

# CARES Survival Report

## All Agencies/National Data

Service Date: From 01/01/2013 Through 12/31/2019 | Non-Traumatic Etiology

	OVERALL N = 456262				
	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>	456262	144125 (31.6)	129196 (28.3)	48315 (10.6)	38659 (8.5)
<b>Location of Arrest</b>					
Home/Residence	319060 (69.9)	95474 (29.9)	84564 (26.5)	27882 (8.7)	21742 (6.8)
Nursing Home	49707 (10.9)	12905 (26.0)	9247 (18.6)	2219 (4.5)	1109 (2.2)
Public Setting	87488 (19.2)	35746 (40.9)	35384 (40.4)	18214 (20.8)	15808 (18.1)
<b>Arrest Witnessed Status</b>					
Unwitnessed	229816 (50.4)	48232 (21.0)	41959 (18.3)	10539 (4.6)	7598 (3.3)
Bystander witnessed	170204 (37.3)	71892 (42.2)	64060 (37.6)	27502 (16.2)	22696 (13.3)
911 Responder witnessed	56223 (12.3)	23992 (42.7)	23168 (41.2)	10269 (18.3)	8363 (14.9)
<b>Bystander CPR*</b>					
Bystander CPR	184114 (46.0)	60393 (32.8)	53128 (28.9)	22186 (12.1)	18302 (9.9)
No Bystander CPR	215876 (54.0)	59729 (27.7)	52884 (24.5)	15855 (7.3)	11990 (5.6)
Bystander CPR (excludes nursing home/healthcare facility events)	133652 (39.5)	45678 (34.2)	41875 (31.3)	18446 (13.8)	15760 (11.8)
No Bystander CPR (excludes nursing home/healthcare facility events)	204686 (60.5)	56668 (27.7)	50646 (24.7)	15306 (7.5)	11660 (5.7)
<b>Initial Arrest Rhythm</b>					
Shockable	87739 (19.2)	43384 (49.4)	42501 (48.4)	25717 (29.3)	22712 (25.9)
Non-shockable	368475 (80.8)	100703 (27.3)	86661 (23.5)	22569 (6.1)	15920 (4.3)
<b>AED Use</b>					
Bystander AED use*	26626 (6.7)	9935 (37.3)	8680 (32.6)	4651 (17.5)	3989 (15.0)
Bystander AED use* (excludes nursing home/healthcare facility events)	8016 (2.4)	3962 (49.4)	3852 (48.1)	2685 (33.5)	2505 (31.2)
Trained provider (First Responder) AED use	103518 (22.7)	31735 (30.7)	27555 (26.6)	10398 (10.0)	8612 (8.3)
<b>Utstein</b>					
Witnessed and shockable	62773 (13.8)	34183 (54.5)	33581 (53.5)	21644 (34.5)	19394 (30.9)
Bystander witnessed and shockable	52256 (11.5)	28131 (53.8)	27628 (52.9)	17387 (33.3)	15440 (29.5)
<b>Hypothermia</b>					
Field hypothermia	30309 (6.6)	19335 (63.8)	15713 (51.8)	5561 (18.3)	4185 (13.8)
In-hospital hypothermia (among admitted patients)	58109 (45.0)	--	--	19433 (33.4)	14759 (25.4)

**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=1365).

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

<sup>†</sup>CPC missing for 778 patients.

