

CARES Survival Report

Incident State: MI | Service Date: 01/01/17 - 12/31/17 | Non-Traumatic Etiology

	OVERALL N = 6878				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	6878	1979 (28.8)	1897 (27.6)	637 (9.3)	534 (7.8)
Location of Arrest					
Home/Residence	4903 (71.3)	1348 (27.5)	1287 (26.2)	377 (7.7)	313 (6.4)
Nursing Home	934 (13.6)	228 (24.4)	177 (19.0)	37 (4.0)	18 (1.9)
Public Setting	1041 (15.1)	403 (38.7)	433 (41.6)	223 (21.4)	203 (19.5)
Arrest Witnessed Status					
Unwitnessed	3598 (52.3)	724 (20.1)	701 (19.5)	172 (4.8)	137 (3.8)
Bystander witnessed	2486 (36.1)	929 (37.4)	871 (35.0)	337 (13.6)	291 (11.7)
911 Responder witnessed	794 (11.5)	326 (41.1)	325 (40.9)	128 (16.1)	106 (13.4)
Bystander CPR*					
Bystander CPR	2722 (44.7)	791 (29.1)	739 (27.1)	276 (10.1)	238 (8.7)
No Bystander CPR	3362 (55.3)	862 (25.6)	833 (24.8)	233 (6.9)	190 (5.7)
Bystander CPR (excludes nursing home/healthcare facility events)	1827 (36.2)	562 (30.8)	557 (30.5)	232 (12.7)	210 (11.5)
No Bystander CPR (excludes nursing home/healthcare facility events)	3213 (63.7)	827 (25.7)	797 (24.8)	225 (7.0)	187 (5.8)
Initial Arrest Rhythm					
Shockable	1191 (17.3)	518 (43.5)	530 (44.5)	313 (26.3)	285 (23.9)
Non-shockable	5687 (82.7)	1461 (25.7)	1367 (24.0)	324 (5.7)	249 (4.4)
AED Use					
Bystander AED use*	510 (8.4)	164 (32.2)	143 (28.0)	64 (12.5)	52 (10.2)
Bystander AED use* (excludes nursing home/healthcare facility events)	93 (1.8)	49 (52.7)	47 (50.5)	34 (36.6)	33 (35.5)
Trained provider (First Responder) AED use	1873 (27.2)	542 (28.9)	522 (27.9)	174 (9.3)	149 (8.0)
Utstein					
Witnessed and shockable	828 (12.0)	386 (46.6)	391 (47.2)	245 (29.6)	223 (26.9)
Bystander witnessed and shockable	677 (9.8)	305 (45.1)	310 (45.8)	184 (27.2)	168 (24.8)
Hypothermia					
Field hypothermia	46 (0.7)	33 (71.7)	26 (56.5)	11 (23.9)	10 (21.7)
In-hospital hypothermia (among admitted patients)	793 (41.8)	--	--	235 (29.6)	176 (22.2)

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=1).

