Supplementary Table S1: Percentage of steps detected - wrist position


## Supplementary Table S2: Percentage of steps detected - thigh position

| Activity monitor | Steps detected by activity monitor / observed step count (\%) |  |  |  |  |  |  |  |  |  | Mean steps <br> detected: \% (SD) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Fitbit Flex Test 1-10 | $\begin{aligned} & \text { 0/119 } \\ & (0 \%) \end{aligned}$ | $\begin{aligned} & \text { 0/117 } \\ & (0 \%) \end{aligned}$ | $\begin{aligned} & 176 / 177 \\ & (99 \%) \end{aligned}$ | $\begin{aligned} & 214 / 216 \\ & (99 \%) \end{aligned}$ | $\begin{aligned} & 139 / 162 \\ & (86 \%) \end{aligned}$ | $\begin{aligned} & 91 / 100 \\ & (91 \%) \end{aligned}$ | $\begin{aligned} & 236 / 235 \\ & (100 \%) \end{aligned}$ | $\begin{aligned} & 158 / 180 \\ & (88 \%) \end{aligned}$ | $\begin{aligned} & \text { 0/104 } \\ & \text { (0\%) } \end{aligned}$ | $\begin{aligned} & 101 / 214 \\ & (47 \%) \end{aligned}$ |  |
| Test 11-19 | $\begin{aligned} & 122 / 122 \\ & (100 \%) \end{aligned}$ | $\begin{aligned} & \text { 189/200 } \\ & (95 \%) \end{aligned}$ | $\begin{aligned} & 36 / 124 \\ & (29 \%) \end{aligned}$ | $\begin{aligned} & \text { 157/164 } \\ & (96 \%) \end{aligned}$ | $\begin{aligned} & 223 / 228 \\ & (98 \%) \end{aligned}$ | $\begin{aligned} & \text { 0/113 } \\ & \text { (0\%) } \end{aligned}$ | $\begin{aligned} & 151 / 158 \\ & (96 \%) \end{aligned}$ | $\begin{aligned} & 23 / 132 \\ & (17 \%) \end{aligned}$ | $\begin{aligned} & 85 / 164 \\ & (52 \%) \end{aligned}$ |  |  |
| Total ( $\mathrm{N}=19$ ) |  |  |  |  |  |  |  |  |  |  | 66\% (42\%) |
| Jawbone Up Move |  |  |  |  |  |  |  |  |  |  |  |
| Test 1-10 | $\begin{aligned} & 154 / 183 \\ & (84 \%) \end{aligned}$ | $\begin{aligned} & \text { 69/151 } \\ & (46 \%) \end{aligned}$ | $\begin{aligned} & \text { 0/107 } \\ & \text { (0\%) } \end{aligned}$ | $\begin{aligned} & 0 / 182 \\ & (0 \%) \end{aligned}$ | $\begin{aligned} & 124 / 145 \\ & (21 \%) \end{aligned}$ | $\begin{aligned} & \text { 0/146 } \\ & \text { (0\%) } \end{aligned}$ | 0/91 (0\%) | 0/69 (0\%) | $\begin{aligned} & 0 / 138 \\ & \text { (0\%) } \end{aligned}$ | $\begin{aligned} & \text { 0/199 } \\ & (0 \%) \end{aligned}$ |  |
| Test 11-19 | $\begin{aligned} & \text { 0/159 } \\ & (0 \%) \end{aligned}$ | $\begin{aligned} & 0 / 172 \\ & (0 \%) \end{aligned}$ | $\begin{aligned} & \text { 0/206 } \\ & (0 \%) \end{aligned}$ | $\begin{aligned} & 129 / 178 \\ & (72 \%) \end{aligned}$ | $\begin{aligned} & 0 / 132 \\ & (0 \%) \end{aligned}$ | $\begin{aligned} & 50 / 207 \\ & (24 \%) \end{aligned}$ | 0/95 (0\%) | $\begin{aligned} & 0 / 185 \\ & (0 \%) \end{aligned}$ | $\begin{aligned} & \text { 149/149 } \\ & (100 \%) \end{aligned}$ |  |  |
| Total ( $\mathrm{N}=19$ ) |  |  |  |  |  |  |  |  |  |  | 22\% (35\%) |
| ActivPAL3 |  |  |  |  |  |  |  |  |  |  |  |
| Test 1-10 | $\begin{aligned} & \text { 194/199 } \\ & (97 \%) \end{aligned}$ | $\begin{aligned} & 114 / 122 \\ & (93 \%) \end{aligned}$ | $\begin{aligned} & 24 / 159 \\ & (15 \%) \end{aligned}$ | $\begin{aligned} & \text { 196/200 } \\ & \text { (98\%) } \end{aligned}$ | $\begin{aligned} & 146 / 172 \\ & (85 \%) \end{aligned}$ | $\begin{aligned} & 86 / 124 \\ & (69 \%) \end{aligned}$ | $\begin{aligned} & \text { 202/206 } \\ & (98 \%) \end{aligned}$ | $\begin{aligned} & 148 / 164 \\ & (90 \%) \end{aligned}$ | $\begin{aligned} & 178 / 178 \\ & (100 \%) \end{aligned}$ | $\begin{aligned} & \text { 222/228 } \\ & (97 \%) \end{aligned}$ |  |
| Test 11-17 | $\begin{aligned} & 112 / 132 \\ & (85 \%) \end{aligned}$ | $\begin{aligned} & \text { 200/207 } \\ & \text { (97\%) } \end{aligned}$ | $\begin{aligned} & 140 / 158 \\ & (89 \%) \end{aligned}$ | $\begin{aligned} & 92 / 96 \\ & (96 \%) \end{aligned}$ | $\begin{aligned} & 84 / 132 \\ & (64 \%) \end{aligned}$ | $\begin{aligned} & 160 / 185 \\ & (86 \%) \end{aligned}$ | $\begin{aligned} & 130 / 149 \\ & (87 \%) \end{aligned}$ |  |  |  |  |
| Total ( $\mathrm{N}=17$ ) |  |  |  |  |  |  |  |  |  |  | 85\% (27\%) |

