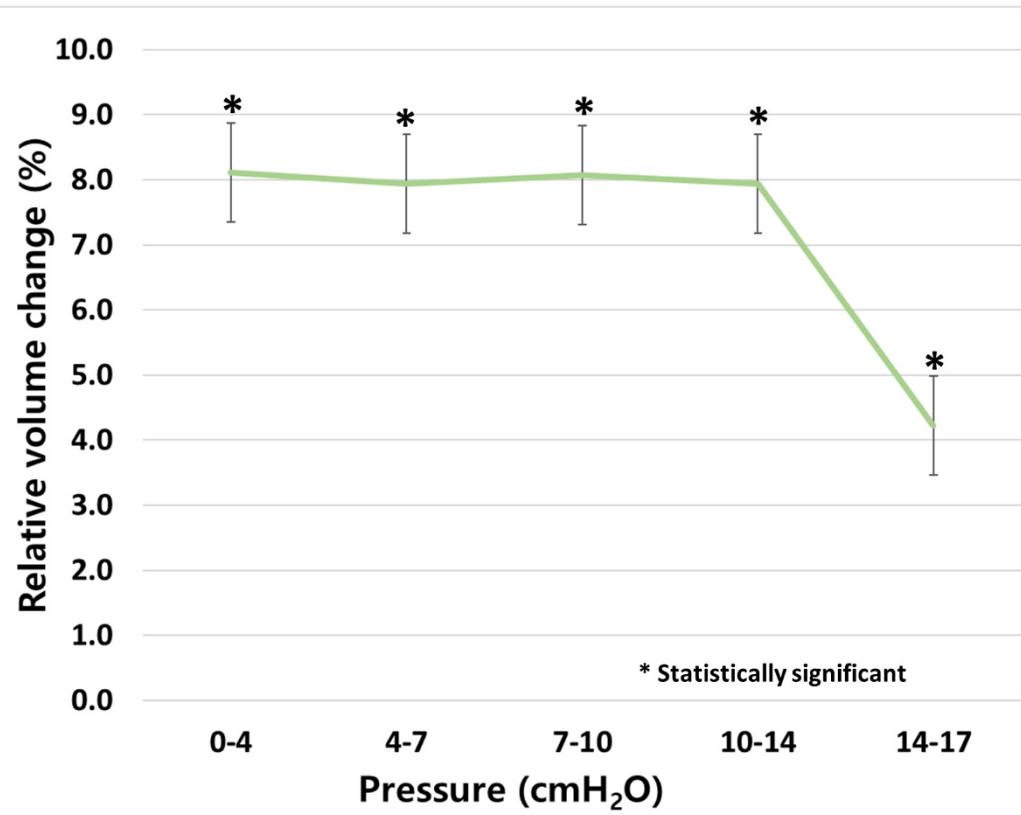


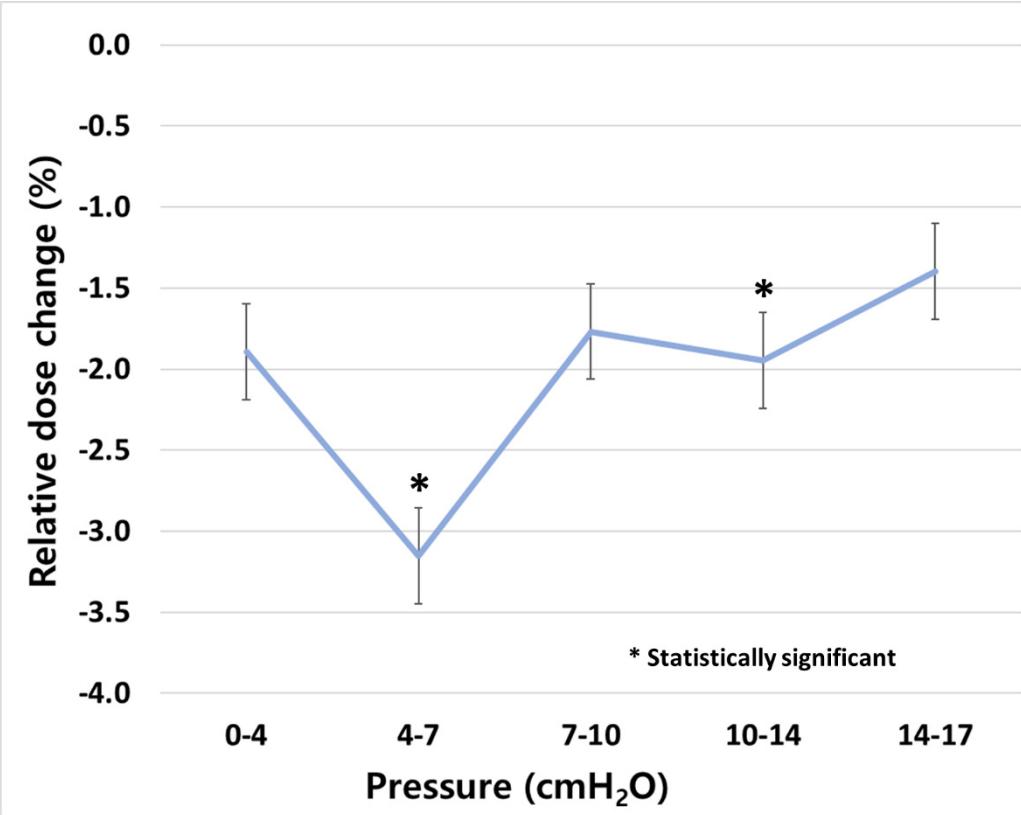
**Table S1. Dose constraints for the organs at risk**

