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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Data START** | **Extubation Success** | | | | | | | |
|  | Missing | Mean | Median | Std. Deviation | Minimum | Maximum | IQ25 | IQ75 |
| sumA | 0 | 6.841 | 8 | 2.781 | 0 | 12 | 5 | 9 |
| sumB1 | 0 | 2.522 | 3 | 1.673 | 0 | 8 | 1 | 4 |
| sumB2 | 0 | 0.563 | 0 | 1.042 | 0 | 5 | 0 | 1 |
| sumC | 0 | 2.061 | 1 | 2.375 | 0 | 9 | 0 | 3 |
| Mean D | 3 | 18.443 | 19 | 6.423 | 4 | 32 | 13.801 | 23 |
| E | 0 | 86.311 | 88 | 14.762 | 47 | 130 | 76 | 98 |
| A | 2 | 75.662 | 73.402 | 18.831 | 36 | 150 | 61 | 85 |
| Ea | 1 | 12.604 | 12 | 3.442 | 5 | 26 | 10 | 14.782 |
| VTI | 1 | 19.865 | 20 | 4.841 | 10 | 35 | 17 | 22 |
| FE | 0 | 0.702 | 1 | 0.464 | 0 | 1 | 0 | 1 |
| E/A | 2 | 1.301 | 1.141 | 0.952 | 0.642 | 8 | 0.998 | 1.312 |
| E/Ea | 1 | 7.304 | 7.042 | 2.392 | 3.503 | 24 | 5.882 | 8.382 |
| Vte | 1 | 536.601 | 536.503 | 125.271 | 320 | 1179 | 456 | 576.751 |
| FR | 0 | 19.632 | 20 | 5.042 | 10 | 34 | 16 | 23 |
| pH | 1 | 7.451 | 7.451 | 0.041 | 7.355 | 7.562 | 7.423 | 7.475 |
| PaCO2 | 1 | 38.311 | 38 | 5.622 | 25 | 55 | 34 | 41 |
| PAs | 0 | 134.273 | 135 | 15.012 | 93 | 168 | 125 | 145 |
| PAd | 0 | 66.394 | 67 | 11.083 | 42 | 105 | 58 | 73 |
| PAm | 0 | 84.492 | 82 | 14.384 | 55 | 125 | 73 | 94 |
| FC | 0 | 91.151 | 90 | 12.082 | 62 | 114 | 82 | 100 |
| PF | 1 | 253.965 | 252.253 | 61.221 | 0 | 436.673 | 222.113 | 285.711 |

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| **Data START** | | **Postextubation distress** | | | | | | | **Success vs. Failure** |
|  | Missing | Mean | Median | Std. Deviation | Minimum | Maximum | IQ25 | IQ75 | p value |
| sumA | 0 | 2.221 | 2 | 1.422 | 0 | 7 | 1 | 3 | 0.001\* |
| sumB1 | 0 | 3.362 | 3 | 2.092 | 0 | 8 | 2 | 4.751 | 0.050\* |
| sumB2 | 0 | 3.610 | 3 | 2.091 | 0 | 8 | 2 | 5 | 0.002\* |
| sumC | 0 | 2.814 | 2 | 2.363 | 0 | 7 | 1 | 5 | 0.054\* |
| Mean D | 1 | 15.552 | 14.502 | 8.121 | 0 | 36.101 | 11.504 | 20.653 | 0.042\* |
| E | 0 | 88.231 | 90 | 14.744 | 59 | 113 | 79.552 | 97.751 | 0.301 |
| A | 0 | 62.391 | 65 | 27 | 15 | 100 | 35 | 88.502 | 0.041\* |
| Ea | 0 | 10.660 | 11 | 3.822 | 4 | 18.202 | 6.251 | 13.911 | 0.033\* |
| VTI | 0 | 17.553 | 18 | 3.202 | 10 | 22.501 | 15.132 | 20 | 0.012\* |
| FE | 1 | 0.632 | 1 | 0.491 | 0 | 1 | 0 | 1 | 0.422 |
| E/A | 0 | 1.763 | 1.273 | 0.911 | 0.832 | 4 | 1.065 | 2.382 | 0.014\* |
