**Table 1:** Results from studies (n = 37) comparing muscle strength, assessed by isokinetic/isometric dynamometry, between PwPD and HC.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Author** | **PD (n)** | **HC (n)** | **Total (n)** | **Muscle group(s), velocity and unit** | **Normalized MVIC, MVDC or MVITC** |  |  |  |  |
|  |   |   |   |   |   | **PwPD** |  | **HC** |  | **Difference (%) PwPD vs. HC** |
| **Koller et al. 1986§\*** | 21 | 21 | 42 | EE, 0°/s, ft/lbs |  | Left: 29.1 ± 3.2 |  | 40.1 ± 10.5 |  | 73% |
|  |  |  |  |  |  | Right: 29.6 ± 11.9 |  | 41.7 ± 9.2 |  | 71% |
|  |  |  |  | EF, 0°/s, ft/lbs |  | Left: 20.1 ± 6.0 |  | 25.0 ± 9.2 |  | 80% |
|  |  |  |  |  |  | Right: 19.2 ± 6.9 |  | 25.6 ± 7.8 |  | 75% |
|  |  |  |  | KE, 0°/s, ft/lbs |  | Left: 53.9 ± 18.8 |  | 64.5 ± 20.2 |  | 84% |
|  |  |  |  |  |  | Right: 52.1 ± 18.8 |  | 70.5 ± 17.9 |  | 74% |
|  |  |  |  | KF, 0°/s, ft/lbs |  | Left: 29.6 ± 12.8 |  | 43.9 ± 14.7 |  | 67% |
|  |  |  |  |  |  | Right: 28.9 ± 13.3 |  | 51.1 ± 17.4 |  | 57% |
|  |  |  |  | WE, 0°/s, ft/lbs |  | Left: 1.7 ± 1.1 |  | 3.1 ± 9.6 |  | 55% |
|  |  |  |  |  |  | Right: 1.49 ± 1.1 |  | 2.65 ± 8.7 |  | 56% |
|  |  |  |  | WF, 0°/s, ft/lbs |  | Left: 2.8 ± 1.2 |  | 4.4 ± 1.7 |  | 64% |
|  |   |   |   |   |   | Right: 2.8 ± 11.0 |   | 4.3 ± 16.0 |   | 65% |
| **Stelmach et al. 1988§$** | 7 | 7 | 14 | EF, 0°/s, N |   | 71.9  |   | 96.6  |   | 74% |
| **Jordan et al. 1992#§\*** | 61 | 24 | 85 | HGS, 0°/s, N |  | PD-de novo: 153.4 ± 83.6 |  | 180.2 ± 65.7 |  | 85% |
|  | 61 | 24 |   |   |   | PD: 155.5 ± 54.7 |   |   |   | 86% |
| **Kunesch et al. 1995#§** | 8 | 8 | 16 | IFS, 0°/s, N |   | 51.72 ± 16.64 |   | 85.48 ± 50.76 |   | 61% |
| **Pedersen et al. 1997§\*** | 25 | 37 | 62 | DF, 0°/s, Nm  |  | Men (left): 31.0 ± 14.0 |  | 45.9 ± 8.5 |  | 68% |
|  |  |  |  |  |  | Men (right): 29.8 ± 13.0 |  | 43.8 ± 10.3 |  | 68% |
|  |  |  |  |  |  | Women (left): 24.0 ± 9.5 |  | 30.2 ± 8.5 |  | 79% |
|  |  |  |  |  |  | Women (right): 22.3 ± 10.0 |  | 28.6 ± 9.7 |  | 78% |
|  |  |  |  | DF, 15°/s, Nm (CON) |  | Men (left): 24.5 ± 14.0 |  | 40.8 ± 9.1 |  | 60% |
|  |  |  |  |  |  | Men (right): 24.7 ± 10.5 |  | 38.8 ± 8.5 |  | 64% |
|  |  |  |  |  |  | Women (left): 19.5 ± 10.5 |  | 28.0 ± 7.9 |  | 70% |
|  |  |  |  |  |  | Women (right): 20.6 ± 7.0 |  | 25.2 ± 7.9 |  | 82% |
|  |  |  |  | DF, 30°/s, Nm (CON) |  | Men (left): 23.4 ± 13.5 |  | 39.2 ± 9.1 |  | 60% |
