

CARES Survival Report

Incident State: MI | Date of Arrest: 01/01/22 - 12/31/22 | Non-Traumatic Etiology

	OVERALL N = 9275				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	9275	2582 (27.8)	2279 (24.6)	755 (8.1)	613 (6.6)
Location of Arrest					
Home/Residence	6659 (71.8)	1821 (27.3)	1580 (23.7)	466 (7.0)	370 (5.6)
Nursing Home	1260 (13.6)	274 (21.7)	187 (14.8)	35 (2.8)	16 (1.3)
Public Setting	1356 (14.6)	487 (35.9)	512 (37.8)	254 (18.7)	227 (16.7)
Arrest Witnessed Status					
Unwitnessed	4852 (52.3)	902 (18.6)	761 (15.7)	193 (4.0)	141 (2.9)
Bystander witnessed	3476 (37.5)	1325 (38.1)	1160 (33.4)	416 (12.0)	349 (10.0)
911 Responder witnessed	947 (10.2)	355 (37.5)	358 (37.8)	146 (15.4)	123 (13.0)
Bystander CPR*					
Bystander CPR	3710 (44.5)	1074 (28.9)	887 (23.9)	325 (8.8)	267 (7.2)
No Bystander CPR	4618 (55.5)	1153 (25.0)	1034 (22.4)	284 (6.1)	223 (4.8)
Bystander CPR (excludes nursing home/healthcare facility events)	2445 (35.6)	764 (31.2)	672 (27.5)	262 (10.7)	225 (9.2)
No Bystander CPR (excludes nursing home/healthcare facility events)	4426 (64.4)	1112 (25.1)	997 (22.5)	277 (6.3)	219 (4.9)
Initial Arrest Rhythm					
Shockable	1491 (16.1)	693 (46.5)	661 (44.3)	361 (24.2)	312 (20.9)
Non-shockable	7784 (83.9)	1889 (24.3)	1618 (20.8)	394 (5.1)	301 (3.9)
AED Use					
Bystander AED use*	912 (11.0)	251 (27.5)	191 (20.9)	76 (8.3)	61 (6.7)
Bystander AED use* (excludes nursing home/healthcare facility events)	97 (1.4)	47 (48.5)	45 (46.4)	31 (32.0)	29 (29.9)
Trained provider (First Responder) AED use	2572 (27.7)	745 (29.0)	628 (24.4)	224 (8.7)	188 (7.3)
Utstein					
Witnessed and shockable	1085 (11.7)	555 (51.2)	528 (48.7)	302 (27.8)	267 (24.6)
Bystander witnessed and shockable	937 (10.1)	462 (49.3)	442 (47.2)	236 (25.2)	208 (22.2)
Hypothermia					
Field hypothermia	1 (0.0)	1 (100.0)	1 (100.0)	1 (100.0)	1 (100.0)
In-hospital hypothermia/TTM (among admitted patients)	1055 (46.3)	--	--	303 (28.7)	216 (20.5)

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.

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Incident State: MI | Date of Arrest: 01/01/22 - 12/31/22 | 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	14 (12.0)	21 (17.9)	9 (7.7)	8 (6.8)
Location of Arrest					
Home/Residence	106 (90.6)	12 (11.3)	19 (17.9)	8 (7.5)	7 (6.6)
Nursing Home	0 (0.0)	0 (NaN)	0 (NaN)	0 (NaN)	0 (NaN)
Public Setting	11 (9.4)	2 (18.2)	2 (18.2)	1 (9.1)	1 (9.1)
Arrest Witnessed Status					
Unwitnessed	83 (70.9)	3 (3.6)	9 (10.8)	3 (3.6)	2 (2.4)
Bystander witnessed	29 (24.8)	9 (31.0)	10 (34.5)	5 (17.2)	5 (17.2)
911 Responder witnessed	5 (4.3)	2 (40.0)	2 (40.0)	1 (20.0)	1 (20.0)
Bystander CPR*					
Bystander CPR	47 (42.0)	7 (14.9)	11 (23.4)	5 (10.6)	4 (8.5)
No Bystander CPR	65 (58.0)	5 (7.7)	8 (12.3)	3 (4.6)	3 (4.6)
Bystander CPR (excludes nursing home/healthcare facility events)	45 (40.9)	6 (13.3)	10 (22.2)	4 (8.9)	3 (6.7)
No Bystander CPR (excludes nursing home/healthcare facility events)	65 (59.1)	5 (7.7)	8 (12.3)	3 (4.6)	3 (4.6)
Initial Arrest Rhythm					
Shockable	3 (2.6)	1 (33.3)	1 (33.3)	0 (0.0)	0 (0.0)
Non-shockable	114 (97.4)	13 (11.4)	20 (17.5)	9 (7.9)	8 (7.0)
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)	1 (0.9)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Trained provider (First Responder) AED use	19 (16.2)	2 (10.5)	1 (5.3)	0 (0.0)	0 (0.0)
Utstein					
Witnessed and shockable	1 (0.9)	1 (100.0)	1 (100.0)	0 (0.0)	0 (0.0)
Bystander witnessed and shockable	1 (0.9)	1 (100.0)	1 (100.0)	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)	3 (14.3)	--	--	2 (66.7)	2 (66.7)

