

Supplementary Materials:

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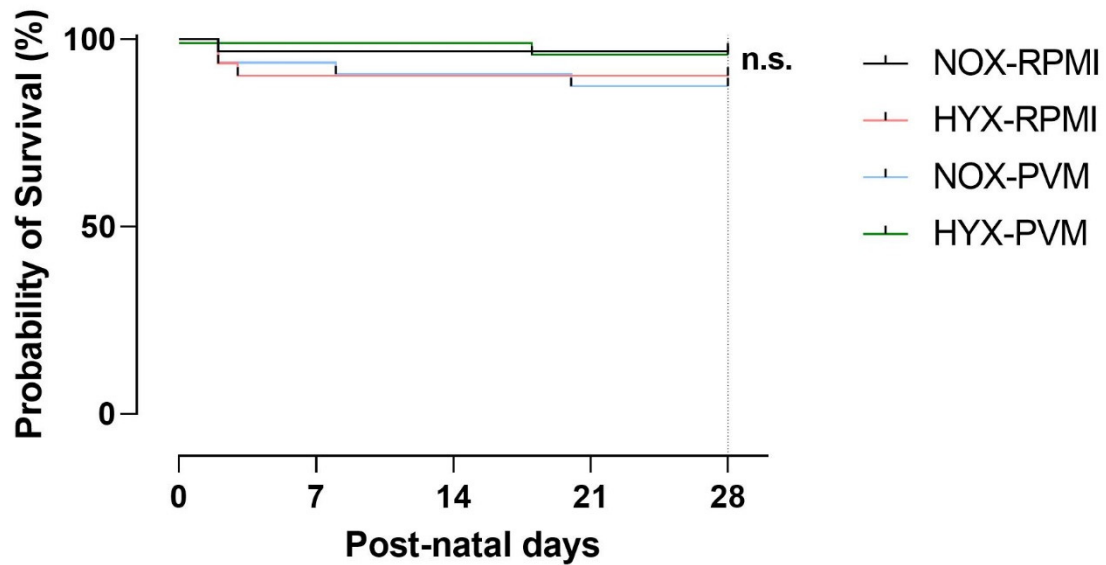
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Table S1. Amplification of the *Sh*-gene 7 days after intranasal inoculation with the pneumonia virus of mice

	PVM 1:500 (N=10)	PVM 1:1000 (N=8)	PVM 1:2000 (N=10)	RPMI (N=5)
ΔC_t^a , median [IQR]	-10.3 [-14.5 – -6.1]	-10.4 [-15.3 – -3.7]	-10.6 [-13.1 – -4.0]	N/A ^b

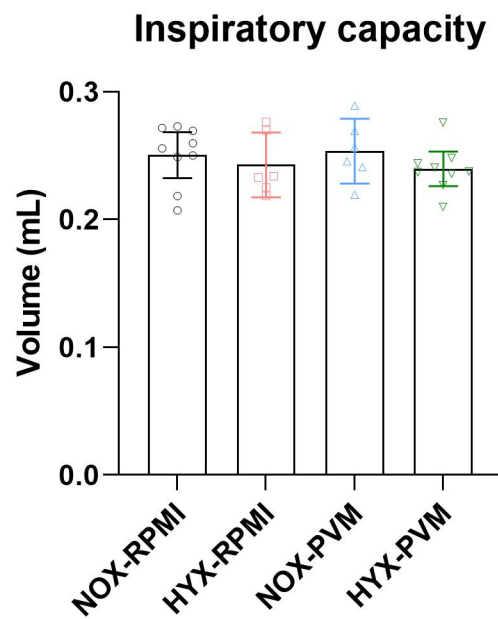
Table S1. Amplification of the pneumonia virus of mice *Sh*-gene 7 days after intranasal inoculation with varying doses (dilution of PVM stock in RPMI is shown). a, ΔC_t is calculated based on the *POLR2A* housekeeping-gene; b, *sh*-gene specific amplification could not be detected in RPMI controls. PVM, pneumonia virus of mice; N, number of mice; IQR, interquartile range.

Figure S1. Semi-survival of mice up to post-natal day 28 when end-point outcomes were assessed for the different experimental conditions



