

The Effect of an Instructional Video on Scoring Agreement of the ASQ-3 Between Parents and SPTs



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Introduction

- 1 in 5 children have developmental delays,¹ yet half are not identified until kindergarten²
- Parent-completed tools, like the Ages and Stages Questionnaire version 3 (ASQ-3), provide valuable insight on children's performance of milestones^{3,4}
- Previous findings demonstrated low agreement between parental and student physical therapist (SPT) scoring of the ASQ-3⁵
- Parents receive no training on administration of formal screening tools

Objective

- Investigate the effect of an informational training video (ITV) for parents on the level of agreement in ASQ-3 scoring between parents and SPTs as a proxy for healthcare providers

Participants

- 10 parents with preschool-aged children in the Hand in Hand Child Care Center, St. Paul, MN
- 4 SPTs at Concordia University, St. Paul, MN

Methods

- ASQ-3, a standardized developmental screening tool, used across a variety of settings, cultures, and age ranges, served as the outcome tool
 - Designed to be completed by parents, childhood educators, and healthcare professionals
 - Monitors development across 5 domains: Communication (CM), Gross Motor (GM), Fine Motor (FM), Problem Solving (PM), Personal Social (PS)
- Developmental screening was conducted across two testing sessions for each child (Figure 1):

Results

- PM had the highest percentage of agreement at 85%, followed by PS (81%), GM (78%), CM (70%), and FM (63%)
- Parent scores were the most variable in the CM and FM domains (Chart 1 & 2)
- Least variability between parent scores occurred in the PM and PS domains (Chart 1 & 2)

Conclusion

- Limitations include a small, homogenous group and inconsistent representation of domains in ITV
- The use of an ITV did not result in ASQ-3 scoring agreement between parents and SPTs

Clinical Relevance

- Further research is needed to fully assess the relationship between the use of an ITV and the level of agreement when administering the ASQ-3
- More resources may be required to bridge the gap between parents and healthcare providers

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Chart 1. Overall Percent Agreement Across 60 Items for Each Domain

