

ABSTRACT

This research aims to develop a foldable baby chair equipped with integrated sensory toys for toddlers aged 6-24 months. The product is designed to address three primary needs: ergonomic functionality as a safe and comfortable seat, sensory stimulation through integrated toys, and space efficiency with a practical folding system. The study is grounded in the importance of sensory stimulation during children's critical developmental period and the increasing demand among modern parents for multifunctional baby products that save space, particularly in daycare environments that often face storage limitations. The research employs qualitative methods with various data collection techniques. Literature review was conducted to understand the fundamentals of baby chairs and children's sensory development. In-depth interviews with daycare caregivers provided practical insights from the field. Direct observation of children's activities in daycare settings helped understand their behavior and interaction with furniture. Additionally, questionnaires completed by 34 parents yielded quantitative data on user preferences and needs. Data analysis focused on children's anthropometric measurements, parental preferences, and storage challenges in daycare facilities. The product design process applied the SCAMPER method (Substitute, Combine, Adapt, Modify, Put to another use, Eliminate, Rearrange) to create innovative solutions. The final product features several key elements: a dual-layer table tray functioning as both a meal surface and sensory busy board, a folding mechanism for compact storage, and safe materials that meet children's product safety standards. The ergonomic design was adapted to Indonesian infants' anthropometric data to ensure comfort and safety. Validation results showed that 61.8% of respondents believe sensory toys can support children's sensory development, while 52.9% identified portability as the primary solution for space constraints. This product is expected to serve not only as functional baby furniture but also as a developmental tool through various interactive elements designed to stimulate fine motor skills. Its foldable system is anticipated to facilitate parental mobility and improve space management in daycare centers.

Keywords: *Foldable Baby Chair, Sensory Stimulation, Foldable Chair, Child Anthropometry, SCAMPER*