**Supplemental Digital Content 14**

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**Supplemental Digital Content - figure 6**. Expression of biological markers. Real-time polymerase chain reaction analysis of biological markers associated with inflammation [interleukin (IL)-6], alveolar mechanical stretch (amphiregulin), alveolar epithelial cell damage [club cell protein 16 (CC16)], and endothelial cell damage [intercellular adhesion molecule (ICAM)-1)]. Relative gene expression was calculated as a ratio of the average gene expression levels to the reference gene (*36B4*) and expressed as fold change relative to non-ventilated (NV) animals. Values represent medians and whiskers represent the 10-90 percentile range of 8 animals in each group. Comparisons among groups were done using the Mann–Whitney *U* test and Bonferroni correction for 4 comparisons (p < 0.0125). \* *vs.* NV (p < 0.0125); † *vs.* Low Power/High VT (p < 0.0125).