

# CARES Survival Report

## All Agencies/National Data

Date of Arrest: From 01/01/2013 Through 12/31/2022 | Non-Traumatic Etiology

	OVERALL N = 876203				
	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>	876203	258578 (29.5)	233563 (26.7)	87594 (10.0)	69890 (8.0)
<b>Location of Arrest</b>					
Home/Residence	626862 (71.5)	176114 (28.1)	157068 (25.1)	52522 (8.4)	41032 (6.5)
Nursing Home	93112 (10.6)	21692 (23.3)	15401 (16.5)	3836 (4.1)	1819 (2.0)
Public Setting	156218 (17.8)	60772 (38.9)	61093 (39.1)	31236 (20.0)	27039 (17.3)
<b>Arrest Witnessed Status</b>					
Unwitnessed	442483 (50.5)	86492 (19.5)	75679 (17.1)	19536 (4.4)	14202 (3.2)
Bystander witnessed	326525 (37.3)	128694 (39.4)	115358 (35.3)	49376 (15.1)	40554 (12.4)
911 Responder witnessed	107149 (12.2)	43375 (40.5)	42510 (39.7)	18675 (17.4)	15130 (14.1)
<b>Bystander CPR*</b>					
Bystander CPR	355431 (46.2)	107751 (30.3)	95164 (26.8)	39535 (11.1)	32524 (9.2)
No Bystander CPR	413542 (53.8)	107432 (26.0)	95866 (23.2)	29374 (7.1)	22229 (5.4)
Bystander CPR (excludes nursing home/healthcare facility events)	261266 (39.9)	82802 (31.7)	76165 (29.2)	33023 (12.6)	28159 (10.8)
No Bystander CPR (excludes nursing home/healthcare facility events)	394180 (60.1)	102577 (26.0)	92270 (23.4)	28453 (7.2)	21693 (5.5)
<b>Initial Arrest Rhythm</b>					
Shockable	157820 (18.0)	75008 (47.5)	73952 (46.9)	44371 (28.1)	39076 (24.8)
Non-shockable	718254 (82.0)	183488 (25.5)	159524 (22.2)	43146 (6.0)	30744 (4.3)
<b>AED Use</b>					
Bystander AED use*	51295 (6.7)	17325 (33.8)	14921 (29.1)	7900 (15.4)	6695 (13.1)
Bystander AED use* (excludes nursing home/healthcare facility events)	13427 (2.0)	6297 (46.9)	6163 (45.9)	4298 (32.0)	4016 (29.9)
Trained provider (First Responder) AED use	195823 (22.3)	56712 (29.0)	49325 (25.2)	18604 (9.5)	15391 (7.9)
<b>Utstein</b>					
Witnessed and shockable	112796 (12.9)	59183 (52.5)	58527 (51.9)	37347 (33.1)	33391 (29.6)
Bystander witnessed and shockable	93841 (10.7)	48663 (51.9)	48059 (51.2)	29941 (31.9)	26518 (28.3)
<b>Hypothermia</b>					
Field hypothermia	42273 (4.8)	25804 (61.0)	21090 (49.9)	7444 (17.6)	5513 (13.0)
In-hospital hypothermia/TTM (among admitted patients)	103787 (44.4)	--	--	33943 (32.7)	25154 (24.2)

**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=1891).

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

<sup>†</sup>CPC missing for 796 patients.

