**Supporting Information**

**Mechanical ventilation with room air is feasible in a moderate Acute Respiratory Distress Syndrome pig model - implications for disaster situations and low-income nations**

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**Figure S1**: A typical pig’s vital signs, during and following OA infusion.

**Figure S2**: Pig 1 - The collected vital signs at the pre experimental time, followed by the 60 min experimental period.

**Figure S3**: Pig 2 - The collected vital signs at the pre experimental time, followed by the 60 min experimental period.

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**Figure S12**: Pig 11 - The collected vital signs at the pre experimental time, followed by the 60 min experimental period.

**Figure S13**: Pig 12 - The collected vital signs at the pre experimental time, followed by the 60 min experimental period.

**Figure S14**: Pig 13 - The collected vital signs at the pre experimental time, followed by the 60 min experimental period.

**Figure S15**: Pig 14 - The collected vital signs at the pre experimental time, followed by the 60 min experimental period.

**Figure S16**: Pig 15 - The collected vital signs at the pre experimental time, followed by the 60 min experimental period.

**Figure S17**: Pig 16 - The collected vital signs at the pre experimental time, followed by the 60 min experimental period.

**Figure S18**: Pig 17 - The collected vital signs at the pre experimental time, followed by the 60 min experimental period. Due to a technical problem during the ARDS induction, The % FiO2 drop to 21% for ~6 min but it considered as minor effect and the animal was not excluded from the experiment.

**Table S1**: mean PaO2/FiO2 ratio(N=17)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | End of OA infusion | 45 minutes after OA infusion  (t=0 min) | Experiment  (t=30 min) | End of experiment  (t=60 min) |
| mean | 169.4 | 162.8 | 236.9 | 247.5 |
| SD | 42.2 | 34.4 | 41.4 | 58.6 |

**Figure S19**: Mean changes in SpO2 with changes in PEEP and the mean O2 percentage, at the 3 pig that that did not kept their SpO2 above 80 without increasing their FiO2.

FiO2 0.21-0.5

FiO2 0.40

FiO2 0.21-0.5

FiO2 0.40