

# CARES Survival Report

## All Agencies/National Data

Service Date: From 01/01/2013 Through 12/31/2018 | Non-Traumatic Etiology

	OVERALL N = 349643				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 <sup>†</sup> (%)
<b>Total</b>	349643	111262 (31.8)	99265 (28.4)	36928 (10.6)	29476 (8.4)
<b>Location of Arrest</b>					
Home/Residence	243779 (69.7)	73430 (30.1)	64819 (26.6)	21280 (8.7)	16529 (6.8)
Nursing Home	38233 (10.9)	10085 (26.4)	7130 (18.6)	1671 (4.4)	820 (2.1)
Public Setting	67625 (19.3)	27747 (41.0)	27315 (40.4)	13977 (20.7)	12127 (17.9)
<b>Arrest Witnessed Status</b>					
Unwitnessed	176913 (50.6)	37614 (21.3)	32434 (18.3)	8100 (4.6)	5827 (3.3)
Bystander witnessed	129786 (37.1)	55238 (42.6)	49140 (37.9)	21018 (16.2)	17309 (13.3)
911 Responder witnessed	42930 (12.3)	18401 (42.9)	17683 (41.2)	7805 (18.2)	6338 (14.8)
<b>Bystander CPR*</b>					
Bystander CPR	139967 (45.6)	46533 (33.2)	40673 (29.1)	16947 (12.1)	13958 (10.0)
No Bystander CPR	166712 (54.4)	46321 (27.8)	40901 (24.5)	12173 (7.3)	9178 (5.5)
Bystander CPR (excludes nursing home/healthcare facility events)	100992 (39.0)	35036 (34.7)	31969 (31.7)	14150 (14.0)	12077 (12.0)
No Bystander CPR (excludes nursing home/healthcare facility events)	157844 (61.0)	43892 (27.8)	39149 (24.8)	11746 (7.4)	8924 (5.7)
<b>Initial Arrest Rhythm</b>					
Shockable	67361 (19.3)	33461 (49.7)	32724 (48.6)	19796 (29.4)	17437 (25.9)
Non-shockable	282246 (80.7)	77773 (27.6)	66513 (23.6)	17106 (6.1)	12014 (4.3)
<b>AED Use</b>					
Bystander AED use*	19834 (6.5)	7542 (38.0)	6561 (33.1)	3510 (17.7)	3002 (15.1)
Bystander AED use* (excludes nursing home/healthcare facility events)	6203 (2.4)	3085 (49.7)	2978 (48.0)	2077 (33.5)	1936 (31.2)
Trained provider (First Responder) AED use	80169 (22.9)	24660 (30.8)	21386 (26.7)	8004 (10.0)	6622 (8.3)
<b>Utstein</b>					
Witnessed and shockable	48147 (13.8)	26317 (54.7)	25841 (53.7)	16637 (34.6)	14880 (30.9)
Bystander witnessed and shockable	40119 (11.5)	21675 (54.0)	21278 (53.0)	13361 (33.3)	11844 (29.5)
<b>Hypothermia</b>					
Field hypothermia	26895 (7.7)	17415 (64.8)	14067 (52.3)	4972 (18.5)	3733 (13.9)
In-hospital hypothermia (among admitted patients)	44485 (44.8)	--	--	15008 (33.7)	11400 (25.6)

**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=1061).

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

<sup>†</sup>CPC missing for 747 patients.

