

CARES Survival Report

Incident State: MI | Service Date: 01/01/19 - 12/31/19 | Non-Traumatic Etiology

	OVERALL N = 7727				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	7727	2296 (29.7)	2010 (26.0)	673 (8.7)	549 (7.1)
Location of Arrest					
Home/Residence	5452 (70.6)	1582 (29.0)	1396 (25.6)	403 (7.4)	330 (6.1)
Nursing Home	1106 (14.3)	262 (23.7)	168 (15.2)	48 (4.3)	28 (2.5)
Public Setting	1169 (15.1)	452 (38.7)	446 (38.2)	222 (19.0)	191 (16.3)
Arrest Witnessed Status					
Unwitnessed	3959 (51.2)	768 (19.4)	637 (16.1)	154 (3.9)	111 (2.8)
Bystander witnessed	2953 (38.2)	1217 (41.2)	1057 (35.8)	388 (13.1)	329 (11.1)
911 Responder witnessed	815 (10.5)	311 (38.2)	316 (38.8)	131 (16.1)	109 (13.4)
Bystander CPR*					
Bystander CPR	3355 (48.5)	1011 (30.1)	866 (25.8)	336 (10.0)	274 (8.2)
No Bystander CPR	3557 (51.5)	974 (27.4)	828 (23.3)	206 (5.8)	166 (4.7)
Bystander CPR (excludes nursing home/healthcare facility events)	2267 (40.2)	731 (32.2)	673 (29.7)	272 (12.0)	235 (10.4)
No Bystander CPR (excludes nursing home/healthcare facility events)	3377 (59.8)	918 (27.2)	794 (23.5)	197 (5.8)	160 (4.7)
Initial Arrest Rhythm					
Shockable	1337 (17.3)	630 (47.1)	591 (44.2)	352 (26.3)	317 (23.7)
Non-shockable	6389 (82.7)	1666 (26.1)	1419 (22.2)	321 (5.0)	232 (3.6)
AED Use					
Bystander AED use*	758 (11.0)	218 (28.8)	168 (22.2)	74 (9.8)	57 (7.5)
Bystander AED use* (excludes nursing home/healthcare facility events)	127 (2.3)	58 (45.7)	55 (43.3)	34 (26.8)	33 (26.0)
Trained provider (First Responder) AED use	2120 (27.4)	631 (29.8)	535 (25.2)	195 (9.2)	171 (8.1)
Utstein					
Witnessed and shockable	957 (12.4)	504 (52.7)	476 (49.7)	295 (30.8)	270 (28.2)
Bystander witnessed and shockable	822 (10.6)	423 (51.5)	404 (49.1)	249 (30.3)	227 (27.6)
Hypothermia					
Field hypothermia	22 (0.3)	13 (59.1)	9 (40.9)	3 (13.6)	3 (13.6)
In-hospital hypothermia (among admitted patients)	964 (48.0)	--	--	268 (27.8)	197 (20.4)

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	8 (7.1)	17 (15.0)	4 (3.5)	3 (2.7)
Location of Arrest					
Home/Residence	108 (95.6)	8 (7.4)	17 (15.7)	4 (3.7)	3 (2.8)
Nursing Home	0 (0.0)	0 (NaN)	0 (NaN)	0 (NaN)	0 (NaN)
Public Setting	5 (4.4)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Arrest Witnessed Status					
Unwitnessed	99 (87.6)	5 (5.1)	14 (14.1)	3 (3.0)	2 (2.0)
Bystander witnessed	13 (11.5)	3 (23.1)	3 (23.1)	1 (7.7)	1 (7.7)
911 Responder witnessed	1 (0.9)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Bystander CPR*					
Bystander CPR	55 (49.1)	5 (9.1)	10 (18.2)	3 (5.5)	2 (3.6)
No Bystander CPR	57 (50.9)	3 (5.3)	7 (12.3)	1 (1.8)	1 (1.8)
Bystander CPR (excludes nursing home/healthcare facility events)	54 (49.1)	5 (9.3)	10 (18.5)	3 (5.6)	2 (3.7)
No Bystander CPR (excludes nursing home/healthcare facility events)	56 (50.9)	3 (5.4)	7 (12.5)	1 (1.8)	1 (1.8)
Initial Arrest Rhythm					
Shockable	2 (1.8)	1 (50.0)	1 (50.0)	0 (0.0)	0 (0.0)
Non-shockable	111 (98.2)	7 (6.3)	16 (14.4)	4 (3.6)	3 (2.7)
AED Use					
Bystander AED use*	1 (0.9)	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	21 (18.6)	2 (9.5)	3 (14.3)	0 (0.0)	0 (0.0)
Utstein					
Witnessed and shockable	2 (1.8)	1 (50.0)	1 (50.0)	0 (0.0)	0 (0.0)
Bystander witnessed and shockable	2 (1.8)	1 (50.0)	1 (50.0)	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)	3 (17.6)	--	--	1 (33.3)	1 (33.3)

