**Table 1:** Results of the Principal Component Analysis

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | DF | | | | PF | | | |
| Muscle | M1-mode | M2-mode | M3-mode | M4-mode | M1-mode | M2-mode | M3-mode | M4-mode |
| TA | **0.59** | -0.09 | -0.12 | -0.05 | 0.12 | 0.11 | 0.03 | **-0.82** |
| VL | -0.02 | **-0.58** | 0.04 | **-0.50** | 0.07 | **-0.60** | 0.25 | -0.45 |
| VM | 0.11 | **-0.81** | -0.03 | -0.03 | -0.03 | **-0.84** | -0.04 | -0.19 |
| RF | -0.06 | **-0.56** | -0.03 | -0.14 | 0.09 | **-0.80** | -0.04 | 0.06 |
| RA | 0.05 | -0.32 | **0.58** | 0.26 | 0.12 | 0.04 | **0.58** | -0.05 |
| SOL | **0.92** | 0.04 | 0.02 | -0.13 | **0.91** | 0.02 | 0.08 | 0.00 |
| GM | **0.93** | 0.00 | 0.03 | -0.14 | **0.92** | -0.07 | 0.11 | -0.06 |
| GL | **0.92** | 0.02 | 0.04 | -0.10 | **0.76** | -0.09 | 0.04 | -0.41 |
| BF | 0.14 | -0.26 | -0.03 | **-0.82** | -0.03 | -0.30 | 0.26 | **-0.63** |
| ST | 0.23 | -0.06 | -0.02 | **-0.79** | 0.19 | -0.20 | -0.11 | **-0.59** |
| ES | -0.14 | 0.17 | **0.79** | -0.02 | -0.06 | -0.05 | **0.70** | 0.15 |
| LD | 0.03 | 0.05 | **0.83** | -0.09 | 0.10 | -0.01 | **0.54** | -0.24 |

Data for a representative subject for the DF and PF conditions are shown. Loading factors are presented for the first four PCs (M-modes). Loadings over 0.5 are shown in bold.

TA = tibialis anterior; VL = vastus lateralis; VM = vastus medialis; RF = rectus femoris; RA = rectus abdominis; SOL = Soleus; GM = gastrocnemius medialis; GL = gastrocnemius lateralis; BF = biceps femoris; ST = semitendinosus; ES = erector spinae; LD = latissimus dorsi