

# CARES Survival Report

## All Agencies/National Data

Date of Arrest: From 01/01/2021 Through 12/31/2021 | Non-Traumatic Etiology

	OVERALL N = 146619				
	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>	146619	39628 (27.0)	36258 (24.7)	13403 (9.1)	10532 (7.2)
<b>Location of Arrest</b>					
Home/Residence	108053 (73.7)	28052 (26.0)	25383 (23.5)	8458 (7.8)	6560 (6.1)
Nursing Home	14744 (10.1)	2999 (20.3)	2087 (14.2)	559 (3.8)	231 (1.6)
Public Setting	23820 (16.2)	8577 (36.0)	8788 (36.9)	4386 (18.4)	3741 (15.7)
<b>Arrest Witnessed Status</b>					
Unwitnessed	73914 (50.4)	13370 (18.1)	11758 (15.9)	3152 (4.3)	2287 (3.1)
Bystander witnessed	54944 (37.5)	19672 (35.8)	17887 (32.6)	7422 (13.5)	5963 (10.9)
911 Responder witnessed	17753 (12.1)	6586 (37.1)	6613 (37.3)	2829 (15.9)	2282 (12.9)
<b>Bystander CPR*</b>					
Bystander CPR	59620 (46.3)	16465 (27.6)	14693 (24.6)	6012 (10.1)	4824 (8.1)
No Bystander CPR	69234 (53.7)	16577 (23.9)	14951 (21.6)	4562 (6.6)	3426 (4.9)
Bystander CPR (excludes nursing home/healthcare facility events)	44595 (40.2)	12893 (28.9)	11976 (26.9)	4999 (11.2)	4193 (9.4)
No Bystander CPR (excludes nursing home/healthcare facility events)	66376 (59.8)	15938 (24.0)	14479 (21.8)	4439 (6.7)	3358 (5.1)
<b>Initial Arrest Rhythm</b>					
Shockable	24002 (16.4)	10624 (44.3)	10717 (44.7)	6252 (26.0)	5440 (22.7)
Non-shockable	122588 (83.6)	28989 (23.6)	25522 (20.8)	7132 (5.8)	5075 (4.1)
<b>AED Use</b>					
Bystander AED use*	8406 (6.5)	2574 (30.6)	2175 (25.9)	1140 (13.6)	930 (11.1)
Bystander AED use* (excludes nursing home/healthcare facility events)	1834 (1.7)	786 (42.9)	781 (42.6)	537 (29.3)	506 (27.6)
Trained provider (First Responder) AED use	32248 (22.0)	8633 (26.8)	7528 (23.3)	2748 (8.5)	2280 (7.1)
<b>Utstein</b>					
Witnessed and shockable	17154 (11.7)	8348 (48.7)	8472 (49.4)	5221 (30.4)	4611 (26.9)
Bystander witnessed and shockable	14200 (9.7)	6857 (48.3)	6901 (48.6)	4138 (29.1)	3617 (25.5)
<b>Hypothermia</b>					
Field hypothermia	4120 (2.8)	2092 (50.8)	1710 (41.5)	581 (14.1)	392 (9.5)
In-hospital hypothermia/TTM (among admitted patients)	15999 (44.1)	--	--	4914 (30.7)	3459 (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=305).

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

<sup>†</sup>CPC missing for 21 patients.

