

ONLINE SUPPLEMENT

RNASeq Analysis of CD4⁺ T Cells Exposed to Airway Fluid from Children with Pediatric Acute Respiratory Distress Syndrome

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Supplemental Figure 1. Flow diagram of participant tracheal aspirate airway fluid samples used in the CD4⁺ T cell donor transcriptomic reporter assay. QC = quality control.

Supplemental Figure 2. Volcano plots of differentially expressed genes (A) and pathway analysis (B) from viral versus non-viral triggered pediatric acute respiratory distress syndrome (PARDS). Each circle is a gene. Blue circles represent downregulated genes that have at least a 2-fold change with a false discovery rate of < 0.05. Red circles represent upregulated genes that have at least a 2-fold change with a false discovery rate of < 0.05. Dashed lines indicate the x-axis threshold of $|\log_2[\text{fold change}]| > 1$ and the y-axis threshold of $\log_{10}[p\text{-value}] < 0.05$.

Supplemental Digital Content E1 (E1_mildcontrol_down.csv). Differentially expressed genes (DEGs), downregulated, mild PARDS versus control patients.

Supplemental Digital Content E2 (E2_mildcontrol_up.csv). DEGs, upregulated, mild PARDS versus control patients.

Supplemental Digital Content E3 (E3_severecontrol_down.csv). DEGs, downregulated, severe PARDS versus control patients.

Supplemental Digital Content E4 (E4_severecontrol_up.csv). DEGs, upregulated, severe PARDS versus control patients.

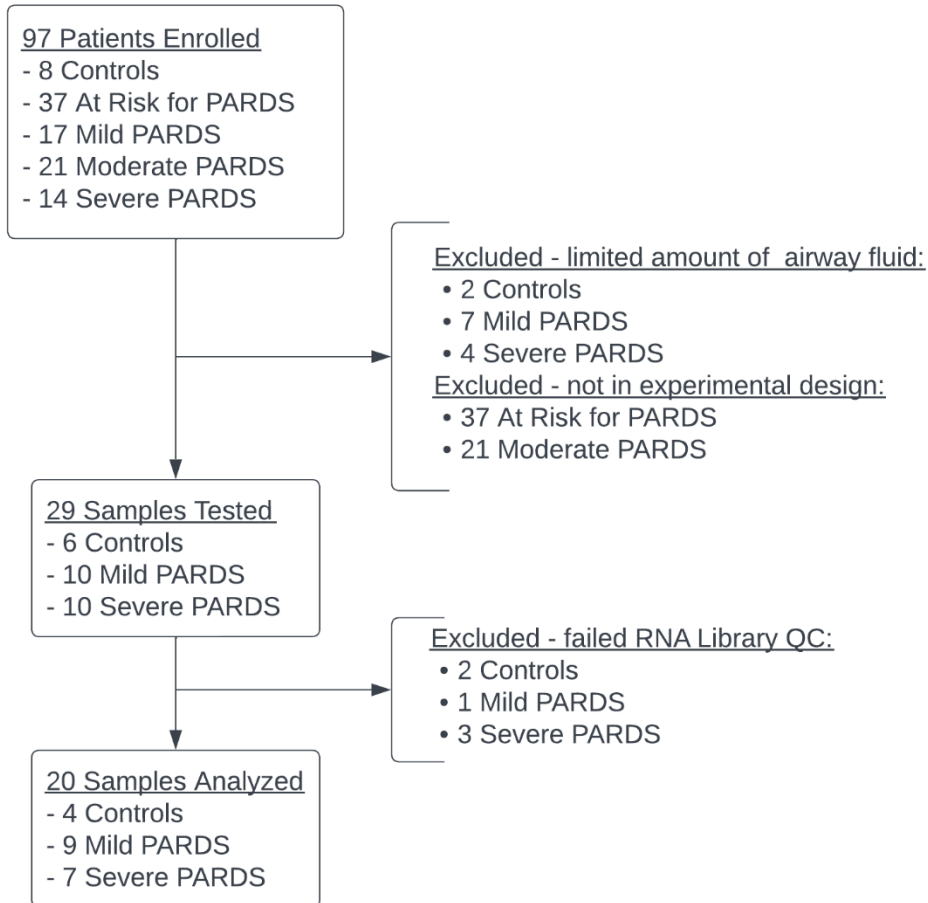
Supplemental Digital Content E5 (E5_severemild_down.csv). DEGs, downregulated, severe PARDS versus mild PARDS patients.

Supplemental Digital Content E6 (E6_severemild_up.csv). DEGs, upregulated, severe PARDS versus mild PARDS patients.

Supplemental Digital Content E7 (E7_severemild_down_reactome.csv). Reactome significantly enriched functional networks, severe PARDS versus mild PARDS patients.

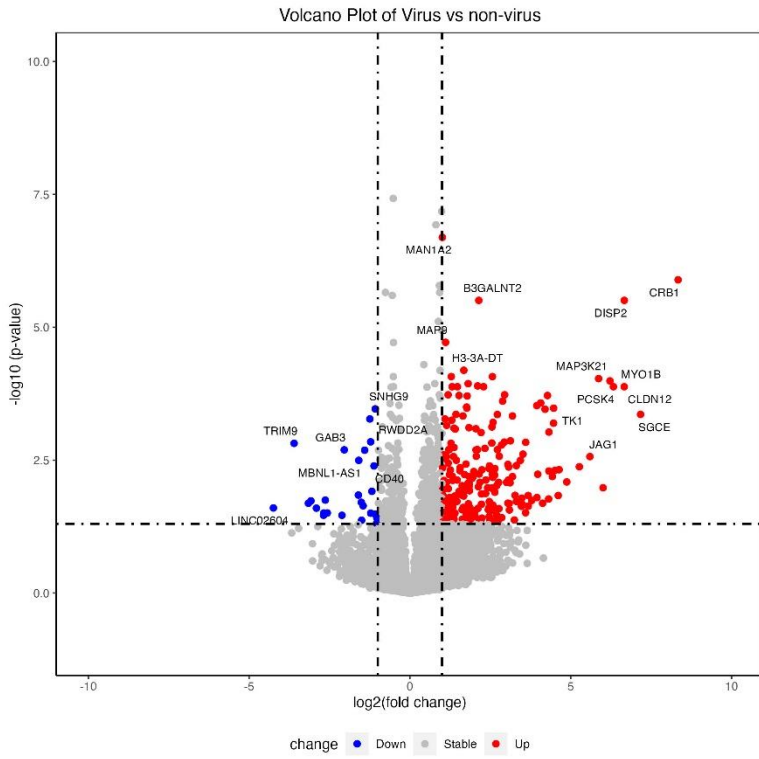
Supplemental Digital Content E8 (E8_severecontrol_down_reactome.csv). Reactome, significantly enriched functional networks, severe PARDS versus control patients.

Supplemental Figure 1.



Supplemental Figure 2.

A.



B.

