

ADHESIVE SEALANT BIOMATERIALS

Clinical Series

Mr John Goodden
Leeds General Infirmary, Leeds, UK

Use of TissuePatchDural™ for closure of the Dura following removal of a Colloid Cyst

Pre-operative status

A 34-year-old male presented with a colloid cyst in the third ventricle causing obstructive hydrocephalus. Following MDT review, surgical excision was planned via a midline, transcallosal, interforaminal approach.

Surgical procedure

The patient was positioned supine with head slightly flexed. A linear incision was made to allow for a right parasagittal craniotomy, exposing the superior sagittal sinus. The sinus was protected and the dura was opened, hinged to the midline. The colloid cyst was then approached via a transcallosal, interforaminal approach. The lateral ventricles were entered via the septum pellucidum to relieve the hydrocephalus prior to successful complete removal of the colloid cyst. At the end of the procedure, the dura was closed using interrupted sutures. Surgicel™ and Surgicel Fibrillar™ were required under the bone edges and over the superior sagittal sinus (figure 1).

Treatment with TissuePatchDural™

A 100×100mm TissuePatchDural™ (TD-04) was used. It was trimmed slightly to allow better conformity to the craniotomy site and was then applied as per instructions for use. During placement, the patch rapidly conformed to the contours of the underlying tissues. It provided an immediate and effective seal to CSF leakage as an adjunct to the sutures (figure 2).



Figure 1 Dura closed with interrupted sutures

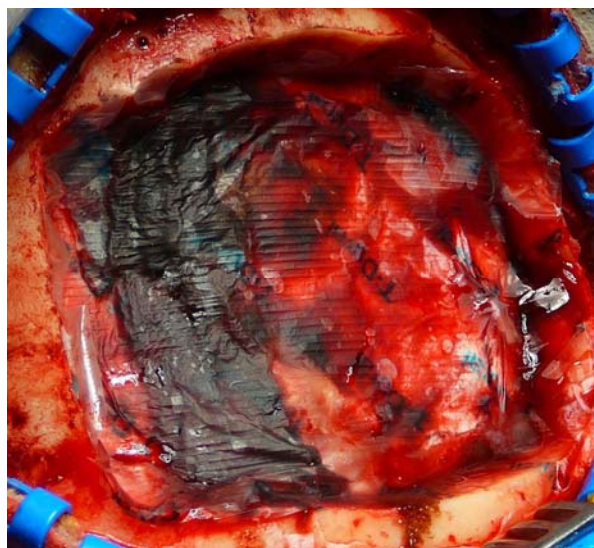


Figure 2 Sutured dural closure covered with TissuePatchDural

Summary

The use of TissuePatchDural™ ensured the water tight closure of the dura. Postoperatively the patient recovered well with no CSF leak. He was discharged rapidly following surgery with no complications.

Surgeon opinion of TissuePatchDural™

TissuePatchDural™ was easy to apply and required no advance preparation. In this case, the product was held in place for 60 seconds and formed an effective seal against CSF leak. It appears to be simple to use and effective.

Surgicel™ and Surgicel Fibrillar™ are registered trademarks of Ethicon Inc.