

CARES Survival Report

All Agencies/National Data

Service Date: From 01/01/2016 Through 12/31/2016 | Non-Traumatic Etiology

	OVERALL N = 61523				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	61523	19980 (32.5)	17795 (28.9)	6670 (10.8)	5498 (8.9)
Location of Arrest					
Home/Residence	42152 (68.5)	13107 (31.1)	11515 (27.3)	3801 (9.0)	3043 (7.2)
Nursing Home	6483 (10.5)	1678 (25.9)	1181 (18.2)	283 (4.4)	153 (2.4)
Public Setting	12887 (20.9)	5195 (40.3)	5099 (39.6)	2586 (20.1)	2302 (17.9)
Arrest Witnessed Status					
Unwitnessed	31144 (50.6)	6828 (21.9)	5792 (18.6)	1460 (4.7)	1105 (3.5)
Bystander witnessed	22953 (37.3)	9975 (43.5)	8929 (38.9)	3875 (16.9)	3277 (14.3)
911 Responder witnessed	7424 (12.1)	3177 (42.8)	3073 (41.4)	1334 (18.0)	1115 (15.0)
Bystander CPR*					
Bystander CPR	25044 (46.3)	8574 (34.2)	7472 (29.8)	3169 (12.7)	2657 (10.6)
No Bystander CPR	29046 (53.7)	8227 (28.3)	7246 (24.9)	2164 (7.5)	1724 (5.9)
Bystander CPR (excludes nursing home/healthcare facility events)	18203 (39.9)	6531 (35.9)	5929 (32.6)	2643 (14.5)	2274 (12.5)
No Bystander CPR (excludes nursing home/healthcare facility events)	27433 (60.1)	7801 (28.4)	6925 (25.2)	2077 (7.6)	1664 (6.1)
Initial Arrest Rhythm					
Shockable	12172 (19.8)	6157 (50.6)	6032 (49.6)	3594 (29.5)	3216 (26.4)
Non-shockable	49344 (80.2)	13818 (28.0)	11757 (23.8)	3070 (6.2)	2276 (4.6)
AED Use					
Bystander AED use*	3505 (6.5)	1376 (39.3)	1212 (34.6)	683 (19.5)	603 (17.2)
Bystander AED use* (excludes nursing home/healthcare facility events)	1268 (2.8)	612 (48.3)	596 (47.0)	407 (32.1)	384 (30.3)
Trained provider (First Responder) AED use	14055 (22.8)	4456 (31.7)	3869 (27.5)	1480 (10.5)	1269 (9.0)
Utstein					
Witnessed and shockable	8641 (14.1)	4806 (55.6)	4756 (55.0)	3031 (35.1)	2751 (31.8)
Bystander witnessed and shockable	7229 (11.8)	4014 (55.5)	3956 (54.7)	2458 (34.0)	2211 (30.6)
Hypothermia					
Field hypothermia	3769 (6.1)	2305 (61.2)	1898 (50.4)	673 (17.9)	531 (14.1)
In-hospital hypothermia (among admitted patients)	7937 (44.6)	--	--	2672 (33.7)	2107 (26.5)

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=124).

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

[†]CPC missing for 87 patients.

CARES Survival Report

All Agencies/National Data

Service Date: From 01/01/2016 Through 12/31/2016 | Non-Traumatic Etiology

	Age = ≤1 years N = 991				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2† (%)
Total	991	130 (13.1)	183 (18.5)	63 (6.4)	48 (4.8)
Location of Arrest					
Home/Residence	887 (89.5)	111 (12.5)	163 (18.4)	56 (6.3)	43 (4.8)
Nursing Home	3 (0.3)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Public Setting	101 (10.2)	19 (18.8)	20 (19.8)	7 (6.9)	5 (5.0)
Arrest Witnessed Status					
Unwitnessed	793 (80.0)	66 (8.3)	100 (12.6)	25 (3.2)	18 (2.3)
Bystander witnessed	173 (17.5)	54 (31.2)	72 (41.6)	32 (18.5)	26 (15.0)
911 Responder witnessed	25 (2.5)	10 (40.0)	11 (44.0)	6 (24.0)	4 (16.0)
Bystander CPR*					
Bystander CPR	472 (48.9)	76 (16.1)	105 (22.2)	37 (7.8)	29 (6.1)
No Bystander CPR	494 (51.1)	44 (8.9)	67 (13.6)	20 (4.0)	15 (3.0)
Bystander CPR (excludes nursing home/healthcare facility events)	462 (48.7)	72 (15.6)	103 (22.3)	36 (7.8)	29 (6.3)
No Bystander CPR (excludes nursing home/healthcare facility events)	487 (51.3)	43 (8.8)	66 (13.6)	19 (3.9)	14 (2.9)
Initial Arrest Rhythm					
Shockable	29 (2.9)	6 (20.7)	6 (20.7)	4 (13.8)	3 (10.3)
Non-shockable	962 (97.1)	124 (12.9)	177 (18.4)	59 (6.1)	45 (4.7)
AED Use					
Bystander AED use*	4 (0.4)	0 (0.0)	1 (25.0)	0 (0.0)	0 (0.0)
Bystander AED use* (excludes nursing home/healthcare facility events)	3 (0.3)	0 (0.0)	1 (33.3)	0 (0.0)	0 (0.0)
Trained provider (First Responder) AED use	151 (15.2)	16 (10.6)	23 (15.2)	8 (5.3)	6 (4.0)
Utstein					
Witnessed and shockable	16 (1.6)	3 (18.8)	4 (25.0)	3 (18.8)	3 (18.8)
Bystander witnessed and shockable	13 (1.3)	2 (15.4)	3 (23.1)	2 (15.4)	2 (15.4)
Hypothermia					
Field hypothermia	9 (0.9)	1 (11.1)	1 (11.1)	0 (0.0)	0 (0.0)
In-hospital hypothermia (among admitted patients)	24 (13.1)	--	--	6 (25.0)	5 (20.8)

