

S7: Figures and Tables with Captions

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To facilitate review, in addition to uploading the elements separately in accordance to JSLHR guidelines, we have combined all tables and figures from the main manuscript and supplemental materials in a single pdf alongside their titles and captions.

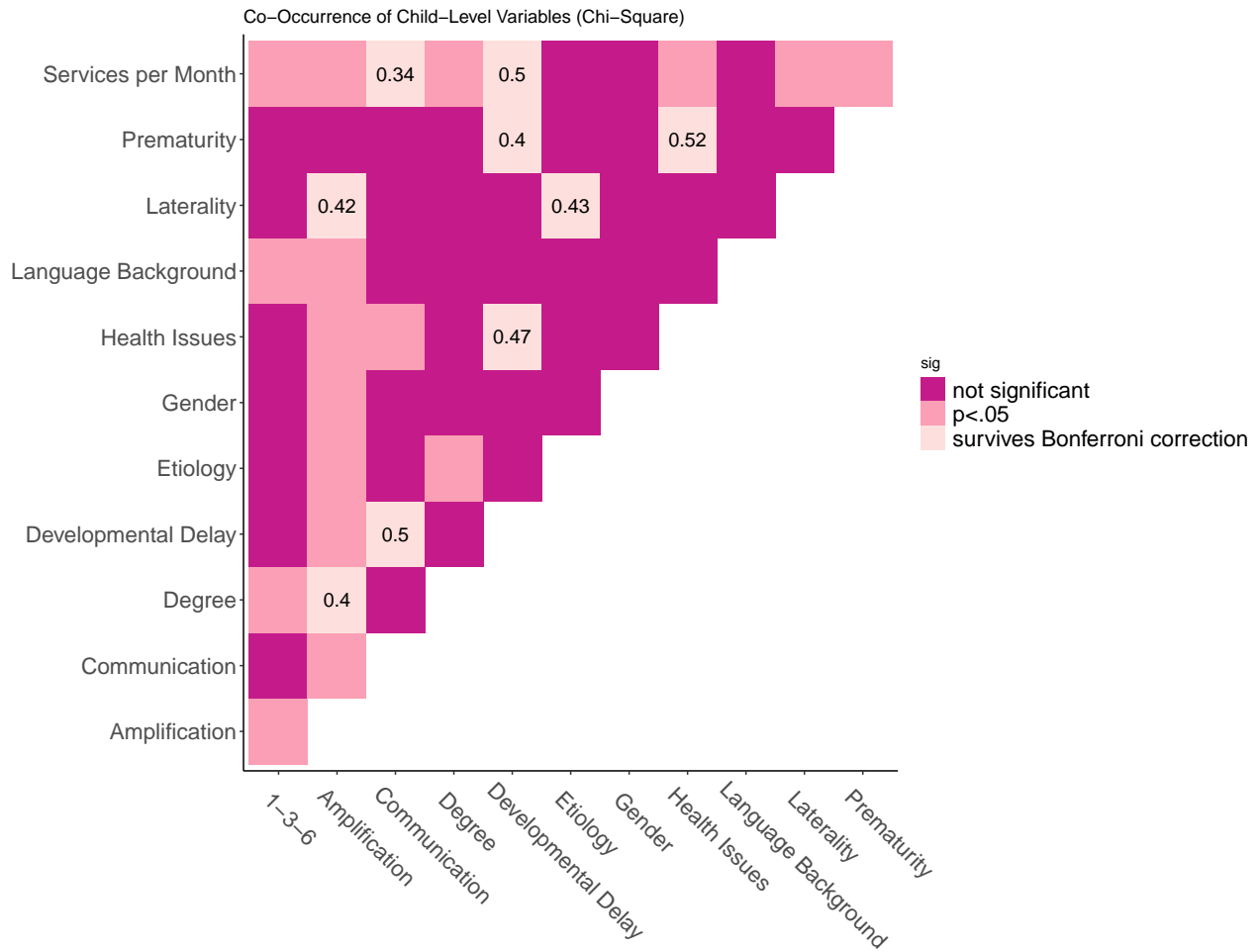


Figure 1: Co-Occurrence of Child-Level Variables (Chi-Square): Results of chi-square tests between variables. X- and y-axes show the variables compared. Color of the square represents significance of the corresponding chi-square test. For tests that survived Bonferroni correction ($p < .0007$), effect size (Cramer's V) is given.

