**Supplemental Digital Content 10:** Multivariate analysis of extubation success with imputation analysis for missing data.

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| Clinical features | OR [CI95%] | *p* |
| Analysis with presence of visual pursuit, swallowing attempts, GCS > 10, in patients with missing data |  |  |
| Age (<40 years old vs ≥ 40 years old) | 2.51 [1.38-4.55] | 0.0025 |
| Visual pursuit | 2.47 [1.48-4.12] | 0.0006 |
| Swallowing attempts | 2.56 [1.52-4.30] | 0.0004 |
| Glasgow Coma Score (>10 vs. ≤10) | 2.07[1.24-3.46] | 0.005 |
| Analysis with absence of visual pursuit, swallowing attempts, GCS ≤10, in patients with missing data |  |  |
| Age (<40 years old vs ≥ 40 years old) | 2.22 [1.25-3.96] | 0.0065 |
| Visual pursuit | 2.09 [1.27-3.43] | 0.0036 |
| Swallowing attempts | 2.22 [1.37-3.58] | 0.0011 |
| Glasgow Coma Score (>10 vs. ≤10) | 2.03 [1.24-3.34] | 0.005 |