**Supplementary material 3.** Lung recruitment

Lung recruitment in response to positive end-expiratory pressure (PEEP) variation. The patient is in semi-recumbent position under invasive mechanical ventilation. The probe is placed between the third and fourth ribs, parallelly oriented to third intercostal space, on the right hemithorax. At baseline, with a PEEP of 7 cmH2O, a subpleural consolidation along with multiple confluent B lines is captured. Following the modification of PEEP at 14 cmH2O, the number of B lines drastically diminishes and lung consolidation reduces to a thickened pleural line.