**Supplemental Digital Content 7.** Demographic data between centres, missing data between centres, rate of corticosteroids administration between centres and evaluation of the centre effect on extubation success.

**Additional demographic data between centres.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Centre 1N=172 | Centre 2N=170 | Centre 3N=52 | Centre 4N=42 |
| Sex (Male/Female) | 83 (51.7) / 89 (48.3) | 128 (75.3) / 42 (24.7) | 32 (61.5) / 20 (38.5) | 23 (54.8) / 19 (45.2) |
| Brain-Injury at admission |  |  |  |  |
| TBI | 5 (2.9) | 149 (87.6) | 17 (32.7) | 15 (35.7) |
| SAH | 93 (54.1) | 2 (1.2) | 21 (40.4) | 9 (21.4) |
| Intra-cranial haemorrhage | 27 (15.7) | 10 (5.6) | 7 (13.5) | 1 (2.4) |
| Stroke | 16 (9.3) | 3 (1.8) | 2 (3.8) | 10 (23.8) |
| NYHA ≥ 2 | 17 (9.9) | 7 (4.1) | 0 | 0 |
| Diabetes mellitus | 20 (11.6) | 9 (5.3) | 2 (3.8) | 2 (4.8) |
| External ventricular drainage | 91 (52.9) | 13 (7.6) | 13 (25) | 17 (40.5) |
| Neurosurgery before admission | 38 (22.1) | 48 (28.2) | 7 (13.5) | 5 (11.9) |
| Decompressive craniectomy | 20 (11.6) | 13 (7.6) | 3 (5.8) | 2 (4.8) |

**Missing data:** Number and rates ofMissing data, per participating ICU’s

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Centre 1 | Centre 2 | Centre 3 | Centre 4 |
| Age | 0 | 0 | 0 | 0 |
| Visual pursuit | 5 (2.9) | 9 (5.3) | 2 (3.8) | 4 (9.5) |
| Swallowing attempts | 14 (8.1) | 15 (8.8) | 14 (26.9) | 13 (30.9) |
| GCS | 4 (2.3) | 3 (1.76) | 5 (9.6) | 0 |

**Rate of corticosteroids administration between centres.** Results expressed as N(%)

Centre 1: 10 (5.8%), Centre 2: 20 (11.8), Centre 3: 7(13.5), Centre 4: 0.

**Adjustment of the multivariate model on the probability of successful extubation according to centre.**

|  |  |  |
| --- | --- | --- |
|  | OR [CI95%] | P value |
| Age < 40 | 2.077 [1.058-4.077] | 0.0337 |
| Visual pursuit | 2.871 [1.640-5.023] | 0.0002 |
| Swallowing attempts | 2.818 [1.618-4.909] | 0.0003 |
| GCS > 10 | 2.646 [1.494-4.686] | 0.0008 |
| Centre |  | 0.2970 |
| 2nd versus 1st | 1.366 [0.725-2.575] |  |
| 3rd versus 1st | 0.569 [0.224-1.443] |  |
| 4th versus 1st  | 0.747 [0.252-2.212] |  |

 **Legend:** GCS: Glasgow Coma Score. There was no centre effect regarding the results of extubation success.