Additional file 1. Number of imputations at different time points for the primary and secondary outcomes

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| **Outcomes in intention to treat analysis** | **Assessment** | | | |
|  | **Baseline** | **Discharge** | **4 weeks** | **6 months** |
| DEMMI | No imputations | 20 imputations  *5 intervention*  *15 control* | 29 imputations  *12 intervention*  *17 control* | 33 imputations  *15 intervention*  *18 control* |
| Knee extension strength | 3 imputations at baseline  *3 control* | 22 imputations  *6 intervention*  *16 control* | 30 imputations  13 intervention  17 control | 36 imputations  *16 intervention*  *20 control* |
| Sit to stand | 6 imputations  *2 intervention*  *4 control* | 20 imputations  *5 intervention*  *15 control* | 29 imputations  *12 intervention*  *17 control* | 34 imputations  *15 intervention*  *19 control* |
| Gait speed | 3 imputations  *1 intervention*  *2 control* | 19 imputations  *5 intervention*  *14 control* | 29 imputations  *12 intervention*  *17 control* | 33 imputations  *15 intervention*  *18 control* |
| Hand grip | No imputations | 18 imputations  *4 intervention*  *14 control* | 29 imputations  *12 intervention*  *17 control* | 33 imputations  *15 intervention*  *18 control* |
| Barthel | No imputations | 19 imputations  *5 intervention*  *14 control* | 29 imputations  *12 intervention*  *17 control* | 33 imputations  *15 intervention*  *18 control* |
| 24-hour activity | 24 imputations  *6 intervention*  *16 control* | 29 imputations  *11 intervention*  *18 control*  11 partial imputations  *2 from day 2 (1 int., 1con.)*  *1 from day 3 (1 int.)*  *2 from day 4 (1 int., 1 con.)*  *2 from day 5 (2 con.)*  *4 from day 6 (2 int., 2 con.)* | 41 imputations  *17 intervention*  *24 control*    11 partial imputations  *2 from day 3 (2 int.)*  *1 from day 4 (1 int.)*  *2 from day 5 (1 int., 1 con.)*  *6 from day 6 (4 int., 2 con.)* | 46 imputations  *20 intervention*  *26 control*  10 partial imputations  *1 at day 2 (1 int.)*  *2 at day 3 (1 int., 1con.)*  *1 at day 4 (1 con.)*  *3 at day 5 (1 int., 2 con.)*  *3 at day 6 (2 int., 1 con.)* |
| **Outcomes in per protocol analysis** | **Baseline** | **Discharge** | **4 weeks** | **6 months** |
| DEMMI | No imputations | 3 imputations  *3 control* | No imputations | 3 imputations  *2 intervention*  *1 control* |
| Knee extension strength | 1 imputation  *1 control* | 4 imputations  *1 intervention*  *3 control* | No imputations | 5 imputations  *2 intervention*  *3 control* |
| Sit to stand | 2 imputations  *1 intervention*  *1 control* | 3 imputations  *3 control* | No imputations | 4 imputations  *2 intervention*  *2 control* |
| Gait speed | 1 imputation  *1 control* | 2 imputations  *2 control* | No imputations | 3 imputations  *2 intervention*  *1 control* |
| Hand grip | No imputations | 2 imputations  *2 control* | No imputations | 3 imputations  *2 intervention*  *1 control* |
| Barthel | No imputations | 2 imputations  *2 control* | No imputations | 3 imputations  *2 intervention*  *1 control* |
| 24-hour activity | 8 imputations  *1 intervention*  *7 control* | 6 imputations  *2 intervention*  *4 control*  7 partial imputations  *1 at day 2 (con.)*  *1 at day 4 (int.)*  *1 at day 5 (con.)*  *4 at day 6 (2 int., 2 con.)* | 10 imputations  *3 intervention*  *7 control*  7 partial imputations  *1 at day 3 (int.)*  *1 at day 5 (con.)*  *5 at day 6 (3 int., 2 con.)* | 14 imputations  *5 intervention*  *9 control*  4 partial imputations  *1 at day 2 (int.)*  *2 at day 3 (1 int.,1 con.)*  *1 at day 4 (1 con.)* |

*The table shows the number of imputations made at the 4 assessment points.The distribution of imputations on intervention group patients and control group patients is shown in italic. Control/con.: Control group; Intervention/int.: Intervention group;Partial imputation: Partial imputations were carried out for patients with missing data on some of the 7 assessed days of assessment (e.g. if the ActivPal monitor has fallen off on day 4, imputations would be made for days 4 to 7).*