



## Supplementary Figure 2

Respiratory system compliance (C<sub>rs</sub>), driving pressure and PaO<sub>2</sub>/FiO<sub>2</sub> are unreliable estimates of PEEP-induced alveolar recruitment and changes in lung strain.

Top: relationship between the changes in dynamic, static and total strain induced by PEEP, and the corresponding changes in respiratory system compliance (C<sub>rs</sub>), driving pressure and PaO<sub>2</sub>/FiO<sub>2</sub>.

Bottom: relationship between the amount of alveolar recruitment (C<sub>rec</sub>) induced by PEEP, and the corresponding changes in respiratory system compliance (C<sub>rs</sub>), driving pressure and PaO<sub>2</sub>/FiO<sub>2</sub>.