|  |  |  |  |  |  | Men (right): 22.5 ± 11.0 |  | 36.4 ± 8.5 |  | 62% |
|  |  |  |  |  |  | Women (left): 18.7 ± 12.0 |  | 26.0 ± 7.9  |  | 72% |
|  |  |  |  |  |  | Women (right): 19.4 ± 5.0 |  | 23.3 ± 6.1 |  | 83% |
|  |  |  |  | DF, 120°/s, Nm (CON) |  | Men (left): 12.6 ± 9.5 |  | 26.1 ± 10.1 |  | 48% |
|  |  |  |  |  |  | Men (right): 12.8 ± 9.5 |  | 24.9 ± 9.7 |  | 51% |
|  |  |  |  |  |  | Women (left): 9.9 ± 5.5 |  | 16.9 ± 6.1 |  | 59% |
|  |  |  |  |  |  | Women (right): 9.7 ± 4.5 |  | 16.8 ± 4.3 |  | 58% |
|  |  |  |  | DF, 180°/s, Nm (CON) |  | Men (left): 9.4 ± 6.5 |  | 20.7 ± 9.7 |  | 45% |
|  |  |  |  |  |  | Men (right): 9.5 ± 6.0 |  | 20.9 ± 6.1 |  | 45% |
|  |  |  |  |  |  | Women (left): 7.7 ± 5.0 |  | 13.3 ± 5.5 |  | 58% |
|  |  |  |  |  |  | Women (right): 8.0 ± 4.0 |  | 13.4 ± 4.9 |  | 60% |
|  |  |  |  | DF, 30°/s, Nm (ECC) |  | Men (left): 39.7 ± 14.0 |  | 46.9 ± 9.7 |  | 85% |
|  |  |  |  |  |  | Men (right): 39.4 ± 9.0 |  | 45.5 ± 9.1 |  | 87% |
|  |  |  |  |  |  | Women (left): 31.5 ± 8.5 |  | 32.4 ± 8.5 |  | 97% |
|  |  |  |  |  |  | Women (right): 30.6 ± 6.5 |  | 36.1 ± 9.7 |  | 85% |
|  |  |  |  | DF, 120°/s, Nm (ECC) |  | Men (left): 41.6 ± 14.0 |  | 52.8 ± 10.3 |  | 79% |
|  |  |  |  |  |  | Men (right): 41.0 ± 10.0 |  | 48.0 ± 9.1 |  | 85% |
|  |  |  |  |  |  | Women (left): 33.4 ± 10.5 |  | 36.5 ± 8.5 |  | 92% |
|  |  |  |  |  |  | Women (right) 32.1 ± 7.0 |  | 34.3 ± 8.5 |  | 94% |
|  |  |  |  | DF, 180°/s, Nm (ECC) |  | Men (left): 40.4 ± 13.5 |  | 51.5 ± 12.2 |  | 78% |
|  |  |  |  |  |  | Men (right): 41.0 ± 8.0 |  | 46.3 ± 9.7 |  | 89% |
|  |  |  |  |  |  | Women (left): 32.4 ± 8.0 |  | 34.8 ± 9.1 |  | 93% |
|  |   |   |   |   |   | Women (right): 31.9 ± 6.5 |   | 33.0 ± 9.7 |   | 97% |
| **Brown et al. 1997#§** | 9 | 7 | 16 | HGS, 0°/s, Nm | on | 6 ± 2.0 |  | 7.1 ± 1.32 |  | 85% |
|  |   |   |   |   | off | 7.9 ± 2.2 |   |   |   | 111% |
| **Bridgewater et al. 1998§** | 11 | 12 | 23 | TRex, 0°/s, Nm  |  | 58.1 ± 7.2 |  | 114.5 ± 6.4 |  | 51% |
|  |   |   |   | TRflx, 0°/s, Nm  |   | 82.3 ± 6.1 |   | 118.6 ± 5.5 |   | 69% |
| **Purser et al. 1999§** | 15 | 24 | 39 | DF, 0°/s, Nm |   | Left: 22 ± 5 |   | 20 ± 5 |   | 110% |
|  |  |  |  |  |  | Right: 22 ± 7 |  | 19 ± 7 |  | 116% |
|  |  |  |  | Hab, 0°/s, Nm |  | Left: 53 ± 19 |  | 52 ± 20 |  | 102% |
|  |   |   |   |   |   | Right: 54 ± 18 |   | 60 ± 19 |   | 90% |
| **Pääsuke et al. 2002#\*** | 14 | 12 | 26 | KE, 0°/s, N/kg |  | Left: 3.39 ± 0.6 |  | 4.04 ± 0.7 |  | 84% |
