

CARES Survival Report

Incident State: MI | Date of Arrest: 01/01/13 - 12/31/23 | Non-Traumatic Etiology

	OVERALL N = 73980				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	73980	20761 (28.1)	18493 (25.0)	6105 (8.3)	4975 (6.7)
Location of Arrest					
Home/Residence	52800 (71.4)	14398 (27.3)	12860 (24.4)	3775 (7.1)	3045 (5.8)
Nursing Home	10579 (14.3)	2416 (22.8)	1600 (15.1)	342 (3.2)	164 (1.6)
Public Setting	10601 (14.3)	3947 (37.2)	4033 (38.0)	1988 (18.8)	1766 (16.7)
Arrest Witnessed Status					
Unwitnessed	38887 (52.6)	7361 (18.9)	6183 (15.9)	1451 (3.7)	1093 (2.8)
Bystander witnessed	27140 (36.7)	10481 (38.6)	9284 (34.2)	3505 (12.9)	2920 (10.8)
911 Responder witnessed	7951 (10.7)	2918 (36.7)	3025 (38.0)	1148 (14.4)	962 (12.1)
Bystander CPR*					
Bystander CPR	29980 (45.4)	8780 (29.3)	7431 (24.8)	2766 (9.2)	2283 (7.6)
No Bystander CPR	36045 (54.6)	9062 (25.1)	8036 (22.3)	2190 (6.1)	1730 (4.8)
Bystander CPR (excludes nursing home/healthcare facility events)	19650 (36.5)	6212 (31.6)	5619 (28.6)	2260 (11.5)	1957 (10.0)
No Bystander CPR (excludes nursing home/healthcare facility events)	34239 (63.5)	8590 (25.1)	7700 (22.5)	2105 (6.1)	1679 (4.9)
Initial Arrest Rhythm					
Shockable	12469 (16.9)	5593 (44.9)	5482 (44.0)	3093 (24.8)	2758 (22.1)
Non-shockable	61510 (83.1)	15168 (24.7)	13011 (21.2)	3012 (4.9)	2217 (3.6)
AED Use					
Bystander AED use*	6548 (9.9)	1895 (28.9)	1475 (22.5)	642 (9.8)	526 (8.0)
Bystander AED use* (excludes nursing home/healthcare facility events)	993 (1.8)	481 (48.4)	467 (47.0)	320 (32.2)	310 (31.2)
Trained provider (First Responder) AED use	19128 (25.9)	5559 (29.1)	4777 (25.0)	1693 (8.9)	1449 (7.6)
Utstein					
Witnessed and shockable	8686 (11.7)	4330 (49.9)	4266 (49.1)	2548 (29.3)	2301 (26.5)
Bystander witnessed and shockable	7321 (9.9)	3608 (49.3)	3556 (48.6)	2060 (28.1)	1847 (25.2)
Hypothermia					
Field hypothermia	460 (0.6)	271 (58.9)	209 (45.4)	66 (14.3)	54 (11.7)
In-hospital hypothermia/TTM (among admitted patients)	8524 (46.1)	--	--	2457 (28.8)	1806 (21.2)

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=18).

*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: 01/01/13 - 12/31/23 | Non-Traumatic Etiology

	Age = <1 years N = 990				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	990	97 (9.8)	146 (14.7)	42 (4.2)	31 (3.1)
Location of Arrest					
Home/Residence	936 (94.5)	88 (9.4)	138 (14.7)	40 (4.3)	29 (3.1)
Nursing Home	4 (0.4)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Public Setting	50 (5.1)	9 (18.0)	8 (16.0)	2 (4.0)	2 (4.0)
Arrest Witnessed Status					
Unwitnessed	799 (80.7)	47 (5.9)	88 (11.0)	16 (2.0)	11 (1.4)
Bystander witnessed	163 (16.5)	44 (27.0)	49 (30.1)	21 (12.9)	17 (10.4)
911 Responder witnessed	28 (2.8)	6 (21.4)	9 (32.1)	5 (17.9)	3 (10.7)
Bystander CPR*					
Bystander CPR	401 (41.7)	48 (12.0)	65 (16.2)	23 (5.7)	17 (4.2)
No Bystander CPR	561 (58.3)	43 (7.7)	72 (12.8)	14 (2.5)	11 (2.0)
Bystander CPR (excludes nursing home/healthcare facility events)	390 (41.3)	45 (11.5)	63 (16.2)	22 (5.6)	16 (4.1)
No Bystander CPR (excludes nursing home/healthcare facility events)	555 (58.7)	43 (7.7)	71 (12.8)	14 (2.5)	11 (2.0)
Initial Arrest Rhythm					
Shockable	29 (2.9)	2 (6.9)	2 (6.9)	0 (0.0)	0 (0.0)
Non-shockable	961 (97.1)	95 (9.9)	144 (15.0)	42 (4.4)	31 (3.2)
AED Use					
Bystander AED use*	6 (0.6)	1 (16.7)	1 (16.7)	0 (0.0)	0 (0.0)
Bystander AED use* (excludes nursing home/healthcare facility events)	1 (0.1)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Trained provider (First Responder) AED use	184 (18.6)	12 (6.5)	21 (11.4)	1 (0.5)	0 (0.0)
Utstein					
Witnessed and shockable	14 (1.4)	2 (14.3)	2 (14.3)	0 (0.0)	0 (0.0)
Bystander witnessed and shockable	12 (1.2)	2 (16.7)	2 (16.7)	0 (0.0)	0 (0.0)
Hypothermia					
Field hypothermia	3 (0.3)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
In-hospital hypothermia/TTM (among admitted patients)	17 (11.6)	--	--	10 (58.8)	7 (41.2)

