Supplementary Table S5: vertical impact velocity-- 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 | 0.273 | 24 |  53.0 | -1.097 |
| Pig | 0.334 | 34 | 116.0 | -0.966 |
| Addax |  0.014\* | 15 |  7.0 | -2.452 |
| Alpaca | 0.541 | 25 |  41.0 | -0.611 |
| Deer | <0.001\* | 48 | 108.0 | -3.712 |
| Horse | 0.819 | 56 | 378.0 | -0.229 |
| Bull | <0.001\* | 44 |  85.0 | -3.684 |
| Dromedary | 0.086 | 32 |  79.0 | -1.715 |
| Elephant | 0.409 | 48 | 248.0 | -0.825 |
| Forelimb run versus Hindlimb run | Sheep | 0.121 |  9 |  3.0 | -1.549 |
| Pig |  0.009\* | 16 |  7.0 | -2.626 |
| Alpaca | 0.317 |  8 |  3.0 | -1.000 |
| Deer |  0.002\* | 20 |  9.0 | -3.038 |
| Horse | 0.643 | 13 |  15.0 | -0.468 |
| Elephant | 0.564 |  5 |  2.0 | -0.577 |
| Forelimb run versus Forelimb walk | Antelope |  0.006\* | 24 |  0.0 | -2.758 |
| Sheep |  0.009\* | 15 |  0.0 | -2.598 |
| Pig |  0.001\* | 24 |  12.0 | -3.184 |
| Alpaca |  0.114 | 26 |  34.0 | -1.582 |
| Deer |  0.001\* | 33 |  20.5 | -3.355 |
| Horse |  0.026 | 32 |  17.0 | -2.222 |
| Elephant |  0.211 | 26 |  11.0 | -1.251 |
| Hindlimb run versus Hindlimb walk | Sheep |  0.001\* | 18 |  1.0 | -3.278 |
| Pig | 0.579 | 26 |  62.0 | -0.556 |
| Alpaca | 0.699 |  7 |  4.0 | -0.387 |
| Deer | <0.001\* | 35 |  35.5 | -3.577 |
| Dromedary | 0.864 | 15 |  12.0 | -0.171 |
| Elephant |  0.007\* | 27 |  1.0 | -2.700 |