*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 | Non-Traumatic Etiology

	Age = ≤1 years N = 117				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	117	10 (8.5)	19 (16.2)	5 (4.3)	5 (4.3)
Location of Arrest					
Home/Residence	114 (97.4)	9 (7.9)	19 (16.7)	5 (4.4)	5 (4.4)
Nursing Home	0 (0.0)	0 (NaN)	0 (NaN)	0 (NaN)	0 (NaN)
Public Setting	3 (2.6)	1 (33.3)	0 (0.0)	0 (0.0)	0 (0.0)
Arrest Witnessed Status					
Unwitnessed	88 (75.2)	4 (4.5)	11 (12.5)	1 (1.1)	1 (1.1)
Bystander witnessed	25 (21.4)	6 (24.0)	7 (28.0)	3 (12.0)	3 (12.0)
911 Responder witnessed	4 (3.4)	0 (0.0)	1 (25.0)	1 (25.0)	1 (25.0)
Bystander CPR*					
Bystander CPR	60 (53.1)	7 (11.7)	10 (16.7)	2 (3.3)	2 (3.3)
No Bystander CPR	53 (46.9)	3 (5.7)	8 (15.1)	2 (3.8)	2 (3.8)
Bystander CPR (excludes nursing home/healthcare facility events)	60 (53.1)	7 (11.7)	10 (16.7)	2 (3.3)	2 (3.3)
No Bystander CPR (excludes nursing home/healthcare facility events)	53 (46.9)	3 (5.7)	8 (15.1)	2 (3.8)	2 (3.8)
Initial Arrest Rhythm					
Shockable	6 (5.1)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Non-shockable	111 (94.9)	10 (9.0)	19 (17.1)	5 (4.5)	5 (4.5)
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	24 (20.5)	3 (12.5)	4 (16.7)	0 (0.0)	0 (0.0)
Utstein					
Witnessed and shockable	3 (2.6)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Bystander witnessed and shockable	3 (2.6)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Hypothermia					
Field hypothermia	1 (0.9)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
In-hospital hypothermia (among admitted patients)	1 (5.3)	--	--	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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Age = >1 - 12 years					
N = 37					
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	37	9 (24.3)	9 (24.3)	3 (8.1)	3 (8.1)
Location of Arrest					
Home/Residence	30 (81.1)	6 (20.0)	7 (23.3)	1 (3.3)	1 (3.3)
Nursing Home	0 (0.0)	0 (NaN)	0 (NaN)	0 (NaN)	0 (NaN)
Public Setting	7 (18.9)	3 (42.9)	2 (28.6)	2 (28.6)	2 (28.6)
Arrest Witnessed Status					
Unwitnessed	24 (64.9)	3 (12.5)	5 (20.8)	0 (0.0)	0 (0.0)
Bystander witnessed	10 (27.0)	5 (50.0)	3 (30.0)	3 (30.0)	3 (30.0)
911 Responder witnessed	3 (8.1)	1 (33.3)	1 (33.3)	0 (0.0)	0 (0.0)
Bystander CPR*					
Bystander CPR	15 (44.1)	3 (20.0)	4 (26.7)	2 (13.3)	2 (13.3)
No Bystander CPR	19 (55.9)	5 (26.3)	4 (21.1)	1 (5.3)	1 (5.3)
Bystander CPR (excludes nursing home/healthcare facility events)	14 (42.4)	3 (21.4)	4 (28.6)	2 (14.3)	2 (14.3)
No Bystander CPR (excludes nursing home/healthcare facility events)	19 (57.6)	5 (26.3)	4 (21.1)	1 (5.3)	1 (5.3)
Initial Arrest Rhythm					
Shockable	3 (8.1)	1 (33.3)	1 (33.3)	1 (33.3)	1 (33.3)
Non-shockable	34 (91.9)	8 (23.5)	8 (23.5)	2 (5.9)	2 (5.9)
AED Use					
Bystander AED use*	2 (5.9)	1 (50.0)	1 (50.0)	1 (50.0)	1 (50.0)
Bystander AED use* (excludes nursing home/healthcare facility events)	1 (3.0)	1 (100.0)	1 (100.0)	1 (100.0)	1 (100.0)
Trained provider (First Responder) AED use	9 (24.3)	2 (22.2)	2 (22.2)	0 (0.0)	0 (0.0)
Utstein					
Witnessed and shockable	1 (2.7)	1 (100.0)	1 (100.0)	1 (100.0)	1 (100.0)
Bystander witnessed and shockable	1 (2.7)	1 (100.0)	1 (100.0)	1 (100.0)	1 (100.0)
Hypothermia					
Field hypothermia	1 (2.7)	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.