Organ	Dose constraints
Lung	$D_{mean} < 20 \text{ Gy}$ $V_{10} < 40\%$ $V_{20} < 35\%$
Heart	$D_{mean} < 35 \text{ Gy}$ $V_{30} < 30 \%$ $V_{45} < 35 \%$
Esophagus	$V_{45} < 33 \%$
Spinal cord	$D_{max} < 45 \text{ Gy}$

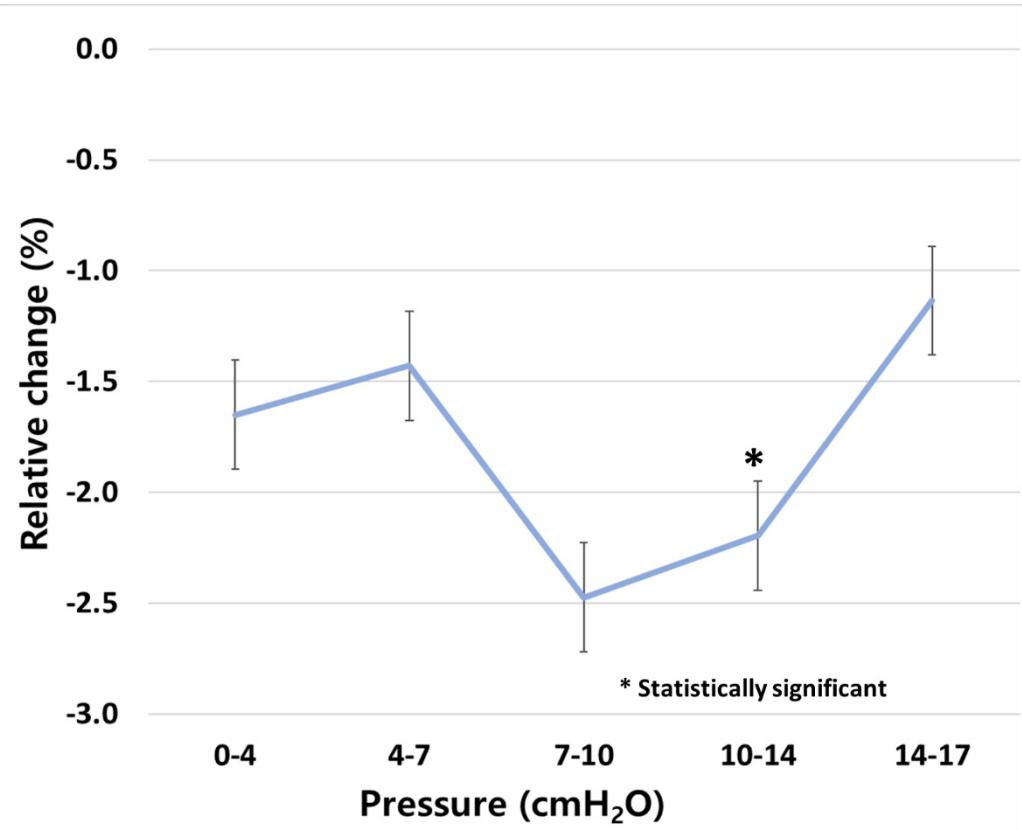
A1



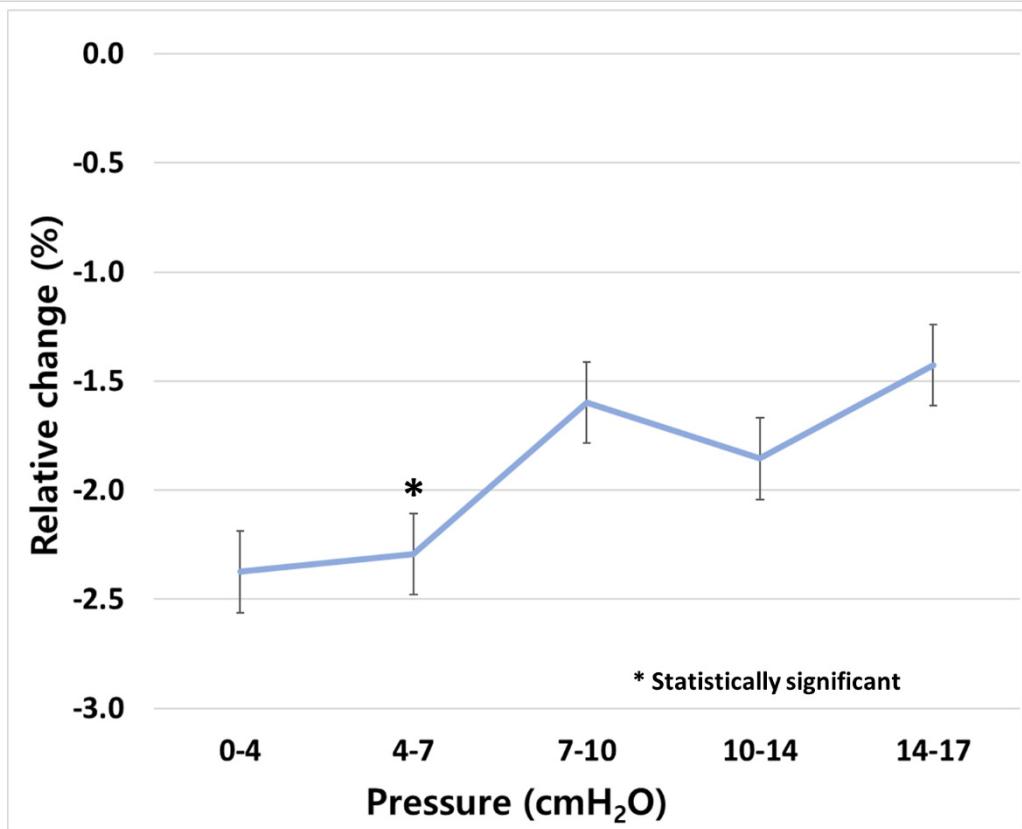
A2