# CARES Survival Report

## All Agencies/National Data

Service Date: From 01/01/2013 Through 12/31/2019 | Non-Traumatic Etiology

	Age = <1 years N = 6362				
	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>	6362	745 (11.7)	1085 (17.1)	375 (5.9)	291 (4.6)
<b>Location of Arrest</b>					
Home/Residence	5792 (91.1)	636 (11.0)	950 (16.4)	319 (5.5)	247 (4.3)
Nursing Home	15 (0.2)	0 (0.0)	1 (6.7)	0 (0.0)	0 (0.0)
Public Setting	554 (8.7)	109 (19.7)	134 (24.2)	56 (10.1)	44 (7.9)
<b>Arrest Witnessed Status</b>					
Unwitnessed	5166 (81.2)	378 (7.3)	637 (12.3)	140 (2.7)	92 (1.8)
Bystander witnessed	1026 (16.1)	306 (29.8)	378 (36.8)	193 (18.8)	166 (16.2)
911 Responder witnessed	170 (2.7)	61 (35.9)	70 (41.2)	42 (24.7)	33 (19.4)
<b>Bystander CPR*</b>					
Bystander CPR	2929 (47.3)	377 (12.9)	532 (18.2)	199 (6.8)	157 (5.4)
No Bystander CPR	3262 (52.7)	307 (9.4)	483 (14.8)	134 (4.1)	101 (3.1)
Bystander CPR (excludes nursing home/healthcare facility events)	2858 (46.9)	354 (12.4)	511 (17.9)	191 (6.7)	150 (5.2)
No Bystander CPR (excludes nursing home/healthcare facility events)	3235 (53.1)	301 (9.3)	475 (14.7)	132 (4.1)	100 (3.1)
<b>Initial Arrest Rhythm</b>					
Shockable	207 (3.3)	59 (28.5)	67 (32.4)	44 (21.3)	38 (18.4)
Non-shockable	6154 (96.7)	685 (11.1)	1017 (16.5)	330 (5.4)	252 (4.1)
<b>AED Use</b>					
Bystander AED use*	35 (0.6)	7 (20.0)	7 (20.0)	3 (8.6)	2 (5.7)
Bystander AED use* (excludes nursing home/healthcare facility events)	17 (0.3)	5 (29.4)	5 (29.4)	3 (17.6)	2 (11.8)
Trained provider (First Responder) AED use	817 (12.8)	96 (11.8)	134 (16.4)	36 (4.4)	28 (3.4)
<b>Utstein</b>					
Witnessed and shockable	104 (1.6)	47 (45.2)	50 (48.1)	37 (35.6)	33 (31.7)
Bystander witnessed and shockable	91 (1.4)	41 (45.1)	43 (47.3)	30 (33.0)	27 (29.7)
<b>Hypothermia</b>					
Field hypothermia	84 (1.3)	21 (25.0)	21 (25.0)	5 (6.0)	4 (4.8)
In-hospital hypothermia (among admitted patients)	201 (18.5)	--	--	61 (30.3)	43 (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=45).

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

<sup>†</sup>CPC missing for 3 patients.