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Age = 13 - 18 years					
N = 34					
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	34	10 (29.4)	9 (26.5)	6 (17.6)	4 (11.8)
Location of Arrest					
Home/Residence	30 (88.2)	7 (23.3)	5 (16.7)	3 (10.0)	2 (6.7)
Nursing Home	0 (0.0)	0 (NaN)	0 (NaN)	0 (NaN)	0 (NaN)
Public Setting	4 (11.8)	3 (75.0)	4 (100.0)	3 (75.0)	2 (50.0)
Arrest Witnessed Status					
Unwitnessed	26 (76.5)	3 (11.5)	4 (15.4)	2 (7.7)	1 (3.8)
Bystander witnessed	6 (17.6)	5 (83.3)	3 (50.0)	3 (50.0)	3 (50.0)
911 Responder witnessed	2 (5.9)	2 (100.0)	2 (100.0)	1 (50.0)	0 (0.0)
Bystander CPR*					
Bystander CPR	15 (46.9)	7 (46.7)	6 (40.0)	4 (26.7)	4 (26.7)
No Bystander CPR	17 (53.1)	1 (5.9)	1 (5.9)	1 (5.9)	0 (0.0)
Bystander CPR (excludes nursing home/healthcare facility events)	14 (45.2)	7 (50.0)	5 (35.7)	4 (28.6)	4 (28.6)
No Bystander CPR (excludes nursing home/healthcare facility events)	17 (54.8)	1 (5.9)	1 (5.9)	1 (5.9)	0 (0.0)
Initial Arrest Rhythm					
Shockable	2 (5.9)	2 (100.0)	2 (100.0)	2 (100.0)	2 (100.0)
Non-shockable	32 (94.1)	8 (25.0)	7 (21.9)	4 (12.5)	2 (6.2)
AED Use					
Bystander AED use*	1 (3.1)	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	12 (35.3)	4 (33.3)	3 (25.0)	3 (25.0)	2 (16.7)
Utstein					
Witnessed and shockable	2 (5.9)	2 (100.0)	2 (100.0)	2 (100.0)	2 (100.0)
Bystander witnessed and shockable	2 (5.9)	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)	2 (22.2)	--	--	2 (100.0)	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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	Age = >18 years N = 6684				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	6684	1948 (29.1)	1858 (27.8)	623 (9.3)	522 (7.8)
Location of Arrest					
Home/Residence	4725 (70.7)	1324 (28.0)	1254 (26.5)	368 (7.8)	305 (6.5)
Nursing Home	934 (14.0)	228 (24.4)	177 (19.0)	37 (4.0)	18 (1.9)
Public Setting	1025 (15.3)	396 (38.6)	427 (41.7)	218 (21.3)	199 (19.4)
Arrest Witnessed Status					
Unwitnessed	3457 (51.7)	713 (20.6)	680 (19.7)	169 (4.9)	135 (3.9)
Bystander witnessed	2443 (36.5)	912 (37.3)	857 (35.1)	328 (13.4)	282 (11.5)
911 Responder witnessed	784 (11.7)	323 (41.2)	321 (40.9)	126 (16.1)	105 (13.4)
Bystander CPR*					
Bystander CPR	2631 (44.6)	774 (29.4)	719 (27.3)	268 (10.2)	230 (8.7)
No Bystander CPR	3269 (55.4)	851 (26.0)	818 (25.0)	229 (7.0)	187 (5.7)
Bystander CPR (excludes nursing home/healthcare facility events)	1738 (35.8)	545 (31.4)	538 (31.0)	224 (12.9)	202 (11.6)
No Bystander CPR (excludes nursing home/healthcare facility events)	3120 (64.2)	816 (26.2)	782 (25.1)	221 (7.1)	184 (5.9)
Initial Arrest Rhythm					
Shockable	1180 (17.7)	515 (43.6)	527 (44.7)	310 (26.3)	282 (23.9)
Non-shockable	5504 (82.3)	1433 (26.0)	1331 (24.2)	313 (5.7)	240 (4.4)
AED Use					
Bystander AED use*	507 (8.6)	163 (32.1)	141 (27.8)	63 (12.4)	51 (10.1)
Bystander AED use* (excludes nursing home/healthcare facility events)	92 (1.9)	48 (52.2)	46 (50.0)	33 (35.9)	32 (34.8)
Trained provider (First Responder) AED use	1828 (27.3)	533 (29.2)	513 (28.1)	171 (9.4)	147 (8.0)
Utstein					
Witnessed and shockable	822 (12.3)	383 (46.6)	388 (47.2)	242 (29.4)	220 (26.8)
Bystander witnessed and shockable	671 (10.0)	302 (45.0)	307 (45.8)	181 (27.0)	165 (24.6)
Hypothermia					
Field hypothermia	44 (0.7)	32 (72.7)	25 (56.8)	10 (22.7)	9 (20.5)
In-hospital hypothermia (among admitted patients)	790 (42.5)	--	--	232 (29.4)	174 (22.0)

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=1).

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

[†]CPC missing for 0 patients.