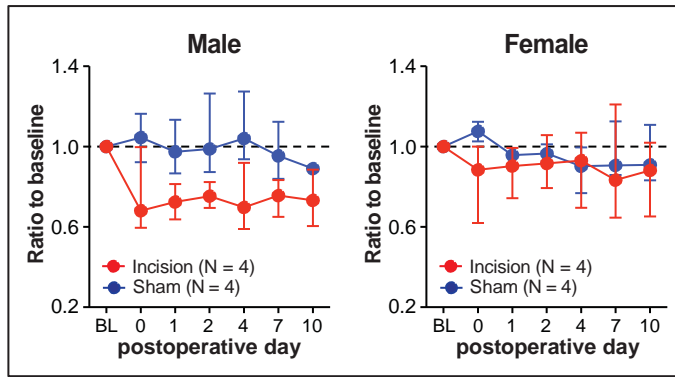
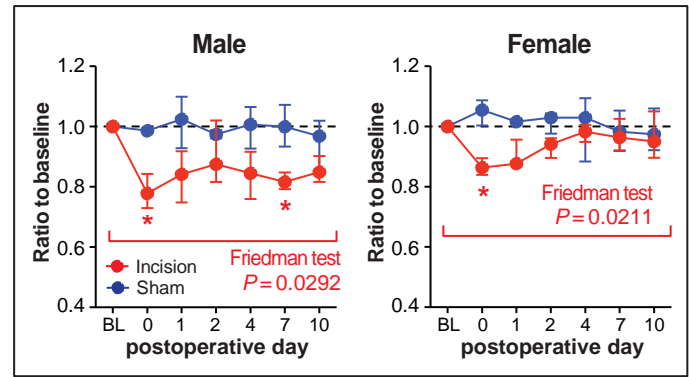


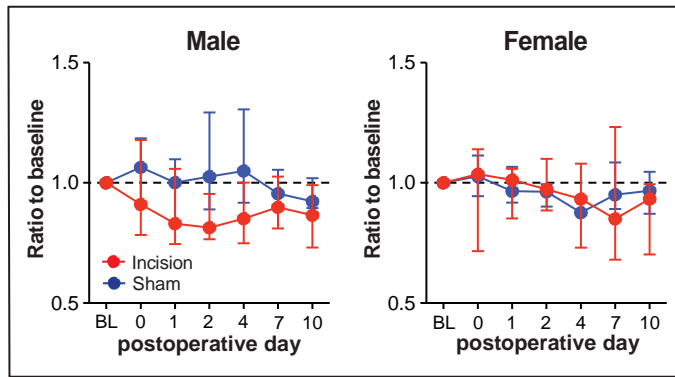
A. Minute ventilation



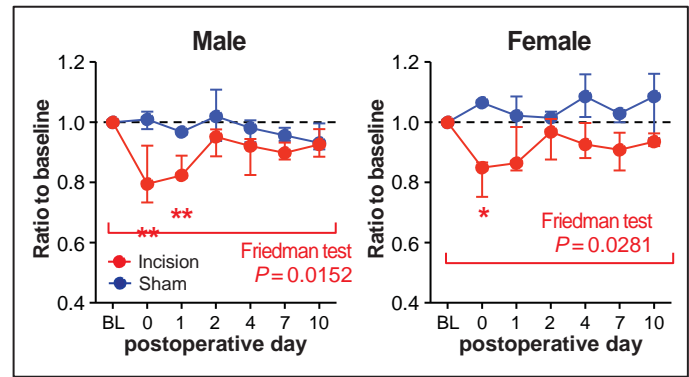
B. Breathing frequency



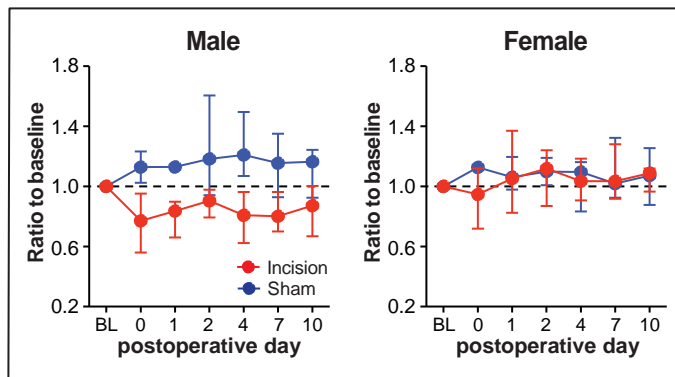
C. Tidal volume



D. I:E ratio



E. EF50



F. Body weight

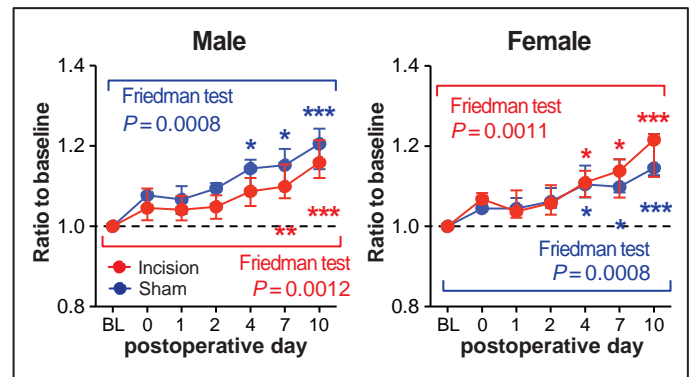


Figure S9. Subgroup analysis by sex: the effect of upper abdominal incision (“Incision” group) vs. sham incision (“Sham” group) on ventilatory parameters (Protocol C). **(A-E)**: Ventilatory parameters measured using the whole-body plethysmography system included minute ventilation (B), breathing frequency (C), tidal volume (D), inspiratory-to-expiratory time ratio (I:E ratio; E), and expiratory flow at 50% expired volume (EF50; F). **(G)**: Body weight measured throughout the experimental period. Data are presented as median with interquartile range. Sample sizes are given in (A). * $P < 0.05$; ** $P < 0.01$; *** $P < 0.001$ vs. Baseline by Friedman test followed by *post hoc* Dunn’s multiple comparison tests. BL = baseline.