| E/Ea | 0 | 9.434 | 8.454 | 4.124 | 3.631 | 24 | 6.452 | 10.662 | 0.001\* |
| Vte | 0 | 500.972 | 480.502 | 109.901 | 323 | 770 | 425 | 581.752 | 0.104 |
| FR | 0 | 22.975 | 23 | 5.902 | 13 | 34 | 18 | 27 | 0.002\* |
| pH | 0 | 7.422 | 7.443 | 0.084 | 7.283 | 7.552 | 7.372 | 7.471 | 0.091 |
| PaCO2 | 0 | 40.432 | 40.502 | 6.363 | 24 | 52 | 36.251 | 45 | 0.044\* |
| PAs | 0 | 138.811 | 138 | 19.512 | 95.002 | 179 | 122 | 158 | 0.241 |
| PAd | 0 | 68.390 | 67.502 | 10.391 | 45 | 92 | 61.252 | 73 | 0.282 |
| PAm | 0 | 87.504 | 91 | 16.172 | 60 | 119 | 70.502 | 100.754 | 0.421 |
| FC | 0 | 94.975 | 96 | 15.57 | 58 | 134 | 82.751 | 100.752 | 0.205 |
| P/F | 0 | 258.202 | 237.072 | 63.003 | 162.503 | 377.142 | 213.504 | 289.171 | 0.842 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Data END** | **Extubation Success** | | | | | | | |
|  | Missing | Mean | Median | Std. Deviation | Minimum | Maximum | IQ25 | IQ75 |
| sumA | 0 | 6.70 | 7.00 | 3.12 | 0 | 12 | 4 | 9 |
| sumB1 | 0 | 2.48 | 2.00 | 1.61 | 0 | 7 | 1 | 3 |
| sumB2 | 1 | 0.62 | 0.00 | 1.22 | 0 | 8 | 0 | 1 |
| sumC | 0 | 2.21 | 1.00 | 2.62 | 0 | 10 | 0 | 4 |
| Mean D | 4 | 18.07 | 19.00 | 6.08 | 4.253 | 32 | 13 | 22 |
| E | 0 | 85.69 | 87.00 | 14.59 | 46 | 130 | 76.503 | 96.303 |
| A | 1 | 77.97 | 78.00 | 18.47 | 40 | 150 | 67.852 | 88.754 |
| Ea | 1 | 12.90 | 12.00 | 3.50 | 5 | 26 | 10 | 15 |
| VTI | 1 | 19.84 | 20.00 | 4.45 | 9 | 35 | 17 | 22 |
| FE | 0 | 0.70 | 1.00 | 0.46 | 0 | 1 | 0 | 1 |
| E/A | 1 | 1.20 | 1.08 | 0.71 | 0.662 | 8 | 0.902 | 1.242 |
| E/Ee | 0 | 7.08 | 6.78 | 2.39 | 3.503 | 24 | 5.791 | 8.141 |
| Vte | 9 | 515.58 | 520.00 | 84.99 | 319 | 880 | 456 | 562 |
| FR | 0 | 21.28 | 21.00 | 5.67 | 10 | 34 | 17 | 26 |
| pH | 2 | 7.45 | 7.45 | 0.04 | 7.321 | 7.562 | 7.421 | 7.474 |
| PaCO2 | 2 | 38.68 | 38.70 | 5.43 | 26 | 55 | 35 | 42 |
| PAs | 0 | 136.93 | 135.00 | 15.96 | 94 | 181 | 126 | 148.502 |
| PAd | 0 | 65.39 | 67.00 | 12.95 | 38 | 105 | 56 | 73 |
| PAm | 0 | 84.06 | 81.00 | 16.42 | 55 | 127 | 71 | 96.504 |
| FC | 0 | 92.01 | 90.00 | 13.27 | 60 | 127 | 82 | 100 |
| P/F | 2 | 267.87 | 257.00 | 76.02 | 0 | 486.673 | 223.334 | 325.202 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Data END** | **Postextubation distress** | | | | | | | | **Success vs. Distress** | | |
|  | Missing | Mean | Median | Std. Deviation | Minimum | Maximum | IQ25 | IQ75 | | p value |
| sumA | 0 | 1.224 | 1 | 1.311 | 0 | 6 | 0 | 2 | | 0.003\* |
