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| **Figure 1 GotRhythm Schedule of assessments** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| **ASSESSMENTS** are completed by person blinded to group allocation. |   |   |   |   |   |   |
| **DATA** is recorded by the app |  |  |  |  |  |   |
| **ADJUSTMENTS** to the beat etc during intervention are made by unblinded clinician |  |  |  |  |  |   |
|   |  |  |  |  |  |   |
| **TMS** = transcranial magnetic stimulation |  |  |  |  |  |   |
| **MEP =** Motor Evoked Potential (from single TMS puls) |  |  |  |  |  |   |
| **XYZ =** specific motor inhibitory & facilitatory processes (from paired pulse) |  |  |  |  |  |   |
|   | **A** | **THERAPY BLOCK 1 (3 x 20min/wk x 3wks = total 9 sessions)** | **B** | **THERAPY BLOCK 2 (3 x 20min/wk x 3wks = total 9 sessions)** | **C** | **MEASURE** |
| **OUTCOME MEASURES (per protocol)** | PRE- intervention | MID-intervention | POST-intervention |   |
| ASSESSMENT 1 (baseline/time 0) | MON | WED | FRI | ASSESSMENT 2 (+3wks ) | MON | WED | FRI | ASSESSMENT 3 (+6wks ) |   |
| 1. COMPLIANCE W INTERVENTION | **N/A** |   |   |   | TOTAL mins engaged w app for block 1 |   |   |   | TOTAL mins engaged w app for block 2 | **= B + C /360min** |
| 2. IMPROVEMENT IN TARGETED MOTOR TASK | **N/A** |   |   |   | PROPORTION of motor tasks which match app metronome block 1 |   |   |   | PROPORTION of motor tasks which match app metronome block 2 | **= C > B** |
| 3. GENERALISATION OF SENSORY MOTOR CONTROL  | Fugle-Meyer Assessment of Motor Recovery |   |   |   | Fugle-Meyer Assessment of Motor Recovery |   |   |   | Fugle-Meyer Assessment of Motor Recovery | **change in FMA measures** |
| 4. CORTICAL EXCITABILITY |   |   |   |   |   |   |   |   |   |   |
| 4A. SINGLE TMS | TMS - single - MEP amplitude |   |   |   | TMS - single - MEP amplitude |   |   |   | TMS - paired - MEP amplitude | **change A-B-C** |
| 4B. PAIRED TMS | TMS - paired - MEP amplitude |   |   |   | TMS - paired - MEP amplitude |   |   |   | TMS - paired - MEP amplitude |   |
|   |   |
| DATA COLLECTION EACH SESSION (on GOTRHYTHM app) |  | record mins engaged w app |   | record mins engaged w app |   |   |
|  | record rhythmic music-motor synchrony | record rhythmic music-motor synchrony |   |
| TMS - single | Record single MEP amplitude each session? | Record single MEP amplitude each session? |   |
| TMS - paired | Record paired MEP amplitude each session? | Record paired MEP amplitude each session? |   |
|   | also record reasons for non-completion of intervention if relevant | also record reasons for non-completion of intervention if relevant |   |