

Supplemental Digital Content 8: Studies reporting effects of parental socioeconomic status not included in the meta-analysis

Narrative Synthesis												
First author	Year	Country	D	N	Age in years (SD) *	Age at CI in years (SD)	Gender % Female	Family variable	Measure Family variable	Language variable	Measure Language variable	Main Results
Ceh et al.	2013	USA	C	39	5.78 (1.4)	1.25 (0.3)	56	Parental income level	Income and parent education	Global receptive	OWLS or RDLS	Associated non sig. with language development
DesJardin et al.	2009	USA	L	16	4.42 (1.05)	2.16 (0.58)	56	Parental education Parental income level Maternal Education	Household annual income 4 levels	Vocabulary expressive	OWLS	Associated non sig. with vocabulary
Chen et al.	2015	CHN	C	115	4.16 (1.05)	2.67 (1.08)	n.a.	Maternal Education	Years of education	Vocabulary expressive	Chinese CDI short version CCDI MERVIT	Associated sig. pos. with vocabulary
Cuda et al.	2014	ITA	C	30	3	0.98 (0.27)	57	Maternal Education	3 levels	Vocabulary expressive Grammar expressive Grammar receptive	MCDI MCDI sentence complexity MCDI mean of 3 longest utterances	Associated sig. pos. with child sentence complexity
Holt & Svirsky	2008	USA	L	96	n.a.	0.5-4.0 (Range for sub-groups)	41-50 (Range for sub-groups)	Parental income level	Indirect measure of family Income TIGER database	Global expressive	RDLS III expressive Scales MCDI	Associated sig. pos. with receptive vocabulary
Quittner et al.	2013	USA	L	188	2.22 (1.21)	n.a.	52	Parental income level	Household income >50,000	Global expressive+ receptive	CDI Words and Gestures CDI Words and Sentences RDLS Verbal Comprehension CASL	Associated sig. pos. with language development
Szagun & Stumper	2012	GER	L	25	n.a	1.7 (0.92)	48	Maternal Education	4 levels	Vocabulary size of	CDI questionnaire	Associated sig. pos. with

										expressive	vocabulary checklist number of words types	children's linguistic progress
Yanbay et al.	2014	AUS	L	42	2.77-6.40 (Range for sub- groups)	0.53-3.3 (Range for sub- groups)	55	Parental income level	IRSAD	Global expressive	PLS-4 EC	Associated non. sig. pos. with expressive communication

Note. *Age for longitudinal=age at enrolment; age for cross-sectional=age at testing.; C=Cross-sectional; CASL= Comprehensive Assessment of Spoken Language; CCDI= Chinese Communicative Development Inventories; CDI=Communicative Development Inventories; CI=Cochlear Implantation; D=Design; IRSAD= Index of Relative Socio-economic Advantage and Disadvantage; L=Longitudinal; MCDI=MacArthur-Bates Communicative Development Inventories; MERVT= Mandarin Expressive and Receptive Vocabulary Test; PLS-4 EC=Preschool Language Scale Expressive Communication Fourth Edition; RDLS=Reynell Developmental Language Scales; SES=Socio-economic Status; TIGER=Topologically Integrated Geographic Encoding and Referencing