|  |   |   |   |   |   | Right: 3.74 ± 0.7 |   | 4.11 ± 0.9 |   | 91% |
| **Inkster et al. 2003** | 10 | 10 | 20 | KE, 45°/s, Nm/kg (CON) | off | 1.00 ± 0.22 |  | 1.18 ± 0.24 |  | 85% |
|  |  |  |  |  | on | 1.07 ± 0.16 |  |  |  | 91% |
|  |  |  |  | HE, 45°/s, Nm/kg (CON) | off | 0.76 ± 0.30 |  | 0.96 ± 0.32 |  | 79% |
|  |   |   |   |   | on | 0.68 ± 0.19 |   |   |   | 71% |
| **Robichaud et al. 2004#§\*** | 12 | 12 | 24 | EE, 0°/s, Nm | off | 21.43 ± 6.8 |  | 43.70 ± 16.2 |  | 49% |
|  |  |  |  |  | on | 31.93 ± 12.1 |  |  |  | 73% |
|  |  |  |  | EF, 0°/s, Nm | off | 35.71 ± 15.9 |  | 52.73 ± 18.1 |  | 68% |
|  |   |   |   |   | on | 40.34 ± 16.4 |   |   |   | 77% |
| **Nallegowda et al. 2004§** | 30 | 30 | 60 | HE, 90°/s, Nm (CON) | on/off | Left: 50.24 ± 22.75 / 34.1 ± 20.92 |  | 94.7 ± 24.68 | 53% / 36% | 45% |
|  |  |  |  |  | on/off | Right: 52 ± 23.03 / 40.5 ± 18.72 |  | 93.3 ± 23.8 | 56% / 43% | 50% |
|  |  |  |  | HF, 90°/s, Nm (CON) | on/off | Left: 30.4 ± 12.32 / 21.7 ± 11.76 |  | 54.92 ± 8.19 | 55% / 40% | 48% |
|  |  |  |  |  | on/off | Right: 34.47 ± 9.86 / 24.13 ± 12.70 |  | 56.16 ±11.27 | 61% / 43% | 52% |
|  |  |  |  | DF, 90°/s, Nm (CON) | on/off | Left: 15.15 ± 5.54 / 11.7 ± 3.96 |  | 17.5 ± 1.97 | 87% / 67% | 77% |
|  |  |  |  |  | on/off | Right: 13.63 ± 5.15 / 11.67 ± 4.72 |  | 18.8 ± 3.04 | 73% / 62% | 68% |
|  |  |  |  | PF, 90°/s, Nm (CON) | on/off | Left: 23.44 ± 14.99 / 16.04 ± 7.71 |  | 41.33 ± 8.68 | 57% / 39% | 48% |
|  |  |  |  |  | on/off | Right: 25.16 ± 12.68 / 19.61 ± 10.18 |  | 43.1 ± 6.08 | 58% / 45% | 52% |
|  |  |  |  | TRex, 90°/s, Nm (CON) | on/off | 103 ± 53.80 / 75.8 ± 51.68 |  | 169.7 ± 41.27 | 61% / 47% | 54% |
|  |  |  |  | TRflx, 90°/s, Nm (CON) | on/off | 76.45 ± 52.75 / 39.9 ± 37.54  |  | 89.36 ± 23.13 | 86% / 45% | 66% |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | HE, 120°/s, Nm (CON) | on/off | Left: 51.31 ± 26.42 / 35 ± 20.57 |  | 90.5 ± 31.48 | 57% / 39% | 48% |
|  |  |  |  |  | on/off | Right: 50.81 ± 24.28 / 37.9 ± 20.71 |  | 100 ± 30.10 | 51% / 38% | 45% |
|  |  |  |  | HF, 120°/s, Nm (CON) | on/off | Left: 27.7 ±11.14 / 21.6 ± 11.39 |  | 55.7 ± 8.06 | 50% / 39% | 45% |
|  |  |  |  |  | on/off | Right: 32.53 ± 12.44 / 22 ± 12.31 |  | 57.67 ± 22.67 | 56% / 38% | 47% |
|  |  |  |  | DF, 120°/s, Nm (CON) | on/off | Left: 14.02 ± 5.13 / 11.13 ± 4.00 |  | 15.3 ± 1.94 | 92% / 73% | 83% |
|  |  |  |  |  | on/off | Right: 12.62 ± 4.10 / 10.62 ± 3.64 |  | 16.17 ± 2.59 | 78% / 66% | 72% |
