

# **Modified technique for frontal sinus obliteration using calvarial bone and Tisseel glue.**

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## **Abstract:**

**BACKGROUND:** Frontal sinus obliteration is indicated in trauma and frontal sinus disease. We present our experience with a modified technique of frontal sinus obliteration.

**METHODS:** We reviewed the records of 17 patients who underwent frontal sinus obliteration with a combination of Tisseel fibrin glue (Baxter Healthcare Corporation, Deerfield, IL) and calvarial bone and describe our technique.

**RESULTS:** One female and 16 male patients (mean age, 36.6) underwent frontal sinus obliteration from 2001 to 2005. Traumatic fracture was the most common indication. The patients were followed up for a median of 15 months. There were no major complications. Postoperatively, one patient developed a localized frontal wound infection at 3 weeks; this resolved with debridement. At latest follow-up, all were free from local sinus complications, disease recurrence, headaches, or intracranial events.

**CONCLUSIONS:** The combined use of autogenous calvarial bone and Tisseel is suitable for frontal sinus obliteration. Our technique is associated with low donor site morbidity, avoids a separate donor surgical site, and has a low complication rate.