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Unpacking the evidence for and theory of intervention in childhood language impairment: Systematic reviews across different components of language.

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Background	Methodology	Stu	dy characteristics
Children with Primary language impairment (PLI) or Developmental language disorder (DLD), estimated at 1-2 children in every classroom (Norbury, Gooch et al 2016), are at risk for poorer	Population: Children 3-18 with PLI/DLD. Sources: Peer-reviewed articles from systematic search of empirical databases (PsychInfo; ERIC; Web of Science; LLBA; Scopus; PubMed) Dates 2006-2017; all languages.	Language participant included studies.	
social, emotional and mental health outcomes and lower academic and vocational	Process: Systematic Reviews. Protocols available at https://www.crd.york.ac.uk/prospero/	Age Profile	All groups aged 3-18, majority studies with younger children
attainments than the majority of their peers who acquire oral language without difficulty (Bishop, Snowling et al 2017). We have growing evidence for the efficacy and cost-effectiveness of intervention to improve the	 (search COST IS1406). 20% of hits double-screened for inclusion on title & abstract Two members from each review team double-screened full texts for topic relevance (language component) 	Example Designs	Emerging Findings e: Morpho-Syntax (17 studies) Randomised Control Trials-35% Non-randomised Group with control-26% Group design no control-5% Single case studies-7% Case series-18% SRs & non-systematic reviews- 9%
language skills of these children,	 Full texts are being double-coded 	-	Theoretical orientations
but efficacy across languages is unknown. Additionally, systematic	and critically appraisedCodes: Participants, language,	Specified	Not specified/ Unclear implicit
reviews of the evidence base have not explicitly uncovered the theoretical bases for interventions. Language interventions are underpinned by a range of	intervention context, setting, practitioners; dosage; Theoretical approach, Intervention components (targets, ingredients, mechanism of change); primary and secondary	ial- interactionis Constructiv Linguistic/ Behavioura	
linguistic, cognitive and	outcomes.	Ir	ntervention Components
processing theories linked to language acquisition and to proposed deficits. Intervention theory proposes how the	Analysis: Meta-analysis of quantitative data. Qualitative meta-synthesis of theoretical data. Systematic search & screening	Targets	MLU/length. Morphemes. Simple & Complex sentences. Receptive grammar. Narrative micro- Structure
components of an intervention act on the targeted areas to reach the desired outcomes and can support the replication of effective	Records identified through database searching (n = 9.282) 2009 rever records 2009 rever records 2009 rever records 2009 rever records	Ingredients	Explicit teaching (30%) Linguistic modelling (47%) Hybrid Parent-child interaction Non-linguistic cognitive treatment
interventions (Turkstra, Norman et al 2016).	Records after duplicates removed (n = 7,063)	Mechanisms of Change	Specified (47%) Hypothesised (inferable) (41%) Not-specified (12%).
Aims	Records screened Records excluded	also involve	reviews ongoing. COST IS1406 es reviews of national, country-
 Identify the theories and mechanisms of change underpinning interventions in PLI/DLD. Evaluate the efficacy of interventions for childhood language impairment. 	(n = 7.052) (n = 6.188) (n = 6	Systematic revis Saldana, Paulin Vulchanova, Ma Arve Asbjornser Edith Kouba, Rc Pernille Dornau, Knudsen, Jelena Moghadam, Val Rodriguez, Maji Einarsfolttir Ma	rature. Cknowledgements by group members: Carol-Anne Murphy. David e Frizelle, Kristine Jersen de Lopez, Mila rija Laasonen, Sari Kunnari, Cristina McKean, J. Dagmar Bitmer, Ana Castro. Jan de Jong, syva Frances, Filip Smöllk, Virre Vihman, Melanie Domstuder, Daniel Hochiger, Hanne k Kwac, Andrea Marini, Nitoufar Jalail- entin Vichanova, Francisco Peres, Isabel S awic, Marte Valdes, Dina Alves, Johanna rina Ozbic, Kaka Petriou, Anna-Kaisa na Zajdó. [Contact 1 st author for references].