# CARES Survival Report

## All Agencies/National Data

Service Date: From 01/01/2013 Through 12/31/2018 | Non-Traumatic Etiology

	Age = ≤1 years N = 5658				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 <sup>†</sup> (%)
<b>Total</b>	5658	726 (12.8)	1044 (18.5)	344 (6.1)	264 (4.7)
<b>Location of Arrest</b>					
Home/Residence	5141 (90.9)	621 (12.1)	911 (17.7)	292 (5.7)	223 (4.3)
Nursing Home	15 (0.3)	1 (6.7)	1 (6.7)	0 (0.0)	0 (0.0)
Public Setting	501 (8.9)	104 (20.8)	132 (26.3)	52 (10.4)	41 (8.2)
<b>Arrest Witnessed Status</b>					
Unwitnessed	4542 (80.3)	377 (8.3)	617 (13.6)	134 (3.0)	91 (2.0)
Bystander witnessed	943 (16.7)	286 (30.3)	353 (37.4)	171 (18.1)	143 (15.2)
911 Responder witnessed	173 (3.1)	63 (36.4)	74 (42.8)	39 (22.5)	30 (17.3)
<b>Bystander CPR*</b>					
Bystander CPR	2599 (47.4)	370 (14.2)	509 (19.6)	183 (7.0)	144 (5.5)
No Bystander CPR	2885 (52.6)	293 (10.2)	461 (16.0)	122 (4.2)	90 (3.1)
Bystander CPR (excludes nursing home/healthcare facility events)	2532 (46.9)	346 (13.7)	488 (19.3)	174 (6.9)	138 (5.5)
No Bystander CPR (excludes nursing home/healthcare facility events)	2863 (53.1)	289 (10.1)	454 (15.9)	120 (4.2)	89 (3.1)
<b>Initial Arrest Rhythm</b>					
Shockable	182 (3.2)	55 (30.2)	62 (34.1)	41 (22.5)	37 (20.3)
Non-shockable	5475 (96.8)	670 (12.2)	981 (17.9)	302 (5.5)	226 (4.1)
<b>AED Use</b>					
Bystander AED use*	27 (0.5)	9 (33.3)	8 (29.6)	4 (14.8)	2 (7.4)
Bystander AED use* (excludes nursing home/healthcare facility events)	15 (0.3)	6 (40.0)	5 (33.3)	2 (13.3)	2 (13.3)
Trained provider (First Responder) AED use	718 (12.7)	88 (12.3)	126 (17.5)	32 (4.5)	25 (3.5)
<b>Utstein</b>					
Witnessed and shockable	98 (1.7)	43 (43.9)	47 (48.0)	34 (34.7)	31 (31.6)
Bystander witnessed and shockable	84 (1.5)	37 (44.0)	40 (47.6)	28 (33.3)	25 (29.8)
<b>Hypothermia</b>					
Field hypothermia	83 (1.5)	24 (28.9)	21 (25.3)	5 (6.0)	4 (4.8)
In-hospital hypothermia (among admitted patients)	175 (16.8)	--	--	47 (26.9)	34 (19.4)

**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=39).

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

<sup>†</sup>CPC missing for 5 patients.

