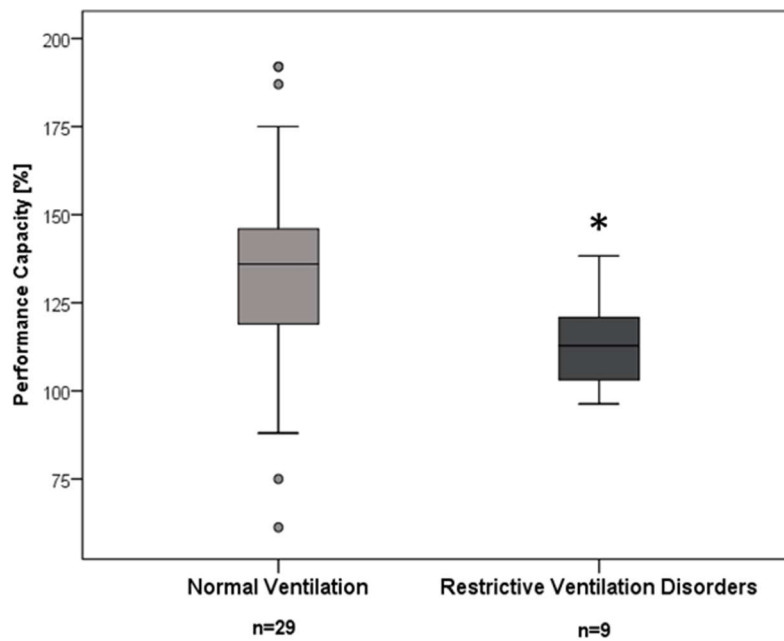


Supplements



Supplement 1: Relative performance capacity [%] in participants (n=38) with and without restrictive ventilation disorders (*...p=0.029). Restrictive ventilations disorders occurred only in the EA patient group.

	normal n=13	Tracheomalacia n=6	p-value
VC _{max}	70.9 ± 11.6	77.3 ± 21.5	0.416
Tiffeneau-Index	83.0 ± 6.7	80.0 ± 8.4	0.521
Performance Capacity	116.1 ± 20.5	110.7 ± 27.7	0.898
peak VO ₂	35.6 ± 7.5	41.6 ± 9.9	0.179
O ₂ /HR	11.7 ± 2.7	14.2 ± 4.5	0.323
EQO ₂	21.5 ± 2.1	21.2 ± 1.4	0.966

VC_{max}...maximum vital capacity; peak VO₂...peak oxygen uptake; O₂/HR...oxygen pulse;
EQO₂...respiratory equivalent for oxygen