Vocabulary Growth Curves by Instrument

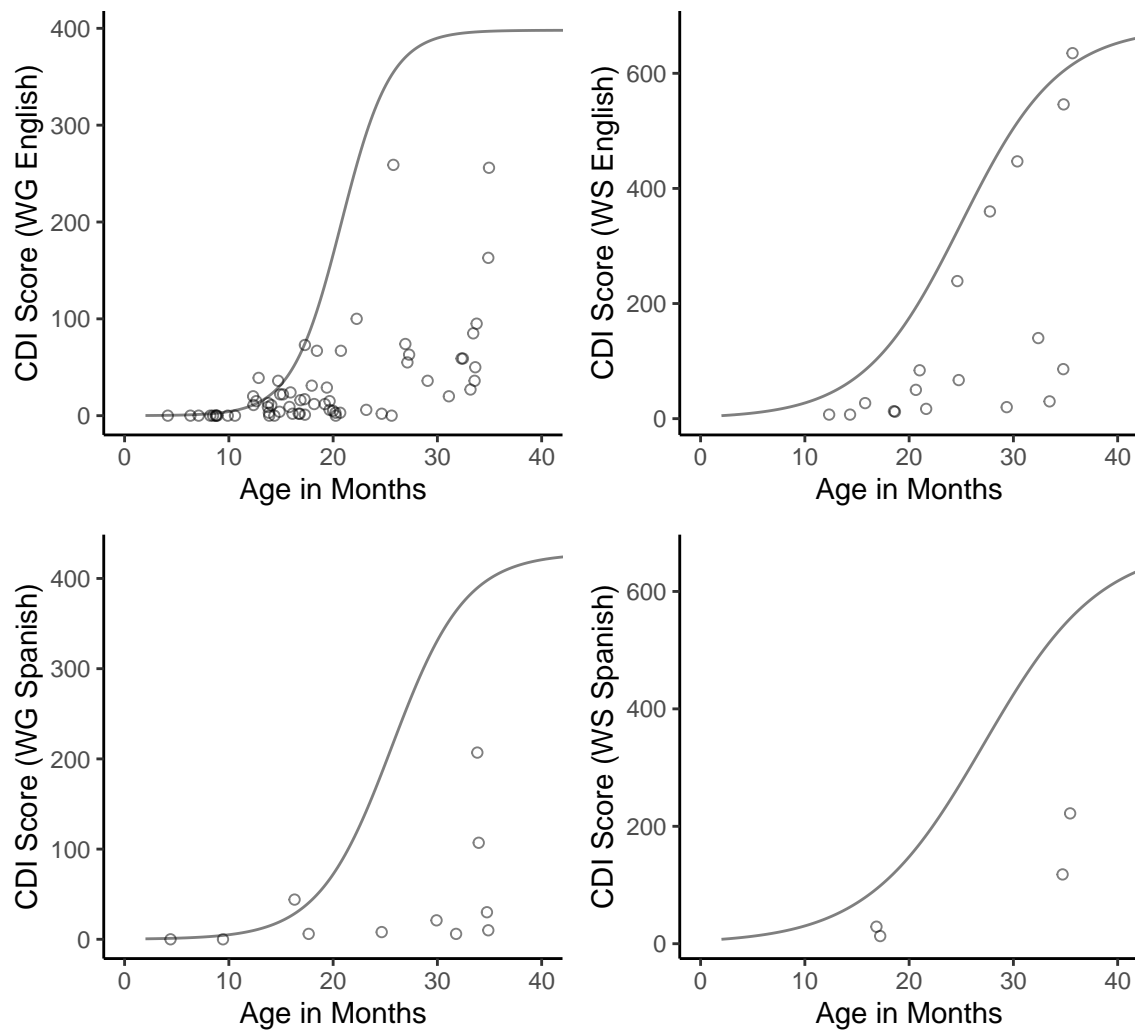


Figure 2: Vocabulary Growth Curves by Instrument: Lines show the growth curves created from WordBank 50th percentile data. Left panels show Words & Gestures; right panels show Words & Sentences. Top row is American English data; bottom row is Mexican Spanish data. Dots represent vocabulary scores of individual DHH children in the sample.

