**Use of Novel Automated Active Irrigation with Drainage versus Passive Drainage Alone for Chronic Subdural Hematoma –**

**A Propensity Score-Matched Comparative Study with Volumetric Analysis**

**Supplemental Digital Content 2. Supplemental Results: Subgroup analysis and outcomes for craniotomy and burr-hole cases.**

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| --- | --- | --- | --- | --- | --- | --- |
| **Radiographic and Clinical Outcomes** | **Craniotomy** | | | **Burr Hole** | | |
| **Passive Drainage (n=14)** | **Active and Continuous Irrigation with Drainage (n=12)** | **p-value** | **Passive Drainage (n=7)** | **Active and Continuous Irrigation with Drainage (n=9)** | **p-value** |
| Duration of catheter placement | 5.0 ± 4.9 | 3.4 ± 2.1 | 0.398 | 3.3 ± 1.5 | 4.0 ± 2.3 | 0.128 |
| Number of catheter revisions | 0.0 ± 0.0 | 0.1 ± 0.3 | 1 | 0.1 ± 0.4 | 0 ± 0 | 1 |
| Catheter-related infections | 2 | 0 | 0.079 | 0 | 0 | 1 |
| Shunt placement | 0 | 1 | 0.963 | 0 | 0 | 1 |
| Hematoma expansion at discharge | -0.6 ± 1.6 | -0.3 ± 4.1 | 0.998 | -0.1 ± 1.0 | -3.9 ± 6.3 | **0.029** |
| Repeat subdural evacuation | 1 | 2 | 0.847 | 0 | 1 | 1 |
| Brain volume post evacuation | 1347.5 ± 106.1 | 1330.8 ± 168.6 | 0.392 | 1284.7 ± 185.2 | 1344.3 ± 193.4 | **0.014** |
| Brain volume at discharge | 1363.8 ± 116.4 | 1359.0 ± 166.9 | 0.775 | 1324.4 ± 201.9 | 1361.9 ± 194.1 | 0.976 |
| Hematoma clearance rate | -0.2 ± 0.6 | 0.0 ± 2.0 | 0.559 | 0.0 ± 0.3 | -0.8 ± 1.2 | 0.665 |
| Length of hospital stay | 12.5 ± 19.7 | 7.0 ± 3.7 | 0.178 | 6.9 ± 2.6 | 6.4 ± 2.0 | 1 |
| Length of ICU stay | 4.7 ± 5.4 | 4.2 ± 2.4 | 1 | 4.0 ± 2.9 | 3.9 ± 1.7 | 1 |
| Seizure activity | 1 | 0 | 1 | 2 | 0 | 0.378 |
| Other adverse events | 2 | 1 | 0.884 | 2 | 0 | 0.412 |
| Good outcome (discharge mRS score of 0-2) | 10 | 8 | 0.567 | 4 | 7 | 0.276 |
| Discharge GCS score | 14.7 ± 2.0 | 14.6 ± 0.5 | 1 | 15.3 ± 0.8 | 14.6 ± 0.7 | 0.351 |

GCS, Glasgow Coma Scale; ICU, intensive care unit; mRS, modified Rankin Scale