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: 01/01/19 - 12/31/19 | Non-Traumatic Etiology

	Age = 1 - 12 years N = 60				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	60	14 (23.3)	20 (33.3)	9 (15.0)	7 (11.7)
Location of Arrest					
Home/Residence	55 (91.7)	11 (20.0)	16 (29.1)	7 (12.7)	5 (9.1)
Nursing Home	0 (0.0)	0 (NaN)	0 (NaN)	0 (NaN)	0 (NaN)
Public Setting	5 (8.3)	3 (60.0)	4 (80.0)	2 (40.0)	2 (40.0)
Arrest Witnessed Status					
Unwitnessed	37 (61.7)	5 (13.5)	10 (27.0)	6 (16.2)	4 (10.8)
Bystander witnessed	21 (35.0)	9 (42.9)	9 (42.9)	2 (9.5)	2 (9.5)
911 Responder witnessed	2 (3.3)	0 (0.0)	1 (50.0)	1 (50.0)	1 (50.0)
Bystander CPR*					
Bystander CPR	36 (62.1)	10 (27.8)	14 (38.9)	5 (13.9)	5 (13.9)
No Bystander CPR	22 (37.9)	4 (18.2)	5 (22.7)	3 (13.6)	1 (4.5)
Bystander CPR (excludes nursing home/healthcare facility events)	35 (61.4)	10 (28.6)	14 (40.0)	5 (14.3)	5 (14.3)
No Bystander CPR (excludes nursing home/healthcare facility events)	22 (38.6)	4 (18.2)	5 (22.7)	3 (13.6)	1 (4.5)
Initial Arrest Rhythm					
Shockable	5 (8.3)	3 (60.0)	3 (60.0)	2 (40.0)	2 (40.0)
Non-shockable	55 (91.7)	11 (20.0)	17 (30.9)	7 (12.7)	5 (9.1)
AED Use					
Bystander AED use*	1 (1.7)	1 (100.0)	1 (100.0)	0 (0.0)	0 (0.0)
Bystander AED use* (excludes nursing home/healthcare facility events)	1 (1.8)	1 (100.0)	1 (100.0)	0 (0.0)	0 (0.0)
Trained provider (First Responder) AED use	14 (23.3)	2 (14.3)	4 (28.6)	2 (14.3)	1 (7.1)
Utstein					
Witnessed and shockable	4 (6.7)	3 (75.0)	3 (75.0)	2 (50.0)	2 (50.0)
Bystander witnessed and shockable	3 (5.0)	3 (100.0)	2 (66.7)	1 (33.3)	1 (33.3)
Hypothermia					
Field hypothermia	0 (0.0)	0 (NaN)	0 (NaN)	0 (NaN)	0 (NaN)
In-hospital hypothermia (among admitted patients)	7 (35.0)	--	--	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=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 = 48					
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	48	11 (22.9)	13 (27.1)	3 (6.2)	2 (4.2)
Location of Arrest					
Home/Residence	39 (81.2)	8 (20.5)	10 (25.6)	1 (2.6)	0 (0.0)
Nursing Home	0 (0.0)	0 (NaN)	0 (NaN)	0 (NaN)	0 (NaN)
Public Setting	9 (18.8)	3 (33.3)	3 (33.3)	2 (22.2)	2 (22.2)
Arrest Witnessed Status					
Unwitnessed	29 (60.4)	6 (20.7)	8 (27.6)	1 (3.4)	0 (0.0)
Bystander witnessed	14 (29.2)	5 (35.7)	4 (28.6)	2 (14.3)	2 (14.3)
911 Responder witnessed	5 (10.4)	0 (0.0)	1 (20.0)	0 (0.0)	0 (0.0)
Bystander CPR*					
Bystander CPR	19 (44.2)	5 (26.3)	5 (26.3)	1 (5.3)	1 (5.3)
No Bystander CPR	24 (55.8)	6 (25.0)	7 (29.2)	2 (8.3)	1 (4.2)
Bystander CPR (excludes nursing home/healthcare facility events)	19 (44.2)	5 (26.3)	5 (26.3)	1 (5.3)	1 (5.3)
No Bystander CPR (excludes nursing home/healthcare facility events)	24 (55.8)	6 (25.0)	7 (29.2)	2 (8.3)	1 (4.2)
Initial Arrest Rhythm					
Shockable	9 (18.8)	2 (22.2)	2 (22.2)	0 (0.0)	0 (0.0)
Non-shockable	39 (81.2)	9 (23.1)	11 (28.2)	3 (7.7)	2 (5.1)
AED Use					
Bystander AED use*	2 (4.7)	1 (50.0)	1 (50.0)	1 (50.0)	1 (50.0)
Bystander AED use* (excludes nursing home/healthcare facility events)	2 (4.7)	1 (50.0)	1 (50.0)	1 (50.0)	1 (50.0)
Trained provider (First Responder) AED use	12 (25.0)	3 (25.0)	4 (33.3)	1 (8.3)	1 (8.3)
Utstein					
Witnessed and shockable	6 (12.5)	1 (16.7)	1 (16.7)	0 (0.0)	0 (0.0)
Bystander witnessed and shockable	5 (10.4)	1 (20.0)	1 (20.0)	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)	5 (38.5)	--	--	1 (20.0)	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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Incident State: MI | Service Date: 01/01/19 - 12/31/19 | Non-Traumatic Etiology