# CARES Survival Report

## All Agencies/National Data

Service Date: From 01/01/2013 Through 12/31/2019 | Non-Traumatic Etiology

	Age = 1 - 12 years N = 3965				
	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>	3965	1029 (26.0)	1397 (35.2)	589 (14.9)	438 (11.0)
<b>Location of Arrest</b>					
Home/Residence	3255 (82.1)	754 (23.2)	1042 (32.0)	382 (11.7)	258 (7.9)
Nursing Home	8 (0.2)	3 (37.5)	3 (37.5)	0 (0.0)	0 (0.0)
Public Setting	702 (17.7)	272 (38.7)	352 (50.1)	207 (29.5)	180 (25.6)
<b>Arrest Witnessed Status</b>					
Unwitnessed	2505 (63.2)	453 (18.1)	681 (27.2)	216 (8.6)	150 (6.0)
Bystander witnessed	1198 (30.2)	493 (41.2)	595 (49.7)	318 (26.5)	249 (20.8)
911 Responder witnessed	262 (6.6)	83 (31.7)	121 (46.2)	55 (21.0)	39 (14.9)
<b>Bystander CPR*</b>					
Bystander CPR	1926 (52.0)	608 (31.6)	766 (39.8)	358 (18.6)	278 (14.4)
No Bystander CPR	1776 (48.0)	338 (19.0)	510 (28.7)	176 (9.9)	121 (6.8)
Bystander CPR (excludes nursing home/healthcare facility events)	1852 (51.2)	579 (31.3)	734 (39.6)	340 (18.4)	267 (14.4)
No Bystander CPR (excludes nursing home/healthcare facility events)	1764 (48.8)	336 (19.0)	505 (28.6)	175 (9.9)	120 (6.8)
<b>Initial Arrest Rhythm</b>					
Shockable	244 (6.2)	121 (49.6)	137 (56.1)	103 (42.2)	94 (38.5)
Non-shockable	3720 (93.8)	907 (24.4)	1259 (33.8)	485 (13.0)	343 (9.2)
<b>AED Use</b>					
Bystander AED use*	78 (2.1)	46 (59.0)	48 (61.5)	34 (43.6)	28 (35.9)
Bystander AED use* (excludes nursing home/healthcare facility events)	58 (1.6)	38 (65.5)	39 (67.2)	27 (46.6)	24 (41.4)
Trained provider (First Responder) AED use	763 (19.2)	201 (26.3)	262 (34.3)	79 (10.4)	56 (7.3)
<b>Utstein</b>					
Witnessed and shockable	163 (4.1)	94 (57.7)	107 (65.6)	84 (51.5)	76 (46.6)
Bystander witnessed and shockable	140 (3.5)	89 (63.6)	99 (70.7)	80 (57.1)	72 (51.4)
<b>Hypothermia</b>					
Field hypothermia	89 (2.2)	50 (56.2)	47 (52.8)	14 (15.7)	9 (10.1)
In-hospital hypothermia (among admitted patients)	255 (18.3)	--	--	82 (32.2)	55 (21.6)

**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=37).

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

<sup>†</sup>CPC missing for 15 patients.

# CARES Survival Report

## All Agencies/National Data

Service Date: From 01/01/2013 Through 12/31/2019 | Non-Traumatic Etiology

	Age = 13 - 18 years N = 2343				
	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>	2343	898 (38.3)	971 (41.4)	467 (19.9)	406 (17.3)
<b>Location of Arrest</b>					
Home/Residence	1712 (73.1)	564 (32.9)	600 (35.0)	225 (13.1)	182 (10.6)
Nursing Home	15 (0.6)	7 (46.7)	7 (46.7)	4 (26.7)	1 (6.7)
Public Setting	616 (26.3)	327 (53.1)	364 (59.1)	238 (38.6)	223 (36.2)
<b>Arrest Witnessed Status</b>					
Unwitnessed	1328 (56.7)	344 (25.9)	381 (28.7)	111 (8.4)	88 (6.6)
Bystander witnessed	830 (35.4)	475 (57.2)	489 (58.9)	309 (37.2)	283 (34.1)
911 Responder witnessed	185 (7.9)	79 (42.7)	101 (54.6)	47 (25.4)	35 (18.9)
<b>Bystander CPR*</b>					
Bystander CPR	1088 (50.4)	475 (43.7)	499 (45.9)	279 (25.6)	252 (23.2)
No Bystander CPR	1070 (49.6)	344 (32.1)	371 (34.7)	141 (13.2)	119 (11.1)
Bystander CPR (excludes nursing home/healthcare facility events)	1058 (49.9)	463 (43.8)	483 (45.7)	271 (25.6)	246 (23.3)
No Bystander CPR (excludes nursing home/healthcare facility events)	1061 (50.1)	339 (32.0)	366 (34.5)	138 (13.0)	116 (10.9)
<b>Initial Arrest Rhythm</b>					
Shockable	503 (21.5)	318 (63.2)	341 (67.8)	269 (53.5)	254 (50.5)
Non-shockable	1838 (78.5)	578 (31.4)	628 (34.2)	196 (10.7)	150 (8.2)
<b>AED Use</b>					
Bystander AED use*	118 (5.5)	84 (71.2)	90 (76.3)	70 (59.3)	66 (55.9)
Bystander AED use* (excludes nursing home/healthcare facility events)	102 (4.8)	77 (75.5)	79 (77.5)	63 (61.8)	61 (59.8)
Trained provider (First Responder) AED use	605 (25.8)	243 (40.2)	249 (41.2)	119 (19.7)	103 (17.0)
<b>Utstein</b>					
Witnessed and shockable	388 (16.6)	268 (69.1)	282 (72.7)	235 (60.6)	225 (58.0)
Bystander witnessed and shockable	353 (15.1)	249 (70.5)	258 (73.1)	219 (62.0)	209 (59.2)
<b>Hypothermia</b>					
Field hypothermia	131 (5.6)	85 (64.9)	80 (61.1)	34 (26.0)	30 (22.9)
In-hospital hypothermia (among admitted patients)	343 (35.3)	--	--	163 (47.5)	142 (41.4)