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: 01/01/13 - 12/31/23 | Non-Traumatic Etiology

	Age = 1 - 12 years N = 556				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	556	123 (22.1)	162 (29.1)	68 (12.2)	58 (10.4)
Location of Arrest					
Home/Residence	476 (85.6)	93 (19.5)	126 (26.5)	46 (9.7)	37 (7.8)
Nursing Home	0 (0.0)	0 (NaN)	0 (NaN)	0 (NaN)	0 (NaN)
Public Setting	80 (14.4)	30 (37.5)	36 (45.0)	22 (27.5)	21 (26.2)
Arrest Witnessed Status					
Unwitnessed	361 (64.9)	55 (15.2)	88 (24.4)	29 (8.0)	22 (6.1)
Bystander witnessed	164 (29.5)	61 (37.2)	61 (37.2)	32 (19.5)	30 (18.3)
911 Responder witnessed	31 (5.6)	7 (22.6)	13 (41.9)	7 (22.6)	6 (19.4)
Bystander CPR*					
Bystander CPR	255 (48.6)	72 (28.2)	88 (34.5)	43 (16.9)	39 (15.3)
No Bystander CPR	270 (51.4)	44 (16.3)	61 (22.6)	18 (6.7)	13 (4.8)
Bystander CPR (excludes nursing home/healthcare facility events)	248 (48.1)	72 (29.0)	88 (35.5)	43 (17.3)	39 (15.7)
No Bystander CPR (excludes nursing home/healthcare facility events)	268 (51.9)	43 (16.0)	60 (22.4)	18 (6.7)	13 (4.9)
Initial Arrest Rhythm					
Shockable	37 (6.7)	16 (43.2)	14 (37.8)	10 (27.0)	10 (27.0)
Non-shockable	519 (93.3)	107 (20.6)	148 (28.5)	58 (11.2)	48 (9.2)
AED Use					
Bystander AED use*	11 (2.1)	5 (45.5)	6 (54.5)	4 (36.4)	4 (36.4)
Bystander AED use* (excludes nursing home/healthcare facility events)	7 (1.4)	5 (71.4)	6 (85.7)	4 (57.1)	4 (57.1)
Trained provider (First Responder) AED use	144 (25.9)	34 (23.6)	35 (24.3)	12 (8.3)	10 (6.9)
Utstein					
Witnessed and shockable	25 (4.5)	16 (64.0)	13 (52.0)	9 (36.0)	9 (36.0)
Bystander witnessed and shockable	23 (4.1)	16 (69.6)	11 (47.8)	8 (34.8)	8 (34.8)
Hypothermia					
Field hypothermia	5 (0.9)	3 (60.0)	4 (80.0)	2 (40.0)	2 (40.0)
In-hospital hypothermia/TTM (among admitted patients)	28 (17.3)	--	--	9 (32.1)	8 (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 = 366					
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	366	113 (30.9)	143 (39.1)	58 (15.8)	48 (13.1)
Location of Arrest					
Home/Residence	286 (78.1)	83 (29.0)	94 (32.9)	31 (10.8)	24 (8.4)
Nursing Home	1 (0.3)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Public Setting	79 (21.6)	30 (38.0)	49 (62.0)	27 (34.2)	24 (30.4)
Arrest Witnessed Status					
Unwitnessed	214 (58.5)	43 (20.1)	52 (24.3)	16 (7.5)	11 (5.1)
Bystander witnessed	130 (35.5)	63 (48.5)	79 (60.8)	36 (27.7)	33 (25.4)
911 Responder witnessed	22 (6.0)	7 (31.8)	12 (54.5)	6 (27.3)	4 (18.2)
Bystander CPR*					
Bystander CPR	161 (46.8)	65 (40.4)	78 (48.4)	38 (23.6)	35 (21.7)
No Bystander CPR	183 (53.2)	41 (22.4)	53 (29.0)	14 (7.7)	9 (4.9)
Bystander CPR (excludes nursing home/healthcare facility events)	156 (46.0)	64 (41.0)	75 (48.1)	38 (24.4)	35 (22.4)
No Bystander CPR (excludes nursing home/healthcare facility events)	183 (54.0)	41 (22.4)	53 (29.0)	14 (7.7)	9 (4.9)
Initial Arrest Rhythm					
Shockable	61 (16.7)	31 (50.8)	44 (72.1)	34 (55.7)	30 (49.2)
Non-shockable	305 (83.3)	82 (26.9)	99 (32.5)	24 (7.9)	18 (5.9)
AED Use					
Bystander AED use*	20 (5.8)	11 (55.0)	16 (80.0)	9 (45.0)	9 (45.0)
Bystander AED use* (excludes nursing home/healthcare facility events)	16 (4.7)	10 (62.5)	13 (81.2)	9 (56.2)	9 (56.2)
Trained provider (First Responder) AED use	111 (30.3)	37 (33.3)	41 (36.9)	16 (14.4)	14 (12.6)
Utstein					
Witnessed and shockable	47 (12.8)	25 (53.2)	35 (74.5)	27 (57.4)	25 (53.2)
Bystander witnessed and shockable	41 (11.2)	24 (58.5)	32 (78.0)	25 (61.0)	24 (58.5)
Hypothermia					
Field hypothermia	4 (1.1)	2 (50.0)	2 (50.0)	1 (25.0)	1 (25.0)
In-hospital hypothermia/TTM (among admitted patients)	38 (26.6)	--	--	18 (47.4)	14 (36.8)

