 (46.9)	225 (29.4)	206 (26.9)
Bystander witnessed and shockable	628 (11.4)	285 (45.4)	287 (45.7)	168 (26.8)	155 (24.7)
Hypothermia					
Field hypothermia	32 (0.6)	24 (75.0)	19 (59.4)	8 (25.0)	7 (21.9)
In-hospital hypothermia (among admitted patients)	617 (44.1)	--	--	194 (31.4)	145 (23.5)

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.