|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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 | | | | | | |  | |