SAT Feeding Dynamics Inventory: Response Mapping Identified a Valid Tool to Assess Parent Adherence to the Division of Responsibility in Feeding Young Children

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Abstract

The Division of Responsibility in Feeding (sDOR) is recognized as the best practice model for feeding young children. However, sDOR is not available to low-income mothers; the Satter Feeding Dynamics Inventory (fdSI) was developed to evaluate sDOR and measure impact of sDOR-promoting interventions. item generation, based on the Satter Model of Feeding Dynamics targeted key concepts: parent leadership and child autonomy.fdSI development and testing was accomplished through an iterative process of item generation, item revision, and item deletion. Item deletion was accomplished through targeted key concepts: parent leadership and child autonomy. The resulting 15-item fdSI is face and content valid; phases 1 to 4, and 5 and 6 participated different in education level, some age, food security, race/ethnicity, WIC participation, and EC. Findings from phase participants (n=150) supported fdSI revisions from phases 1 to 4, except Satter Model and interview items. Interview and fdSI construct validity was facilitated using interventions to improve parent feeding behaviors, to yield public health, SNAP-Ed, USDA funding.

1. Introduction
   - Purpose of the study: To develop a tool to assess parents’ adherence to the Division of Responsibility in Feeding (sDOR) with young children.
   - Background:
     a. Feeding is a critical aspect of child development.
     b. The Division of Responsibility in Feeding (sDOR) is recognized as the best practice model for feeding young children.
     c. However, sDOR is not available to low-income mothers.
   - The Satter Feeding Dynamics Model (Satter) provides the theoretical framework for the Division of Responsibility in Feeding (sDOR) between caregivers and children.
   - Optimal feeding occurs when parents provide both LEADERSHIP and food and give children the CHILDS AUTONOMY.
   - This is consistent with the Authoritative model of parenting, a model shown to be associated with better feeding outcomes including less child obesity.

2. Methods
   - The fdSI formative assessment has produced a tool with translational applications.
   - An iterative testing protocol was required to assure comprehension by the target audience.
   - Cognitive interviews provide a rich source of information and illustrate the rigorous required to develop survey items "qualified" for psychometric analyses.
   - Our findings offer a closer step to a valid tool to measure adherence to sDOR.

3. Results
   - The fdSI examined face and content validity in 5 phases:
     a. Foundational, Refinement, Transitional, Assurance, and Launching (Figure 1).
   - Each phase includes administration of the fdSI and comparison with responses provided in a cognitive interview.
   - In one-on-one interviews with trained interviewers eliciting reasons and ideas for each fdSI item, interview and fdSI responses were mapped for congruence or discrepancy to better understand comprehension.

4. Conclusions
   - Psychometric analyses vital to construct validation, are useful only if applied to a carefully constructed item pool.
   - fdSI formative assessment has produced a tool with translational (i.e., face and content) validity; ready to test for construct integrity.
   - An iterative testing protocol was required to assure comprehension by the target audience.
   - Cognitive interviews provide a rich source of information and illustrate the rigorous required to develop survey items "qualified" for psychometric analyses.
   - Our findings offer a closer step to a valid tool to measure adherence to sDOR.