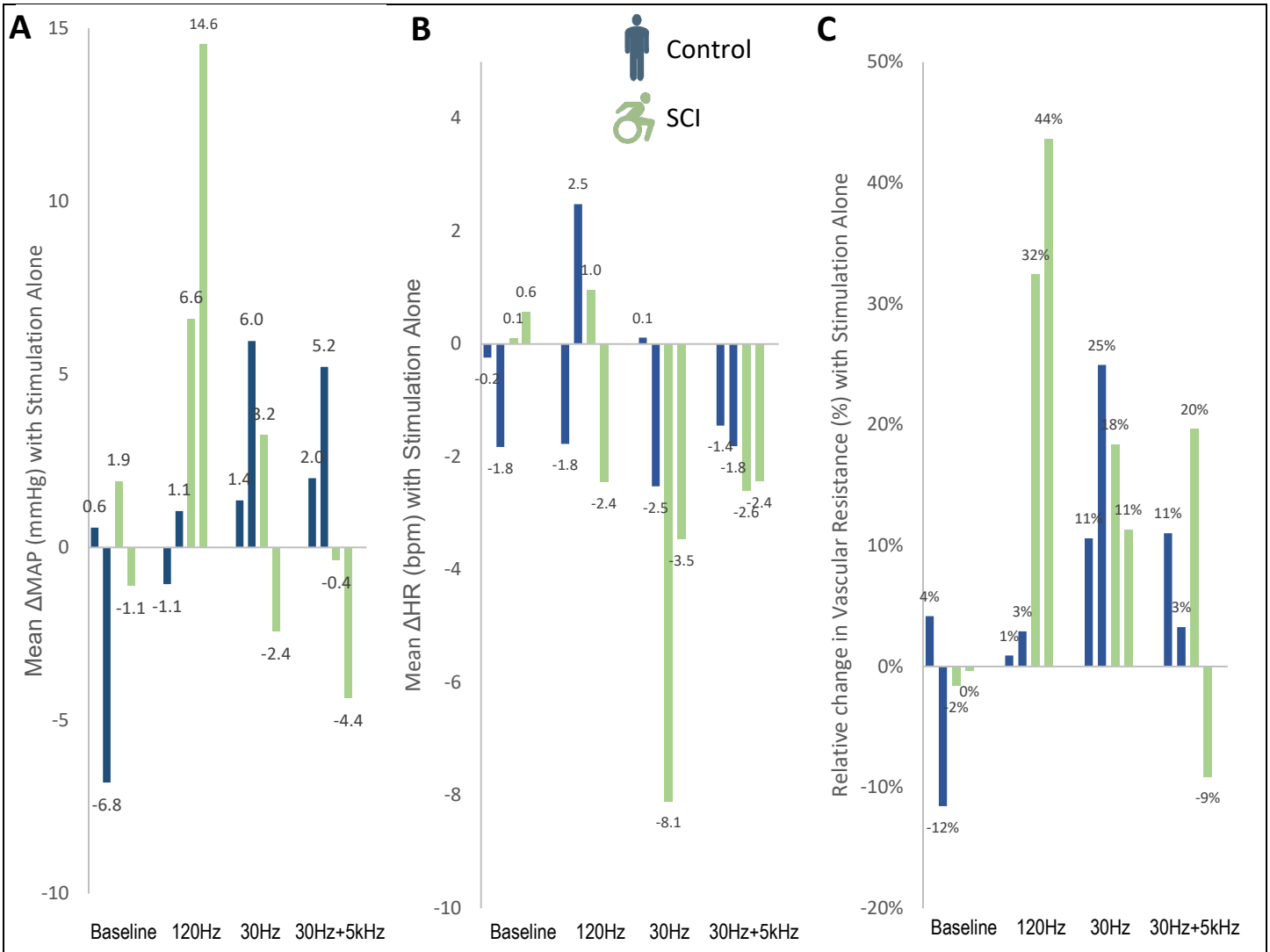

Supplemental Data Figure 1: Physiologic response to transcutaneous spinal cord stimulation alone in a resting state **A)** Mean change in MAP with stimulation alone. **B)** Mean changes in HR with stimulation alone. **C)** Relative changes in lower extremity vascular resistance with stimulation alone. Grouping stimulation frequencies, vascular resistance increased an average of 19.0±7.7% for individuals with SCI, vs 8.9±3.6% for controls (p=0.32). The greatest effect was seen at 120Hz for those with SCI, with resting vascular resistance increasing 32.4% and 43.7% respectively. At this same stimulation frequency in matched controls, vascular resistance increased 0.9% and 2.9%. All other stimulation frequencies had minimal impact in this unchallenged state.

Abbreviations. MAP= Mean Arterial Pressure, HR= Heart Rate