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: 01/01/22 - 12/31/22 | Non-Traumatic Etiology

	Age = 1 - 12 years N = 67				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	67	15 (22.4)	22 (32.8)	10 (14.9)	7 (10.4)
Location of Arrest					
Home/Residence	59 (88.1)	14 (23.7)	20 (33.9)	9 (15.3)	6 (10.2)
Nursing Home	0 (0.0)	0 (NaN)	0 (NaN)	0 (NaN)	0 (NaN)
Public Setting	8 (11.9)	1 (12.5)	2 (25.0)	1 (12.5)	1 (12.5)
Arrest Witnessed Status					
Unwitnessed	43 (64.2)	6 (14.0)	14 (32.6)	4 (9.3)	2 (4.7)
Bystander witnessed	21 (31.3)	8 (38.1)	7 (33.3)	5 (23.8)	4 (19.0)
911 Responder witnessed	3 (4.5)	1 (33.3)	1 (33.3)	1 (33.3)	1 (33.3)
Bystander CPR*					
Bystander CPR	29 (45.3)	9 (31.0)	13 (44.8)	7 (24.1)	6 (20.7)
No Bystander CPR	35 (54.7)	5 (14.3)	8 (22.9)	2 (5.7)	0 (0.0)
Bystander CPR (excludes nursing home/healthcare facility events)	29 (45.3)	9 (31.0)	13 (44.8)	7 (24.1)	6 (20.7)
No Bystander CPR (excludes nursing home/healthcare facility events)	35 (54.7)	5 (14.3)	8 (22.9)	2 (5.7)	0 (0.0)
Initial Arrest Rhythm					
Shockable	4 (6.0)	2 (50.0)	1 (25.0)	1 (25.0)	1 (25.0)
Non-shockable	63 (94.0)	13 (20.6)	21 (33.3)	9 (14.3)	6 (9.5)
AED Use					
Bystander AED use*	1 (1.6)	1 (100.0)	1 (100.0)	1 (100.0)	1 (100.0)
Bystander AED use* (excludes nursing home/healthcare facility events)	1 (1.6)	1 (100.0)	1 (100.0)	1 (100.0)	1 (100.0)
Trained provider (First Responder) AED use	24 (35.8)	6 (25.0)	6 (25.0)	2 (8.3)	1 (4.2)
Utstein					
Witnessed and shockable	4 (6.0)	2 (50.0)	1 (25.0)	1 (25.0)	1 (25.0)
Bystander witnessed and shockable	4 (6.0)	2 (50.0)	1 (25.0)	1 (25.0)	1 (25.0)
Hypothermia					
Field hypothermia	0 (0.0)	0 (NaN)	0 (NaN)	0 (NaN)	0 (NaN)
In-hospital hypothermia/TTM (among admitted patients)	3 (13.6)	--	--	1 (33.3)	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	9 (25.0)	12 (33.3)	6 (16.7)	6 (16.7)
Location of Arrest					
Home/Residence	22 (61.1)	5 (22.7)	5 (22.7)	3 (13.6)	3 (13.6)
Nursing Home	0 (0.0)	0 (NaN)	0 (NaN)	0 (NaN)	0 (NaN)
Public Setting	14 (38.9)	4 (28.6)	7 (50.0)	3 (21.4)	3 (21.4)
Arrest Witnessed Status					
Unwitnessed	20 (55.6)	1 (5.0)	1 (5.0)	0 (0.0)	0 (0.0)
Bystander witnessed	14 (38.9)	6 (42.9)	9 (64.3)	4 (28.6)	4 (28.6)
911 Responder witnessed	2 (5.6)	2 (100.0)	2 (100.0)	2 (100.0)	2 (100.0)
Bystander CPR*					
Bystander CPR	14 (41.2)	6 (42.9)	5 (35.7)	4 (28.6)	4 (28.6)
No Bystander CPR	20 (58.8)	1 (5.0)	5 (25.0)	0 (0.0)	0 (0.0)
Bystander CPR (excludes nursing home/healthcare facility events)	13 (39.4)	5 (38.5)	4 (30.8)	4 (30.8)	4 (30.8)
No Bystander CPR (excludes nursing home/healthcare facility events)	20 (60.6)	1 (5.0)	5 (25.0)	0 (0.0)	0 (0.0)
Initial Arrest Rhythm					
Shockable	4 (11.1)	3 (75.0)	3 (75.0)	3 (75.0)	3 (75.0)
Non-shockable	32 (88.9)	6 (18.8)	9 (28.1)	3 (9.4)	3 (9.4)
AED Use					
Bystander AED use*	3 (8.8)	3 (100.0)	3 (100.0)	2 (66.7)	2 (66.7)
Bystander AED use* (excludes nursing home/healthcare facility events)	2 (6.1)	2 (100.0)	2 (100.0)	2 (100.0)	2 (100.0)
Trained provider (First Responder) AED use	13 (36.1)	3 (23.1)	4 (30.8)	2 (15.4)	2 (15.4)
Utstein					
Witnessed and shockable	4 (11.1)	3 (75.0)	3 (75.0)	3 (75.0)	3 (75.0)
Bystander witnessed and shockable	4 (11.1)	3 (75.0)	3 (75.0)	3 (75.0)	3 (75.0)
Hypothermia					
Field hypothermia	1 (2.8)	1 (100.0)	1 (100.0)	1 (100.0)	1 (100.0)
In-hospital hypothermia/TTM (among admitted patients)	2 (16.7)	--	--	1 (50.0)	1 (50.0)

