**Supplemental Digital Content 7.** Fractions of recruited and de-recruited voxels measured (% of lung weight) when comparing warped prone to supine inspiratory images obtained at healthy baseline and after injury, at both PEEP 5 and 10 cmH2O.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | ***End-inspiratory*** | | | | | |
|  | ***Recruitment*** | | | ***Derecruitment*** | | |
| ***Healthy PEEP5*** | 5.9% | ± | 2.8% | 1.3% | ± | 0.5% |
| ***Healthy PEEP10*** | 4.9% | ± | 3.3% | 1.0% | ± | 0.3% |
| ***Injury PEEP5*** | 11.4% | ± | 6.7% | 1.8% | ± | 0.7% |
| ***Injury PEEP10*** | 8.9% | ± | 2.8% | 1.4% | ± | 0.6% |