

Supplementary Online Content

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This supplementary material has been provided by the authors to give readers additional information about their work.

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eTable 1: Demographic variables between eligible cases with 12-month VABS-II interview and onsite testing data and those whose families declined either or both evaluations - < 6 years

	Overall (N = 146)	Testing Completed		P-value
		No (N = 27)	Yes (N = 119)	
Study				0.374 ²
IH	96 (66%)	20 (74%)	76 (64%)	
OH	50 (34%)	7 (26%)	43 (36%)	
Age at Randomization (years): Median [Q1, Q3]	0.5 [0.2, 1.7]	0.6 [0.2, 1.7]	0.5 [0.2, 1.8]	0.623 ¹
Male	88 (60%)	18 (67%)	70 (59%)	0.518 ²
Race				0.660 ²
White	87 (60%)	15 (56%)	72 (61%)	
Black or African American	35 (24%)	6 (22%)	29 (24%)	
Other/Unknown	24 (16%)	6 (22%)	18 (15%)	
Ethnicity				0.922 ²
Hispanic or Latino	33 (23%)	7 (26%)	26 (22%)	
Not Hispanic or Latino	106 (73%)	19 (70%)	87 (73%)	
Stated as Unknown	7 (5%)	1 (4%)	6 (5%)	
Caregivers highest education received				0.308 ²
Some high school or less	21 (14%)	5 (19%)	16 (13%)	
High school graduate or GED	48 (33%)	8 (30%)	40 (34%)	
Vocational school or some college	40 (27%)	10 (37%)	30 (25%)	
College degree	24 (16%)	4 (15%)	20 (17%)	
Graduate or doctoral degree	13 (9%)	0 (0%)	13 (11%)	
Average FAD score: Mean (SD)	1.5 (0.40)	1.5 (0.35)	1.5 (0.41)	0.968 ³
Pre-cardiac arrest PCPC				0.804 ¹
Normal = 1	106 (73%)	20 (74%)	86 (72%)	
Mild disability = 2	26 (18%)	5 (19%)	21 (18%)	
Moderate disability = 3	13 (9%)	2 (7%)	11 (9%)	
Severe disability = 4	1 (1%)	0 (0%)	1 (1%)	
Pre-cardiac arrest POPC				0.241 ¹
Good = 1	79 (54%)	12 (44%)	67 (56%)	
Mild disability = 2	44 (30%)	9 (33%)	35 (29%)	
Moderate disability = 3	20 (14%)	6 (22%)	14 (12%)	
Severe disability = 4	3 (2%)	0 (0%)	3 (3%)	
Primary etiology of cardiac arrest				0.464 ²
Cardiac	56 (38%)	11 (41%)	45 (38%)	
Respiratory	67 (46%)	10 (37%)	57 (48%)	
Other/Unknown	23 (16%)	6 (22%)	17 (14%)	
Total number of doses of epinephrine administered by EMS and at hospital: Median [Q1, Q3]	3.0 [2.0, 5.0]	3.0 [1.0, 5.0]	3.0 [2.0, 5.0]	0.990 ¹
Estimated duration of chest compressions				0.155 ²
Unable to determine	2 (1%)	1 (4%)	1 (1%)	
Less than or equal to 15 minutes	59 (40%)	14 (52%)	45 (38%)	
More than 15 to less than or equal to 30 minutes	36 (25%)	3 (11%)	33 (28%)	
More than 30 minutes	49 (34%)	9 (33%)	40 (34%)	
Treatment Assigned				0.134 ²

eTable 1: Demographic variables between eligible cases with 12-month VABS-II interview and onsite testing data and those whose families declined either or both evaluations - < 6 years

	Overall (N = 146)	Testing Completed		P-value
		No (N = 27)	Yes (N = 119)	
Hypothermia	80 (55%)	11 (41%)	69 (58%)	
Normothermia	66 (45%)	16 (59%)	50 (42%)	
Post-cardiac arrest length of stay (days): Median [Q1, Q3]	33.0 [20.0, 58.0]	33.0 [23.0, 49.0]	32.0 [19.0, 64.0]	0.849 ¹
PCPC at hospital discharge				0.091 ²
Normal = 1	41 (28%)	3 (11%)	38 (32%)	
Mild disability = 2	42 (29%)	13 (48%)	29 (24%)	
Moderate disability = 3	26 (18%)	5 (19%)	21 (18%)	
Severe disability = 4	24 (16%)	4 (15%)	20 (17%)	
Coma or vegetative state = 5	12 (8%)	2 (7%)	10 (8%)	
Missing	1 (1%)	0 (0%)	1 (1%)	
Pre-cardiac arrest VABS-II Adaptive Behavior Composite Score: Mean (SD)	95.0 (13.72)	94.1 (11.54)	95.2 (14.21)	0.671 ³
Month 12 VABS-II Adaptive Behavior Composite Score: Mean (SD)	79.5 (20.86)	82.1 (20.54)	79.0 (20.97)	0.560 ³

¹ P-value is based on the Wilcoxon rank-sum test.

² Fisher's exact test.

