**Supplementary**

**Table S1.** The mean value (± Standard Deviation) of EMG activity for each gait phase under the vibratory stimulation conditions at threshold intensity in each muscle, * indicates significant difference through paired t-test from None (p <0.05) and + indicates significant difference through paired t-test between Th-Max and Th-Min (p <0.05)

| Gait phase | Vibratory stimulation conditions | Tibialis anterior (TA) | Gastrocnemius Lateralis (GL) | Gastrocnemius Medialis (GM) | Soleus (Sol) |
|---|---|---|---|---|---|
| Weight Acceptance | None | 43.800 ± 10.790 | 5.207 ± 1.059 | 4.732 ± 0.575 | 14.226 ± 3.228 |
| | Th-Max | 46.459 ± 9.400* | 5.972 ± 1.126* | 5.176 ± 1.592 | 16.877 ± 3.275* |
| | Th-Min | 45.478 ± 11.490 | 5.929 ± 1.306* | $3.820 \pm 0.783^{*+}$ | $10.851 \pm 3.128^{*+}$ |
| Pull-Up | None | 19.921 ± 3.770 | 7.313 ± 0.612 | 7.420 ± 2.298 | 19.840 ± 0.908 |
| | Th-Max | 18.828 ± 4.518* | 8.582 ± 0.335* | 8.813 ± 3.529* | 20.006 ± 2.529 |
| | Th-Min | $16.458 \pm 3.951^{*+}$ | $8.888 \pm 0.372^{*+}$ | 9.236 ± 3.121* | 19.771 ± 3.949 |
| Forward Continuance | None | 17.178 ± 9.224 | 39.144 ± 27.413 | 48.612 ± 26.313 | 49.305 ± 25.030 |
| | Th-Max | 18.236 ± 11.429* | 36.981 ± 26.955* | 46.671 ± 26.825* | 47.721 ± 25.490* |
| | Th-Min | $16.536 \pm 10.516^{*+}$ | 38.034 ± 28.143 | 47.624 ± 24.896 | 46.855 ± 24.977* |
| Foot Clearance | None | 70.105 ± 7.207 | 4.074 ± 0.704 | 2.917 ± 0.771 | 7.946 ± 0.275 |
| | Th-Max | 68.525 ± 6.762 | 3.921 ± 0.519 | 2.866 ± 0.309 | 9.120 ± 1.005* |
| | Th-Min | 70.562 ± 7.072* | 4.165 ± 1.038 | 2.947 ± 0.850 | $7.683 \pm 0.527^{+}$ |
| Foot Placement | None | 54.382 ± 9.044 | 5.913 ± 0.885 | 7.658 ± 2.266 | 9.164 ± 0.846 |
| | Th-Max | 45.925 ± 8.048* | 5.617 ± 0.447* | 5.691 ± 1.031* | 7.868 ± 0.467* |
| | Th-Min | $50.048 \pm 7.986^{*+}$ | 5.699 ± 0.836 | 6.142 ± 1.787* | $7.481 \pm 0.826^{*+}$ |

Values are represented as mean ± standard deviation

* Significantly different from None, p < 0.05

+ Significantly different between Th-Max and Th-Min, p < 0.05

**Table S2.** The mean value (± Standard Deviation) of EMG activity for each gait phase according to the vibratory stimulation conditions at sub-threshold intensity in each muscle, * indicates significant difference through paired t-test from None (p <0.05) and + indicates significant difference between Sub-Max and Sub-Min (p <0.05)

| Gait phase | Vibratory stimulation conditions | Tibialis anterior (TA) | Gastrocnemius Lateralis (GL) | Gastrocnemius Medialis (GM) | Soleus (Sol) |
|---|---|---|---|---|---|
| Weight Acceptance | None | $43.800 \pm 10.790$ | $5.207 \pm 1.059$ | $4.732 \pm 0.575$ | $14.226 \pm 3.228$ |
| | Sub-Max | $41.409 \pm 10.093$* | $5.965 \pm 1.470$* | $4.716 \pm 0.739$ | $13.117 \pm 2.905$* |
| | Sub-Min | $41.879 \pm 13.666$ | $5.120 \pm 1.147^{+}$ | $4.366 \pm 0.493$ | $13.787 \pm 2.976$ |
| Pull-Up | None | $19.921 \pm 3.770$ | $7.313 \pm 0.612$ | $7.420 \pm 2.298$ | $19.840 \pm 0.908$ |
| | Sub-Max | $15.037 \pm 2.905$* | $7.244 \pm 1.335$ | $7.854 \pm 5.205$ | $18.778 \pm 3.573$* |
| | Sub-Min | $13.369 \pm 2.240$*$^{+}$ | $8.068 \pm 1.000$*$^{+}$ | $9.088 \pm 5.482^{+}$ | $22.714 \pm 3.958^{+}$ |
| Forward Continuance | None | $17.178 \pm 9.224$ | $39.144 \pm 27.413$ | $48.612 \pm 26.313$ | $49.305 \pm 25.030$ |
| | Sub-Max | $19.083 \pm 12.585$* | $38.369 \pm 27.044$ | $49.677 \pm 27.376$ | $48.518 \pm 26.175$ |
| | Sub-Min | $17.147 \pm 11.014^{+}$ | $38.496 \pm 27.909$ | $49.124 \pm 26.338$ | $48.611 \pm 25.871$* |
| Foot Clearance | None | $70.105 \pm 7.207$ | $4.074 \pm 0.704$ | $2.917 \pm 0.771$ | $7.946 \pm 0.275$ |
| | Sub-Max | $75.357 \pm 6.583$* | $3.403 \pm 0.238$* | $2.263 \pm 0.230$* | $7.578 \pm 0.806$ |
| | Sub-Min | $70.829 \pm 7.101^{+}$ | $4.467 \pm 0.583$*$^{+}$ | $3.574 \pm 1.084$*$^{+}$ | $8.055 \pm 0.312^{+}$ |
| Foot Placement | None | $54.382 \pm 9.044$ | $5.913 \pm 0.885$ | $7.658 \pm 2.266$ | $9.164 \pm 0.846$ |
| | Sub-Max | $49.384 \pm 10.165$* | $5.264 \pm 0.623$* | $6.058 \pm 1.597$* | $7.157 \pm 1.006$* |
| | Sub-Min | $48.644 \pm 8.259$* | $5.196 \pm 0.451$* | $6.380 \pm 0.938$* | $8.516 \pm 0.598$*$^{+}$ |

Values are represented as mean $\pm$ standard deviation

* Significantly different from None, $p < 0.05$

+ Significantly different between Sub-Max and Sub-Min, $p < 0.05$