

# CARES Survival Report

## All Agencies/National Data

Date of Arrest: 01/01/22-12/31/22 | Non-Traumatic Etiology

	OVERALL N = 147405				
	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>	147405	39227 (26.6)	36742 (24.9)	13794 (9.4)	11110 (7.5)
<b>Location of Arrest</b>					
Home/Residence	106771 (72.4)	27262 (25.5)	25137 (23.5)	8456 (7.9)	6670 (6.2)
Nursing Home	15235 (10.3)	3057 (20.1)	2195 (14.4)	535 (3.5)	258 (1.7)
Public Setting	25399 (17.2)	8908 (35.1)	9410 (37.0)	4803 (18.9)	4182 (16.5)
<b>Arrest Witnessed Status</b>					
Unwitnessed	75648 (51.3)	13216 (17.5)	11985 (15.8)	3084 (4.1)	2259 (3.0)
Bystander witnessed	54743 (37.1)	19534 (35.7)	18130 (33.1)	7797 (14.2)	6480 (11.8)
911 Responder witnessed	17010 (11.5)	6476 (38.1)	6626 (39.0)	2913 (17.1)	2371 (13.9)
<b>Bystander CPR*</b>					
Bystander CPR	60127 (46.1)	16214 (27.0)	14748 (24.5)	6004 (10.0)	4968 (8.3)
No Bystander CPR	70261 (53.9)	16535 (23.5)	15366 (21.9)	4876 (6.9)	3770 (5.4)
Bystander CPR (excludes nursing home/healthcare facility events)	44954 (40.0)	12753 (28.4)	12074 (26.9)	5074 (11.3)	4320 (9.6)
No Bystander CPR (excludes nursing home/healthcare facility events)	67391 (60.0)	15933 (23.6)	14883 (22.1)	4745 (7.0)	3695 (5.5)
<b>Initial Arrest Rhythm</b>					
Shockable	24997 (17.0)	11147 (44.6)	11214 (44.9)	6696 (26.8)	5899 (23.6)
Non-shockable	122375 (83.0)	28059 (22.9)	25506 (20.8)	7078 (5.8)	5193 (4.2)
<b>AED Use</b>					
Bystander AED use*	8977 (6.9)	2660 (29.6)	2308 (25.7)	1228 (13.7)	1061 (11.8)
Bystander AED use* (excludes nursing home/healthcare facility events)	2257 (2.0)	959 (42.5)	963 (42.7)	678 (30.0)	638 (28.3)
Trained provider (First Responder) AED use	34275 (23.3)	9104 (26.6)	8162 (23.8)	3066 (8.9)	2549 (7.4)
<b>Utstein</b>					
Witnessed and shockable	17896 (12.1)	8859 (49.5)	8934 (49.9)	5696 (31.8)	5106 (28.5)
Bystander witnessed and shockable	15034 (10.2)	7343 (48.8)	7402 (49.2)	4632 (30.8)	4116 (27.4)
<b>Hypothermia</b>					
Field hypothermia	3693 (2.5)	2078 (56.3)	1819 (49.3)	645 (17.5)	466 (12.6)
In-hospital hypothermia/TTM (among admitted patients)	15198 (41.4)	--	--	4857 (32.0)	3552 (23.4)

**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=331).

\*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: 01/01/22-12/31/22 | Non-Traumatic Etiology

	Age = <1 years N = 1687				
	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>	1687	191 (11.3)	316 (18.7)	112 (6.6)	93 (5.5)
<b>Location of Arrest</b>					
Home/Residence	1550 (91.9)	165 (10.6)	283 (18.3)	94 (6.1)	77 (5.0)
Nursing Home	0 (0.0)	0 (NaN)	0 (NaN)	0 (NaN)	0 (NaN)
Public Setting	137 (8.1)	26 (19.0)	33 (24.1)	18 (13.1)	16 (11.7)
<b>Arrest Witnessed Status</b>					
Unwitnessed	1373 (81.4)	104 (7.6)	201 (14.6)	43 (3.1)	33 (2.4)
Bystander witnessed	272 (16.1)	68 (25.0)	95 (34.9)	57 (21.0)	50 (18.4)
911 Responder witnessed	42 (2.5)	19 (45.2)	20 (47.6)	12 (28.6)	10 (23.8)
<b>Bystander CPR*</b>					
Bystander CPR	757 (46.0)	89 (11.8)	155 (20.5)	51 (6.7)	44 (5.8)
No Bystander CPR	888 (54.0)	83 (9.3)	141 (15.9)	49 (5.5)	39 (4.4)
Bystander CPR (excludes nursing home/healthcare facility events)	736 (45.5)	81 (11.0)	145 (19.7)	45 (6.1)	38 (5.2)
No Bystander CPR (excludes nursing home/healthcare facility events)	883 (54.5)	80 (9.1)	138 (15.6)	48 (5.4)	38 (4.3)
<b>Initial Arrest Rhythm</b>					
Shockable	43 (2.6)	6 (14.0)	10 (23.3)	6 (14.0)	6 (14.0)
Non-shockable	1643 (97.4)	185 (11.3)	305 (18.6)	106 (6.5)	87 (5.3)
<b>AED Use</b>					
Bystander AED use*	12 (0.7)	4 (33.3)	5 (41.7)	3 (25.0)	3 (25.0)
Bystander AED use* (excludes nursing home/healthcare facility events)	2 (0.1)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Trained provider (First Responder) AED use	289 (17.1)	33 (11.4)	46 (15.9)	13 (4.5)	10 (3.5)
<b>Utstein</b>					
Witnessed and shockable	14 (0.8)	2 (14.3)	4 (28.6)	3 (21.4)	3 (21.4)
Bystander witnessed and shockable	13 (0.8)	2 (15.4)	4 (30.8)	3 (23.1)	3 (23.1)
<b>Hypothermia</b>					
Field hypothermia	13 (0.8)	2 (15.4)	5 (38.5)	2 (15.4)	2 (15.4)
In-hospital hypothermia/TTM (among admitted patients)	65 (20.6)	--	--	15 (23.1)	12 (18.5)

