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MEASUREMENT BURST DESIGNS TO IMPROVE PRECISION IN PEER RESEARCH

Ryan J. Persram
McGill University
Bianca Panarello
Concordia University
Melisa Castellanos
Concordia University
Lisa Astrologo
Concordia University
William M. Bukowski
Concordia University





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> Ryan J. Persram McGill University

Bianca Panarello Concordia University

Melisa Castellanos Concordia University

Lisa Astrologo Concordia University

William M. Bukowski Concordia University

Author for correspondence: Ryan J. Persram, ryan.persram@mail.mcgill.ca

Abstract: Measurement burst designs, in which assessments of a set of constructs are made at two or more times in quick succession (e.g., within days), can be used as a novel method to improve the stability of basic measures typically used in longitudinal peer research. In this Element, we hypothesized that the stabilities for adolescent-reported peer acceptance, anxiety, and self-concept would be stronger when using the measurement burst approach versus the single-time observation. Participants included youth between ten and thirteen years old who completed (a) sociometric assessments of acceptance, and measures of (b) social and test anxiety, and (c) self-concept across three times with two assessments made at each burst. Findings broadly showed that the stabilities were significantly stronger with the measurement burst when compared to the single-time assessment, supporting our main hypothesis. We discuss the utility of the measurement burst in a broader context and considerations for researchers.

Keywords: measurement burst, peer research, acceptance, anxiety, self-concept

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