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

Muders T, Luepschen H, Meier T, Reske A, Zinserling J, Kreyer S, Pikkemaat R, Maripuu E, Leonhardt S, Hedenstierna G, Putensen C, and Wrigge H

**Supplemental Digital Content 10 – Randomization effects**

In a cross-over design comparing three different conditions the following six [=n\*(n-1)] investigation sequences are possible:

* Table-PEEP – OXmax-PEEP – TRmin-PEEP
* Table-PEEP – TRmin-PEEP – OXmax-PEEP
* OXmax-PEEP – TRmin-PEEP - Table-PEEP
* OXmax-PEEP - Table-PEEP – TRmin-PEEP
* TRmin-PEEP - Table-PEEP – OXmax-PEEP
* TRmin-PEEP - OXmax-PEEP – Table-PEEP

To balance for possible carry over effects animals were randomized in blocks of six animals to one of the possible investigation sequences using sealed envelopes. This procedure ensured a homogeneous distribution of the three PEEP-settings to all three sequence positions as demonstrated in the following table S2.

## *Table S3*

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table-PEEP | TRmin-PEEP | OXmax-PEEP |
| position 1 | 4 times | 5 times | 5 times |
| position 2 | 5 times | 4 times | 5 times |
| position 3 | 5 times | 5 times | 4 times |

Position frequency of each PEEP strategy within the cross over measurement