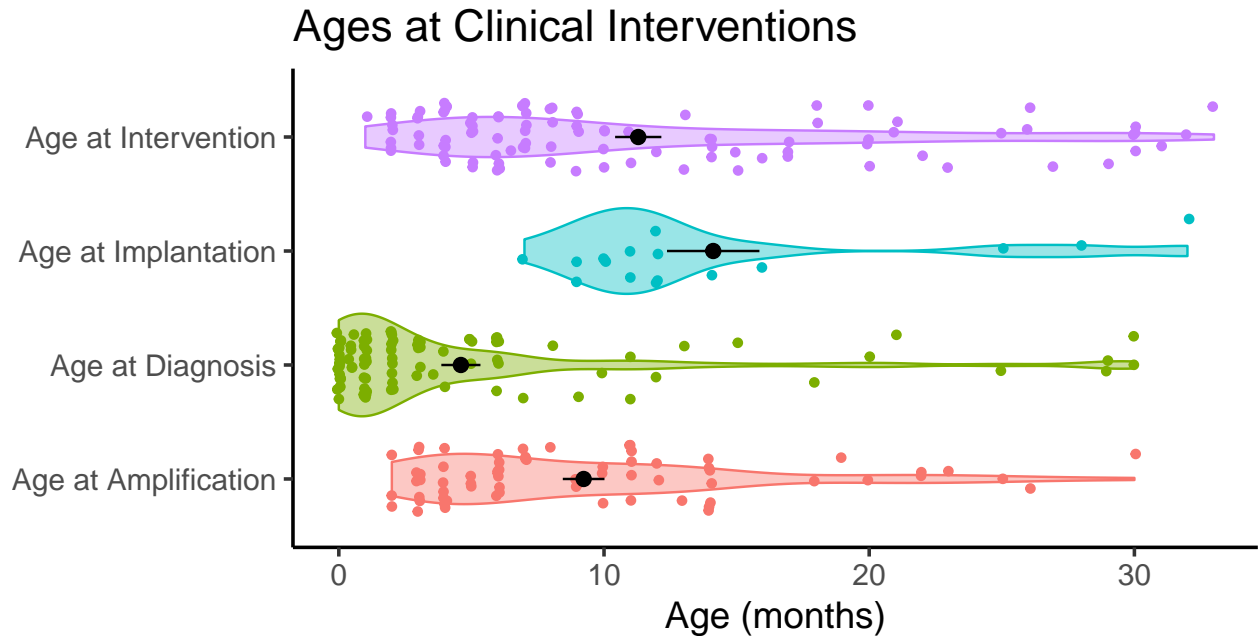


Figure 3: Ages at Clinical Interventions: Age at diagnosis, intervention, amplification, and cochlear implantation across participants. Each dot represents the age that one child received the clinical service; violin width reflects data distribution. Black dots and whiskers show means and standard errors. Not all children received amplification (hearing aids) or implantation (cochlear implants).

