Supplementary Table S23: total decelerative impulse-- MannWhitney U Test outcomes comparing limb and speed effects. \* denotes significant differences between fore- and hind limbs, or between walk and slow run.

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| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |
|  |  | **p value** | **Total N** | **Mann-Whitney U** | **Z** |
|  |  |  |  |  |  |
| Forelimb walk versus Hindlimb walk | Sheep |  0.009\* | 25 |  30.0 | -2.611 |
| Pig | 0.371 | 35 | 125.0 | -0.894 |
| Addax |  0.012\* | 17 |  10.0 | -2.502 |
| Deer | 0.845 | 48 | 278.0 | -0.196 |
| Horse |  0.007\* | 56 | 228.0 | -2.687 |
| Bull | 0.445 | 44 | 209.0 | -0.764 |
| Dromedary | <0.001\* | 32 |  4.0 | -4.585 |
| Elephant | <0.001\* | 43 |  36.0 | -4.724 |
| Forelimb run versus Hindlimb run | Sheep | 0.796 |  9 |  8.0 | -0.258 |
| Pig | 0.034 | 17 |  14.0 | -2.117 |
| Deer |  0.003\* | 20 |  9.0 | -3.009 |
| Horse |  0.003\* | 14 |  0.0 | -3.000 |
| Elephant | 0.050 |  6 |  0.0 | -1.964 |
| Forelimb run versus Forelimb walk | Antelope |  0.008\* | 24 |  1.0 | -2.663 |
| Sheep | 0.021 | 15 |  2.0 | -2.309 |
| Pig | <0.001\* | 24 |  1.0 | -3.858 |
| Deer | 0.153 | 33 |  66.0 | -1.428 |
| Horse | 0.021 | 33 |  24.0 | -2.310 |
| Elephant | 0.547 | 26 |  27.0 | -0.602 |
| Hindlimb run versus Hindlimb walk | Sheep | 0.861 | 19 |  37.0 | -0.175 |
| Pig | <0.001\* | 28 |  10.0 | -3.714 |
| Deer | 0.244 | 35 | 104.5 | -1.164 |
| Horse |  0.002\* | 37 |  37.0 | -3.151 |
| Dromedary | 0.229 | 15 |  5.0 | -1.359 |
| Elephant | 0.584 | 23 |  24.0 | -0.548 |