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 intervention17 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).*