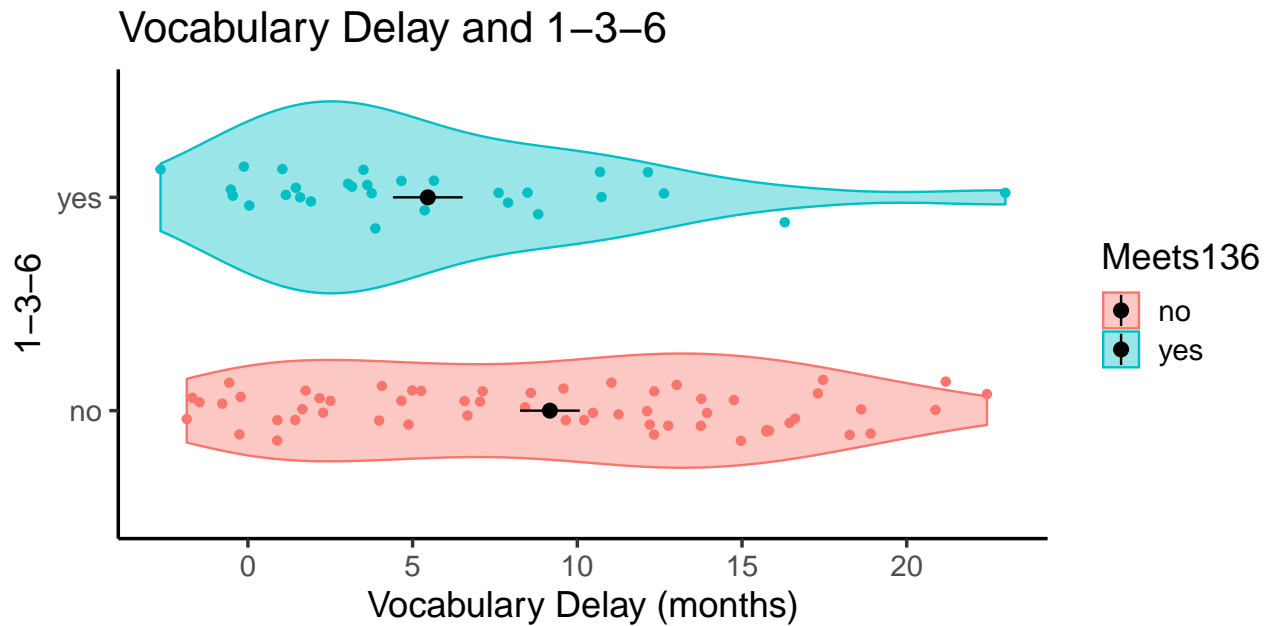


Figure 4: Vocabulary Delay and 1-3-6: Estimated vocabulary delay for children who meet 1-3-6 guidelines for diagnosis/intervention (top) and children who do not (bottom). Each dot represents one child in the sample; violin width reflect data distribution. Black dots and whiskers show means and standard error.

Beta Weights for Vocabulary, Diagnosis, and Intervention Models

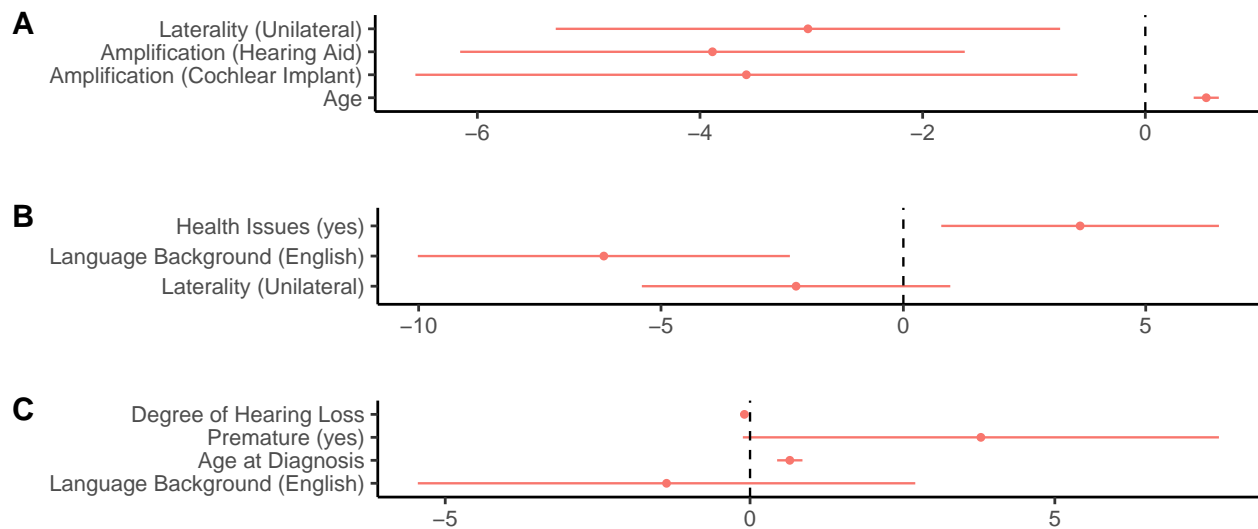


Figure 5: Beta Weights for Vocabulary, Diagnosis, and Intervention Models: Unstandardized coefficients (measured in months) with 95% confidence intervals for the models selected by AIC for: (A) vocabulary delay, (B) age at diagnosis, (C) age at intervention.