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

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Incident State: MI | Date of Arrest: 01/01/22 - 12/31/22 | Non-Traumatic Etiology

	Age = >18 years N = 9050				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	9050	2541 (28.1)	2222 (24.6)	729 (8.1)	591 (6.5)
Location of Arrest					
Home/Residence	6468 (71.5)	1787 (27.6)	1534 (23.7)	445 (6.9)	353 (5.5)
Nursing Home	1260 (13.9)	274 (21.7)	187 (14.8)	35 (2.8)	16 (1.3)
Public Setting	1322 (14.6)	480 (36.3)	501 (37.9)	249 (18.8)	222 (16.8)
Arrest Witnessed Status					
Unwitnessed	4701 (51.9)	889 (18.9)	735 (15.6)	185 (3.9)	136 (2.9)
Bystander witnessed	3412 (37.7)	1302 (38.2)	1134 (33.2)	402 (11.8)	336 (9.8)
911 Responder witnessed	937 (10.4)	350 (37.4)	353 (37.7)	142 (15.2)	119 (12.7)
Bystander CPR*					
Bystander CPR	3619 (44.6)	1051 (29.0)	857 (23.7)	308 (8.5)	252 (7.0)
No Bystander CPR	4494 (55.4)	1140 (25.4)	1012 (22.5)	279 (6.2)	220 (4.9)
Bystander CPR (excludes nursing home/healthcare facility events)	2357 (35.4)	743 (31.5)	644 (27.3)	246 (10.4)	211 (9.0)
No Bystander CPR (excludes nursing home/healthcare facility events)	4302 (64.6)	1099 (25.5)	975 (22.7)	272 (6.3)	216 (5.0)
Initial Arrest Rhythm					
Shockable	1479 (16.3)	687 (46.5)	656 (44.4)	357 (24.1)	308 (20.8)
Non-shockable	7571 (83.7)	1854 (24.5)	1566 (20.7)	372 (4.9)	283 (3.7)
AED Use					
Bystander AED use*	905 (11.2)	247 (27.3)	187 (20.7)	73 (8.1)	58 (6.4)
Bystander AED use* (excludes nursing home/healthcare facility events)	93 (1.4)	44 (47.3)	42 (45.2)	28 (30.1)	26 (28.0)
Trained provider (First Responder) AED use	2516 (27.8)	734 (29.2)	617 (24.5)	220 (8.7)	185 (7.4)
Utstein					
Witnessed and shockable	1076 (11.9)	549 (51.0)	523 (48.6)	298 (27.7)	263 (24.4)
Bystander witnessed and shockable	928 (10.3)	456 (49.1)	437 (47.1)	232 (25.0)	204 (22.0)
Hypothermia					
Field hypothermia	0 (0.0)	0 (NaN)	0 (NaN)	0 (NaN)	0 (NaN)
In-hospital hypothermia/TTM (among admitted patients)	1046 (47.1)	--	--	298 (28.5)	212 (20.3)

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[†]CPC missing for 0 patients.