# CARES Survival Report

## All Agencies/National Data

Date of Arrest: From 01/01/2021 Through 12/31/2021 | Non-Traumatic Etiology

	Age = <1 years N = 1555				
	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>	1555	169 (10.9)	262 (16.8)	88 (5.7)	77 (5.0)
<b>Location of Arrest</b>					
Home/Residence	1451 (93.3)	147 (10.1)	232 (16.0)	77 (5.3)	68 (4.7)
Nursing Home	1 (0.1)	0 (0.0)	1 (100.0)	1 (100.0)	1 (100.0)
Public Setting	103 (6.6)	22 (21.4)	29 (28.2)	10 (9.7)	8 (7.8)
<b>Arrest Witnessed Status</b>					
Unwitnessed	1232 (79.2)	72 (5.8)	140 (11.4)	21 (1.7)	16 (1.3)
Bystander witnessed	269 (17.3)	82 (30.5)	104 (38.7)	56 (20.8)	50 (18.6)
911 Responder witnessed	54 (3.5)	15 (27.8)	18 (33.3)	11 (20.4)	11 (20.4)
<b>Bystander CPR*</b>					
Bystander CPR	689 (45.9)	85 (12.3)	130 (18.9)	42 (6.1)	36 (5.2)
No Bystander CPR	812 (54.1)	69 (8.5)	114 (14.0)	35 (4.3)	30 (3.7)
Bystander CPR (excludes nursing home/healthcare facility events)	678 (45.7)	80 (11.8)	125 (18.4)	38 (5.6)	34 (5.0)
No Bystander CPR (excludes nursing home/healthcare facility events)	805 (54.3)	67 (8.3)	111 (13.8)	33 (4.1)	28 (3.5)
<b>Initial Arrest Rhythm</b>					
Shockable	47 (3.0)	11 (23.4)	15 (31.9)	10 (21.3)	9 (19.1)
Non-shockable	1505 (97.0)	156 (10.4)	245 (16.3)	76 (5.0)	67 (4.5)
<b>AED Use</b>					
Bystander AED use*	6 (0.4)	3 (50.0)	3 (50.0)	2 (33.3)	1 (16.7)
Bystander AED use* (excludes nursing home/healthcare facility events)	0 (0.0)	0 (NaN)	0 (NaN)	0 (NaN)	0 (NaN)
Trained provider (First Responder) AED use	260 (16.7)	25 (9.6)	43 (16.5)	10 (3.8)	8 (3.1)
<b>Utstein</b>					
Witnessed and shockable	18 (1.2)	8 (44.4)	10 (55.6)	9 (50.0)	8 (44.4)
Bystander witnessed and shockable	17 (1.1)	7 (41.2)	9 (52.9)	8 (47.1)	7 (41.2)
<b>Hypothermia</b>					
Field hypothermia	19 (1.2)	4 (21.1)	5 (26.3)	0 (0.0)	0 (0.0)
In-hospital hypothermia/TTM (among admitted patients)	54 (20.6)	--	--	16 (29.6)	11 (20.4)

**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=21).

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

<sup>†</sup>CPC missing for 0 patients.

