Supplementary Table S3: peak horizontal impact force amplitude-- 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 | 0.744 | 25 |  72.0 | -0.326 |
| Pig | 0.947 | 35 | 150.0 | -0.066 |
| Addax |  0.005\* | 17 |  7.0 | -2.791 |
| Alpaca | 0.930 | 27 |  61.5 | -0.088 |
| Deer | <0.001\* | 47 |  65.0 | -4.477 |
| Horse | 0.961 | 56 | 389.0 | -0.049 |
| Bull | 0.474 | 44 | 211.0 | -0.717 |
| Dromedary |  0.002\* | 32 |  41.0 | -3.165 |
| Giraffe | 0.127 |  8 |  0.0 | -1.528 |
| Elephant |  0.007\* | 43 | 120.0 | -2.678 |
| Forelimb run versus Hindlimb run | Sheep | 0.439 |  9 |  0.0 | -0.775 |
| Pig | 0.083 | 17 |  18.0 | -1.732 |
| Alpaca | 0.182 |  8 |  2.0 | -1.333 |
| Deer | 0.247 | 20 |  33.0 | -1.157 |
| Horse |  0.016\* | 14 |  4.5 | -2.403 |
| Dromedary | 0.221 |  3 |  0.0 | -1.225 |
| Elephant | 0.050 |  6 |  0.0 | -1.964 |
| Forelimb run versus Forelimb walk | Antelope | 0.694 | 24 |  27.0 | -0.393 |
| Sheep | 0.061 | 15 |  5.0 | -1.876 |
| Pig | 0.098 | 24 |  37.0 | -1.653 |
| Alpaca | 0.054 | 27 |  30.0 | -1.931 |
| Deer |  0.015\* | 33 |  42.0 | -2.436 |
| Horse |  0.001\* | 33 |  1.0 | -3.464 |
| Dromedary | 0.099 | 20 |  0.0 | -1.648 |
| Elephant |  0.006\* | 26 |  0.0 | -2.769 |
| Hindlimb run versus Hindlimb walk | Sheep |  0.009\* | 19 |  9.0 | -2.631 |
| Pig | 0.863 | 28 |  82.0 | -0.172 |
| Alpaca | 0.505 |  8 |  4.0 | -0.667 |
| Deer | <0.001\* | 34 |  7.0 | -4.505 |
| Horse | 0.026 | 37 |  63.0 | -2.230 |
| Dromedary | 0.027 | 15 |  0.0 | -2.208 |
| Elephant | 0.144 | 23 |  14.0 | -1.461 |