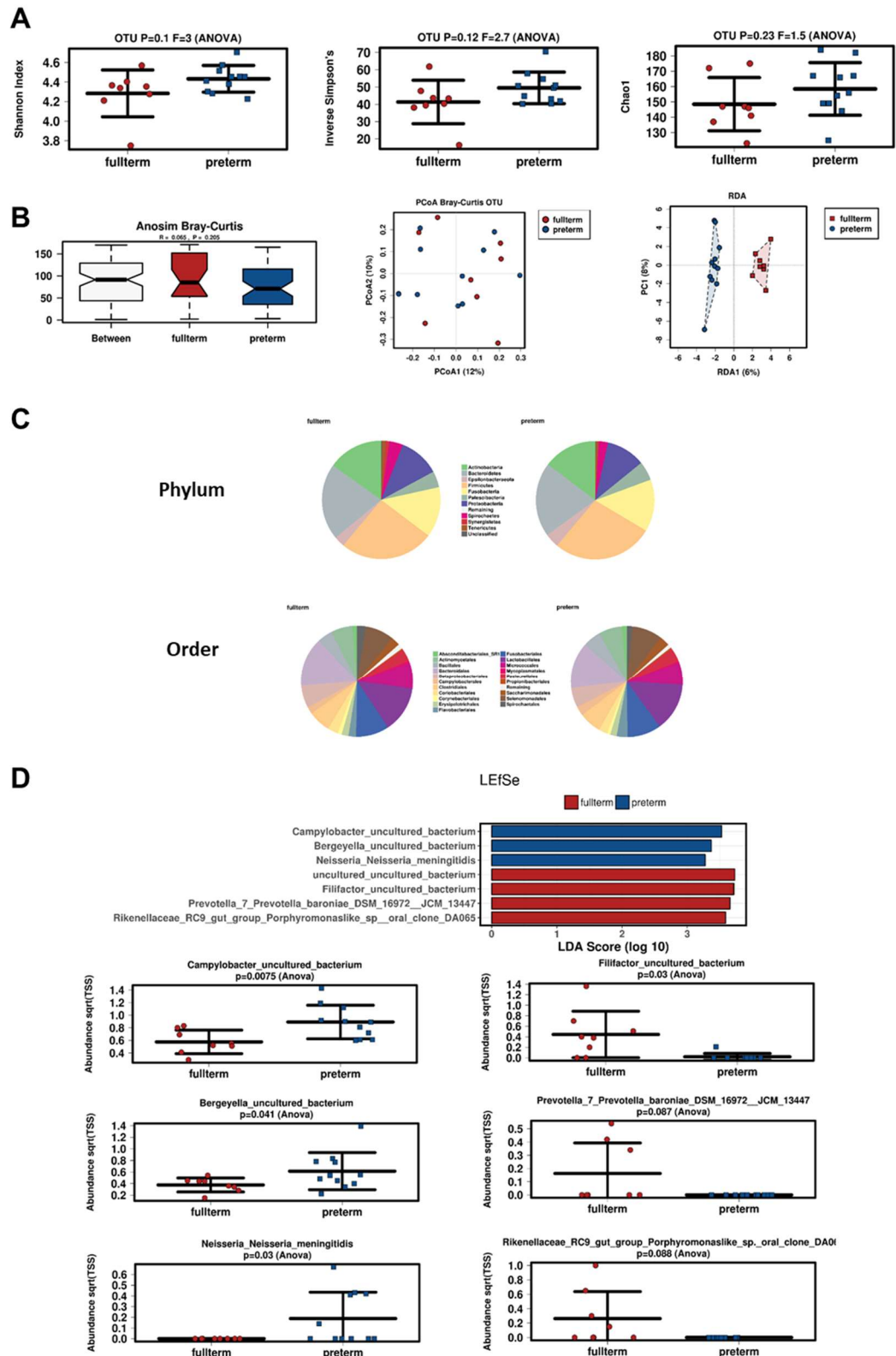
Supplement 2: Spirometry and spiroergometry results in EA patients with and without tracheomalacia. Mann-Whitney-U tests were used to calculate statistical significances. Data are displayed as mean ± standard deviation.

	EA full-term n=8	EA preterm n=11	p-value
VC _{max}	79.6 ± 10.2	69.6 ± 17.8	0.238
Tiffeneau-index	81.0 ± 7.3	82.8 ± 7.3	0.492
Performance capacity	120.2 ± 24.6	110.2 ± 20.7	0.310
peak VO ₂	38.5 ± 9.9	36.7 ± 7.9	0.968
O ₂ /HR	13.7 ± 4.1	11.7 ± 2.8	0.351
EQO ₂	21.6 ± 2.3	21.3 ± 1.5	1.000

VC_{max}...maximum vital capacity; peak VO₂...peak oxygen uptake; O₂/HR...oxygen pulse;

EQO₂...respiratory equivalent for oxygen

Supplement 3: Spirometry and spiroergometry results in full-term and preterm EA patients. Mann-Whitney-U tests were used to calculate statistical significances. Data are displayed as mean ± standard deviation



Supplement 5: Microbiome analysis of EA/TEF patients born full-term ($n=8$) and preterm ($n=11$). Parameters of alpha diversity (A), beta diversity (B; $p=0.274$ for the RDA analysis), relative abundance (C) at the phylum and order level and results of LEfSe subgroup analysis (D). Only parameters with $p<0.1$ in the LEfSe analysis are displayed as strip charts.