



## TITLE: Relationship between Recurrence of Chronic Subdural Hematoma with its Preoperative Volume

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### ABSTRACT

**Background:** Chronic subdural hematoma (CSDH) is commonly encountered in Neurosurgical practice. However, surgical evacuation remains complicated by a high Recurrence rate.

**Objective:** To assess the relationship between preoperative volume of chronic subdural hematoma and its post-operative recurrence.

**Methods:** This prospective observational study was carried out with a total of 130 patients clinically and radiologically diagnosed with CSDH who underwent surgery. Patients were followed up for 6 months postoperatively to observe the recurrence. Association of categorical data was assessed using 'Chi-square' test. Association of quantitative data was assessed using 'Student t' test. 'Spearman rank Correlation coefficient' was determined to assess the relationship between preoperative volume of subdural hematoma and recurrence of CSDH.

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**Results:** Forty percent of study population (n=52) had <115 ml and 60.0% (n=78) had  $\geq$  115 ml of pre-operative hematoma volume. The mean pre-operative volume was 133.36 ( $\pm$ 60.26) ml. Recurrence of CSDH was observed in 10.8% (n=14) patients. Patients with bilateral hematoma,  $\geq$  2 cm hematoma thickness,  $\geq$  115 ml pre-operative volume and history of anti-coagulant drug consumption had significantly ( $p < 0.05$ ) more chance of recurrence of CSDH. There was a moderate positive correlation between pre-operative CSDH volume and post-operative recurrence, which was significant (RS= 0.598,  $P < 0.001$ ).

**Conclusion:** High pre-operative volume of CSDH carries the chance of recurrence.

### BIOGRAPHY

I, Dr. Kamalesh Saha graduated from Sher-e-Bangla medical college, Barisal and have completed MS in Neurosurgery from Bangabandhu Sheikh Mujib Medical University, Dhaka. Currently I am working as Registrar of Neurosurgery in Khulna medical college hospital, Khulna with both clinical and academic interest.