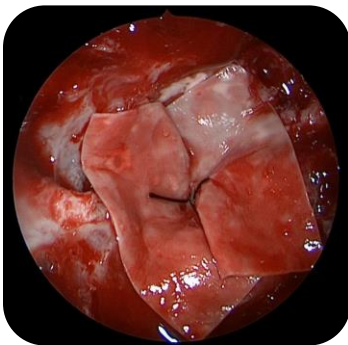


# Cerafix® Dura Substitute Facilitates Effective Closure of Dural Defects in Multiple Neurosurgical Settings

Cerafix® Dura Substitute is a FDA cleared synthetic dura substitute designed to provide strength, handling, and suturability for neurosurgeons, while offering reduced local inflammatory response and improved wound healing compared to other dural grafts. Cerafix® is a non-woven electrospun material engineered to mimic native dura mater<sup>1</sup>. The architecture of this fully synthetic graft has been shown to support tissue ingrowth and neoduralization with minimal inflammation in pre-clinical studies<sup>2</sup>. The present review of human clinical uses of the Cerafix® Dura Substitute was devised to highlight the successful use of the material in select neurosurgical settings.

## USE CASE #1: EXPANDED ENDOSCOPIC RESECTION OF PITUITARY MENINGIOMA



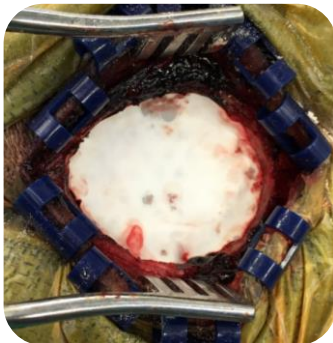
- Surgeons at The Cleveland Clinic (Cleveland, OH) performed an endoscopic transphenoidal procedure in which Cerafix® Dura Substitute was used to repair the dura mater following expanded resection of a pituitary meningioma compressing the optical nerves / chiasm.
- Cerafix® was easily rolled and applied in a minimally invasive setting through the use of an endoscope, where it was then fixed in place with a non-tension suture.

## USE CASE #2: CRANIOTOMY AND SUPRATENTORIAL ANEURYSM CLIPPING

- Surgeons at Harvard Medical School (Boston, MA) performed a supratentorial craniotomy in which Cerafix® Dura Substitute was used to repair the dura mater following exposure and clipping of MCA aneurysm.
- Cerafix® was utilized to repair the dura mater and was secured in place with a running suture applied in a non-tension fashion in order to achieve a water-tight closure.



## USE CASE #3: CRANIOTOMY AND SUPRATENTORIAL MENINGIOMA RESECTION



- Surgeons at the University of Colorado (Aurora, CO) performed a craniotomy procedure in which Cerafix® Dura Substitute was utilized to repair the dura mater following routine dissection and excision of a meningioma.
- During the procedure, Cerafix® was easily cut to fit, applied to the dural defect, and secured to the native dura utilizing non-tension sutures.