	Age = >18 years N = 7503				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	7503	2262 (30.1)	1959 (26.1)	656 (8.7)	536 (7.1)
Location of Arrest					
Home/Residence	5248 (69.9)	1555 (29.6)	1353 (25.8)	391 (7.5)	322 (6.1)
Nursing Home	1106 (14.7)	262 (23.7)	168 (15.2)	48 (4.3)	28 (2.5)
Public Setting	1149 (15.3)	445 (38.7)	438 (38.1)	217 (18.9)	186 (16.2)
Arrest Witnessed Status					
Unwitnessed	3794 (50.6)	752 (19.8)	605 (15.9)	144 (3.8)	105 (2.8)
Bystander witnessed	2902 (38.7)	1199 (41.3)	1040 (35.8)	382 (13.2)	323 (11.1)
911 Responder witnessed	807 (10.8)	311 (38.5)	314 (38.9)	130 (16.1)	108 (13.4)
Bystander CPR*					
Bystander CPR	3242 (48.4)	990 (30.5)	836 (25.8)	326 (10.1)	265 (8.2)
No Bystander CPR	3454 (51.6)	961 (27.8)	809 (23.4)	200 (5.8)	163 (4.7)
Bystander CPR (excludes nursing home/healthcare facility events)	2157 (39.7)	711 (33.0)	644 (29.9)	263 (12.2)	227 (10.5)
No Bystander CPR (excludes nursing home/healthcare facility events)	3275 (60.3)	905 (27.6)	775 (23.7)	191 (5.8)	157 (4.8)
Initial Arrest Rhythm					
Shockable	1321 (17.6)	624 (47.2)	585 (44.3)	350 (26.5)	315 (23.8)
Non-shockable	6181 (82.4)	1638 (26.5)	1374 (22.2)	306 (5.0)	221 (3.6)
AED Use					
Bystander AED use*	754 (11.3)	216 (28.6)	166 (22.0)	73 (9.7)	56 (7.4)
Bystander AED use* (excludes nursing home/healthcare facility events)	124 (2.3)	56 (45.2)	53 (42.7)	33 (26.6)	32 (25.8)
Trained provider (First Responder) AED use	2073 (27.6)	624 (30.1)	524 (25.3)	192 (9.3)	169 (8.2)
Utstein					
Witnessed and shockable	945 (12.6)	499 (52.8)	471 (49.8)	293 (31.0)	268 (28.4)
Bystander witnessed and shockable	812 (10.8)	418 (51.5)	400 (49.3)	248 (30.5)	226 (27.8)
Hypothermia					
Field hypothermia	21 (0.3)	13 (61.9)	9 (42.9)	3 (14.3)	3 (14.3)
In-hospital hypothermia (among admitted patients)	949 (48.4)	--	--	264 (27.8)	194 (20.4)

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.