

CARES Survival Report

Incident State: MI | Date of Arrest: 01/01/20 - 12/31/20 | Non-Traumatic Etiology

	OVERALL N = 9290				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	9290	2382 (25.6)	2023 (21.8)	658 (7.1)	537 (5.8)
Location of Arrest					
Home/Residence	6718 (72.3)	1690 (25.2)	1455 (21.7)	433 (6.4)	355 (5.3)
Nursing Home	1396 (15.0)	259 (18.6)	147 (10.5)	34 (2.4)	18 (1.3)
Public Setting	1176 (12.7)	433 (36.8)	421 (35.8)	191 (16.2)	164 (13.9)
Arrest Witnessed Status					
Unwitnessed	4931 (53.1)	868 (17.6)	671 (13.6)	161 (3.3)	124 (2.5)
Bystander witnessed	3331 (35.9)	1170 (35.1)	993 (29.8)	364 (10.9)	302 (9.1)
911 Responder witnessed	1028 (11.1)	344 (33.5)	359 (34.9)	133 (12.9)	111 (10.8)
Bystander CPR*					
Bystander CPR	3779 (45.7)	1009 (26.7)	802 (21.2)	291 (7.7)	244 (6.5)
No Bystander CPR	4483 (54.3)	1029 (23.0)	862 (19.2)	234 (5.2)	182 (4.1)
Bystander CPR (excludes nursing home/healthcare facility events)	2401 (36.2)	711 (29.6)	606 (25.2)	239 (10.0)	208 (8.7)
No Bystander CPR (excludes nursing home/healthcare facility events)	4228 (63.8)	972 (23.0)	826 (19.5)	222 (5.3)	174 (4.1)
Initial Arrest Rhythm					
Shockable	1424 (15.3)	628 (44.1)	612 (43.0)	333 (23.4)	292 (20.5)
Non-shockable	7866 (84.7)	1754 (22.3)	1411 (17.9)	325 (4.1)	245 (3.1)
AED Use					
Bystander AED use*	902 (10.9)	224 (24.8)	158 (17.5)	54 (6.0)	41 (4.5)
Bystander AED use* (excludes nursing home/healthcare facility events)	75 (1.1)	33 (44.0)	28 (37.3)	15 (20.0)	15 (20.0)
Trained provider (First Responder) AED use	2252 (24.2)	630 (28.0)	540 (24.0)	203 (9.0)	182 (8.1)
Utstein					
Witnessed and shockable	994 (10.7)	484 (48.7)	474 (47.7)	277 (27.9)	241 (24.2)
Bystander witnessed and shockable	839 (9.0)	406 (48.4)	402 (47.9)	230 (27.4)	200 (23.8)
Hypothermia					
Field hypothermia	114 (1.2)	63 (55.3)	44 (38.6)	10 (8.8)	7 (6.1)
In-hospital hypothermia/TTM (among admitted patients)	983 (48.6)	--	--	265 (27.0)	200 (20.3)

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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	Age = <1 years N = 116				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	116	13 (11.2)	17 (14.7)	6 (5.2)	4 (3.4)
Location of Arrest					
Home/Residence	113 (97.4)	12 (10.6)	16 (14.2)	6 (5.3)	4 (3.5)
Nursing Home	0 (0.0)	0 (NaN)	0 (NaN)	0 (NaN)	0 (NaN)
Public Setting	3 (2.6)	1 (33.3)	1 (33.3)	0 (0.0)	0 (0.0)
Arrest Witnessed Status					
Unwitnessed	96 (82.8)	6 (6.2)	9 (9.4)	2 (2.1)	1 (1.0)
Bystander witnessed	18 (15.5)	6 (33.3)	6 (33.3)	3 (16.7)	2 (11.1)
911 Responder witnessed	2 (1.7)	1 (50.0)	2 (100.0)	1 (50.0)	1 (50.0)
Bystander CPR*					
Bystander CPR	46 (40.4)	6 (13.0)	5 (10.9)	1 (2.2)	0 (0.0)
No Bystander CPR	68 (59.6)	6 (8.8)	10 (14.7)	4 (5.9)	3 (4.4)
Bystander CPR (excludes nursing home/healthcare facility events)	46 (40.4)	6 (13.0)	5 (10.9)	1 (2.2)	0 (0.0)
No Bystander CPR (excludes nursing home/healthcare facility events)	68 (59.6)	6 (8.8)	10 (14.7)	4 (5.9)	3 (4.4)
Initial Arrest Rhythm					
Shockable	4 (3.4)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Non-shockable	112 (96.6)	13 (11.6)	17 (15.2)	6 (5.4)	4 (3.6)
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	22 (19.0)	2 (9.1)	2 (9.1)	0 (0.0)	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/TTM (among admitted patients)	2 (11.8)	--	--	1 (50.0)	1 (50.0)