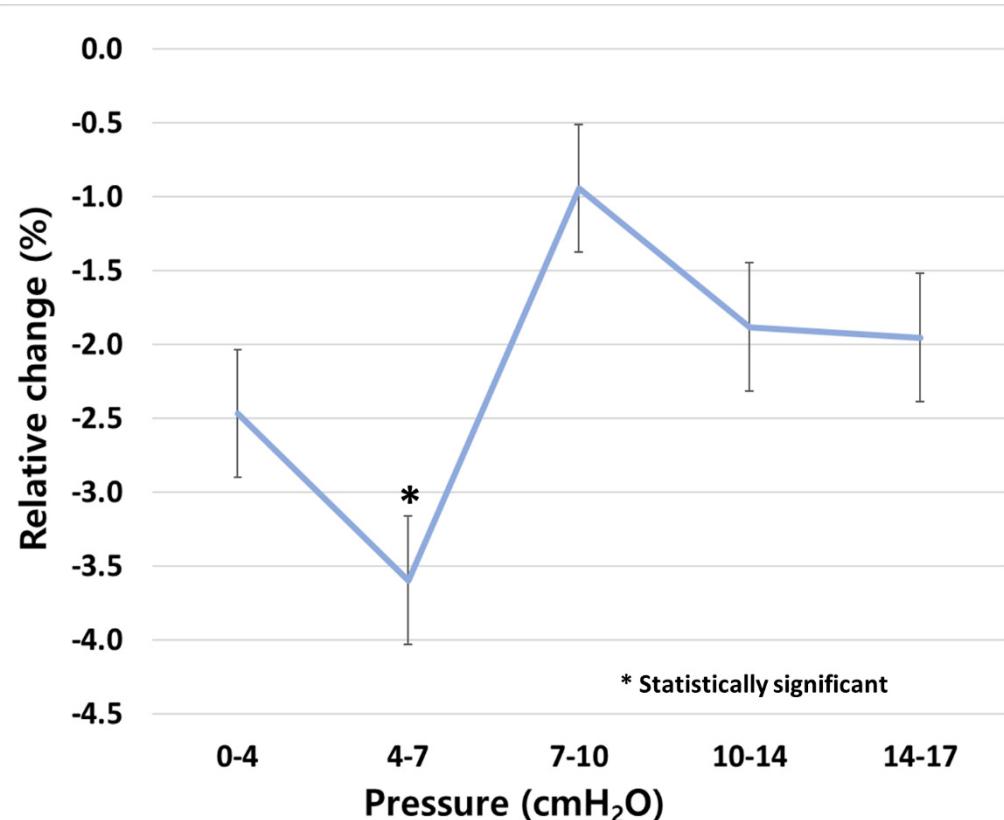
A3



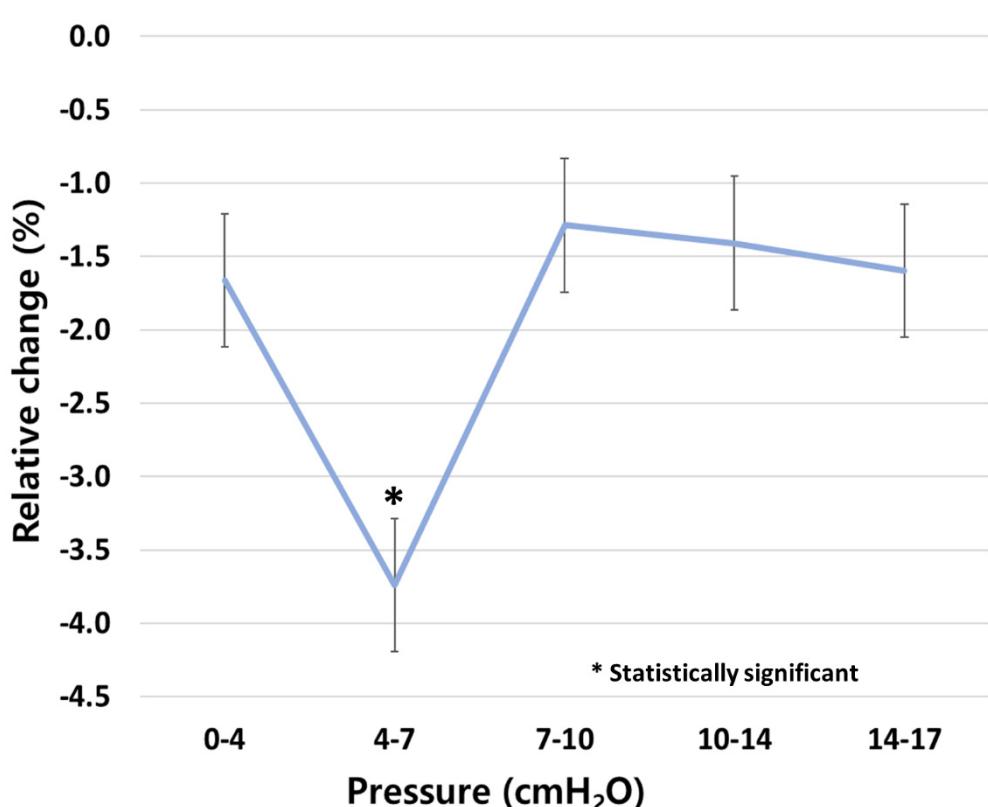
A4



A5

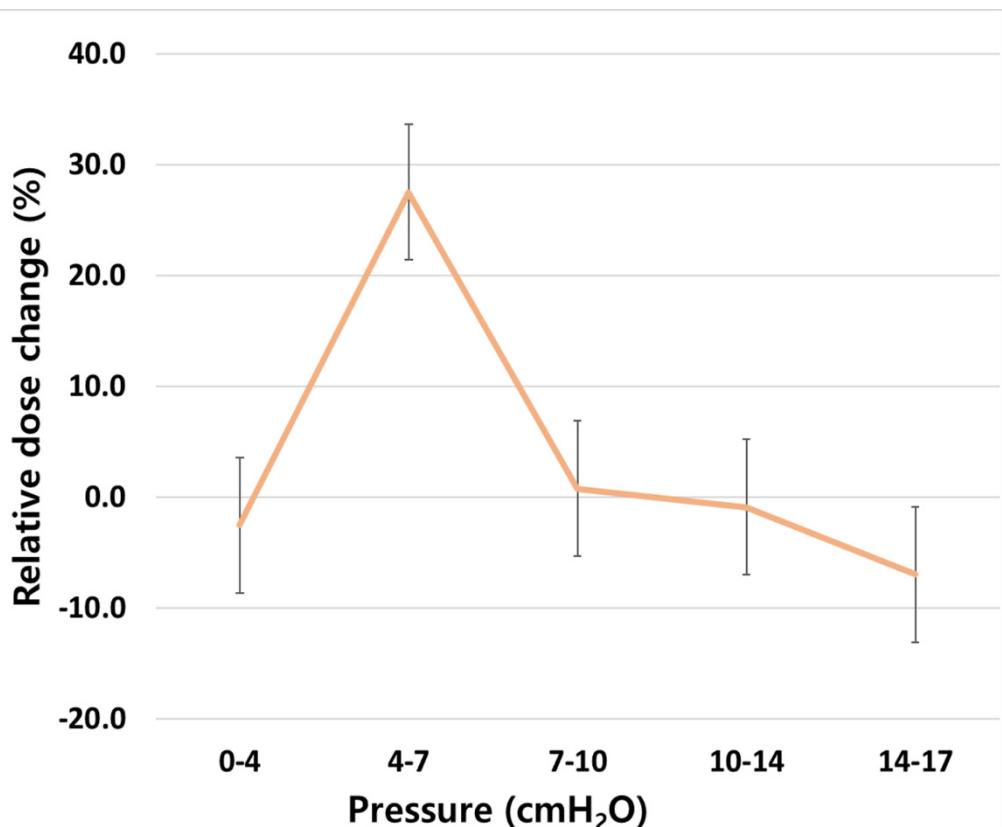


A6

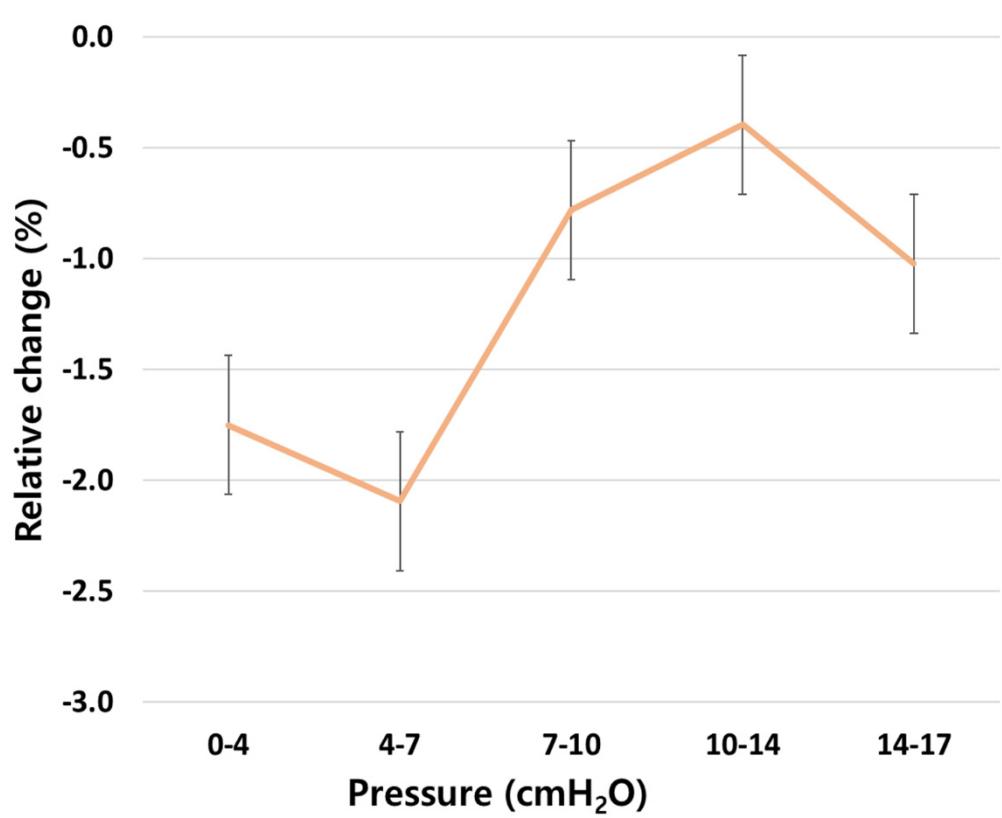


