

## Supplemental Material S4. Baseline characteristics by site.

Construct	Metric	Intervention			Control			Comparisons	
		Northwestern <i>n</i> = 30	Vanderbilt <i>n</i> = 28	Overall <i>N</i> = 58	Northwestern <i>n</i> = 30	Vanderbilt <i>n</i> = 32	Overall <i>N</i> = 62	Between Site ES	Between Group ES
Child age	Months	31.15 (4.47)	31.84 (4.49)	31.48 (4.45)	32.78 (3.99)	30.78 (3.76)	31.75 (3.97)	<i>d</i> = 0.17	<i>d</i> = 0.06
Biological Sex	Male	23 (77%)	20 (71%)	43 (74%)	24 (80%)	25 (78%)	49 (79%)	<i>rr</i> = 1.15	<i>rr</i> = 1.23
Participating Caregiver	Mother	24 (80%)	27 (100%)	51 (88%)	23 (77%)	29 (91%)	52 (84%)	<i>rr</i> = 4.26*	<i>rr</i> = 1.53
	Father	6 (20%)	-	6 (12%)	7 (23%)	3 (9%)	10 (16%)		
Age of caregiver	Years	34.85 (5.68)	33.30 (6.10)	34.14 (5.88)	36.42 (4.23)	33.36 (4.13)	34.84 (4.42)	<i>d</i> = 0.46*	<i>d</i> = 0.14
Caregivers education	Less than HS	1 (3%)	0 (0%)	1 (2%)	0 (0%)	0 (0%)	0 (0%)	<i>V</i> = 0.19	<i>V</i> = 0.01
	HS grad	2 (7%)	3 (12%)	5 (9%)	3 (10%)	3 (9%)	6 (10%)		
	Special training	2 (7%)	0 (0%)	2 (4%)	3 (10%)	1 (3%)	4 (6%)		
	Some college	8 (28%)	9 (36%)	17 (31%)	7 (23%)	12 (38%)	19 (31%)		
	College grad	5 (17%)	8 (32%)	13 (24%)	6 (20%)	9 (28%)	15 (24%)		
	Graduate degree	11 (38%)	5 (20%)	16 (30%)	11 (37%)	7 (22%)	18 (29%)		
Employment status of parent trained N (%)	Not employed	17 (63%)	16 (62%)	33 (62%)	13 (50%)	18 (56%)	31 (53%)	<i>V</i> = 0.04	<i>V</i> = 0.12
	Part time	3 (11%)	2 (8%)	5 (9%)	5 (19%)	5 (16%)	10 (17%)		
	Full time	7 (26%)	7 (27%)	14 (26%)	7 (27%)	9 (28%)	16 (28%)		
	Second job	0 (0%)	1 (4%)	1 (2%)	1 (4%)	0 (0%)	1 (2%)		
Income	< \$30,000	3 (13%)	3 (13%)	6 (13%)	6 (23%)	1 (4%)	7 (14%)	<i>V</i> = 0.24	<i>V</i> = 0.03
	\$30,000–\$50,000	5 (22%)	3 (13%)	8 (17%)	4 (15%)	5 (22%)	9 (18%)		
	\$50,000–\$100,000	7 (30%)	14 (61%)	21 (46%)	10 (38%)	12 (52%)	22 (45%)		
	> \$100,000	8 (35%)	3 (13%)	11 (24%)	6 (23%)	5 (22%)	11 (22%)		
Bilingual	Monolingual	12 (41%)	15 (60%)	27 (50%)	10 (33%)	21 (68%)	31 (51%)	<i>rr</i> = 1.76*	<i>rr</i> = 1.02
	Spanish	9 (31%)	6 (24%)	15 (28%)	9 (30%)	3 (10%)	12 (20%)		
	Other	8 (8%)	4 (16%)	12 (22%)	11 (37%)	7 (22%)	18 (30%)		
Race	American Indian	1 (3%)	0 (0%)	1 (2%)	1 (3%)	0 (0%)	1 (2%)	<i>rr</i> = 1.56*	<i>rr</i> = 1.17
	Asian	4 (14%)	1 (4%)	5 (9%)	9 (30%)	3 (9%)	12 (19%)		
	Black	2 (7%)	2 (8%)	4 (8%)	3 (10%)	2 (6%)	5 (8%)		
	White	16 (55%)	15 (63%)	31 (58%)	9 (30%)	22 (69%)	31 (50%)		
	More than one	0 (0%)	4 (17%)	4 (8%)	6 (20%)	4 (13%)	10 (16%)		
	Others	0 (0%)	2 (8%)	2 (4%)	0 (0%)	0 (0%)	0 (0%)		
	No response	6 (21%)	0 (0%)	6 (11%)	2 (7%)	1 (3%)	3 (5%)		
Ethnicity	Hispanic	12 (41%)	7 (27%)	19 (35%)	8 (27%)	6 (19%)	14 (23%)	<i>rr</i> = 1.18	<i>rr</i> = 1.21
	Non-Hispanic	15 (52%)	18 (69%)	33 (60%)	22 (73%)	24 (75%)	46 (74%)		
	No response	2 (7%)	1 (4%)	3 (5%)	0 (0%)	2 (6%)	2 (3%)		
