P1-4: Development and Use of Checklists for Monitoring Quality, Fidelity, and Dosage of Data Collection and Intervention Delivery

Author List:
Presenting Author: Gwendolyn D. Cook
Additional Author: Nicole Greenway, Eileen K. Kintner

Presenting Author: Gwendolyn D Cook
Address: 38170 Overbrook Lane
Westland, Michigan 48185
United States
Ph: 734-718-5519
Fax:
Email: cookgwe@aol.com
Institution: The University of Texas at Austin

Additional Author: Nicole Greenway
Address: Kellogg Center, Garden Level
East Lansing, Michigan 48824-1022
United States
Ph: 517-432-6713
Fax:
Email: greenw50@msu.edu
Institution: Michigan State University

Additional Author: Eileen K Kintner
Address: 1700 Red River Street
Austin, Texas 78701-1499
United States
Ph: 512-471-2847
Fax:
Email: ekintner@mail.nur.utexas.edu
Institution: The University of Texas at Austin

Presentation Preference: Theoretical/Conceptual/Methodological abstract

Abstract Categories:
Research Interest Groups (RIGs): Community/Public Health
Thematic Areas: Methods

Abstract:
Introduction: Checklists for monitoring quality, fidelity, and dosage of data collection and intervention delivery were required for a multi-site, longitudinal, Level III, RCT designed to
compare the efficacy and impact of two asthma health education programs delivered to fifth grade students with asthma enrolled in 42 schools. For quality assurance, protocol dictated that pairs of evaluators audio-record all four data collection time points conducted in the homes of 300 student/caregiver dyads. For fidelity and dosage, protocol dictated that interveners audio-record all intervention sessions (Program 1=ten, 50-minute sessions, and Program 2=six, 40-minute sessions). Standardized checklists were designed to assist research team members in reviewing the audio-recorded wave files. Life-span Development guided this study. Purpose: To describe the process of developing and using checklists to review audio-recorded wave files designed to monitor quality, fidelity, and dosage of data collection time points and intervention delivery sessions.

Method(s): The grant proposal, institutional review board applications, and intervention curricula guided selection of content to ensure conformity with federal and university guidelines, school districts’ requirements, and curricula subject matter. Two standardized formats were designed for reviewing, one for data collection, and one for intervention delivery. Content for each intervention session was tailored to reflect objectives and learning activities.

Results: Evaluators, interveners, site coordinators, the project director, research associate, and principal investigator found the checklists exceedingly helpful during initial training, ongoing monitoring, periodic retraining, timely self-evaluation, and annual staff-evaluation. Using the checklists to review the wave files offered documentation of quality assurance during data collection and fidelity and dosage during intervention delivery.

Discussion & Conclusions: Ensuring data safety and limiting threats to design validity requires ongoing monitoring. Standardized checklists offered support to members of the research team and data safety monitoring board responsible for ensuring quality, and fidelity and dosage during implementation.

Abstract History: This abstract has not been presented or accepted for presentation in whole or in part at the SNRS or other scientific meeting.

Financial Disclosure: No, I (or a member of my immediate family) have not received something of value* from or own stock (or stock options) in a commercial company or institution related directly or indirectly to the subject of my presentation.

FDA Disclosure: I will not be describing any pharmaceutical and/or medical device.

Non-Exclusive License:

Submitted by: