**Supplemental Digital Content 4:** Multivariate analysis of factors associated with extubation success in two sensitivity analyses: exclusion of patients with late tracheostomy and post-extubation stridor.

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| Clinical features | OR [CI95%] | *p* |
| Exclusion of patients with late tracheostomy (N=40) |  |  |
| Age (<40 years old vs ≥ 40 years old) | 5.03 [1.89-13.42] | 0.0012 |
| Visual pursuit | 1.93 [0.99-3.74] | 0.052 |
| Swallowing attempts | 2.27 [1.17-4.41] | 0.0156 |
| Glasgow Coma Score (>10 vs. ≤10) | 2.32[1.21-4.47] | 0.011 |
| Exclusion of patients with post-extubation stridor (N=19) |  |  |
| Age (<40 years old vs ≥ 40 years old) | 2.27 [1.14-4.52] | 0.019 |
| Visual pursuit | 3.18 [1.76-5.79] | 0.0001 |
| Swallowing attempts | 3.19 [1.76-5.79] | 0.0001 |
| Glasgow Coma Score (>10 vs. ≤10) | 2.87 [1.58-5.23] | 0.0006 |