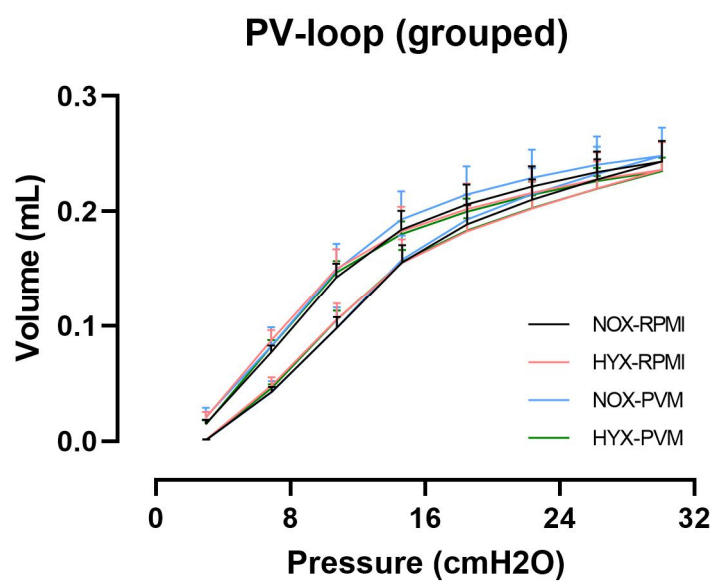
Semi-survival of mice up to post-natal day 28 when end-point outcomes were assessed for the different experimental conditions: RPMI non-infected controls and PVM-infected mice with either normoxia exposure (NOX: 21% O₂) or hyperoxia exposure (HYX: 85% O₂). Difference in survival was assessed by log-rank test. NOX-RPMI (N=30), HYX-RPMI (N=28), NOX-PVM (N=28), HYX-PVM (N=31). Survival curves indicate mice that were found dead in the cage, or mice that were cannibalized by mothers. Under animal ethics guidelines, mice would have been euthanized when scored for distress or lack of condition. However, no mice were scored as being in distress or in poor condition before being found dead.

Figure S2. Inspiratory capacity for the different experimental conditions



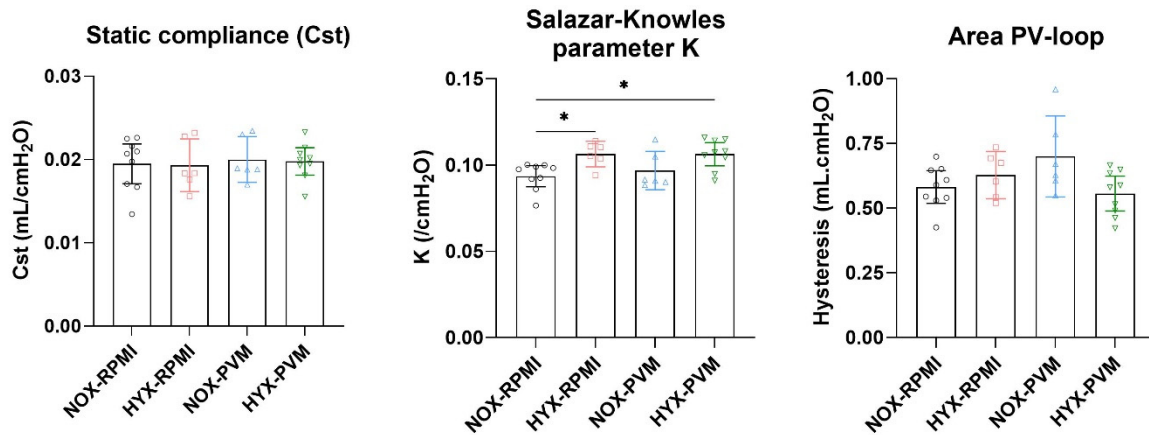
Inspiratory capacity for the different experimental conditions: RPMI non-infected controls and PVM-infected mice with either normoxia exposure (NOX: 21% O₂) or hyperoxia exposure (HYX: 85% O₂). Mean with corresponding 95% confidence interval are shown. NOX-RPMI (N=9), HYX-RPMI (N=6), NOX-PVM (N=6), HYX-PVM (N=9).

Figure S3. Pressure-driven pressure volume loops for the different experimental conditions



Pressure-driven pressure volume loops for the different experimental conditions: RPMI non-infected controls and PVM-infected mice with either normoxia exposure (NOX: 21% O₂) or hyperoxia exposure (HYX: 85% O₂). Mean with corresponding 95% confidence interval are shown. NOX-RPMI (N=9), HYX-RPMI (N=6), NOX-PVM (N=6), HYX-PVM (N=9).

Figure S4. Static compliance (Cst), Salazar-Knowles parameter K (K) and area of pressure volume loops (Hysteresis) derived from the pressure-driven pressure volume loops for the different experimental conditions



Static compliance (Cst), Salazar-Knowles parameter K (K) and area of pressure volume loops (Hysteresis) derived from the pressure-driven pressure volume loops for the different experimental conditions: RPMI non-infected controls and PVM-infected mice with either normoxia exposure (NOX: 21% O₂) or hyperoxia exposure (HYX: 85% O₂). Mean with corresponding 95% confidence interval are shown. NOX-RPMI (N=9), HYX-RPMI (N=6), NOX-PVM (N=6), HYX-PVM (N=9). *, $P < .05$.