**Supplemental Data 11:** Consequences of extubation failure on morbidity-mortality in two sensitivity analyses. Exclusion of patients with late tracheostomy and post-extubation stridor.

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| --- | --- | --- | --- |
| Exclusion of patients with late tracheostomy N=40 | Extubation success  N=337 | Extubation failure  N=60 | *p* |
| Critical care withdrawal *N(%)* | 6 (1.8) | 4 (6.8) | 0.046\* |
| Duration of mechanical ventilation (days)  *Median (25th–75th percentiles)* | 11[5-17] | 18[10-23] | 0.004£ |
| ICU length of stay (days)  *Median (25th–75th percentiles)* | 15[9-23] | 24[17-28] | 0.005£ |
| In-ICU mortality *N(%)* | 4 (1.2) | 9 (15) | <0.0001\* |
| Exclusion of patients post-extubation stridor N=19 | Extubation success  N=338 | Extubation failure  N=80 |  |
| Critical care withdrawal *N(%)* | 7 (2.1) | 6 (7.6) | 0.02\* |
| Duration of mechanical ventilation (days)  *Median (25th–75th percentiles)* | 11[5-17] | 24[14-33] | <0.0001£ |
| ICU length of stay (days)  *Median (25th–75th percentiles)* | 15[9-23] | 29[23-39] | <0.0001£ |
| In-ICU mortality *N(%)* | 4 (1.2) | 9 (11.2) | <0.00015 |

**Legend:** Continuous data are expressed as mean (±SD) or median (25th–75th percentiles) accordingly and tested with a paired *t*-test. Categorical data are expressed as N(%) and tested with the Fisher test (\*) or Log-rank test (£). p<0.05