

Parent Assistance Application to Assist Therapy for Toddlers to Reduce the Risk of Speech Delay.

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ABSTRACT

Speech delay is a problem of delayed speech and language development in toddlers. Based on a survey conducted by the Indonesian Pediatric Association, speech delay and language delay are experienced by 5% to 8% of preschool children. Speech delay occurs due to two factors, namely genetic factors and environmental factors. Environmental factors are caused by a lack of verbal stimulus, lack of interaction and communication with people around, especially parents. However, not all parents have enough time to interact with their toddlers so that it can have an impact on toddler language development. This problem can be minimized through the active role of parents with the help of technology to provide information and recommendations for interaction activities with toddlers. Some activities can be done by parents such as asking and listening to their toddlers tell stories, seeing and imitating what they say. In this study, a mobile-based Parent Assistance application was developed with reminder features, scheduling parent-toddler interaction activities, equipped with toddler growth and development guidelines including the stages of physical, cognitive, social, emotional development of toddlers as well as tips on care, nutrition, and speech stimulation that are appropriate for each age. The medium-term goal is to reduce the risk of speech delay. The application developed in functionality runs as expected and the results of the System Usability Scale test get a score of 87 which means very good and feasible to use.

Keywords: *Speech delay, application, toddler, System Usability Scale, Speech delay.*