|  |  |  |  | PF, 120°/s, Nm (CON) | on/off | Left: 19.60 ± 8.72 / 15.32 ± 9.13 |  | 36.77 ± 6.59 | 53% / 42% | 48% |
|  |  |  |  |  | on/off | Right: 21.23 ± 9.98 / 17.48 ± 9.15  |  | 37.7 ± 7.45 | 56% / 46% | 51% |
|  |  |  |  | TRex, 120°/s, Nm (CON) | on/off | 115.1 ± 62.47 / 76.1 ± 46.43 |  | 179.7 ± 38.94 | 64% / 42% | 53% |
|  |  |  |  | TRflx, 120°/s, Nm (CON) | on/off | 82 ± 48.46 / 39.5 ± 36.83 |  | 83.5 ± 22.56 | 98% / 47% | 73% |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | HE, 150°/s, Nm (CON) | on/off | Left: 49.91 ± 28.61 / 34.24 ± 18.55 |  | 81.44 ± 28.27 | 61% / 42% | 52% |
|  |  |  |  |  | on/off | Right: 52.87 ± 30.61 / 36.4 ± 20.90 |  | 100.4 ± 27.75 | 53% / 36% | 45% |
|  |  |  |  | HF, 150°/s, Nm (CON) | on/off | Left: 26.01 ± 11.92 / 18.6 ± 11.17 |  | 49.61 ± 11.68 | 53% / 37% | 45% |
|  |  |  |  |  | on/off | Right: 28.21 ± 13.13 / 20.9 ± 8.9 |  | 52.3 ± 16.18  | 54% / 40% | 47% |
|  |  |  |  | DF, 150°/s, Nm (CON) | on/off | Left: 12.86 ± 4.92 / 10.5 ± 3.67 |  | 13.46 ± 1.47 | 96% / 78% | 87% |
|  |  |  |  |  | on/off | Right: 12.31 ± 3.33 / 10.12 ± 3.09 |  | 14.49 ±1.13 | 85% / 70% | 78% |
|  |  |  |  | PF, 150°/s, Nm (CON) | on/off | Left: 17.38 ± 7.58 / 13.36 ± 7.68 |  | 30.15 ± 5.09 | 58% / 44% | 51% |
|  |  |  |  |  | on/off | Right: 20.58 ± 15.05 / 13.6 ± 6.44 |  | 29.23 ± 7.26 | 70% / 47% | 59% |
|  |  |  |  | TRex, 150°/s, Nm (CON) | on/off | 110.4 ± 57.78 / 76.6 ± 53.44 |  | 176.4 ± 55.31 | 63% / 43% | 53% |
|  |   |   |   | TRflx, 150°/s, Nm (CON) | on/off | 72.5 ± 40.34 / 40.2 ± 36.52  |   | 89 ± 32.75 | 81% / 45% | 63% |
| **Pääsuke et al. 2004#** | 12 | 16 | 28 | KE, 0°/s, N/kg |   | 11.29 ± 5.09 |   | 17.19 ± 5.74 |   | 66% |
| **Brotherton et al. 2005€§** | 12 | 22 | 34 | HGS, 0°/s, N |   | 277.5 ± 67.6 |   | 284.4 ± 89.8 |   | 98% |
| **Noorvee et al. 2006#\*** | 12 | 12 | 24 | KE, 0°/s, N/kg |  | 4.04 ± 1.3 |  | 4.40 ± 1.3 |   | 92% |
| **Canning et al. 2006§** | 16 | 22 | 38 | KE, 0°/s, Nm |   | 162 ± 40 |   | 158 ± 44 |   | 103% |
| **de Oliveira et al. 2008** | 6 | 6 | 12 | HGS, 0°/s, Nm/kg |   | 0.79 ± 0.08 |   | 0.90 ± 0.07 |   | 88% |
| **Pang et al. 2009** | 43 | 29 | 72 | TR, 0°/s, Nm /kg |   | 9.6 ± 4.9 |   | 17.07 ± 7.7 |   | 56% |
|  |  |  |  | TRex, 0°/s, Nm/kg |  | 5.99 ± 3.1 |  | 11.7 ± 4.8 |  | 51% |
|  |  |  |  | TRflx, 0°/s, Nm/kg |  | 3.63 ± 2.1 |  | 5.35 ± 3.1 |  | 68% |
|  |   |   |   | HGS, 0°/s, N/kg |   | 3.8 ± 1.6 |   | 4.15 ± 1.6 |   | 92% |
