

Vivostat

Vivostat autologous fibrin glue is a safe and effective method for fixing the [grafts](#) in [endoscopic skull base repair](#). The advantages of this approach are easy application, elimination of the risk of allergic, immunological and infectious [complications](#), as well as acceleration of [tissue regeneration](#) ¹⁾.

<http://www.vivostat.com/>

Case series

68 patients received an autologous fibrin sealant prepared with the Vivostat(®) system applied epidurally to provide hemostasis and to seal the dura. The surgical technique, time to bleeding control, and associated complications were recorded.

Spinal procedures were performed in 68 patients utilizing autologous fibrin glue/Vivostat(®) to provide rapid hemostasis and/or to seal the dura. Only 2 patients developed postoperative dural fistulas while none exhibited hemorrhages, allergic reactions, systemic complications, or infections.

In this [preliminary study](#), the application of autologous fibrin sealant with Vivostat(®) resulted in rapid hemostasis and/or acted as an effective [dural sealant](#). Although this product appears to be safe and effective, further investigations are warranted ²⁾.

77 patients were studied prospectively and data were collected and analyzed. Autologous fibrin sealant, taken from patient's blood, was prepared with the Vivostat(®) system and applied on the resection bed or above the dura mater to achieve hemostasis and dural sealing. The surgical technique, time to bleeding control and associated complications were recorded.

Results: A total of 79 neurosurgical procedures have been performed on 77 patients. In the majority of cases (98%) the same autologous fibrin glue provided rapid hemostasis and dural sealing. No patient developed allergic reactions or systemic complications in association with its application. There were no cases of cerebral hematoma, swelling, infection, or epileptic seizures after surgery whether in the immediate or in late period follow-up.

Conclusions: In this preliminary study, the easy and direct application of autologous fibrin sealant agent helped in controlling cerebral bleeding and in providing prompt and efficient dural sealing with resolution of CSF leaks. Although the use of autologous fibrin glue seems to be safe, easy, and effective, further investigations are strongly recommended to quantify real advantages and potential limitations ³⁾

1)

Shelesko EV, Doronina VA, Sharipov OI, Kvan OK, Chernikova NA, Strunina YV, Zinkevich DN. *Primenenie autologichnogo fibrinovogo kleya v endoskopicheskoi plastike defektov osnovaniya cherepa pri nazal'nykh likvoreyakh* [Autologous fibrin glue for endoscopic skull base repair in patients with cerebrospinal fluid leakage]. Zh Vopr Neurokhir Im N N Burdenko. 2023;87(1):49-54. Russian. doi: 10.17116/neiro20238701149. PMID: 36763553.

2)

Graziano F, Maugeri R, Basile L, Meccio F, Iacopino DG. Aulogous fibrin sealant Vivostat® in the neurosurgical practice: Part II: Vertebro-spinal procedures. Surg Neurol Int. 2016 Jan 25;7(Suppl 3):S77-82. doi: 10.4103/2152-7806.174894. PMID: 26904371; PMCID: PMC4743263.

3)

Graziano F, Certo F, Basile L, Maugeri R, Grasso G, Meccio F, Ganau M, Iacopino DG. Autologous fibrin sealant Vivostat® in the neurosurgical practice: Part I: Intracranial surgical procedure. Surg Neurol Int. 2015 May 12;6:77. doi: 10.4103/2152-7806.156871. PMID: 25984391; PMCID: PMC4429333.

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