# CARES Survival Report

## All Agencies/National Data

Service Date: From 01/01/2013 Through 12/31/2018 | Non-Traumatic Etiology

	Age = >1 - 12 years				
	N = 2320				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 <sup>†</sup> (%)
<b>Total</b>	2320	637 (27.5)	834 (35.9)	375 (16.2)	292 (12.6)
<b>Location of Arrest</b>					
Home/Residence	1837 (79.2)	438 (23.8)	586 (31.9)	222 (12.1)	153 (8.3)
Nursing Home	5 (0.2)	1 (20.0)	1 (20.0)	0 (0.0)	0 (0.0)
Public Setting	478 (20.6)	198 (41.4)	247 (51.7)	153 (32.0)	139 (29.1)
<b>Arrest Witnessed Status</b>					
Unwitnessed	1401 (60.4)	262 (18.7)	375 (26.8)	127 (9.1)	96 (6.9)
Bystander witnessed	745 (32.1)	319 (42.8)	379 (50.9)	211 (28.3)	168 (22.6)
911 Responder witnessed	174 (7.5)	56 (32.2)	80 (46.0)	37 (21.3)	28 (16.1)
<b>Bystander CPR*</b>					
Bystander CPR	1110 (51.7)	337 (30.4)	455 (41.0)	234 (21.1)	189 (17.0)
No Bystander CPR	1036 (48.3)	208 (20.1)	299 (28.9)	104 (10.0)	75 (7.2)
Bystander CPR (excludes nursing home/healthcare facility events)	1073 (51.1)	361 (33.6)	440 (41.0)	225 (21.0)	183 (17.1)
No Bystander CPR (excludes nursing home/healthcare facility events)	1028 (48.9)	206 (20.0)	295 (28.7)	103 (10.0)	74 (7.2)
<b>Initial Arrest Rhythm</b>					
Shockable	173 (7.5)	91 (52.6)	100 (57.8)	80 (46.2)	73 (42.2)
Non-shockable	2147 (92.5)	546 (25.4)	734 (34.2)	295 (13.7)	219 (10.2)
<b>AED Use</b>					
Bystander AED use*	61 (2.8)	28 (45.9)	35 (57.4)	26 (42.6)	23 (37.7)
Bystander AED use* (excludes nursing home/healthcare facility events)	49 (2.3)	30 (61.2)	30 (61.2)	23 (46.9)	21 (42.9)
Trained provider (First Responder) AED use	480 (20.7)	133 (27.7)	167 (34.8)	49 (10.2)	39 (8.1)
<b>Utstein</b>					
Witnessed and shockable	119 (5.1)	72 (60.5)	78 (65.5)	66 (55.5)	60 (50.4)
Bystander witnessed and shockable	102 (4.4)	68 (66.7)	73 (71.6)	63 (61.8)	57 (55.9)
<b>Hypothermia</b>					
Field hypothermia	63 (2.7)	36 (57.1)	35 (55.6)	9 (14.3)	5 (7.9)
In-hospital hypothermia (among admitted patients)	157 (18.8)	--	--	58 (36.9)	42 (26.8)

**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=27).

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

<sup>†</sup>CPC missing for 12 patients.

# CARES Survival Report

## All Agencies/National Data

Service Date: From 01/01/2013 Through 12/31/2018 | Non-Traumatic Etiology

	Age = 13 - 18 years N = 1736				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 <sup>†</sup> (%)
<b>Total</b>	1736	689 (39.7)	742 (42.7)	366 (21.1)	314 (18.1)
<b>Location of Arrest</b>					
Home/Residence	1256 (72.4)	428 (34.1)	451 (35.9)	171 (13.6)	133 (10.6)
Nursing Home	8 (0.5)	5 (62.5)	6 (75.0)	3 (37.5)	1 (12.5)
Public Setting	472 (27.2)	256 (54.2)	285 (60.4)	192 (40.7)	180 (38.1)
<b>Arrest Witnessed Status</b>					
Unwitnessed	980 (56.5)	259 (26.4)	283 (28.9)	81 (8.3)	63 (6.4)
Bystander witnessed	615 (35.4)	362 (58.9)	372 (60.5)	242 (39.3)	220 (35.8)
911 Responder witnessed	141 (8.1)	68 (48.2)	87 (61.7)	43 (30.5)	31 (22.0)
<b>Bystander CPR*</b>					
Bystander CPR	813 (51.0)	364 (44.8)	386 (47.5)	217 (26.7)	193 (23.7)
No Bystander CPR	782 (49.0)	257 (32.9)	269 (34.4)	106 (13.6)	90 (11.5)
Bystander CPR (excludes nursing home/healthcare facility events)	797 (50.7)	358 (44.9)	377 (47.3)	213 (26.7)	190 (23.8)
No Bystander CPR (excludes nursing home/healthcare facility events)	774 (49.3)	252 (32.6)	264 (34.1)	103 (13.3)	87 (11.2)
<b>Initial Arrest Rhythm</b>					
Shockable	388 (22.4)	249 (64.2)	270 (69.6)	213 (54.9)	198 (51.0)
Non-shockable	1347 (77.6)	439 (32.6)	471 (35.0)	152 (11.3)	115 (8.5)
<b>AED Use</b>					
Bystander AED use*	91 (5.7)	64 (70.3)	72 (79.1)	54 (59.3)	51 (56.0)
Bystander AED use* (excludes nursing home/healthcare facility events)	80 (5.1)	60 (75.0)	64 (80.0)	50 (62.5)	48 (60.0)
Trained provider (First Responder) AED use	456 (26.3)	185 (40.6)	192 (42.1)	94 (20.6)	82 (18.0)
<b>Utstein</b>					
Witnessed and shockable	303 (17.5)	215 (71.0)	229 (75.6)	190 (62.7)	180 (59.4)
Bystander witnessed and shockable	274 (15.8)	197 (71.9)	208 (75.9)	175 (63.9)	165 (60.2)
<b>Hypothermia</b>					
Field hypothermia	119 (6.9)	77 (64.7)	72 (60.5)	33 (27.7)	29 (24.4)
In-hospital hypothermia (among admitted patients)	257 (34.6)	--	--	127 (49.4)	110 (42.8)