| **Schilling et al. 2009** | 17 | 10 | 27 | Legpress, 0°/s, N/kg |   | 29.4 ± 12.1  |   | 41.0 ± 16.2  |   | 72% |
| **Durmus et al. 2010ª** | 25 | 24 | 49 | KE, 90°/s, Nm/kg (CON) |  | Left: 0.62 |  | 0.89 |  | 70% |
|  |  |  |  |  |  | Right: 0.55 |  | 0.82 |  | 67% |
|  |  |  |  | KE, 120°/s, Nm/kg (CON) |  | Left: 0.61 |  | 0.77 |  | 79% |
|  |  |  |  |  |  | Right: 0.50 |  | 0.73 |  | 68% |
|  |  |  |  | KE, 150°/s, Nm/kg (CON) |  | Left: 0.62 |  | 0.71 |  | 87% |
|  |  |  |  |   |  | Right: 0.48 |  | 0.67 |  | 72% |
|  |  |  |  | KF, 90°/s, Nm/kg (CON) |  | Left: 0.18 |  | 0.38 |  | 47% |
|  |  |  |  |  |  | Right: 0.18 |  | 0.30 |  | 60% |
|  |  |  |  | KF, 120°/s, Nm/kg (CON) |  | Left: 0.16 |  | 0.31 |  | 52% |
|  |  |  |  |  |  | Right: 0.15 |  | 0.31 |  | 48% |
|  |  |  |  | KF, 150°/s, Nm/kg (CON) |  | Left: 0.11 |  | 0.22 |  | 50% |
|  |  |  |  |   |  | Right: 0.11 |  | 0.26 |  | 42% |
|  |  |  |  | HE, 90°/s, Nm/kg (CON) |  | Left: 0.30 |  | 0.67 |  | 45% |
|  |  |  |  |  |  | Right: 0.33 |  | 0.56 |  | 59% |
|  |  |  |  | HE, 120°/s, Nm/kg (CON) |  | Left: 0.32 |  | 0.62 |  | 52% |
|  |  |  |  |  |  | Right: 0.31 |  | 0.59 |  | 53% |
|  |  |  |  | HE, 150°/s, Nm/kg (CON) |  | Left: 0.24 |  | 0.49 |  | 49% |
|  |  |  |  |   |  | Right: 0.26 |  | 0.53 |  | 49% |
|  |  |  |  | HF, 90°/s, Nm/kg (CON) |  | Left: 0.38 |  | 0.70 |  | 54% |
|  |  |  |  |  |  | Right: 0.45 |  | 0.69 |  | 65% |
|  |  |  |  | HF, 120°/s, Nm/kg (CON) |  | Left: 0.37 |  | 0.60 |  | 62% |
|  |  |  |  |  |  | Right: 0.36 |  | 0.58 |  | 62% |
|  |  |  |  | HF, 150°/s, Nm/kg (CON) |  | Left: 0.27 |  | 0.48 |  | 56% |
|  |  |  |  |   |  | Right: 0.30 |  | 0.45 |  | 67% |
|  |  |  |  | DF, 90°/s, Nm/kg (CON) |  | Left: 0.10 |  | 0.13 |  | 77% |
|  |  |  |  |  |  | Right: 0.09 |  | 0.14 |  | 64% |
|  |  |  |  | DF, 120°/s, Nm/kg (CON) |  | Left: 0.08 |  | 0.11 |  | 73% |
|  |  |  |  |  |  | Right: 0.08 |  | 0.10 |  | 80% |
|  |  |  |  | DF, 150°/s, Nm/kg (CON) |  | Left: 0.05 |  | 0.07 |  | 71% |
|  |  |  |  |   |  | Right: 0.05 |  | 0.07 |  | 71% |
|  |  |  |  | PF, 90°/s, Nm/kg (CON) |  | Left: 0.24 |  | 0.31 |  | 77% |
|  |  |  |  |  |  | Right: 0.25 |  | 0.35 |  | 71% |
|  |  |  |  | PF, 120°/s, Nm/kg (CON) |  | Left: 0.21 |  | 0.33 |  | 64% |
|  |  |  |  |  |  | Right: 0.25 |  | 0.32 |  | 78% |
|  |  |  |  | PF, 150°/s, Nm/kg (CON) |  | Left: 0.22 |  | 0.31 |  | 71% |
|  |   |   |   |   |   | Right: 0.21 |   | 0.30 |   | 70% |
