

ADHESIVE SEALANT BIOMATERIALS

Clinical Series

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Use of TissuePatchDural™ as an adjunct to sutured closure of the dura following excision of lumbar intradural tumour

Pre-operative status

A 34-year old gentleman with known neurofibromatosis presented with three months of left-sided sciatica. Two weeks prior to admission the sciatica became bilateral and he developed urinary incontinence. MRI showed an intradural lumbar lesion extending out into the pelvis.

Surgical procedure

The patient was positioned prone. A midline lumbar incision was made and laminectomy was performed. The dura was opened and the component of tumour within the canal was excised. Haemostasis was achieved and the dura was closed with 5-0 Vicryl. The pelvic component will be removed in a second stage procedure in due course.

Treatment with TissuePatchDural™

A 25×50mm TissuePatchDural™ was used, trimming it to size to match the site of the dural closure. It was applied as per instructions for use. During placement, the patch rapidly conformed to the contour of the underlying dura and provided an immediate and effective seal to prevent CSF leakage in addition to suture closure.



Figure 1

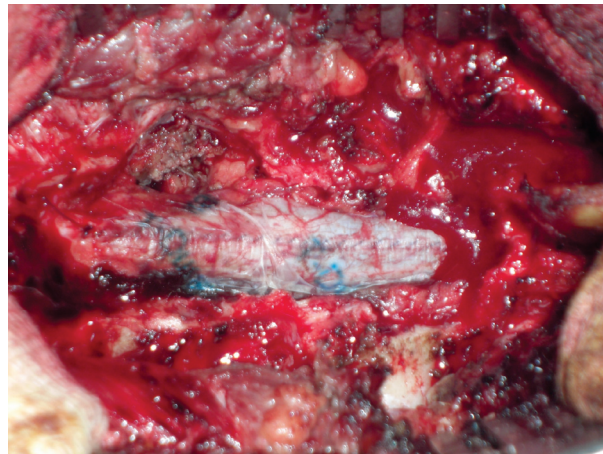


Figure 2

Figure 1 T1 MRI showing lesion within canal at L5-S3 and pelvic mass anterior to the spine

Figure 2 Intraoperative image showing TissuePatchDural placed over lumbar dura after suturing

Summary

TissuePatchDural™ was used as an adjunct to our usual sutured closure of the lumbar dura. No CSF leak occurred.

Surgeon opinion of TissuePatchDural

TissuePatchDural™ provides an easy to use and effective seal to augment dural closure. The product can easily be tailored to cover any defect and is easy to handle. No pre-preparation is required.