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

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Background

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 social, emotional and mental health outcomes and lower academic and vocational attainments than the majority of their peers who acquire oral language without difficulty (Bishop, Snowling et al 2017). We

intervention to improve the language skills of these children, but efficacy across languages is unknown. Additionally, systematic reviews of the evidence base have not explicitly uncovered the theoretical bases for interventions. Language interventions are underpinned by a range of

have growing evidence for the

efficacy and cost-effectiveness of

linguistic, cognitive and processing theories linked to language acquisition and to proposed deficits. Intervention theory proposes how the components of an intervention act

on the targeted areas to reach the desired outcomes and can support the replication of effective interventions (Turkstra, Norman et al 2016).

Aims

- 1. Identify the theories and mechanisms of change underpinning interventions in PLI/DLD.
- 2. Evaluate the efficacy of interventions for childhood language impairment.

Methodology

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.

Process: Systematic Reviews. Protocols available at

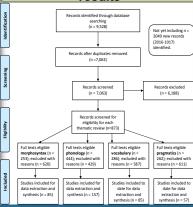
https://www.crd.york.ac.uk/prospero/

(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)
- Full texts are being double-coded and critically appraised
- Codes: Participants, language, intervention context, setting, practitioners; dosage; Theoretical approach, Intervention components (targets, ingredients, mechanism of change); primary and secondary outcomes.

Analysis: Meta-analysis of quantitative data. Qualitative meta-synthesis of theoretical data.

Systematic search & screening results



Study characteristics

Language of participants in included studies.

Majority participants English speaking; Minority German, Spanish, French Portuguese (1) Polish (1) Cantonese (1), Korean (1). Bilingual children in 12 studies across topics

Age Profile

Targets

All groups aged 3-18, majority studies with younger children

Emerging Findings
Example: Morpho-Syntax (17 studies) Designs 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-

heoretical orientations Specified Not specified/ Unclear

implicit 41% 17% 42% Cognitive/Soc Cognitive/Soc No clear ialialreference to

interactionist/ interactionist/ an Constructivist/ Constructivist/ underpinning Linguistic/ Linguistic/ theory Behavioural Behavioural

Intervention Components

Norphemes. Simple & Complex sentences Receptive grammar. Structure

Ingredients Explicit teaching (30%) Linguistic modelling (47%)
Hybrid Parent-child interaction

MLU/length

Non-linguistic cognitive treatment Mechanisms Specified (47%) of Change Hypothesised (inferable) (41%) Not-specified (12%).

ilso involves reviews of national, country

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