**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=18).

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

<sup>†</sup>CPC missing for 9 patients.

# CARES Survival Report

## All Agencies/National Data

Service Date: From 01/01/2013 Through 12/31/2019 | Non-Traumatic Etiology

	Age = >18 years N = 443081				
	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>	443081	141319 (31.9)	125595 (28.3)	46798 (10.6)	37446 (8.5)
<b>Location of Arrest</b>					
Home/Residence	307928 (69.5)	93427 (30.3)	81866 (26.6)	26899 (8.7)	21006 (6.8)
Nursing Home	49657 (11.2)	12894 (26.0)	9236 (18.6)	2215 (4.5)	1108 (2.2)
Public Setting	85490 (19.3)	34998 (40.9)	34492 (40.3)	17684 (20.7)	15332 (17.9)
<b>Arrest Witnessed Status</b>					
Unwitnessed	220641 (49.8)	47026 (21.3)	40227 (18.2)	10056 (4.6)	7254 (3.3)
Bystander witnessed	166911 (37.7)	70546 (42.3)	62514 (37.5)	26630 (16.0)	21952 (13.2)
911 Responder witnessed	55510 (12.5)	23738 (42.8)	22845 (41.2)	10107 (18.2)	8238 (14.8)
<b>Bystander CPR*</b>					
Bystander CPR	178030 (45.9)	58894 (33.1)	51283 (28.8)	21323 (12.0)	17591 (9.9)
No Bystander CPR	209494 (54.1)	58676 (28.0)	51451 (24.6)	15363 (7.3)	11613 (5.5)
Bystander CPR (excludes nursing home/healthcare facility events)	127774 (39.2)	44250 (34.6)	40109 (31.4)	17622 (13.8)	15078 (11.8)
No Bystander CPR (excludes nursing home/healthcare facility events)	198359 (60.8)	55628 (28.0)	49231 (24.8)	14820 (7.5)	11288 (5.7)
<b>Initial Arrest Rhythm</b>					
Shockable	86752 (19.6)	42873 (49.4)	41940 (48.3)	25288 (29.1)	22313 (25.7)
Non-shockable	356287 (80.4)	98413 (27.6)	83626 (23.5)	21486 (6.0)	15111 (4.2)
<b>AED Use</b>					
Bystander AED use*	26383 (6.8)	9797 (37.1)	8533 (32.3)	4542 (17.2)	3891 (14.7)
Bystander AED use* (excludes nursing home/healthcare facility events)	7834 (2.4)	3841 (49.0)	3727 (47.6)	2590 (33.1)	2416 (30.8)
Trained provider (First Responder) AED use	101287 (22.9)	31184 (30.8)	26899 (26.6)	10160 (10.0)	8421 (8.3)
<b>Utstein</b>					
Witnessed and shockable	62092 (14.0)	33762 (54.4)	33128 (53.4)	21277 (34.3)	19049 (30.7)
Bystander witnessed and shockable	51648 (11.7)	27740 (53.7)	27214 (52.7)	17047 (33.0)	15121 (29.3)
<b>Hypothermia</b>					
Field hypothermia	29985 (6.8)	19168 (63.9)	15553 (51.9)	5502 (18.3)	4136 (13.8)
In-hospital hypothermia (among admitted patients)	57259 (45.6)	--	--	19098 (33.4)	14495 (25.3)

**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=1248).

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

<sup>†</sup>CPC missing for 749 patients.