ADOS	Comparison Score	8.90 (1.21)	6.89 (2.35)	7.93 (2.09)	8.27 (1.41)	7.38 (2.43)	7.81 (2.04)	<i>d</i> = 0.74*	<i>d</i> = −0.06
Child use of spoken language	ADOS score of 3–4 (non-verbal) on A1	7 (23%)	9 (32%)	16 (28%)	8 (27%)	10 (31%)	18 (29%)	<i>rr</i> = 1.10	<i>rr</i> = 1.02
		23 (77%)	19 (68%)	42 (72%)	22 (73%)	22 (69%)	44 (71%)		
Mullen	T score	27.33 (11.76)	26.27 (8.3)	26.84 (10.22)	24.87 (7.41)	29.94 (12.43)	27.44 (10.5)	<i>d</i> = −0.21	<i>d</i> = 0.06
RBS-R	Overall Score	22.24 (15.77)	28.37 (17.45)	25.2 (16.73)	15.9 (12.3)	23.61 (15.92)	19.88 (14.69)	<i>d</i> = −0.43*	<i>d</i> = −0.34
CBCL	Total T score	57.5 (11.71)	60.62 (9.61)	59.00 (10.77)	53.62 (11.82)	57.66 (10.01)	55.74 (11.00)	<i>d</i> = −0.32	<i>d</i> = −0.30
Community therapy	Hours	4.21 (6.41)	3.38 (3.86)	3.8 (5.31)	4.52 (5.10)	4.17 (3.19)	4.34 (4.19)	<i>d</i> = 0.12	<i>d</i> = 0.11
Caregiver use of strategies	% Matched Turns	0.18 (0.11)	0.25 (0.15)	0.21 (0.13)	0.16 (0.1)	0.27 (0.16)	0.22 (0.14)	<i>d</i> = −0.72*	<i>d</i> = 0.06
	% Responsiveness	0.94 (0.10)	0.94 (0.14)	0.94 (0.12)	0.94 (0.12)	0.95 (0.08)	0.95 (0.10)	<i>d</i> = −0.06	<i>d</i> = 0.04
	% Matched Response	0.69 (0.17)	0.73 (0.19)	0.71 (0.18)	0.70 (0.20)	0.75 (0.21)	0.73 (0.20)	<i>d</i> = −0.26	<i>d</i> = 0.10
	% Expansions	0.06 (0.13)	0.11 (0.11)	0.08 (0.12)	0.14 (0.15)	0.10 (0.18)	0.12 (0.17)	<i>d</i> = −0.01	<i>d</i> = 0.22
	% Language Target	0.08 (0.06)	0.09 (0.07)	0.08 (0.06)	0.09 (0.06)	0.11 (0.11)	0.10 (0.09)	<i>d</i> = −0.26	<i>d</i> = 0.21
	% Time Delays	0.03 (0.15)	0 (0)	0.01 (0.11)	0.11 (0.32)	0.02 (0.09)	0.06 (0.23)	<i>d</i> = 0.32	<i>d</i> = 0.26
	% Prompts	0.05 (0.15)	.07 (0.17)	0.06 (0.16)	0.03 (0.09)	0.13 (0.31)	0.08 (0.24)	<i>d</i> = −0.32	<i>d</i> = 0.11
Child social communication	Communicative acts from language sample	18.7 (24.6)	28.96 (40.71)	23.66 (33.46)	19.37 (24.21)	23.62 (22.72)	21.56 (23.36)	<i>d</i> = −0.25	<i>d</i> = −0.07
Child communication	CSBS overall weighted score	32.90 (20.73)	47.67 (35.15)	39.58 (28.86)	41.93 (27.13)	42.23 (36.10)	42.08 (31.81)	<i>d</i> = −0.24	<i>d</i> = 0.08
Expressive vocabulary	MCDI total words said	31.7 (63.14)	55.61 (85.54)	43.24 (75.1)	48 (73.47)	37.84 (60.88)	42.76 (66.9)	<i>d</i> = −0.09	<i>d</i> = −0.01
Expressive Lang	PLS-AC Raw Score	21.33 (4.38)	22.08 (5.99)	21.68 (5.15)	22.77 (4.39)	21.03 (5.51)	21.89 (5.03)	<i>d</i> = 0.11	<i>d</i> = 0.04
Receptive Lang	PLS-EC Raw Score	18.37 (4.07)	21.35 (5.68)	19.75 (5.06)	19.93 (4.53)	21.71 (6.58)	20.84 (5.69)	<i>d</i> = −0.45*	<i>d</i> = 0.20
Play skills	SPA highest play level	11.9 (16.77)	8.35 (4.03)	10.22 (12.51)	9.63 (3.37)	9.32 (4.37)	9.48 (3.88)	<i>d</i> = 0.21	<i>d</i> = −0.08
Autism Core Symptoms	BOSCC Total Score	41.82 (7.21)	36.52 (10.02)	39.36 (8.95)	38.19 (8.21)	36.57 (11.43)	37.36 (9.93)	<i>d</i> = 0.37*	<i>d</i> = −0.21

Note. For between group effect sizes (NU-VU). \**p* < .05.