| **Anzak et al. 2011#§** | 9 | 9 | 18 | HGS, 0°/s, Kg | on | 15.1 ± 1.0  |   | 20.7 ± 1.0  |   | 73% |
|  |   |   |   |   | off | 17.0 ± 1.5  |   |   |   | 82% |
| **Pang et al. 2012** | 59 | 37 | 96 | DF, 45°/s, Nm/kg  | (CON) | 0.16 ± 0.085 |  | 0.30 ± 0.12 |  | 53% |
|  |  |  |  | DF, 45°/s, Nm/kg  | (ECC) | 0.63 ± 0.27 |  | 1.11 ± 0.41 |  | 57% |
|  |  |  |  | DF, 90°/s, Nm/kg  | (CON) | 0.12 ± 0.060 |  | 0.24 ± 0.09 |  | 50% |
|  |  |  |  | DF, 90°/s, Nm/kg  | (ECC) | 0.64 ± 0.27 |  | 1.05 ± 0.39 |  | 61% |
|  |  |  |  | PF, 45°/s, Nm/kg  | (CON) | 0.22 ± 0.13 |  | 0.54 ± 0.26 |  | 41% |
|  |  |  |  | PF, 45°/s, Nm/kg  | (ECC) | 0.47 ± 0.17 |  | 0.63 ± 0.19 |  | 75% |
|  |  |  |  | PF, 90°/s, Nm/kg  | (CON) | 0.15 ± 0.09 |  | 0.40 ± 0.23 |  | 38% |
|  |   |   |   | PF, 90°/s, Nm/kg  | (ECC) | 0.46 ± 0.16 |   | 0.64 ± 0.20 |   | 72% |
| **Stevens-Lapsley et al. 2012#\*** | 17 | 17 | 34 | KE, 0°/s, Nm/kg |   | 1.58 ± 1.3 |   | 2.20 ± 0.7 |   | 72% |
| **Moreno Catalá et al. 2013\*** | 26 | 15 | 41 | KE, 0°/s, Nm/kg |  | 2.34 ± 1.0 |  | 2.57 ± 0.9 |  | 91% |
|  |   |   |   | PF, 0°/s, Nm/kg |   | 1.76 ± 1.1 |   | 2.12 ± 0.9 |   | 83% |
| **Neely et al. 2013§** | 12 | 12 | 24 | HGS, 0°/s, N |   | 65.8 ± 11.2 |   | 70.3 ± 14.7 |   | 94% |
| **Frazzitta et al. 2015ª** | 25 | 15 | 40 | KE, 90°/s, Nm/kg |  | Left: 0.81 |  | 1.07 |  | 76% |
|  |  |  |  |  |  | Right: 0.96 |  | 0.94 |  | 102% |
|  |  |  |  | KE, 120°/s, Nm/kg |  | Left: 0.62 |  | 0.70 |  | 89% |
|  |  |  |  |  |  | Right: 0.65 |  | 0.60 |  | 108% |
|  |  |  |  | KE, 180°/s, Nm/kg |  | Left: 0.49 |  | 0.56 |  | 88% |
|  |  |  |  |  |  | Right: 0.51 |  | 0.59 |  | 86% |
|  |  |  |  | KF, 90°/s, Nm/kg |  | Left: 0.41 |  | 0.64 |  | 64% |
|  |  |  |  |  |  | Right: 0.41 |  | 0.61 |  | 67% |
|  |  |  |  | KF, 120°/s, Nm/kg |  | Left: 0.33 |  | 0.56 |  | 59% |
|  |  |  |  |  |  | Right: 0.35 |  | 0.60 |  | 58% |
|  |  |  |  | KF, 180°/s, Nm/kg |  | Left: 0.33 |  | 0.56 |  | 59% |
|  |   |   |   |   |   | Right: 0.29 |   | 0.53 |   | 55% |
| **Pradhan et al. 2015§** | 14 | 14 | 28 | HGS, 0°/s, N |   | 9.15 ± 0.25 |   | 9.02 ± 0.16 |   | 101% |
| **Nishikawa et al. 2017** | 25 | 25 | 50 | KE, 0°/s, Nm/kg |   | 1.53 ± 0.61 |   | 1.5 ± 0.54 |   | 102% |
| **Huang et al. 2017#** | 25 | 25 | 50 | KE, 0°/s, Kg w/kg |   | 0.36 ± 0.20 |   | 0.40 ± 0.18 |   | 90% |
| **Krumpolec et al. 2017\*** | 11 | 11 | 22 | KE, 0°/s, Nm/kg |  | 3.41 ± 4.9 |  | 3.86 ± 4.4 |  | 88% |
