

CARES Survival Report

Incident State: MI | Date of Arrest: 01/01/21 - 12/31/21 | Non-Traumatic Etiology

	OVERALL N = 9633				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	9633	2746 (28.5)	2277 (23.6)	739 (7.7)	626 (6.5)
Location of Arrest					
Home/Residence	7041 (73.1)	1998 (28.4)	1662 (23.6)	471 (6.7)	405 (5.8)
Nursing Home	1307 (13.6)	280 (21.4)	151 (11.6)	35 (2.7)	12 (0.9)
Public Setting	1285 (13.3)	468 (36.4)	464 (36.1)	233 (18.1)	209 (16.3)
Arrest Witnessed Status					
Unwitnessed	5084 (52.8)	1011 (19.9)	730 (14.4)	170 (3.3)	138 (2.7)
Bystander witnessed	3583 (37.2)	1385 (38.7)	1202 (33.5)	456 (12.7)	391 (10.9)
911 Responder witnessed	966 (10.0)	350 (36.2)	345 (35.7)	113 (11.7)	97 (10.0)
Bystander CPR*					
Bystander CPR	3981 (45.9)	1180 (29.6)	946 (23.8)	351 (8.8)	295 (7.4)
No Bystander CPR	4686 (54.1)	1216 (25.9)	986 (21.0)	275 (5.9)	234 (5.0)
Bystander CPR (excludes nursing home/healthcare facility events)	2665 (37.6)	864 (32.4)	759 (28.5)	283 (10.6)	250 (9.4)
No Bystander CPR (excludes nursing home/healthcare facility events)	4424 (62.4)	1143 (25.8)	947 (21.4)	264 (6.0)	228 (5.2)
Initial Arrest Rhythm					
Shockable	1460 (15.2)	696 (47.7)	684 (46.8)	357 (24.5)	323 (22.1)
Non-shockable	8173 (84.8)	2050 (25.1)	1593 (19.5)	382 (4.7)	303 (3.7)
AED Use					
Bystander AED use*	868 (10.0)	227 (26.2)	138 (15.9)	70 (8.1)	58 (6.7)
Bystander AED use* (excludes nursing home/healthcare facility events)	103 (1.5)	43 (41.7)	39 (37.9)	26 (25.2)	26 (25.2)
Trained provider (First Responder) AED use	2498 (25.9)	692 (27.7)	569 (22.8)	176 (7.0)	157 (6.3)
Utstein					
Witnessed and shockable	1020 (10.6)	531 (52.1)	533 (52.3)	297 (29.1)	273 (26.8)
Bystander witnessed and shockable	865 (9.0)	450 (52.0)	456 (52.7)	249 (28.8)	227 (26.2)
Hypothermia					
Field hypothermia	124 (1.3)	53 (42.7)	40 (32.3)	11 (8.9)	9 (7.3)
In-hospital hypothermia/TTM (among admitted patients)	1191 (52.3)	--	--	311 (26.1)	241 (20.2)

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 | Date of Arrest: 01/01/21 - 12/31/21 | Non-Traumatic Etiology

	Age = <1 years N = 106				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	106	5 (4.7)	13 (12.3)	4 (3.8)	4 (3.8)
Location of Arrest					
Home/Residence	102 (96.2)	4 (3.9)	12 (11.8)	4 (3.9)	4 (3.9)
Nursing Home	0 (0.0)	0 (NaN)	0 (NaN)	0 (NaN)	0 (NaN)
Public Setting	4 (3.8)	1 (25.0)	1 (25.0)	0 (0.0)	0 (0.0)
Arrest Witnessed Status					
Unwitnessed	84 (79.2)	2 (2.4)	6 (7.1)	2 (2.4)	2 (2.4)
Bystander witnessed	19 (17.9)	2 (10.5)	6 (31.6)	2 (10.5)	2 (10.5)
911 Responder witnessed	3 (2.8)	1 (33.3)	1 (33.3)	0 (0.0)	0 (0.0)
Bystander CPR*					
Bystander CPR	33 (32.0)	3 (9.1)	7 (21.2)	4 (12.1)	4 (12.1)
No Bystander CPR	70 (68.0)	1 (1.4)	5 (7.1)	0 (0.0)	0 (0.0)
Bystander CPR (excludes nursing home/healthcare facility events)	32 (32.0)	3 (9.4)	7 (21.9)	4 (12.5)	4 (12.5)
No Bystander CPR (excludes nursing home/healthcare facility events)	68 (68.0)	1 (1.5)	5 (7.4)	0 (0.0)	0 (0.0)
Initial Arrest Rhythm					
Shockable	4 (3.8)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Non-shockable	102 (96.2)	5 (4.9)	13 (12.7)	4 (3.9)	4 (3.9)
AED Use					
Bystander AED use*	1 (1.0)	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	22 (20.8)	0 (0.0)	2 (9.1)	0 (0.0)	0 (0.0)
Utstein					
Witnessed and shockable	2 (1.9)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Bystander witnessed and shockable	2 (1.9)	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/TTM (among admitted patients)	2 (15.4)	--	--	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: 01/01/21 - 12/31/21 | Non-Traumatic Etiology