# CARES Survival Report

## All Agencies/National Data

Date of Arrest: From 01/01/2013 Through 12/31/2022 | Non-Traumatic Etiology

	Age = <1 years N = 10929				
	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>	10929	1259 (11.5)	1896 (17.3)	668 (6.1)	543 (5.0)
<b>Location of Arrest</b>					
Home/Residence	10026 (91.7)	1084 (10.8)	1675 (16.7)	569 (5.7)	461 (4.6)
Nursing Home	18 (0.2)	1 (5.6)	3 (16.7)	2 (11.1)	2 (11.1)
Public Setting	884 (8.1)	174 (19.7)	218 (24.7)	97 (11.0)	80 (9.0)
<b>Arrest Witnessed Status</b>					
Unwitnessed	8848 (81.0)	620 (7.0)	1090 (12.3)	229 (2.6)	161 (1.8)
Bystander witnessed	1783 (16.3)	527 (29.6)	677 (38.0)	357 (20.0)	310 (17.4)
911 Responder witnessed	298 (2.7)	112 (37.6)	129 (43.3)	82 (27.5)	72 (24.2)
<b>Bystander CPR*</b>					
Bystander CPR	4936 (46.4)	624 (12.6)	926 (18.8)	331 (6.7)	267 (5.4)
No Bystander CPR	5695 (53.6)	523 (9.2)	841 (14.8)	255 (4.5)	204 (3.6)
Bystander CPR (excludes nursing home/healthcare facility events)	4826 (46.0)	582 (12.1)	885 (18.3)	309 (6.4)	249 (5.2)
No Bystander CPR (excludes nursing home/healthcare facility events)	5654 (54.0)	512 (9.1)	827 (14.6)	250 (4.4)	200 (3.5)
<b>Initial Arrest Rhythm</b>					
Shockable	333 (3.0)	83 (24.9)	101 (30.3)	63 (18.9)	57 (17.1)
Non-shockable	10590 (97.0)	1173 (11.1)	1791 (16.9)	602 (5.7)	484 (4.6)
<b>AED Use</b>					
Bystander AED use*	52 (0.5)	15 (28.8)	16 (30.8)	8 (15.4)	5 (9.6)
Bystander AED use* (excludes nursing home/healthcare facility events)	18 (0.2)	4 (22.2)	4 (22.2)	2 (11.1)	1 (5.6)
Trained provider (First Responder) AED use	1554 (14.2)	167 (10.7)	245 (15.8)	67 (4.3)	52 (3.3)
<b>Utstein</b>					
Witnessed and shockable	150 (1.4)	62 (41.3)	70 (46.7)	52 (34.7)	48 (32.0)
Bystander witnessed and shockable	134 (1.2)	56 (41.8)	63 (47.0)	45 (33.6)	41 (30.6)
<b>Hypothermia</b>					
Field hypothermia	124 (1.1)	26 (21.0)	31 (25.0)	7 (5.6)	6 (4.8)
In-hospital hypothermia/TTM (among admitted patients)	355 (18.7)	--	--	101 (28.5)	72 (20.3)