Variable	Range
Age	4-36 months (mean (SD): 21 (9))
Age at Amplification	2-30 months (mean (SD): 9 (7))
Age at Diagnosis	0-30 months (mean (SD): 5 (7))
Age at Implantation	7-32 months (mean (SD): 14 (7))
Age at Intervention	1-33 months (mean (SD): 11 (9))
Amplification	Hearing Aid (53) / Cochlear Implant (17) / None (28)
Communication	Spoken (79) / Total Communication (18) / Cued Speech (3)
Degree Hearing Loss (worse ear)	18-100 dB HL (mean (SD): 64 (23))
Developmental Delay	Yes (16) / No (82)
Gender	Female (43) / Male (57)
Health Issues	Yes (36) / No (62)
Language in Home	English (84) / Other (16)
Laterality	Unilateral (26) / Bilateral (72)
1-3-6	Yes (34) / No (61)
Premature Birth	Full-term (16) / Premature (82)
Services Per Month	0-43 services per month (mean (SD): 5 (6))
Etiology	Sensorineural (62) / Conductive (19) / Mixed (8)
Words and Gestures CDI - Words Produced	0-259 words (mean (SD): 33 (53))
Words and Sentences CDI - Words Produced	7-635 words (mean (SD): 148 (184))

Condition	Specific Condition	n
Premature		17
	Extremely Premature	11
	NICU stay	16
Health Issues		36
	Heart	9
	Lung	5
	Illness	15

Condition	Specific Condition	n
	Feeding Issues	14
	Pregnancy/Birth Complications	11
	Musculoskeletal	9
	Cleft Lip/Palate	4
	Other	15
Developmental Concerns		17
	Down Syndrome	5
	Chromosomal Issues	2
	Neural Tube Defects	2
	Other	10
Vision Loss		5
	Retinopathy of Prematurity	1
	Nearsightedness	1
	Farsightedness	1
	Cortical Visual Impairment	1

Laterality	Amplification	Degree (better ear; dB HL)	Degree (worse ear; dB HL)	Age of A
Bilateral	CI	85.60	89.79	11.29
Bilateral	HA	47.51	56.28	8.18
Bilateral	none	49.67	53.65	
Unilateral	HA	4.70	54.09	9.91
Unilateral	none	2.50	71.55	8.50

Communication	English	Hindi	Spanish	Total
cued speech	1	0	0	1
spoken	67	1	11	79
total communication	15	0	3	18

term	estimate	std.error	statistic	p.value
(Intercept)	-0.51	1.74	-0.29	.770
Laterality (Unilateral)	-3.03	1.14	-2.66	.009
Amplification (Cochlear Implant)	-3.58	1.49	-2.40	.019
Amplification (Hearing Aid)	-3.89	1.14	-3.41	.001
Age (months)	0.55	0.06	9.64	< .001

term	estimate	std.error	statistic	p.value
(Intercept)	9.08	1.94	4.68	< .001
Health Issues (yes)	3.65	1.44	2.53	.013
Language Background (English)	-6.18	1.93	-3.20	.002
Laterality (Unilateral)	-2.21	1.60	-1.38	.170

term	estimate	std.error	statistic	p.value
(Intercept)	14.63	2.76	5.29	< .001
Degree of Hearing Loss	-0.09	0.03	-3.02	.003
Premature (yes)	3.79	1.96	1.93	.057
Age at Diagnosis	0.65	0.10	6.25	< .001
Language Background (English)	-1.37	2.05	-0.67	.506