	Age = 1 - 12 years N = 64				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	64	18 (28.1)	24 (37.5)	11 (17.2)	11 (17.2)
Location of Arrest					
Home/Residence	50 (78.1)	13 (26.0)	18 (36.0)	7 (14.0)	7 (14.0)
Nursing Home	0 (0.0)	0 (NaN)	0 (NaN)	0 (NaN)	0 (NaN)
Public Setting	14 (21.9)	5 (35.7)	6 (42.9)	4 (28.6)	4 (28.6)
Arrest Witnessed Status					
Unwitnessed	43 (67.2)	11 (25.6)	15 (34.9)	8 (18.6)	8 (18.6)
Bystander witnessed	16 (25.0)	6 (37.5)	5 (31.2)	2 (12.5)	2 (12.5)
911 Responder witnessed	5 (7.8)	1 (20.0)	4 (80.0)	1 (20.0)	1 (20.0)
Bystander CPR*					
Bystander CPR	32 (54.2)	10 (31.2)	11 (34.4)	6 (18.8)	6 (18.8)
No Bystander CPR	27 (45.8)	7 (25.9)	9 (33.3)	4 (14.8)	4 (14.8)
Bystander CPR (excludes nursing home/healthcare facility events)	30 (54.5)	10 (33.3)	11 (36.7)	6 (20.0)	6 (20.0)
No Bystander CPR (excludes nursing home/healthcare facility events)	25 (45.5)	6 (24.0)	8 (32.0)	4 (16.0)	4 (16.0)
Initial Arrest Rhythm					
Shockable	4 (6.2)	1 (25.0)	2 (50.0)	1 (25.0)	1 (25.0)
Non-shockable	60 (93.8)	17 (28.3)	22 (36.7)	10 (16.7)	10 (16.7)
AED Use					
Bystander AED use*	2 (3.4)	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	15 (23.4)	4 (26.7)	3 (20.0)	1 (6.7)	1 (6.7)
Utstein					
Witnessed and shockable	2 (3.1)	1 (50.0)	1 (50.0)	0 (0.0)	0 (0.0)
Bystander witnessed and shockable	1 (1.6)	1 (100.0)	0 (0.0)	0 (0.0)	0 (0.0)
Hypothermia					
Field hypothermia	2 (3.1)	1 (50.0)	2 (100.0)	1 (50.0)	1 (50.0)
In-hospital hypothermia/TTM (among admitted patients)	5 (20.8)	--	--	1 (20.0)	1 (20.0)