**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=13).

\*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: 01/01/22-12/31/22 | Non-Traumatic Etiology

	Age = 1 - 12 years N = 1207				
	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>	1207	297 (24.6)	397 (32.9)	177 (14.7)	135 (11.2)
<b>Location of Arrest</b>					
Home/Residence	1009 (83.6)	223 (22.1)	298 (29.5)	113 (11.2)	84 (8.3)
Nursing Home	6 (0.5)	4 (66.7)	4 (66.7)	4 (66.7)	1 (16.7)
Public Setting	192 (15.9)	70 (36.5)	95 (49.5)	60 (31.2)	50 (26.0)
<b>Arrest Witnessed Status</b>					
Unwitnessed	764 (63.3)	136 (17.8)	200 (26.2)	64 (8.4)	51 (6.7)
Bystander witnessed	365 (30.2)	139 (38.1)	163 (44.7)	98 (26.8)	75 (20.5)
911 Responder witnessed	78 (6.5)	22 (28.2)	34 (43.6)	15 (19.2)	9 (11.5)
<b>Bystander CPR*</b>					
Bystander CPR	560 (49.6)	159 (28.4)	212 (37.9)	104 (18.6)	83 (14.8)
No Bystander CPR	569 (50.4)	116 (20.4)	151 (26.5)	58 (10.2)	43 (7.6)
Bystander CPR (excludes nursing home/healthcare facility events)	533 (48.4)	147 (27.6)	199 (37.3)	93 (17.4)	78 (14.6)
No Bystander CPR (excludes nursing home/healthcare facility events)	568 (51.6)	116 (20.4)	151 (26.6)	58 (10.2)	43 (7.6)
<b>Initial Arrest Rhythm</b>					
Shockable	80 (6.6)	38 (47.5)	42 (52.5)	32 (40.0)	29 (36.2)
Non-shockable	1126 (93.4)	258 (22.9)	354 (31.4)	144 (12.8)	105 (9.3)
<b>AED Use</b>					
Bystander AED use*	33 (2.9)	17 (51.5)	20 (60.6)	18 (54.5)	12 (36.4)
Bystander AED use* (excludes nursing home/healthcare facility events)	21 (1.9)	13 (61.9)	15 (71.4)	13 (61.9)	11 (52.4)
Trained provider (First Responder) AED use	294 (24.4)	63 (21.4)	79 (26.9)	27 (9.2)	17 (5.8)
<b>Utstein</b>					
Witnessed and shockable	55 (4.6)	30 (54.5)	31 (56.4)	26 (47.3)	23 (41.8)
Bystander witnessed and shockable	45 (3.7)	27 (60.0)	30 (66.7)	26 (57.8)	23 (51.1)
<b>Hypothermia</b>					
Field hypothermia	22 (1.8)	5 (22.7)	7 (31.8)	3 (13.6)	2 (9.1)
In-hospital hypothermia/TTM (among admitted patients)	72 (18.1)	--	--	23 (31.9)	15 (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=14).

\*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: 01/01/22-12/31/22 | Non-Traumatic Etiology