|  |   |   |   | KF, 0°/s, Nm/kg |   | 1.64 ± 2.1 |   | 1.80 ± 2.0 |   | 91% |
| **Jones et al. 2017$** | 23 | 14 | 37 | HGS, 0°/s, kg |  | Men: 38.9 |  | 47.4 |  | 82% |
|  |   |   |   |   |   | Women: 24.6 |   | 33.3 |   | 74% |
| **de Lima Gomes et al. 2018§** | 10 | 10 | 20 | HGS, 0°/s, kg |  | Left: 18.4 ± 9.01 |  | 19.6 ± 5.07 |  | 94% |
|  |   |   |   |   |   | Right: 17.7 ± 6.7 |   | 24.6 ± 7.2 |   | 72% |
| **Ignacio Pereira et al. 2018#** | 19 | 20 | 39 | Legpress, 0°/s, N/kg |   | 22.33 ± 7.10  |   | 30.89 ± 9.8 |   | 72% |
| **Blakemore et al. 2018§** | 18 | 18 | 36 | FPS, 0°/s, N |   | 52.4 ± 17.8  |   | 63.5 ± 29.5  |   | 83% |
| **Skinner et al. 2019#** | 13 | 13 | 26 | HE, 0°/s, N/kg |   | 2.29 ± 0.49 |   | 2.53 ± 0.48 |  | 91% |
|  |  |  |  | HF, 0°/s, N/kg |  | 1.99 ± 0.63 |  | 2.55 ± 0.75 |  | 78% |
|  |  |  |  | Had, 0°/s, N/kg |  | 1.93 ± 0.52 |  | 2.17 ± 0.62 |  | 89% |
|  |  |  |  | Hab, 0°/s, N/kg |  | 1.97 ± 0.52 |  | 2.41 ± 0.62 |  | 82% |
|  |  |  |  | DF, 0°/s, Nm/kg |  | 1.90 ± 0.29 |  | 2.34 ± 0.36 |  | 81% |
|  |   |   |   | PF, 0°/s, Nm/kg |   | 1.74 ± 0.29 |   | 2.62 ± 0.0.49 |   | 66% |
| **Smart et al. 2020** | 9 | 9 | 18 | PF, 0°/s, N/kg |   | 4.9 ± 1.5  |   | 6.4 ± 1.6  |   | 77% |
| **Wilson et al. 2020§** | 9 | 9 | 18 | EE, 0°/s, Nm |   | 42.5 ±12.5  |   | 41.6 ± 16.7  |   | 102% |
|  |   |   |   | EF, 0°/s, Nm |   | 58.5 ± 14.4  |   | 65.1 ± 25.7  |   | 90% |

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| Data were normalized to body mass when possible and expressed as a percentage of muscle strength in HC.  |
| Abbreviations: PwPD, people with Parkinson disease; HC, healthy controls; MVIC, maximum voluntary isometric contraction; MVDC, maximum voluntary dynamic contraction; MVITC, Maximal Voluntary Isotonic Contraction; CON, concentric; ECC, eccentric; EE, elbow extension; EF, elbow flexion; KE, knee extension; KF, knee flexion; PF, plantar flexion; DF, dorsal flexion; HE, hip extension; HF, hip flexion; FPS, finger pinch strength; Had, hip adduction; Hab, hip abduction; HGS, handgrip strength; IFS, index finger strength; TR, Trunk; TRex, trunk extension; TRflx, trunk flexion; WE, wrist extension; WF, wrist flexion; off, off medication; on, on medication; #, absolute values are determined from figures; §, body mass not reported; €, pounds converted to newton; \*, SD determined from SE/SEM; a, conversion from median/range to SD not possible; $, SD not available. |