

Closed system drainage

There is controversy among neurosurgeons regarding whether irrigation or [drainage](#) is necessary for achieving a lower revision rate for the treatment of [chronic subdural hematoma](#) (CSDH) using [burr hole craniostomy](#) (BHC). Therefore, Xu et al. performed a [metaanalysis](#) of all available published reports. Multiple [electronic health databases](#) were searched to identify all studies published between 1989 and June 2012 that compared irrigation and drainage. Data were processed by using [Review Manager](#) 5.1.6. Effect sizes are expressed as pooled odds ratio (OR) estimates. Due to heterogeneity between studies, we used the random effect of the inverse variance weighted method to perform the meta-analysis. Thirteen published reports were selected for this meta-analysis. The comprehensive results indicated that there were no statistically significant differences in mortality or complication rates between drainage and no drainage ($P > 0.05$). Additionally, there were no differences in recurrence between irrigation and no irrigation ($P > 0.05$). However, the difference between drainage and no drainage in recurrence rate reached statistical significance ($P < 0.01$). The results from this meta-analysis suggest that burr-hole surgery with closed-system drainage can reduce the recurrence of CSDH; however, irrigation is not necessary for every patient ¹⁾.

¹⁾

Xu C, Chen S, Yuan L, Jing Y. Burr-hole Irrigation with Closed-system Drainage for the Treatment of Chronic Subdural Hematoma: A Meta-analysis. *Neurol Med Chir (Tokyo)*. 2015 Sep 17. [Epub ahead of print] PubMed PMID: 26377830.

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Last update: **2024/06/07 02:59**

