Teaching Observation and Data Collection Skills through Video Training

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Introduction

- Teaching observation and data collection skills takes a lot of time from researchers and supervisors
- Researchers have proposed methods to decrease supervisors' time (Bass, 1987; Dempsey et al., 2012).
  - Training provided by people result in common errors in data collection (Wildman et al., 1975).
- No previous researchers have tested for generalization of skills to live situations.
- Benefits of video training for data collection (Bass, 1987)
  - Time efficient and minimizes error of a trainer

Purpose:

- Utilizing a training video to teach accurate data collection skills
- Generalization of skills to recording data of live performances

Method

Design: Multiple baselines across participants single-subject design

Participants:

- 4 Undergraduate students
- No formal data collection training

Baseline

- Operational definitions
- Data sheet
- Pencil

Intervention

- Material used in baseline
- Video Training Module (45 Min.)
  - Operational definitions
  - Strategies used to identify target behaviors
  - Recorded session and picture examples

Video Training Module (continued)

- Explanation of the data sheet
- Models
- Rehearsal section

Booster Sessions: Re-watch previously scored testing video

Gen Probe: Collect data of a live preference assessment

Dependent Variable: Percentage of correct score of multiple sessions with 10 trials each

- Percentage of agreement with mastery data file
- Calculation Accuracy
- Testing Videos: videotaped session of preference assessments
- Mastery: 90% Interobserver agreement for 2 consecutive sessions

Expected Results

- Figure 1. The average percentage of agreement of all participants.
- Figure 2. The percentage of agreement between participants' and experts' scores.

Discussion

Implications

- Train research assistant in less time and with little to no supervision
- Less error due to systematic training
- If skills generalize to recording data live, the module could be used to train in-vivo data collectors.

Selected References