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 1 patients.

CARES Survival Report

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Service Date: From 01/01/2016 Through 12/31/2016 | Non-Traumatic Etiology

	Age = >1 - 12 years N = 397				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2† (%)
Total	397	92 (23.2)	132 (33.2)	57 (14.4)	40 (10.1)
Location of Arrest					
Home/Residence	306 (77.1)	59 (19.3)	89 (29.1)	33 (10.8)	19 (6.2)
Nursing Home	1 (0.3)	1 (100.0)	1 (100.0)	0 (0.0)	0 (0.0)
Public Setting	90 (22.7)	32 (35.6)	42 (46.7)	24 (26.7)	21 (23.3)
Arrest Witnessed Status					
Unwitnessed	247 (62.2)	40 (16.2)	63 (25.5)	21 (8.5)	14 (5.7)
Bystander witnessed	125 (31.5)	46 (36.8)	61 (48.8)	32 (25.6)	23 (18.4)
911 Responder witnessed	25 (6.3)	6 (24.0)	8 (32.0)	4 (16.0)	3 (12.0)
Bystander CPR*					
Bystander CPR	195 (52.4)	65 (33.3)	83 (42.6)	40 (20.5)	29 (14.9)
No Bystander CPR	177 (47.6)	19 (10.7)	41 (23.2)	13 (7.3)	8 (4.5)
Bystander CPR (excludes nursing home/healthcare facility events)	184 (51.5)	61 (33.2)	75 (40.8)	35 (19.0)	26 (14.1)
No Bystander CPR (excludes nursing home/healthcare facility events)	173 (48.5)	18 (10.4)	39 (22.5)	13 (7.5)	8 (4.6)
Initial Arrest Rhythm					
Shockable	33 (8.3)	12 (36.4)	20 (60.6)	12 (36.4)	11 (33.3)
Non-shockable	364 (91.7)	80 (22.0)	112 (30.8)	45 (12.4)	29 (8.0)
AED Use					
Bystander AED use*	15 (4.0)	6 (40.0)	9 (60.0)	5 (33.3)	5 (33.3)
Bystander AED use* (excludes nursing home/healthcare facility events)	12 (3.4)	5 (41.7)	6 (50.0)	4 (33.3)	4 (33.3)
Trained provider (First Responder) AED use	77 (19.4)	21 (27.3)	27 (35.1)	8 (10.4)	6 (7.8)
Utstein					
Witnessed and shockable	21 (5.3)	8 (38.1)	13 (61.9)	8 (38.1)	7 (33.3)
Bystander witnessed and shockable	17 (4.3)	8 (47.1)	11 (64.7)	7 (41.2)	6 (35.3)
Hypothermia					
Field hypothermia	13 (3.3)	7 (53.8)	5 (38.5)	2 (15.4)	2 (15.4)
In-hospital hypothermia (among admitted patients)	28 (21.2)	--	--	10 (35.7)	6 (21.4)

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=1).

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

†CPC missing for 2 patients.

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Service Date: From 01/01/2016 Through 12/31/2016 | Non-Traumatic Etiology

