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| **Table S1: GRMD Dog Functional Data (6 Mos)** |
| Dog | Genotype | Wt Gain (3-6 Mos) | TTJAngle | TTJ Tetanic Flexion (N/Kg) | TTJ Tetanic Extension (N/Kg) | CS Circumference (mm/Kg) | EccentricContractionDecrement(1-30) |
| Ringo\* | GRMD | 61.4 | 138 | 0.584 | 1.00 | 3.49 | NE |
| Tico\* | GRMD | 67.0 | 159 | 0.296 | 3.14 | 2.30 | NE |
| Napoleon | GRMD | 101.6 | 133 | 0.945 | 0.186 | 4.53 | 50.66 |
| Jane | GRMD | 167.7 | 162 | 0.681 | 3.33 | 3.28 | 72.35 |
| Summer | GRMD | 84.9 | 158 | 0.712 | 2.77 | 5.61 | 51.11 |
| Swiper\* | Normal | 96.7 | 161 | 1.073 | 4.46 | 1.66 | NE |
| Pedro | Normal | 137.3 | 159 | 1.049 | 3.32 | 1.82 | 11.56 |
| Heisenberg | Normal | 116.7 | 163 | 1.387 | 2.58 | 1.47 | 17.10 |

\*The method for TTJ torque measurement in Swiper, Tico, Ringo relied on an earlier instrument2 and is not directly comparable to the values from the other dogs.