## Multimedia Appendix 4. Data charting tool

| Data charting | | Notes | Pre-set options |
|---|---|---|---|
| **Study Details** | | | |
| | Author(s) | | |
| | Title | | |
| | Year of publication | | |
| | Grouped country of origin | Multi-continental – intervention took place across two or more continents | North America<br>Europe<br>Asia<br>Africa<br>Australasia<br>South America<br>Multi-continental |
| **Methods** | | | |
| If a study includes a single session followed by a further longer study period, the details from the longer study period will be recorded | | | |
| | Study design | Usability study will be included under feasibility/pilot | Case study<br>Feasibility/pilot<br>Randomised Controlled Trial<br>Mixed methods<br>Non-randomised /-controlled experimental<br>Non-experimental/observational<br>Single session exploration<br>Qualitative<br>Other |
| | Specify if other | | |
| | Participant numbers | Use participant numbers for which the participant demographics are reported | |
| | Participant characteristics/ age/ range lowest | | |
| | Participant characteristics/ age/ range highest | | |
| | Participant characteristics/ time since stroke in months* | Conversion to months: years x 12, weeks ÷ 4.3, days x 0.0328767123 | |

| Intervention (Based on the TIDieR Checklist) | | | |
|---|---|---|---|
| All information will relate to the intervention only i.e., not methods of data collection or evaluation and will be charted from the introduction and methods section (not the discussion)<br>If a DHT is also being used for other functions outside of the defined scope of rehabilitation e.g., BP monitoring, medication adherence then only the rehabilitation aspect will be charted<br>If a study is described in distinct stages and only some of those stages involve DHT then only this part will be data charted | | | |
| **TIDieR item** | | | |
| Why | Link between intervention and behaviour change approaches | | Yes<br>No |
| | Description of link | Summarised by reviewer | |
| | Reference to a specific behaviour change theory framework or model | As defined by the original author | Yes<br>No |
| | Specify theory framework or model | | |
| | Focus / goal of the intervention | | Upper limb<br>Lower limb<br>Mobility<br>Physical activity<br>Balance<br>Speech and language<br>Multi-focus<br>Activities of daily living<br>Other |
| | Specify if other | | |
| What | Number of DHT types | | One<br>Two<br>Three |
| | Type(s) of DHT intervention | **Virtual Reality (VR)** – an artificial environment created in 3D (immersive) or on a visual display (non-immersive) with which the user can interact in real time [38], incorporating any game, activity or exercise<br>**App** – a computer programme used for a specific | VR<br>App<br>Audio-video platform<br>Robotics<br>Messaging platform<br>Activity Monitor |

| | | | |
|---|---|---|---|
| | | purpose which can downloaded onto a device or accessed via web browser [39] excluding VR<br>**Audio- video platform** - all synchronous, combined audio and visual communication platforms excluding audio telephone calls<br>**Robotics –** a programmed device (end- effector or exoskeletal) which assists the user through a specific motion whilst providing resistance to undesired movements if indicated [40]<br>**Messaging platform** –all asynchronous communication platforms excluding telephone answering machines<br>**Activity monitor** – a wearable electronic device which delivers feedback about physical activity [14]<br>**Sensor** – a movement sensors which is worn or attached to an object to collect information or provide feedback excluding those that provide physical activity feedback and those associated with a VR system | Sensor<br>Other |
| | Specify if other | | |
| | Behaviour change techniques (BCTs) coded to BCTTv1 | See Multimedia Appendix 5 Review-specific behaviour change technique taxonomy coding decisions | |
| | Number of BCTs coded | | |
| | Number of BCT clusters coded | | |
| | BCTs coded by authors and documented in the source | | Yes<br>No |
| How | Supervision | Synchronous contact with the participant either face to face or remotely during the intervention excluding initial session set up<br>Provided through the DHT and /or provided to support the use of the DHT | Yes<br>No<br>Both<br>Not reported |
| | If supervised specify if face to face or remote | | Face to face<br>Remote |

| | | | Both |
| --- | --- | --- | --- |
| | | | Not reported |
| | Individual or group intervention | Group is 2+ participants with stroke | Individual |
| | | | Group |
| | | | Both |
| | | | Not reported |
| Where | Location of the intervention | Community includes a gym or community centre<br>Health care setting includes hospitals (in and out-patients) and community clinics<br>Research setting includes laboratories and universities | Home |
| | | | Community |
| | | | Healthcare setting |
| | | | Research setting |
| | | | Home and healthcare |
| | | | Home and research |
| | | | Home and community |
| | | | Home and other (other not specified) |
| | | | Not reported |
| | | | Other |
| | Specify if other | | |
| When and how much | Duration in weeks | Length of time (longest duration if a range is given) over which intervention is provided in weeks with single exploratory sessions identified as such.<br>Conversion to months: weeks ÷ 4.3 | |

*Use mean or median (mean used as preference unless there is evidence that the data is markedly skewed)