

CARES Survival Report

All Agencies/National Data

Service Date: From 01/01/2013 Through 12/31/2017 | Non-Traumatic Etiology

	OVERALL N = 273285				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	273285	87825 (32.1)	77765 (28.5)	29047 (10.6)	23266 (8.5)
Location of Arrest					
Home/Residence	190139 (69.6)	57928 (30.5)	50748 (26.7)	16798 (8.8)	13095 (6.9)
Nursing Home	29753 (10.9)	7953 (26.7)	5545 (18.6)	1293 (4.3)	650 (2.2)
Public Setting	53387 (19.5)	21944 (41.1)	21471 (40.2)	10956 (20.5)	9521 (17.8)
Arrest Witnessed Status					
Unwitnessed	138600 (50.7)	29892 (21.6)	25541 (18.4)	6427 (4.6)	4626 (3.3)
Bystander witnessed	101183 (37.0)	43459 (43.0)	38469 (38.0)	16501 (16.3)	13652 (13.5)
911 Responder witnessed	33488 (12.3)	14466 (43.2)	13746 (41.0)	6114 (18.3)	4986 (14.9)
Bystander CPR*					
Bystander CPR	109199 (45.5)	36827 (33.7)	31900 (29.2)	13318 (12.2)	11001 (10.1)
No Bystander CPR	130565 (54.5)	36527 (28.0)	32111 (24.6)	9613 (7.4)	7278 (5.6)
Bystander CPR (excludes nursing home/healthcare facility events)	78544 (38.9)	27677 (35.2)	25030 (31.9)	11115 (14.2)	9503 (12.1)
No Bystander CPR (excludes nursing home/healthcare facility events)	123517 (61.1)	34588 (28.0)	30717 (24.9)	9277 (7.5)	7081 (5.7)
Initial Arrest Rhythm					
Shockable	53334 (19.5)	26690 (50.0)	25953 (48.7)	15651 (29.3)	13797 (25.9)
Non-shockable	219931 (80.5)	61120 (27.8)	51799 (23.6)	13385 (6.1)	9459 (4.3)
AED Use					
Bystander AED use*	14948 (6.2)	5811 (38.9)	5053 (33.8)	2712 (18.1)	2328 (15.6)
Bystander AED use* (excludes nursing home/healthcare facility events)	4902 (2.4)	2442 (49.8)	2346 (47.9)	1622 (33.1)	1505 (30.7)
Trained provider (First Responder) AED use	62712 (22.9)	19623 (31.3)	16924 (27.0)	6360 (10.1)	5265 (8.4)
Utstein					
Witnessed and shockable	38097 (13.9)	20921 (54.9)	20449 (53.7)	13117 (34.4)	11752 (30.8)
Bystander witnessed and shockable	31702 (11.6)	17236 (54.4)	16841 (53.1)	10519 (33.2)	9346 (29.5)
Hypothermia					
Field hypothermia	23992 (8.8)	15717 (65.5)	12655 (52.7)	4459 (18.6)	3340 (13.9)
In-hospital hypothermia (among admitted patients)	34930 (44.9)	--	--	11929 (34.2)	9123 (26.1)

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=936).

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

[†]CPC missing for 567 patients.

CARES Survival Report

All Agencies/National Data

Service Date: From 01/01/2013 Through 12/31/2017 | Non-Traumatic Etiology

	Age = ≤1 years N = 4453				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	4453	552 (12.4)	801 (18.0)	260 (5.8)	204 (4.6)
Location of Arrest					
Home/Residence	4028 (90.5)	472 (11.7)	699 (17.4)	225 (5.6)	176 (4.4)
Nursing Home	15 (0.3)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Public Setting	409 (9.2)	80 (19.6)	102 (24.9)	35 (8.6)	28 (6.8)
Arrest Witnessed Status					
Unwitnessed	3601 (80.9)	285 (7.9)	473 (13.1)	104 (2.9)	73 (2.0)
Bystander witnessed	716 (16.1)	215 (30.0)	269 (37.6)	125 (17.5)	106 (14.8)
911 Responder witnessed	136 (3.1)	52 (38.2)	59 (43.4)	31 (22.8)	25 (18.4)
Bystander CPR*					
Bystander CPR	2025 (46.9)	278 (13.7)	400 (19.8)	141 (7.0)	110 (5.4)
No Bystander CPR	2291 (53.1)	222 (9.7)	342 (14.9)	88 (3.8)	69 (3.0)
Bystander CPR (excludes nursing home/healthcare facility events)	1974 (46.5)	260 (13.2)	384 (19.5)	135 (6.8)	107 (5.4)
No Bystander CPR (excludes nursing home/healthcare facility events)	2268 (53.5)	218 (9.6)	336 (14.8)	86 (3.8)	68 (3.0)
Initial Arrest Rhythm					
Shockable	131 (2.9)	33 (25.2)	39 (29.8)	26 (19.8)	23 (17.6)
Non-shockable	4321 (97.1)	518 (12.0)	761 (17.6)	233 (5.4)	180 (4.2)
AED Use					
Bystander AED use*	20 (0.5)	7 (35.0)	7 (35.0)	3 (15.0)	1 (5.0)
Bystander AED use* (excludes nursing home/healthcare facility events)	12 (0.3)	4 (33.3)	4 (33.3)	1 (8.3)	1 (8.3)
Trained provider (First Responder) AED use	578 (13.0)	73 (12.6)	98 (17.0)	26 (4.5)	21 (3.6)
Utstein					
Witnessed and shockable	65 (1.5)	25 (38.5)	29 (44.6)	21 (32.3)	19 (29.2)
Bystander witnessed and shockable	54 (1.2)	20 (37.0)	23 (42.6)	16 (29.6)	14 (25.9)
Hypothermia					
Field hypothermia	73 (1.6)	22 (30.1)	20 (27.4)	5 (6.8)	4 (5.5)
In-hospital hypothermia (among admitted patients)	125 (15.6)	--	--	32 (25.6)	22 (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=36).