**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=16).

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

<sup>†</sup>CPC missing for 8 patients.

# CARES Survival Report

## All Agencies/National Data

Service Date: From 01/01/2013 Through 12/31/2018 | Non-Traumatic Etiology

	Age = >18 years N = 339528				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 <sup>†</sup> (%)
<b>Total</b>	339528	109100 (32.1)	96529 (28.4)	35775 (10.5)	28545 (8.4)
<b>Location of Arrest</b>					
Home/Residence	235256 (69.3)	71868 (30.5)	62789 (26.7)	20550 (8.7)	15982 (6.8)
Nursing Home	38195 (11.2)	10077 (26.4)	7122 (18.6)	1668 (4.4)	819 (2.1)
Public Setting	66072 (19.5)	27155 (41.1)	26617 (40.3)	13557 (20.5)	11744 (17.8)
<b>Arrest Witnessed Status</b>					
Unwitnessed	169842 (50.0)	36691 (21.6)	31132 (18.3)	7744 (4.6)	5565 (3.3)
Bystander witnessed	127305 (37.5)	54212 (42.6)	47972 (37.7)	20355 (16.0)	16744 (13.2)
911 Responder witnessed	42367 (12.5)	18188 (42.9)	17417 (41.1)	7671 (18.1)	6234 (14.7)
<b>Bystander CPR*</b>					
Bystander CPR	135334 (45.5)	45392 (33.5)	39283 (29.0)	16289 (12.0)	13411 (9.9)
No Bystander CPR	161794 (54.5)	45513 (28.1)	39821 (24.6)	11812 (7.3)	8898 (5.5)
Bystander CPR (excludes nursing home/healthcare facility events)	96504 (38.7)	33943 (35.2)	30631 (31.7)	13518 (14.0)	11549 (12.0)
No Bystander CPR (excludes nursing home/healthcare facility events)	152970 (61.3)	43095 (28.2)	38085 (24.9)	11391 (7.4)	8649 (5.7)
<b>Initial Arrest Rhythm</b>					
Shockable	66591 (19.6)	33054 (49.6)	32279 (48.5)	19451 (29.2)	17118 (25.7)
Non-shockable	272904 (80.4)	76020 (27.9)	64224 (23.5)	16300 (6.0)	11404 (4.2)
<b>AED Use</b>					
Bystander AED use*	19645 (6.6)	7434 (37.8)	6444 (32.8)	3424 (17.4)	2924 (14.9)
Bystander AED use* (excludes nursing home/healthcare facility events)	6055 (2.4)	2988 (49.3)	2877 (47.5)	2000 (33.0)	1863 (30.8)
Trained provider (First Responder) AED use	78476 (23.1)	24243 (30.9)	20891 (26.6)	7825 (10.0)	6472 (8.2)
<b>Utstein</b>					
Witnessed and shockable	47605 (14.0)	25976 (54.6)	25475 (53.5)	16337 (34.3)	14599 (30.7)
Bystander witnessed and shockable	39639 (11.7)	21362 (53.9)	20945 (52.8)	13085 (33.0)	11587 (29.2)
<b>Hypothermia</b>					
Field hypothermia	26614 (7.8)	17268 (64.9)	13928 (52.3)	4919 (18.5)	3689 (13.9)
In-hospital hypothermia (among admitted patients)	43851 (45.4)	--	--	14748 (33.6)	11191 (25.5)

**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=964).

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

<sup>†</sup>CPC missing for 720 patients.