³ Two-sided t-test with unpooled variance.

eTable 2: Demographic variables between eligible cases with 12-month VABS-II interview and onsite testing data and those whose families declined either or both evaluations - ≥ 6 years

	Overall (N = 49)	Testing Completed		P-value
		No (N = 8)	Yes (N = 41)	
Study				0.128 ²
IH	30 (61%)	7 (88%)	23 (56%)	
OH	19 (39%)	1 (13%)	18 (44%)	
Age at Randomization (years): Median [Q1, Q3]	13.8 [9.2, 16.2]	15.5 [9.5, 17.3]	13.3 [9.2, 15.3]	0.298 ¹
Male	31 (63%)	5 (63%)	26 (63%)	1.000 ²
Race				0.561 ²
White	27 (55%)	3 (38%)	24 (59%)	
Black or African American	16 (33%)	4 (50%)	12 (29%)	
Other/Unknown	6 (12%)	1 (13%)	5 (12%)	
Ethnicity				1.000 ²
Hispanic or Latino	9 (18%)	1 (13%)	8 (20%)	
Not Hispanic or Latino	39 (80%)	7 (88%)	32 (78%)	
Stated as Unknown	1 (2%)	0 (0%)	1 (2%)	
Caregivers highest education received				0.475 ²
Some high school or less	14 (29%)	3 (38%)	11 (27%)	
High school graduate or GED	6 (12%)	2 (25%)	4 (10%)	
Vocational school or some college	9 (18%)	0 (0%)	9 (22%)	
College degree	13 (27%)	2 (25%)	11 (27%)	
Graduate or doctoral degree	7 (14%)	1 (13%)	6 (15%)	
Average FAD score: Mean (SD)	1.5 (0.52)	1.6 (0.31)	1.5 (0.56)	0.546 ³
Pre-cardiac arrest PCPC				0.185 ¹
Normal = 1	41 (84%)	8 (100%)	33 (80%)	
Mild disability = 2	5 (10%)	0 (0%)	5 (12%)	
Moderate disability = 3	3 (6%)	0 (0%)	3 (7%)	
Pre-cardiac arrest POPC				0.847 ¹
Good = 1	32 (65%)	5 (63%)	27 (66%)	
Mild disability = 2	12 (24%)	2 (25%)	10 (24%)	
Moderate disability = 3	5 (10%)	1 (13%)	4 (10%)	
Primary etiology of cardiac arrest				0.414 ²
Cardiac	23 (47%)	2 (25%)	21 (51%)	
Respiratory	16 (33%)	4 (50%)	12 (29%)	
Other/Unknown	10 (20%)	2 (25%)	8 (20%)	
Total number of doses of epinephrine administered by EMS and at hospital: Median [Q1, Q3]	2.0 [1.0, 4.0]	1.5 [1.0, 4.5]	2.0 [1.0, 4.0]	0.622 ¹
Estimated duration of chest compressions				0.257 ²
Unable to determine	1 (2%)	0 (0%)	1 (2%)	
Less than or equal to 15 minutes	30 (61%)	7 (88%)	23 (56%)	
More than 15 to less than or equal to 30 minutes	8 (16%)	1 (13%)	7 (17%)	
More than 30 minutes	10 (20%)	0 (0%)	10 (24%)	
Treatment Assigned				0.448 ²
Hypothermia	26 (53%)	3 (38%)	23 (56%)	
Normothermia	23 (47%)	5 (63%)	18 (44%)	

eTable 2: Demographic variables between eligible cases with 12-month VABS-II interview and onsite testing data and those whose families declined either or both evaluations - ≥ 6 years

	Overall (N = 49)	Testing Completed		P-value
		No (N = 8)	Yes (N = 41)	
Post-cardiac arrest length of stay (days): Median [Q1, Q3]	23.0 [12.0, 55.0]	47.5 [22.5, 103.0]	20.0 [11.0, 50.0]	0.028 ¹
PCPC at hospital discharge				0.108 ²
Normal = 1	24 (49%)	4 (50%)	20 (49%)	
Mild disability = 2	9 (18%)	0 (0%)	9 (22%)	
Moderate disability = 3	9 (18%)	1 (13%)	8 (20%)	
Severe disability = 4	6 (12%)	2 (25%)	4 (10%)	
Coma or vegetative state = 5	1 (2%)	1 (13%)	0 (0%)	
Pre-cardiac arrest VABS-II Adaptive Behavior Composite Score: Mean (SD)	103.9 (18.26)	103.8 (13.56)	103.9 (19.18)	0.979 ³
Month 12 VABS-II Adaptive Behavior Composite Score: Mean (SD)	87.7 (15.42)	81.6 (15.71)	88.4 (15.41)	0.399 ³

¹ P-value is based on the Wilcoxon rank-sum test.

² Fisher's exact test.

³ Two-sided t-test with unpooled variance.

eTable 3: Spearman Correlations among Vineland Adaptive Behavior Scales – Second Edition (VABS-II) and Overall Cognitive Outcome Measures

eTable 3a: Spearman Correlations Among the VABS-II and Mullen Scales of Early Learning (Mullen)

VABS-II	Mullen Early Learning Composite (N=117)	Visual Reception (N=118)	Fine Motor (N=118)	Receptive Language (N=118)	Expressive Language (N=118)
Adaptive behavior composite	0.87	0.80	0.78	0.79	0.80
Communication	0.85	0.76	0.74	0.81	0.80
Daily living	0.81	0.76	0.69	0.74	0.75
Socialization	0.82	0.76	0.73	0.73	0.75
Motor	0.82	0.76	0.78	0.72	0.74

¹ P-value < .001 for all correlations.

eTable 3b: Spearman Correlations Among the VABS-II and Wechsler Abbreviated Scale of Intelligence (WASI)

VABS-II	Full Scale IQ (N=40)	Vocabulary (N=40)	Matrix Reasoning (N=41)
Adaptive behavior composite	0.45 ¹	0.45 ¹	0.32 ²
Communication	0.49 ¹	0.54 ¹	0.29 ³
Daily living	0.44 ¹	0.38 ²	0.43 ¹
Socialization	0.31 ³	0.31 ³	0.21 ³
Motor	0.38 ²	0.32 ²	0.35 ²

¹ P-value < .01.

² 0.01 ≤ P-value < .05.

³ P-value ≥ .05.

e Figure. Description of eligible survivors who were included and excluded