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 | Date of Arrest: 01/01/20 - 12/31/20 | Non-Traumatic Etiology

	Age = 1 - 12 years N = 57				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	57	16 (28.1)	21 (36.8)	6 (10.5)	6 (10.5)
Location of Arrest					
Home/Residence	51 (89.5)	14 (27.5)	17 (33.3)	4 (7.8)	4 (7.8)
Nursing Home	0 (0.0)	0 (NaN)	0 (NaN)	0 (NaN)	0 (NaN)
Public Setting	6 (10.5)	2 (33.3)	4 (66.7)	2 (33.3)	2 (33.3)
Arrest Witnessed Status					
Unwitnessed	37 (64.9)	6 (16.2)	9 (24.3)	1 (2.7)	1 (2.7)
Bystander witnessed	17 (29.8)	9 (52.9)	10 (58.8)	5 (29.4)	5 (29.4)
911 Responder witnessed	3 (5.3)	1 (33.3)	2 (66.7)	0 (0.0)	0 (0.0)
Bystander CPR*					
Bystander CPR	26 (48.1)	9 (34.6)	9 (34.6)	5 (19.2)	5 (19.2)
No Bystander CPR	28 (51.9)	6 (21.4)	10 (35.7)	1 (3.6)	1 (3.6)
Bystander CPR (excludes nursing home/healthcare facility events)	26 (48.1)	9 (34.6)	9 (34.6)	5 (19.2)	5 (19.2)
No Bystander CPR (excludes nursing home/healthcare facility events)	28 (51.9)	6 (21.4)	10 (35.7)	1 (3.6)	1 (3.6)
Initial Arrest Rhythm					
Shockable	6 (10.5)	4 (66.7)	2 (33.3)	2 (33.3)	2 (33.3)
Non-shockable	51 (89.5)	12 (23.5)	19 (37.3)	4 (7.8)	4 (7.8)
AED Use					
Bystander AED use*	1 (1.9)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Bystander AED use* (excludes nursing home/healthcare facility events)	1 (1.9)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Trained provider (First Responder) AED use	19 (33.3)	7 (36.8)	8 (42.1)	3 (15.8)	3 (15.8)
Utstein					
Witnessed and shockable	4 (7.0)	4 (100.0)	2 (50.0)	2 (50.0)	2 (50.0)
Bystander witnessed and shockable	4 (7.0)	4 (100.0)	2 (50.0)	2 (50.0)	2 (50.0)
Hypothermia					
Field hypothermia	0 (0.0)	0 (NaN)	0 (NaN)	0 (NaN)	0 (NaN)
In-hospital hypothermia/TTM (among admitted patients)	2 (9.5)	--	--	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.