	Age = 13 - 18 years N = 306				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2† (%)
Total	306	117 (38.2)	134 (43.8)	61 (19.9)	51 (16.7)
Location of Arrest					
Home/Residence	223 (72.9)	69 (30.9)	78 (35.0)	23 (10.3)	17 (7.6)
Nursing Home	1 (0.3)	1 (100.0)	1 (100.0)	0 (0.0)	0 (0.0)
Public Setting	82 (26.8)	47 (57.3)	55 (67.1)	38 (46.3)	34 (41.5)
Arrest Witnessed Status					
Unwitnessed	166 (54.2)	39 (23.5)	49 (29.5)	15 (9.0)	11 (6.6)
Bystander witnessed	110 (35.9)	64 (58.2)	68 (61.8)	40 (36.4)	35 (31.8)
911 Responder witnessed	30 (9.8)	14 (46.7)	17 (56.7)	6 (20.0)	5 (16.7)
Bystander CPR*					
Bystander CPR	144 (52.2)	63 (43.8)	70 (48.6)	39 (27.1)	34 (23.6)
No Bystander CPR	132 (47.8)	40 (30.3)	47 (35.6)	16 (12.1)	12 (9.1)
Bystander CPR (excludes nursing home/healthcare facility events)	140 (51.9)	61 (43.6)	67 (47.9)	36 (25.7)	32 (22.9)
No Bystander CPR (excludes nursing home/healthcare facility events)	130 (48.1)	39 (30.0)	45 (34.6)	16 (12.3)	12 (9.2)
Initial Arrest Rhythm					
Shockable	60 (19.6)	34 (56.7)	40 (66.7)	31 (51.7)	30 (50.0)
Non-shockable	246 (80.4)	83 (33.7)	94 (38.2)	30 (12.2)	21 (8.5)
AED Use					
Bystander AED use*	16 (5.8)	12 (75.0)	15 (93.8)	12 (75.0)	10 (62.5)
Bystander AED use* (excludes nursing home/healthcare facility events)	13 (4.8)	10 (76.9)	12 (92.3)	9 (69.2)	8 (61.5)
Trained provider (First Responder) AED use	83 (27.1)	27 (32.5)	29 (34.9)	10 (12.0)	9 (10.8)
Utstein					
Witnessed and shockable	49 (16.0)	31 (63.3)	36 (73.5)	28 (57.1)	27 (55.1)
Bystander witnessed and shockable	46 (15.0)	30 (65.2)	35 (76.1)	27 (58.7)	26 (56.5)
Hypothermia					
Field hypothermia	25 (8.2)	11 (44.0)	12 (48.0)	3 (12.0)	1 (4.0)
In-hospital hypothermia (among admitted patients)	48 (35.8)	--	--	20 (41.7)	18 (37.5)

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=1).

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

†CPC missing for 2 patients.

CARES Survival Report

All Agencies/National Data

Service Date: From 01/01/2016 Through 12/31/2016 | Non-Traumatic Etiology

	Age = >18 years N = 59759				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2† (%)
Total	59759	19626 (32.8)	17330 (29.0)	6479 (10.8)	5350 (9.0)
Location of Arrest					
Home/Residence	40685 (68.1)	12857 (31.6)	11175 (27.5)	3685 (9.1)	2961 (7.3)
Nursing Home	6477 (10.8)	1676 (25.9)	1179 (18.2)	283 (4.4)	153 (2.4)
Public Setting	12596 (21.1)	5093 (40.4)	4976 (39.5)	2511 (19.9)	2236 (17.8)
Arrest Witnessed Status					
Unwitnessed	29906 (50.0)	6679 (22.3)	5576 (18.6)	1398 (4.7)	1061 (3.5)
Bystander witnessed	22518 (37.7)	9803 (43.5)	8719 (38.7)	3763 (16.7)	3186 (14.1)
911 Responder witnessed	7333 (12.3)	3144 (42.9)	3034 (41.4)	1317 (18.0)	1102 (15.0)
Bystander CPR*					
Bystander CPR	24215 (46.2)	8363 (34.5)	7207 (29.8)	3046 (12.6)	2559 (10.6)
No Bystander CPR	28202 (53.8)	8117 (28.8)	7085 (25.1)	2113 (7.5)	1687 (6.0)
Bystander CPR (excludes nursing home/healthcare facility events)	17403 (39.5)	6334 (36.4)	5679 (32.6)	2531 (14.5)	2183 (12.5)
No Bystander CPR (excludes nursing home/healthcare facility events)	26603 (60.5)	7694 (28.9)	6769 (25.4)	2027 (7.6)	1628 (6.1)
Initial Arrest Rhythm					
Shockable	12045 (20.2)	6105 (50.7)	5965 (49.5)	3546 (29.4)	3171 (26.3)
Non-shockable	47707 (79.8)	13516 (28.3)	11359 (23.8)	2927 (6.1)	2173 (4.6)
AED Use					
Bystander AED use*	3467 (6.6)	1357 (39.1)	1186 (34.2)	665 (19.2)	587 (16.9)
Bystander AED use* (excludes nursing home/healthcare facility events)	1238 (2.8)	597 (48.2)	576 (46.5)	393 (31.7)	371 (30.0)
Trained provider (First Responder) AED use	13737 (23.0)	4392 (32.0)	3790 (27.6)	1454 (10.6)	1248 (9.1)
Utstein					
Witnessed and shockable	8552 (14.3)	4764 (55.7)	4702 (55.0)	2991 (35.0)	2713 (31.7)
Bystander witnessed and shockable	7151 (12.0)	3974 (55.6)	3906 (54.6)	2421 (33.9)	2176 (30.4)
Hypothermia					
Field hypothermia	3721 (6.2)	2286 (61.4)	1880 (50.5)	668 (18.0)	528 (14.2)
In-hospital hypothermia (among admitted patients)	7833 (45.2)	--	--	2633 (33.6)	2076 (26.5)

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=120).

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

†CPC missing for 81 patients.