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: 01/01/13 - 12/31/23 | Non-Traumatic Etiology

	Age = >18 years N = 71996				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	71996	20410 (28.3)	18022 (25.0)	5931 (8.2)	4833 (6.7)
Location of Arrest					
Home/Residence	51045 (70.9)	14119 (27.7)	12485 (24.5)	3655 (7.2)	2953 (5.8)
Nursing Home	10571 (14.7)	2416 (22.9)	1600 (15.1)	342 (3.2)	164 (1.6)
Public Setting	10380 (14.4)	3875 (37.3)	3937 (37.9)	1934 (18.6)	1716 (16.5)
Arrest Witnessed Status					
Unwitnessed	37485 (52.1)	7210 (19.2)	5949 (15.9)	1389 (3.7)	1048 (2.8)
Bystander witnessed	26653 (37.0)	10305 (38.7)	9086 (34.1)	3413 (12.8)	2838 (10.6)
911 Responder witnessed	7856 (10.9)	2894 (36.8)	2986 (38.0)	1128 (14.4)	947 (12.1)
Bystander CPR*					
Bystander CPR	29144 (45.4)	8591 (29.5)	7195 (24.7)	2660 (9.1)	2190 (7.5)
No Bystander CPR	34992 (54.6)	8924 (25.5)	7840 (22.4)	2142 (6.1)	1696 (4.8)
Bystander CPR (excludes nursing home/healthcare facility events)	18841 (36.2)	6028 (32.0)	5389 (28.6)	2156 (11.4)	1866 (9.9)
No Bystander CPR (excludes nursing home/healthcare facility events)	33194 (63.8)	8453 (25.5)	7506 (22.6)	2057 (6.2)	1645 (5.0)
Initial Arrest Rhythm					
Shockable	12337 (17.1)	5542 (44.9)	5420 (43.9)	3047 (24.7)	2717 (22.0)
Non-shockable	59658 (82.9)	14868 (24.9)	12602 (21.1)	2884 (4.8)	2116 (3.5)
AED Use					
Bystander AED use*	6497 (10.1)	1878 (28.9)	1452 (22.3)	629 (9.7)	513 (7.9)
Bystander AED use* (excludes nursing home/healthcare facility events)	969 (1.9)	466 (48.1)	448 (46.2)	307 (31.7)	297 (30.7)
Trained provider (First Responder) AED use	18687 (26.0)	5476 (29.3)	4680 (25.0)	1664 (8.9)	1425 (7.6)
Utstein					
Witnessed and shockable	8596 (11.9)	4285 (49.8)	4214 (49.0)	2510 (29.2)	2266 (26.4)
Bystander witnessed and shockable	7241 (10.1)	3564 (49.2)	3509 (48.5)	2025 (28.0)	1814 (25.1)
Hypothermia					
Field hypothermia	448 (0.6)	266 (59.4)	203 (45.3)	63 (14.1)	51 (11.4)
In-hospital hypothermia/TTM (among admitted patients)	8435 (46.8)	--	--	2417 (28.7)	1775 (21.0)

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=16).

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

[†]CPC missing for 0 patients.