

# Supplementary Material

## Feasibility and Proof-of-Concept of Delivering an Autonomous Music-Based Digital Walking Intervention to Persons with Parkinson's Disease in a Naturalistic Setting

### Missing Data

#### 1. Missing MR-005 Foot Sensor Data:

Given the “real world” data collection in this study, some amount of data loss was to be expected. The extent of missing foot sensor data varied with each participant and walking session. Some participants' data were lost during the process of uploading it to a cloud-based server after each session (i.e., due to WiFi or Bluetooth connectivity issues). In addition, some participants did not complete all 20 sessions. As a result, the analysis of each session had fewer than 23 participants' sensor data available [mean(SD) = 17.9(1.4) participants with available data per session].

#### 2. Missing SAM Data

For some participants, technical problems with the SAM compromised the integrity of collected data (n = 4). Other participants did not wear the SAM on some days (n = 3).

#### 3. Missing Clinical Outcome Data

For some participants, procedural errors were made by a research team member during the administration of the PDQ-39 (n = 2) and the 10MWT (n = 2). Several participants were unable to complete the FTSTS test, which requires the ability to stand with arms folded across the chest (n = 2).