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 = 13 - 18 years N = 43				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	43	14 (32.6)	18 (41.9)	10 (23.3)	8 (18.6)
Location of Arrest					
Home/Residence	33 (76.7)	11 (33.3)	12 (36.4)	6 (18.2)	5 (15.2)
Nursing Home	1 (2.3)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Public Setting	9 (20.9)	3 (33.3)	6 (66.7)	4 (44.4)	3 (33.3)
Arrest Witnessed Status					
Unwitnessed	23 (53.5)	6 (26.1)	8 (34.8)	4 (17.4)	3 (13.0)
Bystander witnessed	17 (39.5)	8 (47.1)	10 (58.8)	6 (35.3)	5 (29.4)
911 Responder witnessed	3 (7.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Bystander CPR*					
Bystander CPR	22 (55.0)	9 (40.9)	13 (59.1)	8 (36.4)	7 (31.8)
No Bystander CPR	18 (45.0)	5 (27.8)	5 (27.8)	2 (11.1)	1 (5.6)
Bystander CPR (excludes nursing home/healthcare facility events)	21 (53.8)	9 (42.9)	13 (61.9)	8 (38.1)	7 (33.3)
No Bystander CPR (excludes nursing home/healthcare facility events)	18 (46.2)	5 (27.8)	5 (27.8)	2 (11.1)	1 (5.6)
Initial Arrest Rhythm					
Shockable	6 (14.0)	4 (66.7)	5 (83.3)	5 (83.3)	5 (83.3)
Non-shockable	37 (86.0)	10 (27.0)	13 (35.1)	5 (13.5)	3 (8.1)
AED Use					
Bystander AED use*	2 (5.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Bystander AED use* (excludes nursing home/healthcare facility events)	1 (2.6)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Trained provider (First Responder) AED use	14 (32.6)	3 (21.4)	4 (28.6)	2 (14.3)	2 (14.3)
Utstein					
Witnessed and shockable	4 (9.3)	2 (50.0)	3 (75.0)	3 (75.0)	3 (75.0)
Bystander witnessed and shockable	3 (7.0)	2 (66.7)	3 (100.0)	3 (100.0)	3 (100.0)
Hypothermia					
Field hypothermia	0 (0.0)	0 (NaN)	0 (NaN)	0 (NaN)	0 (NaN)
In-hospital hypothermia/TTM (among admitted patients)	5 (27.8)	--	--	2 (40.0)	2 (40.0)

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.

CARES Survival Report

Incident State: MI | Date of Arrest: 01/01/21 - 12/31/21 | Non-Traumatic Etiology

	Age = >18 years N = 9415				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	9415	2709 (28.8)	2222 (23.6)	714 (7.6)	603 (6.4)
Location of Arrest					
Home/Residence	6852 (72.8)	1970 (28.8)	1620 (23.6)	454 (6.6)	389 (5.7)
Nursing Home	1305 (13.9)	280 (21.5)	151 (11.6)	35 (2.7)	12 (0.9)
Public Setting	1258 (13.4)	459 (36.5)	451 (35.9)	225 (17.9)	202 (16.1)
Arrest Witnessed Status					
Unwitnessed	4932 (52.4)	992 (20.1)	701 (14.2)	156 (3.2)	125 (2.5)
Bystander witnessed	3529 (37.5)	1369 (38.8)	1181 (33.5)	446 (12.6)	382 (10.8)
911 Responder witnessed	954 (10.1)	348 (36.5)	340 (35.6)	112 (11.7)	96 (10.1)
Bystander CPR*					
Bystander CPR	3891 (46.0)	1158 (29.8)	915 (23.5)	333 (8.6)	278 (7.1)
No Bystander CPR	4570 (54.0)	1203 (26.3)	967 (21.2)	269 (5.9)	229 (5.0)
Bystander CPR (excludes nursing home/healthcare facility events)	2580 (37.4)	842 (32.6)	728 (28.2)	265 (10.3)	233 (9.0)
No Bystander CPR (excludes nursing home/healthcare facility events)	4312 (62.6)	1131 (26.2)	929 (21.5)	258 (6.0)	223 (5.2)
Initial Arrest Rhythm					
Shockable	1446 (15.4)	691 (47.8)	677 (46.8)	351 (24.3)	317 (21.9)
Non-shockable	7969 (84.6)	2018 (25.3)	1545 (19.4)	363 (4.6)	286 (3.6)
AED Use					
Bystander AED use*	858 (10.1)	227 (26.5)	138 (16.1)	70 (8.2)	58 (6.8)
Bystander AED use* (excludes nursing home/healthcare facility events)	102 (1.5)	43 (42.2)	39 (38.2)	26 (25.5)	26 (25.5)
Trained provider (First Responder) AED use	2447 (26.0)	685 (28.0)	560 (22.9)	173 (7.1)	154 (6.3)
Utstein					
Witnessed and shockable	1012 (10.7)	528 (52.2)	529 (52.3)	294 (29.1)	270 (26.7)
Bystander witnessed and shockable	859 (9.1)	447 (52.0)	453 (52.7)	246 (28.6)	224 (26.1)
Hypothermia					
Field hypothermia	121 (1.3)	52 (43.0)	38 (31.4)	10 (8.3)	8 (6.6)
In-hospital hypothermia/TTM (among admitted patients)	1179 (53.1)	--	--	307 (26.0)	237 (20.1)

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.