

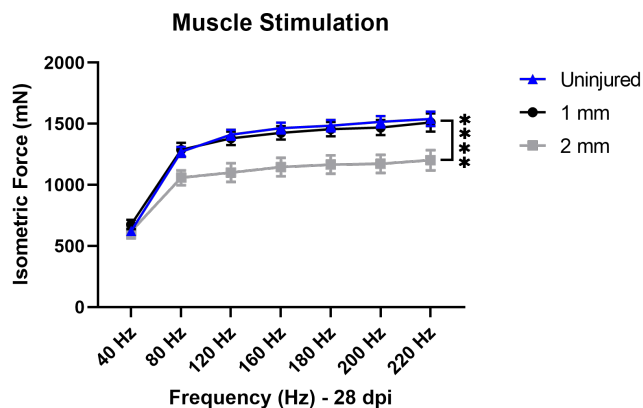
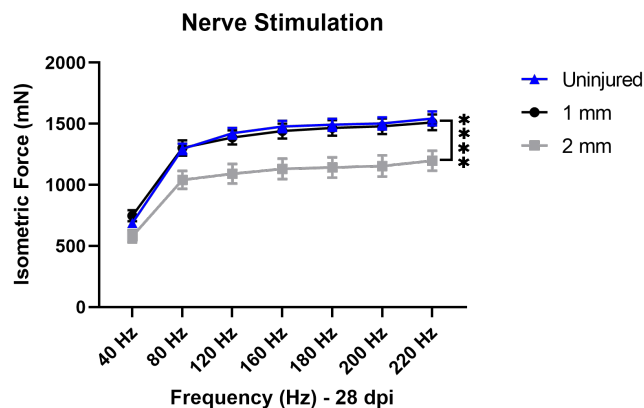
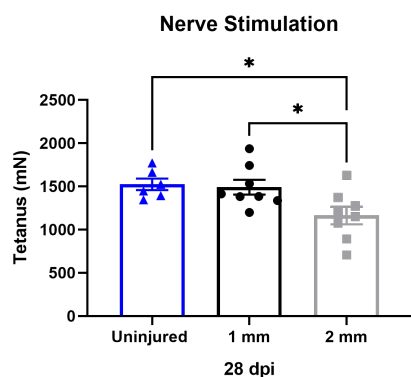
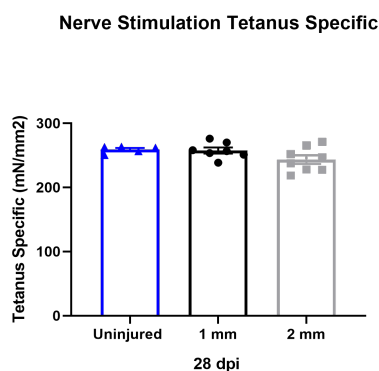
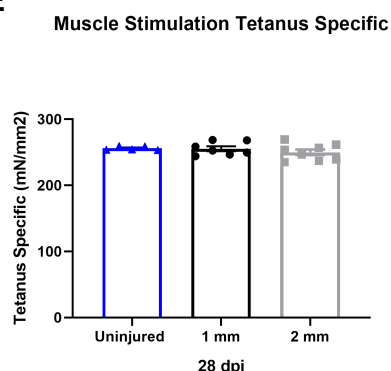
A**B****C****D****E**

Figure 1 – Figure Supplement 1. Functional assessment of response to healing or degenerative volumetric muscle loss injuries. A-B) Force frequency of muscle (**A**) and nerve stimulation (**B**) of uninjured, 1mm and 2 mm groups uninjured (blue) tibialis anterior muscle at 28 dpi (1mm (black) or 2mm (gray)). Points show mean \pm SEM and ****p<0.0001 between uninjured and 2 mm injury groups by two-way ANOVA and post-hoc. n=6-8 tissues from 6-8 mice per group. **C)** Average tetanic force from nerve stimulation of uninjured tibialis anterior muscle at 28 dpi. Bars show mean \pm SEM and *p<0.05 between injury types by two-way ANOVA and post-hoc. n=6-8 tissues from 6-8 mice per group. **D-E)** Tetanic force normalized to total muscle CSA (mm²) from nerve (**D**) and muscle (**E**) stimulation of uninjured tibialis anterior muscle at 28 dpi. Bars show mean \pm SEM. n=6-8 tissues from 6-8 mice per group.