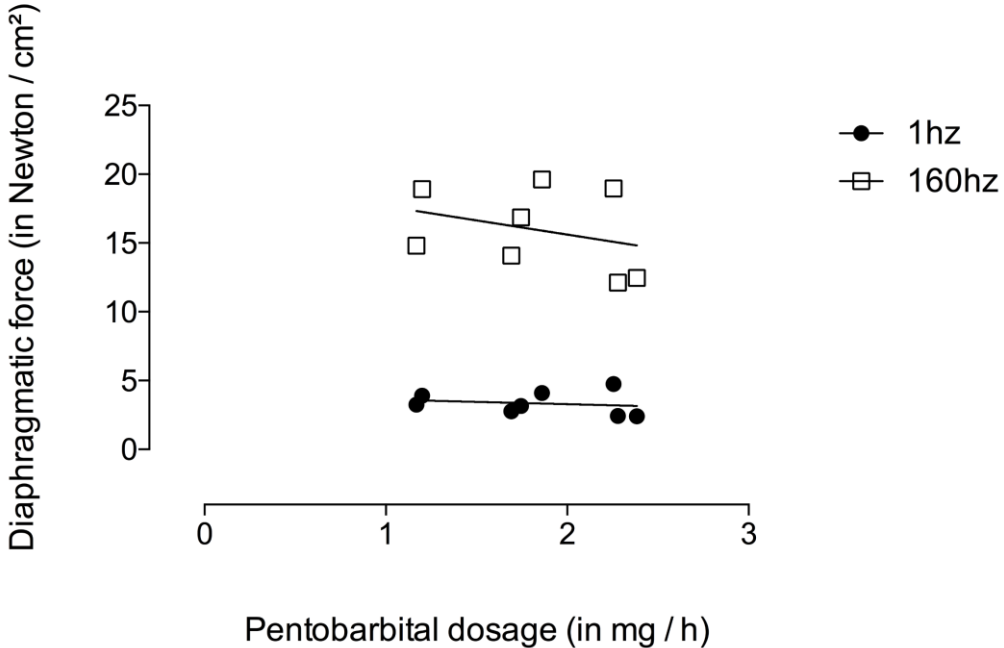


**Supplemental Digital Content 2:** Non-parametric spearman correlation analysis of sedative dosages at the end of the experiment and the corresponding diaphragmatic muscular force (in Newton/cm<sup>2</sup>), corrected for cross sectional areas, as assessed in vitro by stimulation of 1 and 160 Hertz (Hz) for both interventional groups. Panel A: Interventional group treated with 24 hrs of MV under dexmedetomidine exposure in micrograms per hour (D-CMV); Panel B: Interventional group treated with 24 hrs of MV under pentobarbital exposure in milligrams per hour (P-CMV).

**A**



**B**