# CARES Survival Report

## All Agencies/National Data

Date of Arrest: From 01/01/2021 Through 12/31/2021 | Non-Traumatic Etiology

	Age = 1 - 12 years N = 1073				
	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>	1073	281 (26.2)	417 (38.9)	161 (15.0)	135 (12.6)
<b>Location of Arrest</b>					
Home/Residence	902 (84.1)	220 (24.4)	338 (37.5)	116 (12.9)	94 (10.4)
Nursing Home	7 (0.7)	2 (28.6)	2 (28.6)	1 (14.3)	1 (14.3)
Public Setting	164 (15.3)	59 (36.0)	77 (47.0)	44 (26.8)	40 (24.4)
<b>Arrest Witnessed Status</b>					
Unwitnessed	687 (64.0)	131 (19.1)	222 (32.3)	70 (10.2)	54 (7.9)
Bystander witnessed	328 (30.6)	130 (39.6)	166 (50.6)	79 (24.1)	70 (21.3)
911 Responder witnessed	58 (5.4)	20 (34.5)	29 (50.0)	12 (20.7)	11 (19.0)
<b>Bystander CPR*</b>					
Bystander CPR	532 (52.4)	157 (29.5)	214 (40.2)	94 (17.7)	77 (14.5)
No Bystander CPR	483 (47.6)	104 (21.5)	174 (36.0)	55 (11.4)	47 (9.7)
Bystander CPR (excludes nursing home/healthcare facility events)	513 (51.6)	153 (29.8)	208 (40.5)	92 (17.9)	75 (14.6)
No Bystander CPR (excludes nursing home/healthcare facility events)	481 (48.4)	103 (21.4)	173 (36.0)	55 (11.4)	47 (9.8)
<b>Initial Arrest Rhythm</b>					
Shockable	63 (5.9)	27 (42.9)	35 (55.6)	20 (31.7)	17 (27.0)
Non-shockable	1010 (94.1)	254 (25.1)	382 (37.8)	141 (14.0)	118 (11.7)
<b>AED Use</b>					
Bystander AED use*	22 (2.2)	7 (31.8)	9 (40.9)	6 (27.3)	6 (27.3)
Bystander AED use* (excludes nursing home/healthcare facility events)	14 (1.4)	6 (42.9)	7 (50.0)	6 (42.9)	6 (42.9)
Trained provider (First Responder) AED use	244 (22.7)	64 (26.2)	87 (35.7)	22 (9.0)	19 (7.8)
<b>Utstein</b>					
Witnessed and shockable	45 (4.2)	22 (48.9)	28 (62.2)	16 (35.6)	14 (31.1)
Bystander witnessed and shockable	38 (3.5)	20 (52.6)	23 (60.5)	15 (39.5)	13 (34.2)
<b>Hypothermia</b>					
Field hypothermia	20 (1.9)	11 (55.0)	15 (75.0)	3 (15.0)	2 (10.0)
In-hospital hypothermia/TTM (among admitted patients)	74 (17.7)	--	--	20 (27.0)	13 (17.6)

**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=6).

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

<sup>†</sup>CPC missing for 0 patients.

# CARES Survival Report

## All Agencies/National Data

Date of Arrest: From 01/01/2021 Through 12/31/2021 | Non-Traumatic Etiology

	Age = 13 - 18 years N = 849				
	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>	849	276 (32.5)	294 (34.6)	132 (15.5)	114 (13.4)
<b>Location of Arrest</b>					
Home/Residence	687 (80.9)	199 (29.0)	210 (30.6)	75 (10.9)	62 (9.0)
Nursing Home	5 (0.6)	2 (40.0)	2 (40.0)	1 (20.0)	0 (0.0)
Public Setting	157 (18.5)	75 (47.8)	82 (52.2)	56 (35.7)	52 (33.1)
<b>Arrest Witnessed Status</b>					
Unwitnessed	531 (62.5)	129 (24.3)	137 (25.8)	40 (7.5)	29 (5.5)
Bystander witnessed	270 (31.8)	133 (49.3)	142 (52.6)	87 (32.2)	81 (30.0)
911 Responder witnessed	48 (5.7)	14 (29.2)	15 (31.2)	5 (10.4)	4 (8.3)
<b>Bystander CPR*</b>					
Bystander CPR	404 (50.5)	149 (36.9)	158 (39.1)	78 (19.3)	71 (17.6)
No Bystander CPR	396 (49.5)	113 (28.5)	121 (30.6)	49 (12.4)	39 (9.8)
Bystander CPR (excludes nursing home/healthcare facility events)	395 (50.1)	145 (36.7)	153 (38.7)	77 (19.5)	71 (18.0)
No Bystander CPR (excludes nursing home/healthcare facility events)	394 (49.9)	113 (28.7)	120 (30.5)	49 (12.4)	39 (9.9)
<b>Initial Arrest Rhythm</b>					
Shockable	122 (14.4)	74 (60.7)	81 (66.4)	70 (57.4)	69 (56.6)
Non-shockable	727 (85.6)	202 (27.8)	213 (29.3)	62 (8.5)	45 (6.2)
<b>AED Use</b>					
Bystander AED use*	33 (4.1)	16 (48.5)	16 (48.5)	12 (36.4)	12 (36.4)
Bystander AED use* (excludes nursing home/healthcare facility events)	27 (3.4)	14 (51.9)	13 (48.1)	12 (44.4)	12 (44.4)
Trained provider (First Responder) AED use	214 (25.2)	73 (34.1)	73 (34.1)	33 (15.4)	32 (15.0)
<b>Utstein</b>					
Witnessed and shockable	91 (10.7)	56 (61.5)	64 (70.3)	59 (64.8)	58 (63.7)
Bystander witnessed and shockable	86 (10.1)	55 (64.0)	62 (72.1)	58 (67.4)	57 (66.3)
<b>Hypothermia</b>					
Field hypothermia	24 (2.8)	15 (62.5)	13 (54.2)	4 (16.7)	3 (12.5)
In-hospital hypothermia/TTM (among admitted patients)	86 (29.3)	--	--	40 (46.5)	30 (34.9)

