

DuraSeal

Sealing incisions with [sutures](#) and [staples](#) is the gold standard of [wound](#) closure; however, biological [glues](#) have challenged this technique. While neurosurgical wounds, particularly those made in the [dura](#), are less dynamic and under less fluid pressure than those of the pulmonary and cardiovascular system, biological glues that increase the reliability and resilience of these closures would significantly reduce morbidity from postoperative [cerebrospinal fluid fistula](#). Currently, the only [Food and Drug Administration](#)(FDA) approved dural sealant is [DuraSeal](#) (Integra, Waltham, Massachusetts), a polyethylene glycol [hydrogel](#), which has both cranial and spinal formulations, and has been demonstrated to be safe and effective ¹⁾.

¹⁾

Cosgrove GR, Delashaw JB, Grotenhuis JA, Tew JM, Van Loveren H, Spetzler RF, Payner T, Rosseau G, Shaffrey ME, Hopkins LN, Byrne R, Norbash A. Safety and efficacy of a novel polyethylene glycol hydrogel sealant for Water-tight dural repair. J Neurosurg. 2007 Jan;106(1):52-8. PubMed PMID: 17236487.

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Last update: **2024/06/07 02:52**

