**Supplementary Digital Content 1:** List of data collected during the study.

|  |  |  |  |
| --- | --- | --- | --- |
| **Baseline characteristics** | **Brain tumor data** | **Perioperative data** | **Postoperative data** |
| Age | Histology | Neurosurgeon’s age | Day-1 postoperative Natremia |
| Gender | Meningioma | < 40 | Nausea and vomiting |
| Body Mass Index | Glioma | 40-50 | Impaired consciousness |
| ASA Class | Glioblastoma | ≥ 50 | Day-1 GCS |
| I-II | Astrocytoma | Protocol of Anaesthesia | Oro-tracheal intubation |
| III-IV | Metastasis | Propofol | Aspiration |
| NYHA | Sarcoma | Halogenated anaesthetics | Seizures / Status epilepticus |
| I-II | Lymphoma | Remifentanyl | Intra-cranial bleeding |
| III-IV | Adenoma | Sufentanil | Extra-dural hematoma |
| GCS ≤ 14 before procedure | Oligodendroglioma | Protocol of Surgery | Sub-dural hematoma |
| Pre-operative motor deficit | Other | Awaken surgery | New intra-cranial Neurosurgery |
| Aphasia | Tumor Location | Position | Intra-cranial hypertension (ICP ≥ 25 mmHg) |
| Deglutition disorders | Frontal lobe | Lateral | Intra-cranial infection |
| History of brain tumor craniotomy | Parietal lobe | Ventral | Other |
| History of Epilepsy | Occipital lobe | Dorsal | Duration of mechanical ventilation |
| Chronic hypertension | Temporal lobe | Seated position | ICU length of stay |
| Diabetes mellitus | Infra-tentorial | General data | In-ICU death |
| Chronic medication | Radiologic findings | Minimum Temperature (°C) | Other ICU admission during hospital course |
| Anti-epileptic drugs | Dimensions in 3 axes | Crystalloids (mL) | Hospital Length of stay |
| Beta-blockers | Mid-line-shift ≥ 3 mm | Colloids (mL) | In-hospital death |
| Corticosteroids | Mass effect | Osmotherapy (mL) |  |
| Aspirin/Clopidogrel | Mid-line location | Blood Loss (mL) |  |
| Anti-coagulants | Hydrocephalus | Number of packed red cells |  |
| New oral anti-coagulants | Peri-tumoral edema | Number of fresh frozen plasma |  |
|  | Compression of the fourth ventricle | Number of packed platelets |  |
|  | Multiple brain tumours | Continuous infusion of catecholamine |  |
|  |  | Maximal and minimal SAP (mmHg) |  |
|  |  | Maximal and minimal MAP (mmHg) |  |
|  |  | Duration of surgery / anaesthesia (mn) |  |

**Legend:** GCS: Glasgow Coma Score. Mn: minutes. ASA: American Society of Anesthesiology. NYHA: New-York Heart Association. SAP: Systolic Arterial Pressure. MAP: Mean Arterial Pressure.