

## Research Article

# Language Sample Analysis in Clinical Practice: Speech-Language Pathologists' Barriers, Facilitators, and Needs

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**Purpose:** Most speech-language pathologists (SLPs) working with children with developmental language disorder (DLD) do not perform language sample analysis (LSA) on a regular basis, although they do regard LSA as highly informative for goal setting and evaluating grammatical therapy. The primary aim of this study was to identify facilitators, barriers, and needs related to performing LSA by Dutch SLPs working with children with DLD. The secondary aim was to investigate whether a training would change the actual performance of LSA.

**Method:** A focus group with 11 SLPs working in Dutch speech-language pathology practices was conducted. Barriers, facilitators, and needs were identified using thematic analysis and categorized using the theoretical domain framework. To address the barriers, a training was developed using software program CLAN. Changes in barriers and use

of LSA were evaluated with a survey sent to participants before, directly after, and 3 months posttraining.

**Results:** The barriers reported in the focus group were SLPs' lack of knowledge and skills, time investment, negative beliefs about their capabilities, differences in beliefs about their professional role, and no reimbursement from health insurance companies. Posttraining survey results revealed that LSA was not performed more often in daily practice. Using CLAN was not the solution according to participating SLPs. Time investment remained a huge barrier.

**Conclusions:** A training in performing LSA did not resolve the time investment barrier experienced by SLPs. User-friendly software, developed in codesign with SLPs might provide a solution. For the short-term, shorter samples, preferably from narrative tasks, should be considered.

Developmental language disorder (DLD) is a common neurodevelopmental disorder (Bishop et al., 2016). Children with DLD experience difficulties in all language domains (Leonard, 2017). However, failure to acquire and/or efficiently use grammar has been proposed as a clinical marker of the disorder. Speech-language pathologists (SLPs) are the primary professionals involved in speech and language assessment and therapy for children with DLD. As such, they play a significant role in helping these children to master the rules of grammar in order to improve their communicative participation. To achieve this, SLPs want to choose functional grammatical intervention goals, for which detailed information about the child's grammatical development and daily language use is crucial. To date, SLPs

tend to rely on information from standardized language tests for goal setting (Overton & Wren, 2014; Pavelko et al., 2016). These standardized language tests appear to guide SLPs more in decision making than informal measures derived from language sample analysis (LSA; Fulcher-Rood et al., 2019). However, outcomes of standardized tests often only provide an indication whether grammatical skills are age-appropriate and give limited information about children's actual grammatical language production. Moreover, many grammatical phenomena are difficult or impossible to elicit in a standardized way (Ebert & Scott, 2014).

LSA is a more naturalistic and ecologically valid way to evaluate a child's language performance. LSA offers clinicians the opportunity to collect and analyze language samples that represent linguistic performance in a real-life situation, such as conversation, or in more structured communication tasks, such as narratives (Calder et al., 2017; Price et al., 2010). These types of language elicitation tasks reflect daily communication, which requires integration of all language domains (morphology, syntax, semantics, and pragmatics). Contrastively, standardized language tests mostly tap into separate domains and were never designed to set

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# Clinical Practice In Speech And Language

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