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Age = 13 - 18 years					
N = 36					
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	36	13 (36.1)	14 (38.9)	5 (13.9)	4 (11.1)
Location of Arrest					
Home/Residence	29 (80.6)	10 (34.5)	9 (31.0)	3 (10.3)	2 (6.9)
Nursing Home	0 (0.0)	0 (NaN)	0 (NaN)	0 (NaN)	0 (NaN)
Public Setting	7 (19.4)	3 (42.9)	5 (71.4)	2 (28.6)	2 (28.6)
Arrest Witnessed Status					
Unwitnessed	21 (58.3)	5 (23.8)	3 (14.3)	1 (4.8)	1 (4.8)
Bystander witnessed	13 (36.1)	8 (61.5)	9 (69.2)	3 (23.1)	3 (23.1)
911 Responder witnessed	2 (5.6)	0 (0.0)	2 (100.0)	1 (50.0)	0 (0.0)
Bystander CPR*					
Bystander CPR	17 (50.0)	6 (35.3)	7 (41.2)	3 (17.6)	3 (17.6)
No Bystander CPR	17 (50.0)	7 (41.2)	5 (29.4)	1 (5.9)	1 (5.9)
Bystander CPR (excludes nursing home/healthcare facility events)	16 (48.5)	6 (37.5)	7 (43.8)	3 (18.8)	3 (18.8)
No Bystander CPR (excludes nursing home/healthcare facility events)	17 (51.5)	7 (41.2)	5 (29.4)	1 (5.9)	1 (5.9)
Initial Arrest Rhythm					
Shockable	5 (13.9)	3 (60.0)	5 (100.0)	4 (80.0)	3 (60.0)
Non-shockable	31 (86.1)	10 (32.3)	9 (29.0)	1 (3.2)	1 (3.2)
AED Use					
Bystander AED use*	3 (8.8)	2 (66.7)	3 (100.0)	1 (33.3)	1 (33.3)
Bystander AED use* (excludes nursing home/healthcare facility events)	3 (9.1)	2 (66.7)	3 (100.0)	1 (33.3)	1 (33.3)
Trained provider (First Responder) AED use	8 (22.2)	2 (25.0)	1 (12.5)	0 (0.0)	0 (0.0)
Utstein					
Witnessed and shockable	4 (11.1)	2 (50.0)	4 (100.0)	3 (75.0)	2 (50.0)
Bystander witnessed and shockable	3 (8.3)	2 (66.7)	3 (100.0)	2 (66.7)	2 (66.7)
Hypothermia					
Field hypothermia	2 (5.6)	1 (50.0)	1 (50.0)	0 (0.0)	0 (0.0)
In-hospital hypothermia/TTM (among admitted patients)	3 (21.4)	--	--	1 (33.3)	1 (33.3)

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

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	Age = >18 years N = 9073				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	9073	2336 (25.7)	1969 (21.7)	640 (7.1)	523 (5.8)
Location of Arrest					
Home/Residence	6518 (71.8)	1650 (25.3)	1411 (21.6)	419 (6.4)	345 (5.3)
Nursing Home	1396 (15.4)	259 (18.6)	147 (10.5)	34 (2.4)	18 (1.3)
Public Setting	1159 (12.8)	427 (36.8)	411 (35.5)	187 (16.1)	160 (13.8)
Arrest Witnessed Status					
Unwitnessed	4776 (52.6)	851 (17.8)	650 (13.6)	157 (3.3)	121 (2.5)
Bystander witnessed	3278 (36.1)	1144 (34.9)	967 (29.5)	352 (10.7)	292 (8.9)
911 Responder witnessed	1019 (11.2)	341 (33.5)	352 (34.5)	131 (12.9)	110 (10.8)
Bystander CPR*					
Bystander CPR	3687 (45.8)	987 (26.8)	781 (21.2)	282 (7.6)	236 (6.4)
No Bystander CPR	4367 (54.2)	1008 (23.1)	836 (19.1)	227 (5.2)	177 (4.1)
Bystander CPR (excludes nursing home/healthcare facility events)	2310 (36.0)	689 (29.8)	585 (25.3)	230 (10.0)	200 (8.7)
No Bystander CPR (excludes nursing home/healthcare facility events)	4112 (64.0)	951 (23.1)	800 (19.5)	215 (5.2)	169 (4.1)
Initial Arrest Rhythm					
Shockable	1408 (15.5)	620 (44.0)	604 (42.9)	326 (23.2)	287 (20.4)
Non-shockable	7665 (84.5)	1716 (22.4)	1365 (17.8)	314 (4.1)	236 (3.1)
AED Use					
Bystander AED use*	896 (11.1)	222 (24.8)	155 (17.3)	53 (5.9)	40 (4.5)
Bystander AED use* (excludes nursing home/healthcare facility events)	71 (1.1)	31 (43.7)	25 (35.2)	14 (19.7)	14 (19.7)
Trained provider (First Responder) AED use	2202 (24.3)	619 (28.1)	529 (24.0)	200 (9.1)	179 (8.1)
Utstein					
Witnessed and shockable	984 (10.8)	477 (48.5)	467 (47.5)	271 (27.5)	237 (24.1)
Bystander witnessed and shockable	830 (9.1)	399 (48.1)	396 (47.7)	225 (27.1)	196 (23.6)
Hypothermia					
Field hypothermia	112 (1.2)	62 (55.4)	43 (38.4)	10 (8.9)	7 (6.2)
In-hospital hypothermia/TTM (among admitted patients)	975 (49.5)	--	--	262 (26.9)	198 (20.3)

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.

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[†]CPC missing for 0 patients.