	Age = 13 - 18 years N = 898				
	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>	898	282 (31.4)	316 (35.2)	155 (17.3)	146 (16.3)
<b>Location of Arrest</b>					
Home/Residence	685 (76.3)	184 (26.9)	202 (29.5)	85 (12.4)	79 (11.5)
Nursing Home	5 (0.6)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Public Setting	208 (23.2)	98 (47.1)	114 (54.8)	70 (33.7)	67 (32.2)
<b>Arrest Witnessed Status</b>					
Unwitnessed	580 (64.6)	120 (20.7)	130 (22.4)	43 (7.4)	42 (7.2)
Bystander witnessed	254 (28.3)	131 (51.6)	147 (57.9)	97 (38.2)	92 (36.2)
911 Responder witnessed	64 (7.1)	31 (48.4)	39 (60.9)	15 (23.4)	12 (18.8)
<b>Bystander CPR*</b>					
Bystander CPR	440 (52.8)	148 (33.6)	154 (35.0)	89 (20.2)	84 (19.1)
No Bystander CPR	394 (47.2)	103 (26.1)	123 (31.2)	51 (12.9)	50 (12.7)
Bystander CPR (excludes nursing home/healthcare facility events)	426 (52.0)	144 (33.8)	150 (35.2)	86 (20.2)	82 (19.2)
No Bystander CPR (excludes nursing home/healthcare facility events)	394 (48.0)	103 (26.1)	123 (31.2)	51 (12.9)	50 (12.7)
<b>Initial Arrest Rhythm</b>					
Shockable	121 (13.5)	81 (66.9)	84 (69.4)	74 (61.2)	71 (58.7)
Non-shockable	775 (86.5)	199 (25.7)	230 (29.7)	79 (10.2)	73 (9.4)
<b>AED Use</b>					
Bystander AED use*	49 (5.9)	29 (59.2)	31 (63.3)	28 (57.1)	26 (53.1)
Bystander AED use* (excludes nursing home/healthcare facility events)	39 (4.8)	26 (66.7)	28 (71.8)	26 (66.7)	25 (64.1)
Trained provider (First Responder) AED use	222 (24.7)	58 (26.1)	65 (29.3)	29 (13.1)	29 (13.1)
<b>Utstein</b>					
Witnessed and shockable	91 (10.1)	65 (71.4)	65 (71.4)	61 (67.0)	58 (63.7)
Bystander witnessed and shockable	81 (9.0)	58 (71.6)	59 (72.8)	56 (69.1)	54 (66.7)
<b>Hypothermia</b>					
Field hypothermia	20 (2.2)	10 (50.0)	11 (55.0)	8 (40.0)	6 (30.0)
In-hospital hypothermia/TTM (among admitted patients)	86 (27.2)	--	--	33 (38.4)	28 (32.6)

**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=10).

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

<sup>†</sup>CPC missing for 1 patients.

# CARES Survival Report

## All Agencies/National Data

Date of Arrest: 01/01/22-12/31/22 | Non-Traumatic Etiology

	Age = >18 years N = 143507				
	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>	143507	38421 (26.8)	35668 (24.9)	13319 (9.3)	10707 (7.5)
<b>Location of Arrest</b>					
Home/Residence	103447 (72.1)	26664 (25.8)	24320 (23.5)	8141 (7.9)	6409 (6.2)
Nursing Home	15224 (10.6)	3053 (20.1)	2191 (14.4)	531 (3.5)	257 (1.7)
Public Setting	24836 (17.3)	8704 (35.0)	9157 (36.9)	4647 (18.7)	4041 (16.3)
<b>Arrest Witnessed Status</b>					
Unwitnessed	72899 (50.8)	12848 (17.6)	11446 (15.7)	2931 (4.0)	2130 (2.9)
Bystander witnessed	53794 (37.5)	19175 (35.6)	17696 (32.9)	7522 (14.0)	6242 (11.6)
911 Responder witnessed	16810 (11.7)	6397 (38.1)	6525 (38.8)	2866 (17.0)	2335 (13.9)
<b>Bystander CPR*</b>					
Bystander CPR	58339 (46.0)	15806 (27.1)	14214 (24.4)	5750 (9.9)	4749 (8.1)
No Bystander CPR	68351 (54.0)	16216 (23.7)	14927 (21.8)	4702 (6.9)	3622 (5.3)
Bystander CPR (excludes nursing home/healthcare facility events)	43228 (39.8)	12369 (28.6)	11567 (26.8)	4840 (11.2)	4114 (9.5)
No Bystander CPR (excludes nursing home/healthcare facility events)	65489 (60.2)	15618 (23.8)	14449 (22.1)	4574 (7.0)	3550 (5.4)
<b>Initial Arrest Rhythm</b>					
Shockable	24750 (17.3)	11021 (44.5)	11077 (44.8)	6583 (26.6)	5792 (23.4)
Non-shockable	118728 (82.7)	27382 (23.1)	24573 (20.7)	6719 (5.7)	4900 (4.1)
<b>AED Use</b>					
Bystander AED use*	8869 (7.0)	2609 (29.4)	2251 (25.4)	1178 (13.3)	1019 (11.5)
Bystander AED use* (excludes nursing home/healthcare facility events)	2194 (2.0)	919 (41.9)	919 (41.9)	638 (29.1)	601 (27.4)
Trained provider (First Responder) AED use	33466 (23.3)	8948 (26.7)	7970 (23.8)	2996 (9.0)	2492 (7.4)
<b>Utstein</b>					
Witnessed and shockable	17735 (12.4)	8761 (49.4)	8833 (49.8)	5605 (31.6)	5021 (28.3)
Bystander witnessed and shockable	14894 (10.4)	7255 (48.7)	7308 (49.1)	4546 (30.5)	4035 (27.1)
<b>Hypothermia</b>					
Field hypothermia	3636 (2.5)	2060 (56.7)	1794 (49.3)	631 (17.4)	455 (12.5)
In-hospital hypothermia/TTM (among admitted patients)	14952 (41.9)	--	--	4770 (31.9)	3483 (23.3)

**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=291).

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

<sup>†</sup>CPC missing for 14 patients.