**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=83).

\*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

Date of Arrest: From 01/01/2013 Through 12/31/2022 | Non-Traumatic Etiology

	Age = 1 - 12 years N = 7054				
	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>	7054	1825 (25.9)	2498 (35.4)	1046 (14.8)	806 (11.4)
<b>Location of Arrest</b>					
Home/Residence	5848 (82.9)	1369 (23.4)	1909 (32.6)	702 (12.0)	514 (8.8)
Nursing Home	28 (0.4)	11 (39.3)	14 (50.0)	7 (25.0)	2 (7.1)
Public Setting	1178 (16.7)	445 (37.8)	575 (48.8)	337 (28.6)	290 (24.6)
<b>Arrest Witnessed Status</b>					
Unwitnessed	4450 (63.1)	816 (18.3)	1249 (28.1)	395 (8.9)	291 (6.5)
Bystander witnessed	2153 (30.5)	864 (40.1)	1039 (48.3)	555 (25.8)	445 (20.7)
911 Responder witnessed	450 (6.4)	144 (32.0)	209 (46.4)	96 (21.3)	70 (15.6)
<b>Bystander CPR*</b>					
Bystander CPR	3419 (51.8)	1042 (30.5)	1342 (39.3)	614 (18.0)	490 (14.3)
No Bystander CPR	3183 (48.2)	638 (20.0)	946 (29.7)	336 (10.6)	246 (7.7)
Bystander CPR (excludes nursing home/healthcare facility events)	3285 (50.9)	990 (30.1)	1282 (39.0)	580 (17.7)	471 (14.3)
No Bystander CPR (excludes nursing home/healthcare facility events)	3167 (49.1)	635 (20.1)	940 (29.7)	335 (10.6)	245 (7.7)
<b>Initial Arrest Rhythm</b>					
Shockable	447 (6.3)	215 (48.1)	247 (55.3)	177 (39.6)	158 (35.3)
Non-shockable	6604 (93.7)	1608 (24.3)	2249 (34.1)	867 (13.1)	646 (9.8)
<b>AED Use</b>					
Bystander AED use*	151 (2.3)	77 (51.0)	85 (56.3)	64 (42.4)	49 (32.5)
Bystander AED use* (excludes nursing home/healthcare facility events)	101 (1.6)	59 (58.4)	63 (62.4)	49 (48.5)	43 (42.6)
Trained provider (First Responder) AED use	1459 (20.7)	368 (25.2)	468 (32.1)	144 (9.9)	104 (7.1)
<b>Utstein</b>					
Witnessed and shockable	297 (4.2)	166 (55.9)	190 (64.0)	143 (48.1)	128 (43.1)
Bystander witnessed and shockable	254 (3.6)	155 (61.0)	174 (68.5)	136 (53.5)	122 (48.0)
<b>Hypothermia</b>					
Field hypothermia	142 (2.0)	70 (49.3)	73 (51.4)	22 (15.5)	14 (9.9)
In-hospital hypothermia/TTM (among admitted patients)	449 (18.0)	--	--	143 (31.8)	97 (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=63).

\*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

Date of Arrest: From 01/01/2013 Through 12/31/2022 | Non-Traumatic Etiology

	Age = 13 - 18 years N = 4823				
	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>	4823	1731 (35.9)	1876 (38.9)	917 (19.0)	811 (16.8)
<b>Location of Arrest</b>					
Home/Residence	3661 (75.9)	1153 (31.5)	1228 (33.5)	498 (13.6)	423 (11.6)
Nursing Home	30 (0.6)	10 (33.3)	10 (33.3)	6 (20.0)	1 (3.3)
Public Setting	1132 (23.5)	568 (50.2)	638 (56.4)	413 (36.5)	387 (34.2)
<b>Arrest Witnessed Status</b>					
Unwitnessed	2870 (59.5)	710 (24.7)	761 (26.5)	240 (8.4)	197 (6.9)
Bystander witnessed	1592 (33.0)	869 (54.6)	924 (58.0)	592 (37.2)	549 (34.5)
911 Responder witnessed	361 (7.5)	152 (42.1)	191 (52.9)	85 (23.5)	65 (18.0)
<b>Bystander CPR*</b>					
Bystander CPR	2265 (50.8)	913 (40.3)	956 (42.2)	532 (23.5)	485 (21.4)
No Bystander CPR	2196 (49.2)	666 (30.3)	729 (33.2)	300 (13.7)	261 (11.9)
Bystander CPR (excludes nursing home/healthcare facility events)	2203 (50.3)	889 (40.4)	927 (42.1)	518 (23.5)	476 (21.6)
No Bystander CPR (excludes nursing home/healthcare facility events)	2181 (49.7)	660 (30.3)	722 (33.1)	296 (13.6)	257 (11.8)
<b>Initial Arrest Rhythm</b>					
Shockable	863 (17.9)	554 (64.2)	592 (68.6)	487 (56.4)	463 (53.7)
Non-shockable	3956 (82.1)	1173 (29.7)	1280 (32.4)	426 (10.8)	344 (8.7)
<b>AED Use</b>					
Bystander AED use*	226 (5.1)	151 (66.8)	160 (70.8)	128 (56.6)	122 (54.0)
Bystander AED use* (excludes nursing home/healthcare facility events)	193 (4.4)	137 (71.0)	141 (73.1)	119 (61.7)	116 (60.1)
Trained provider (First Responder) AED use	1200 (24.9)	428 (35.7)	444 (37.0)	211 (17.6)	190 (15.8)
<b>Utstein</b>					
Witnessed and shockable	669 (13.9)	460 (68.8)	489 (73.1)	423 (63.2)	404 (60.4)
Bystander witnessed and shockable	607 (12.6)	428 (70.5)	449 (74.0)	396 (65.2)	380 (62.6)
<b>Hypothermia</b>					
Field hypothermia	193 (4.0)	119 (61.7)	114 (59.1)	52 (26.9)	44 (22.8)
In-hospital hypothermia/TTM (among admitted patients)	589 (31.4)	--	--	272 (46.2)	230 (39.0)

