**Additional file 1** Outcomes in patients with and without reintubation after PERF.

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| --- | --- | --- | --- | --- |
|  | PERF | Patients with reintubation | Patients without reintubation | P-values |
|  | (n = 24) | (n = 13) | (n = 11) |  |
| Reasons for PERF, n (%) |  |  |  | 0.9 |
| 　Upper airway obstruction | 3 | 1 | 2 |  |
| 　Incapacity to remove secretions | 12 | 7 | 5 |  |
| 　Refractory hypoxia | 6 | 3 | 3 |  |
| 　Atelectasis | 1 | 1 | 0 |  |
|  Exacerbation of heart failure | 2 | 1 | 1 |  |
| CCC stay (days) | 25 (16.8–47) | 47 (25-52) | 17 (12-23.5) | 0.003 |
| Hospital stay (days) | 44 (25.8–57.8) | 52 (41-93) | 31 (19.5-41) | 0.07 |
| Tracheotomy, n (%) | 10 (42) | 10 (77) | 0 (0) | 0.0001 |
| 28-d mortality | 1 (4.1) | 1 | 0 | 1 |
| 60-d mortality | 1 (4.1) | 1 | 0 | 1 |
| Hospital mortality | 4 (16.7) | 3 | 1 | 0.5 |

Data are presented as median and interquartile range or number (percentage). *PERF* post-extubation respiratory failure, *CCC* critical care center, *28-d mortality* 28-day mortality after admission, *60-d mortality* 60-day mortality after admission