**Figure S1.** Lung volume and dose parameter change between interpressure; (1) volume, (2) D<sub>mean</sub>, (3) V5, (4) V10, (5) V15, and (6) V20.

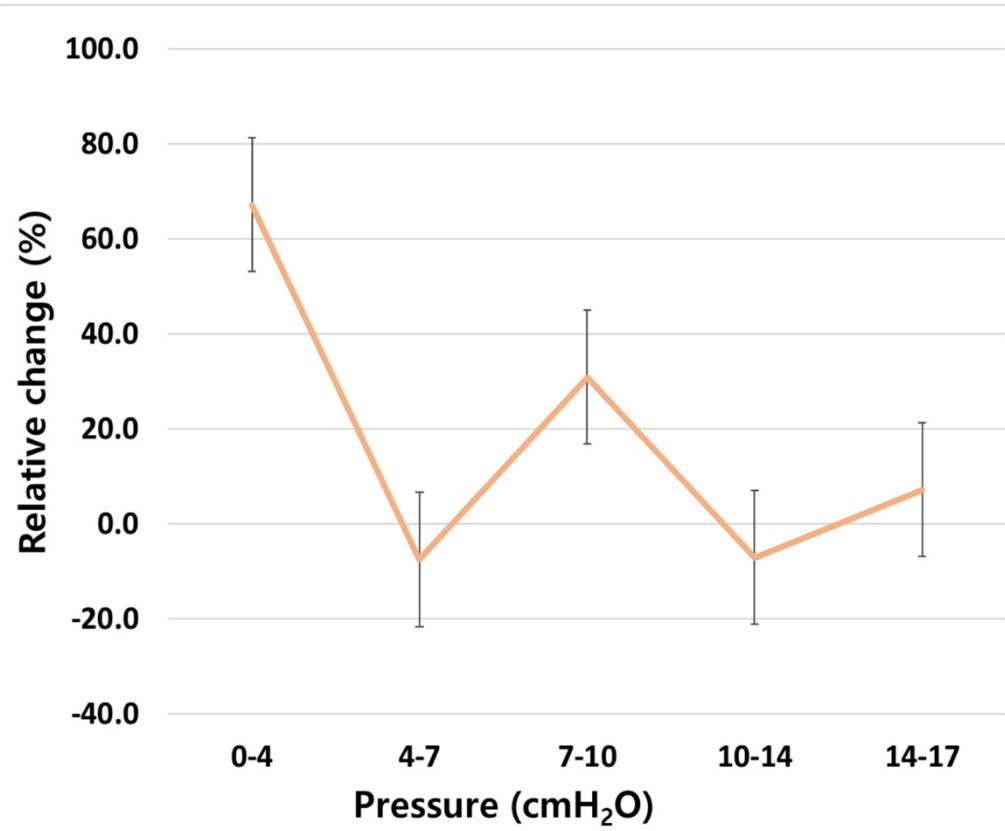
**B1**



**B2**



**B3**



**Figure S2.** Heart dose parameter change between interpressure; (1)  $D_{mean}$ , (2) V5, and (3) V50.