**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=32).

\*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

Date of Arrest: From 01/01/2013 Through 12/31/2022 | Non-Traumatic Etiology

	Age = >18 years N = 852542				
	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>	852542	253545 (29.7)	227030 (26.6)	84800 (9.9)	67583 (7.9)
<b>Location of Arrest</b>					
Home/Residence	606696 (71.2)	172351 (28.4)	152061 (25.1)	50635 (8.3)	39530 (6.5)
Nursing Home	93016 (10.9)	21669 (23.3)	15374 (16.5)	3821 (4.1)	1814 (2.0)
Public Setting	152820 (17.9)	59525 (39.0)	59594 (39.0)	30344 (19.9)	26239 (17.2)
<b>Arrest Witnessed Status</b>					
Unwitnessed	426027 (50.0)	84299 (19.8)	72525 (17.0)	18646 (4.4)	13530 (3.2)
Bystander witnessed	320589 (37.6)	126316 (39.4)	112568 (35.1)	47773 (14.9)	39162 (12.2)
911 Responder witnessed	105881 (12.4)	42914 (40.5)	41922 (39.6)	18374 (17.4)	14887 (14.1)
<b>Bystander CPR*</b>					
Bystander CPR	344580 (46.2)	105107 (30.5)	91864 (26.7)	38010 (11.0)	31239 (9.1)
No Bystander CPR	402003 (53.8)	105505 (26.2)	93222 (23.2)	28406 (7.1)	21450 (5.3)
Bystander CPR (excludes nursing home/healthcare facility events)	250765 (39.6)	80287 (32.0)	73008 (29.1)	31576 (12.6)	26928 (10.7)
No Bystander CPR (excludes nursing home/healthcare facility events)	382727 (60.4)	100671 (26.3)	89657 (23.4)	27499 (7.2)	20926 (5.5)
<b>Initial Arrest Rhythm</b>					
Shockable	156131 (18.3)	74138 (47.5)	72990 (46.7)	43626 (27.9)	38381 (24.6)
Non-shockable	696301 (81.7)	179335 (25.8)	153966 (22.1)	41108 (5.9)	29142 (4.2)
<b>AED Use</b>					
Bystander AED use*	50777 (6.8)	17080 (33.6)	14657 (28.9)	7697 (15.2)	6516 (12.8)
Bystander AED use* (excludes nursing home/healthcare facility events)	13107 (2.1)	6095 (46.5)	5952 (45.4)	4125 (31.5)	3853 (29.4)
Trained provider (First Responder) AED use	191542 (22.5)	55734 (29.1)	48152 (25.1)	18176 (9.5)	15039 (7.9)
<b>Utstein</b>					
Witnessed and shockable	111645 (13.1)	58480 (52.4)	57759 (51.7)	36714 (32.9)	32797 (29.4)
Bystander witnessed and shockable	92814 (10.9)	48009 (51.7)	47354 (51.0)	29349 (31.6)	25961 (28.0)
<b>Hypothermia</b>					
Field hypothermia	41788 (4.9)	25574 (61.2)	20856 (49.9)	7354 (17.6)	5440 (13.0)
In-hospital hypothermia/TTM (among admitted patients)	102300 (45.1)	--	--	33367 (32.6)	24704 (24.1)

**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=1687).

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

<sup>†</sup>CPC missing for 766 patients.