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

[†]CPC missing for 3 patients.

CARES Survival Report

All Agencies/National Data

Service Date: From 01/01/2013 Through 12/31/2017 | Non-Traumatic Etiology

	Age = >1 - 12 years N = 1786				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	1786	485 (27.2)	635 (35.6)	293 (16.4)	224 (12.5)
Location of Arrest					
Home/Residence	1403 (78.6)	327 (23.3)	445 (31.7)	173 (12.3)	117 (8.3)
Nursing Home	5 (0.3)	1 (20.0)	1 (20.0)	0 (0.0)	0 (0.0)
Public Setting	378 (21.2)	157 (41.5)	189 (50.0)	120 (31.7)	107 (28.3)
Arrest Witnessed Status					
Unwitnessed	1078 (60.4)	197 (18.3)	279 (25.9)	97 (9.0)	71 (6.6)
Bystander witnessed	567 (31.7)	241 (42.5)	290 (51.1)	162 (28.6)	127 (22.4)
911 Responder witnessed	141 (7.9)	47 (33.3)	66 (46.8)	34 (24.1)	26 (18.4)
Bystander CPR*					
Bystander CPR	853 (51.9)	268 (31.4)	352 (41.3)	189 (22.2)	148 (17.4)
No Bystander CPR	792 (48.1)	143 (18.1)	217 (27.4)	70 (8.8)	50 (6.3)
Bystander CPR (excludes nursing home/healthcare facility events)	818 (51.1)	283 (34.6)	337 (41.2)	180 (22.0)	144 (17.6)
No Bystander CPR (excludes nursing home/healthcare facility events)	784 (48.9)	141 (18.0)	213 (27.2)	69 (8.8)	49 (6.2)
Initial Arrest Rhythm					
Shockable	136 (7.6)	66 (48.5)	77 (56.6)	61 (44.9)	56 (41.2)
Non-shockable	1650 (92.4)	419 (25.4)	558 (33.8)	232 (14.1)	168 (10.2)
AED Use					
Bystander AED use*	53 (3.2)	25 (47.2)	30 (56.6)	22 (41.5)	20 (37.7)
Bystander AED use* (excludes nursing home/healthcare facility events)	42 (2.6)	27 (64.3)	26 (61.9)	20 (47.6)	19 (45.2)
Trained provider (First Responder) AED use	354 (19.8)	99 (28.0)	121 (34.2)	42 (11.9)	33 (9.3)
Utstein					
Witnessed and shockable	92 (5.2)	52 (56.5)	59 (64.1)	50 (54.3)	46 (50.0)
Bystander witnessed and shockable	78 (4.4)	48 (61.5)	54 (69.2)	47 (60.3)	43 (55.1)
Hypothermia					
Field hypothermia	55 (3.1)	32 (58.2)	31 (56.4)	10 (18.2)	6 (10.9)
In-hospital hypothermia (among admitted patients)	126 (19.8)	--	--	51 (40.5)	36 (28.6)

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=24).

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

[†]CPC missing for 10 patients.

