

Pilot MRT: Checks of Data Processing

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This document provides information on the checks performed for assurance of data processing for Aim 3, which is the micro-randomized trial (MRT) portion of the pilot study titled: *Developing text-based support for parents of adolescents after an emergency department visit*.

I. Preface

II. Checks on Integrity of Data Processing, as Reflected in Input/Output Datasets

I. Preface

We wish to remind the reader that, as an R34 pilot study, this pilot MRT seeking to inform the initial development of the proposed just-in-time-adaptive-intervention for parents of suicidal adolescents served as a learning opportunity for gathering information about challenges with respect to implementing the intended study design. This information is critical to inform and overcome such feasibility considerations in the design of a full scale MRT.

II. Checks on Integrity of Data Processing, as Reflected in Input/Output Datasets

1. Check that there exist no duplicates in participant-observations. For example, check that a participant was not randomized twice for a given decision point, and that there are no instances where an ecological momentary assessment (EMA) was submitted twice or more than twice.
2. Check that number of days per participant is at most 42
3. Check that number of days per withdrawn participants is at most day of consent removal
4. Check that participants that should be excluded from data are excluded
5. Check that participant days where there was a technology glitch are flagged correctly
6. Summary statistics of adherence/percent EMA completion by quantiles of time in study