**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=3).

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

<sup>†</sup>CPC missing for 0 patients.

# CARES Survival Report

## All Agencies/National Data

Date of Arrest: From 01/01/2021 Through 12/31/2021 | Non-Traumatic Etiology

	Age = >18 years N = 143018				
	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>	143018	38880 (27.2)	35247 (24.6)	12997 (9.1)	10182 (7.1)
<b>Location of Arrest</b>					
Home/Residence	104917 (73.4)	27467 (26.2)	24572 (23.4)	8168 (7.8)	6314 (6.0)
Nursing Home	14728 (10.3)	2995 (20.3)	2082 (14.1)	556 (3.8)	229 (1.6)
Public Setting	23371 (16.3)	8418 (36.0)	8593 (36.8)	4273 (18.3)	3639 (15.6)
<b>Arrest Witnessed Status</b>					
Unwitnessed	71427 (49.9)	13036 (18.3)	11254 (15.8)	3020 (4.2)	2187 (3.1)
Bystander witnessed	54015 (37.8)	19315 (35.8)	17455 (32.3)	7186 (13.3)	5749 (10.6)
911 Responder witnessed	17568 (12.3)	6529 (37.2)	6538 (37.2)	2791 (15.9)	2246 (12.8)
<b>Bystander CPR*</b>					
Bystander CPR	57960 (46.2)	16066 (27.7)	14183 (24.5)	5793 (10.0)	4635 (8.0)
No Bystander CPR	67479 (53.8)	16285 (24.1)	14525 (21.5)	4413 (6.5)	3301 (4.9)
Bystander CPR (excludes nursing home/healthcare facility events)	42980 (39.9)	12508 (29.1)	11482 (26.7)	4787 (11.1)	4008 (9.3)
No Bystander CPR (excludes nursing home/healthcare facility events)	64635 (60.1)	15649 (24.2)	14060 (21.8)	4294 (6.6)	3236 (5.0)
<b>Initial Arrest Rhythm</b>					
Shockable	23767 (16.6)	10512 (44.2)	10585 (44.5)	6151 (25.9)	5344 (22.5)
Non-shockable	119226 (83.4)	28355 (23.8)	24646 (20.7)	6830 (5.7)	4823 (4.0)
<b>AED Use</b>					
Bystander AED use*	8330 (6.6)	2548 (30.6)	2147 (25.8)	1120 (13.4)	911 (10.9)
Bystander AED use* (excludes nursing home/healthcare facility events)	1793 (1.7)	766 (42.7)	761 (42.4)	519 (28.9)	488 (27.2)
Trained provider (First Responder) AED use	31522 (22.0)	8470 (26.9)	7324 (23.2)	2682 (8.5)	2220 (7.0)
<b>Utstein</b>					
Witnessed and shockable	16997 (11.9)	8262 (48.6)	8369 (49.2)	5136 (30.2)	4530 (26.7)
Bystander witnessed and shockable	14057 (9.8)	6775 (48.2)	6806 (48.4)	4056 (28.9)	3539 (25.2)
<b>Hypothermia</b>					
Field hypothermia	4054 (2.8)	2060 (50.8)	1675 (41.3)	573 (14.1)	386 (9.5)
In-hospital hypothermia/TTM (among admitted patients)	15770 (44.7)	--	--	4827 (30.6)	3394 (21.5)

**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=267).

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

<sup>†</sup>CPC missing for 21 patients.