**Supplementary Digital Content 3.** Description of complications displayed by patients in the Learning and in Validation Cohorts.

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| --- | --- | --- |
|  | Learning cohort*N*=125 | Validation cohort*N*=90 |
| Need for tracheal re-intubation | 68 (54.4) | 28 (24.6) |
| Aspiration | 9 (7.2) | 13 (11.1) |
| Impaired consciousness | 87 (69.6) | 45 (39.5) |
| Status epilepticus | 18 (14.4) | 13 (11.4) |
| Moderate to severe intra-cranial bleeding | 51 (40.8) | 32 (28.1) |
| Extra-dural hematoma | 3 (2.4) | 3 (2.6) |
| Sub-dural hematoma | 8 (6.4) | 7 (6.1) |
| Neurosurgery | 10 (8) | 10 (8.7) |
| Intra-cranial hypertension | 43 (34.4) | 18 (15.8) |
| Other | 56 (44.8) | 42 (36.8) |