

Table 2 Ventilator parameters and measurement values of dead-space

Parameter	severe or moderate ARDS (32 samples)	mild ARDS (46 samples)	non ARDS (100 samples)	Kruskal test
Days of measurement	2 (1-5)	2 (1-4)	2 (1-4)	N.S.
P/F ratio, mmHg	151 (126 -180) *	256 (233 -280) *	429 (360 -475)	p < 0.001
V _T /kg, mL/kg	5.2 (4.5 -5.4)	5.2 (5.0 -5.9)	5.0 (4.5 -5.4)	N.S.
PaCO ₂	47.7 (41.5 -56.3) *	43.3 (39.3 -47.5)	42 (38.8 -45.6)	p < 0.01
P _{ET} CO ₂	31.8 (27.5 -36.5) *	35.9 (31.2 -40.6)	37.4 (33.7 -40.7)	p < 0.01
P _A CO ₂	31.1 (26.5 -36.0) *	34.1 (28.9 -37.7)	35.3 (32.5 -38.9)	p < 0.01
V _{d,Bohr} /kg, mL/kg	1.9 (1.5 -2.2)	1.8 (1.3 -2.5)	1.7 (1.3 -2.3)	N.S.
V _{d,Bohr} /V _T	0.40 (0.26 -0.46)	0.34 (0.26 -0.45)	0.34 (0.26 -0.45)	N.S.
V _{d,Enghoff} /kg, mL/kg	2.9 (2.5 -3.6) *	2.7 (2.2 -3.3) *	2.2 (1.7 -2.7)	p < 0.001
V _{d,Enghoff} /V _T	0.60 (0.49 -0.68) *	0.50 (0.43 -0.59)	0.45 (0.36 -0.56)	p < 0.001
Difference of V _{d,Enghoff} /V _T and V _{d,Bohr} /V _T	0.23 (0.15 -0.30) *	0.14 (0.09 -0.21) *	0.09 (0.06 -0.13)	p < 0.001

The following are the list of abbreviations used in the above table along with their full terms: ARDS, acute respiratory distress syndrome; V_{d,Bohr}, Bohr dead space; V_{d,Enghoff}, Enghoff dead space; P_ACO₂, partial pressure of alveolar carbon dioxide; P_{ET}CO₂, partial pressure of end-expiratory carbon dioxide; PaCO₂,

partial pressure of carbon dioxide; P/F ratio, ratio of partial pressure of oxygen to fraction of inspired oxygen; V_T , tidal volume. Values are represented as medians (interquartile ranges). We used Kruskal–Wallis test to investigate the differences in the measurements of the three groups. Asterisks (*) indicate statistically significant differences between each ARDS groups and non-ARDS group on Bonferroni post hoc tests.