In Individualized positive end-expiratory pressure and regional gas exchange in porcine lung injury

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**Supplemental Digital Content 9 – Lung injury model stability**

To ensure stability of our lung injury model to and exclude time effects during the prolonged period of SPECT measurements stability checks were performed at the any SPECT measurement point as described above (PEEP study protocol at the SPECT laboratory). These checks were performed right before the measurement points at the SPECT scanner. Before the respective PEEP level was set and maintained for stabilization before SPECT measurements, a standardized PEEP (that was identical to the table PEEP) was applied and oxygenation was measured by blood gases. These checks showed that lung injury was stable over time and gas exchange was independent from the investigation sequence (table S2).

## *Table S2*

|  |  |  |  |
| --- | --- | --- | --- |
| Stability check | before SPECT measurement point 1 | before SPECT measurement point 2 | before SPECT measurement point 3 |
| PaO2 [mmHg] | 81 ± 19 | 87 ± 32 | 90 ± 29 |
| PaO2 / FiO2 [mmHg] | 135 ± 31 | 144 ± 48 | 147 ± 47 |
|  |
| Stability check  | before “table-PEEP” | before “OXmax-PEEP” | before “TRmin-PEEP” |
| PaO2 [mmHg] | 88 ± 32 | 82 ± 18 | 88 ± 29 |
| PaO2 / FiO2 [mmHg] | 142 ± 42 | 139 ± 45 | 145 ± 44 |

PaO2 arterial partial pressure of oxygen, PaO2/FiO2 Horowitz index, for stability check, upper rows: with respect to time point of measurement, lower rows: with respect to PEEP strategy; repeated measures ANOVA: no time effect, no inter-group effect, no interaction, respectively.