| sumB1 | 0 | 3.141 | 3 | 1.914 | 0 | 7 | 2 | 4.752 | | 0.071 |
| sumB2 | 0 | 4.562 | 5 | 2.382 | 0 | 9 | 2.252 | 6 | | 0.002\* |
| sumC | 0 | 3.081 | 3 | 2.331 | 0 | 9 | 1 | 4.751 | | 0.014\* |
| moyDiaph | 2 | 15.914 | 16.501 | 7.191 | 0 | 37.102 | 11.933 | 19.633 | | 0.068 |
| E | 1 | 87.334 | 90 | 15.121 | 59 | 113 | 78 | 98 | | 0.421 |
| A | 1 | 62.632 | 67 | 27.062 | 9 | 99 | 38 | 87 | | 0.019\* |
| e | 1 | 9.961 | 10 | 3.061 | 5 | 18 | 7 | 12 | | 0.007\* |
| VTI | 1 | 17.871 | 18 | 3.592 | 10 | 24 | 15.504 | 20 | | 0.032\* |
| FE | 1 | 0.631 | 1 | 0.491 | 0 | 1 | 0 | 1 | | 0.428 |
| EA | 1 | 1.833 | 1.222 | 1.312 | 0.852 | 6.562 | 1 | 2.055 | | 0.006\* |
| Ee | 1 | 9.422 | 9 | 2.821 | 5.322 | 17.802 | 7.804 | 11.142 | | 0.002\* |
| T0Vte | 2 | 475.502 | 466 | 88.563 | 320 | 650 | 420.752 | 529 | | 0.024\* |
| T0FR | 0 | 24.191 | 25 | 4.784 | 13.001 | 33 | 21.252 | 27 | | 0.017\* |
| T0pH | 1 | 7.442 | 7.442 | 0.053 | 7.221 | 7.551 | 7.411 | 7.472 | | 0.599 |
| T0PaCO2mmHg | 1 | 38.431 | 40.00 | 6.522 | 26 | 51 | 32 | 43 | | 0.833 |
| T0Pas | 0 | 141.862 | 141.501 | 12.984 | 119 | 165 | 132 | 151 | | 0.082 |
| T0PAd | 0 | 65.443 | 63 | 12.961 | 40 | 92 | 57.502 | 73 | | 0.881 |
| T0PAm | 0 | 85.172 | 82 | 16.902 | 59 | 119 | 69.252 | 99.753 | | 0.719 |
| T0FC | 0 | 95.941 | 96.502 | 17.523 | 61 | 134 | 84.251 | 102 | | 0.314 |
| T0PF | 1 | 277.301 | 273.334 | 67.121 | 165.712 | 484 | 227.504 | 323.331 | | 0.446 |

Supplemental Digital Content 6. **Clinical, biological and ultrasounds data**. Whole dataset (“START” and “END” session recordings) including missing data and range. Abbreviations: Vt, tidal volume; fR, respiratory frequency; PaCO2, arterial carbon dioxide tension; SAP, systolic arterial blood pressure; DAP, diastolic arterial blood pressure; MAP, mean arterial blood pressure; fC, cardiac frequency; PaO2/FiO2, arterial oxygen tension/inspiratory oxygen fraction; BNP, brain natriuretic peptide; SumA, number of lung quadrants with A profile; SumB1, number of lung quadrants with B1 profile; SumB2, number of lung quadrants with B2 profile; SumC, number of lung quadrants with C profile; mExcD, mean diaphragm excursion (left and right); E, E-wave velocity; A, A-wave velocity ; Ea, Ea-wave velocity; VTI, left ventricular outflow tract velocity time integral; FE, left ventricular ejection fraction; E/A, E/A ratio; E/Ea, E/Ea ratio; IQ interquartile