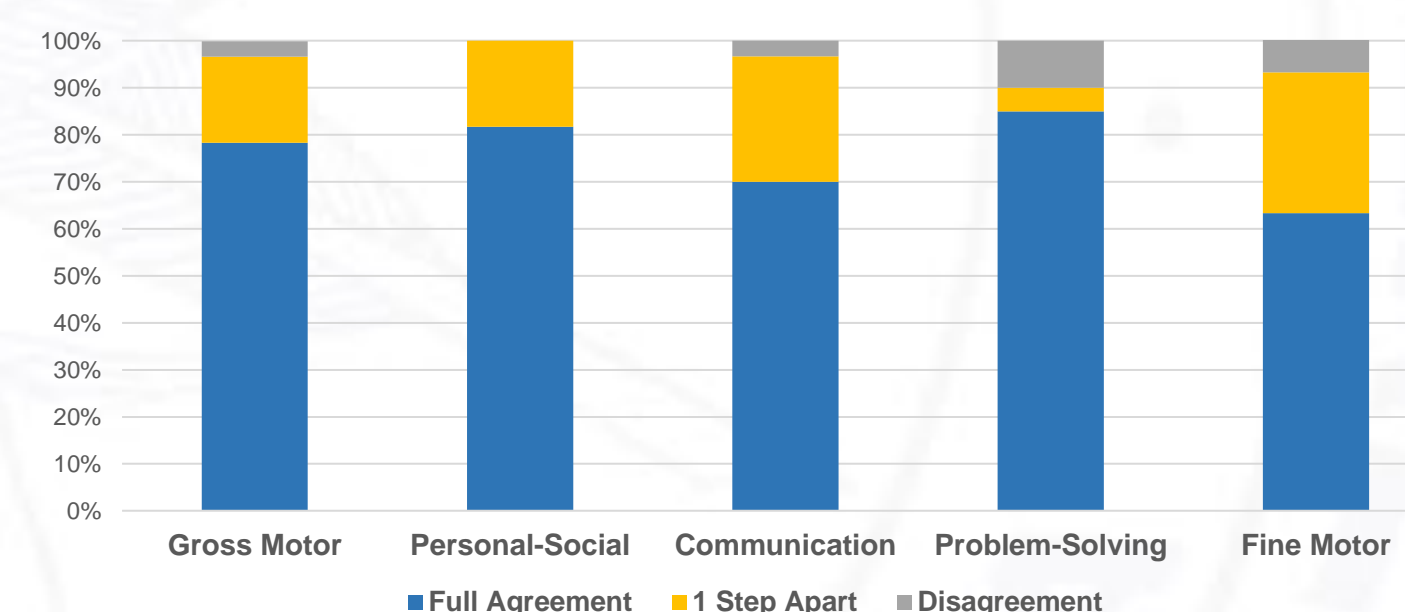


Chart 2. Variations of Parent Scoring Across Domains

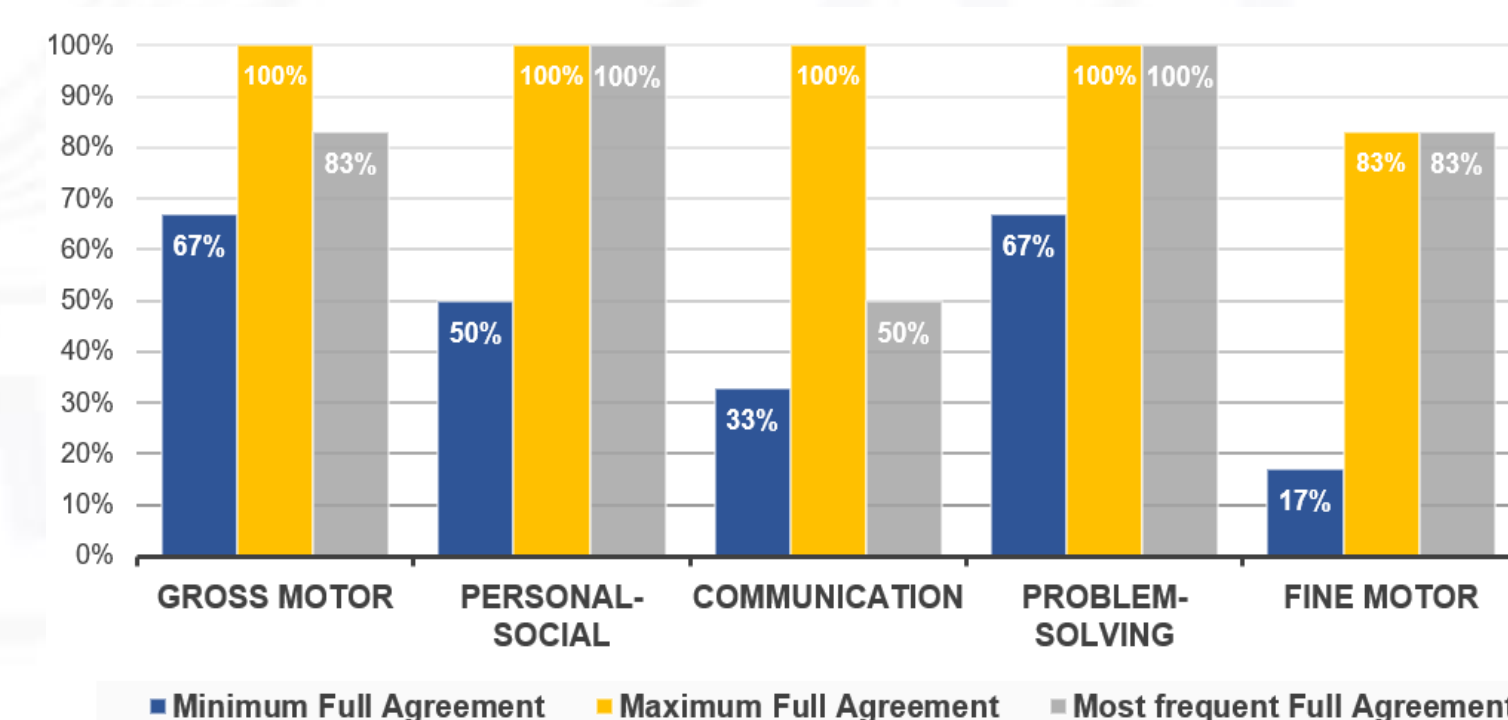


Figure. ASQ-3 Scoring Sessions