CARES Survival Report

All Agencies/National Data

Service Date: From 01/01/2013 Through 12/31/2017 | Non-Traumatic Etiology

	Age = 13 - 18 years N = 1352				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	1352	549 (40.6)	585 (43.3)	291 (21.5)	248 (18.3)
Location of Arrest					
Home/Residence	962 (71.2)	337 (35.0)	351 (36.5)	135 (14.0)	105 (10.9)
Nursing Home	3 (0.2)	3 (100.0)	3 (100.0)	1 (33.3)	0 (0.0)
Public Setting	387 (28.6)	209 (54.0)	231 (59.7)	155 (40.1)	143 (37.0)
Arrest Witnessed Status					
Unwitnessed	756 (55.9)	205 (27.1)	224 (29.6)	68 (9.0)	52 (6.9)
Bystander witnessed	485 (35.9)	292 (60.2)	294 (60.6)	190 (39.2)	172 (35.5)
911 Responder witnessed	111 (8.2)	52 (46.8)	67 (60.4)	33 (29.7)	24 (21.6)
Bystander CPR*					
Bystander CPR	640 (51.6)	293 (45.8)	307 (48.0)	171 (26.7)	149 (23.3)
No Bystander CPR	601 (48.4)	204 (33.9)	211 (35.1)	87 (14.5)	75 (12.5)
Bystander CPR (excludes nursing home/healthcare facility events)	626 (51.2)	287 (45.8)	298 (47.6)	167 (26.7)	147 (23.5)
No Bystander CPR (excludes nursing home/healthcare facility events)	597 (48.8)	202 (33.8)	209 (35.0)	86 (14.4)	74 (12.4)
Initial Arrest Rhythm					
Shockable	308 (22.8)	192 (62.3)	207 (67.2)	164 (53.2)	155 (50.3)
Non-shockable	1043 (77.2)	356 (34.1)	377 (36.1)	126 (12.1)	92 (8.8)
AED Use					
Bystander AED use*	75 (6.0)	55 (73.3)	63 (84.0)	47 (62.7)	42 (56.0)
Bystander AED use* (excludes nursing home/healthcare facility events)	66 (5.4)	51 (77.3)	55 (83.3)	43 (65.2)	40 (60.6)
Trained provider (First Responder) AED use	345 (25.5)	137 (39.7)	136 (39.4)	67 (19.4)	58 (16.8)
Utstein					
Witnessed and shockable	235 (17.4)	164 (69.8)	172 (73.2)	145 (61.7)	140 (59.6)
Bystander witnessed and shockable	213 (15.8)	152 (71.4)	158 (74.2)	134 (62.9)	129 (60.6)
Hypothermia					
Field hypothermia	111 (8.2)	70 (63.1)	65 (58.6)	30 (27.0)	26 (23.4)
In-hospital hypothermia (among admitted patients)	211 (36.1)	--	--	106 (50.2)	90 (42.7)

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.

[†]CPC missing for 6 patients.

CARES Survival Report

All Agencies/National Data

Service Date: From 01/01/2013 Through 12/31/2017 | Non-Traumatic Etiology

	Age = >18 years N = 265376				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	265376	86147 (32.5)	75649 (28.5)	28147 (10.6)	22539 (8.5)
Location of Arrest					
Home/Residence	183522 (69.2)	56729 (30.9)	49187 (26.8)	16229 (8.8)	12666 (6.9)
Nursing Home	29719 (11.2)	7947 (26.7)	5541 (18.6)	1292 (4.3)	650 (2.2)
Public Setting	52130 (19.6)	21471 (41.2)	20920 (40.1)	10626 (20.4)	9223 (17.7)
Arrest Witnessed Status					
Unwitnessed	133038 (50.1)	29184 (21.9)	24542 (18.4)	6147 (4.6)	4420 (3.3)
Bystander witnessed	99282 (37.4)	42662 (43.0)	37565 (37.8)	15993 (16.1)	13220 (13.3)
911 Responder witnessed	33042 (12.5)	14293 (43.3)	13533 (41.0)	6002 (18.2)	4897 (14.8)
Bystander CPR*					
Bystander CPR	105586 (45.5)	35928 (34.0)	30806 (29.2)	12796 (12.1)	10576 (10.0)
No Bystander CPR	126716 (54.5)	35921 (28.3)	31302 (24.7)	9347 (7.4)	7065 (5.6)
Bystander CPR (excludes nursing home/healthcare facility events)	75055 (38.5)	26821 (35.7)	23983 (32.0)	10616 (14.1)	9091 (12.1)
No Bystander CPR (excludes nursing home/healthcare facility events)	119707 (61.5)	33990 (28.4)	29920 (25.0)	9015 (7.5)	6871 (5.7)
Initial Arrest Rhythm					
Shockable	52733 (19.9)	26387 (50.0)	25617 (48.6)	15389 (29.2)	13552 (25.7)
Non-shockable	212626 (80.1)	59747 (28.1)	50021 (23.5)	12749 (6.0)	8979 (4.2)
AED Use					
Bystander AED use*	14791 (6.4)	5719 (38.7)	4952 (33.5)	2639 (17.8)	2264 (15.3)
Bystander AED use* (excludes nursing home/healthcare facility events)	4779 (2.5)	2360 (49.4)	2260 (47.3)	1557 (32.6)	1444 (30.2)
Trained provider (First Responder) AED use	61404 (23.1)	19305 (31.4)	16559 (27.0)	6221 (10.1)	5149 (8.4)
Utstein					
Witnessed and shockable	37684 (14.2)	20669 (54.8)	20177 (53.5)	12891 (34.2)	11537 (30.6)
Bystander witnessed and shockable	31338 (11.8)	17005 (54.3)	16594 (53.0)	10312 (32.9)	9150 (29.2)
Hypothermia					
Field hypothermia	23738 (8.9)	15583 (65.6)	12528 (52.8)	4407 (18.6)	3297 (13.9)
In-hospital hypothermia (among admitted patients)	34432 (45.5)	--	--	11717 (34.0)	8955 (26.0)

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=851).

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

[†]CPC missing for 546 patients.