

Codman's got you covered.

The global leader in neurosurgery is your one-stop, comprehensive source for proven, market-leading dural repair solutions.





The Leader in Dural Repair

becomes your partner from Access to Closure

By expanding one of the broadest neurosurgical product lines, we are strengthening our commitment to providing you with what you need, when you need it.



DuraGen® Secure
Dural Regeneration Matrix

Extended Tip Applicator

Bicol®
Collagen Sponges

DuraGen® Plus
Adhesion Barrier Matrix

Codman® Disposable Perforators

Codman® Surgical Patties

Isocool® Brands You
TRUST

DuraSeal®
Dural Sealant System

Codman® Surgical Strips

CustomBone Service™

DuraSeal® Xact
Dural Sealant System

Codman VersaTru®

MicroMyst®
Applicator

Suturable DuraGen®
Dural Regeneration Matrix

Now, It's All Here.

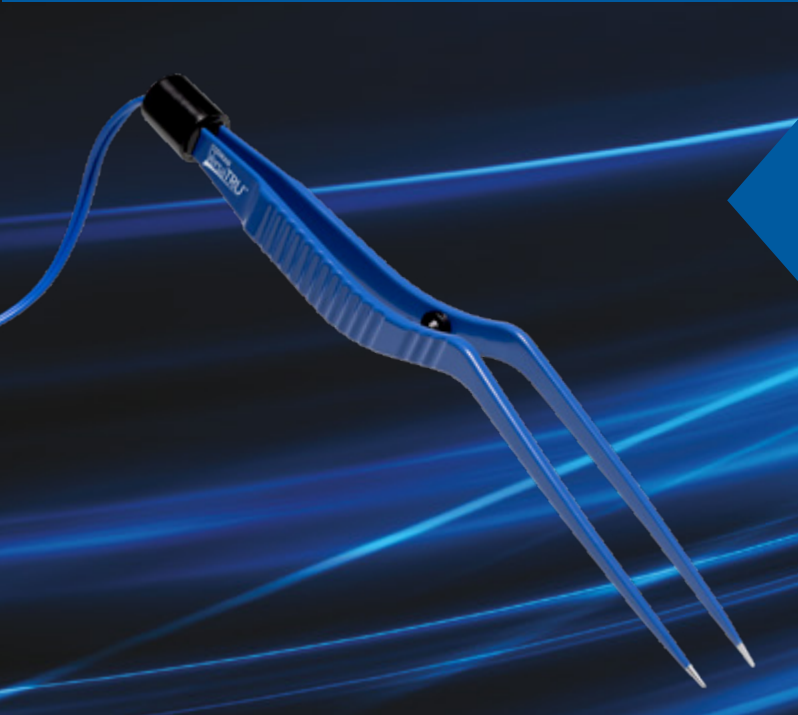
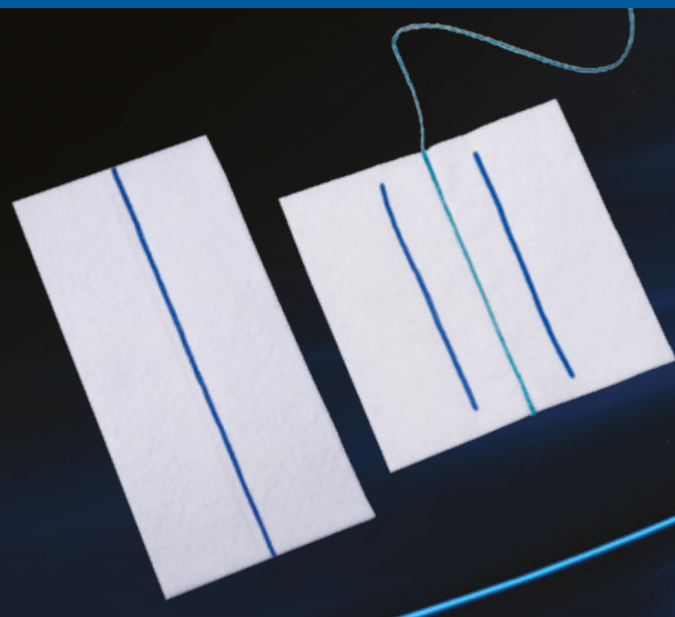


Codman Perforators and Craniotomy Kits

Codman Perforators have been the #1 choice of neurosurgeons for more than 30 years. The automatic disengagement mechanism and atraumatic tip design help ensure safety and protection against thin bone breaking or nicking of the dura.

Patties and Strips

X-ray detectable and lint free, Codman Surgical Patties and Strips provide neurosurgeons with gentle protection and absorbency, to meet the demands of delicate intracranial and spinal surgery.

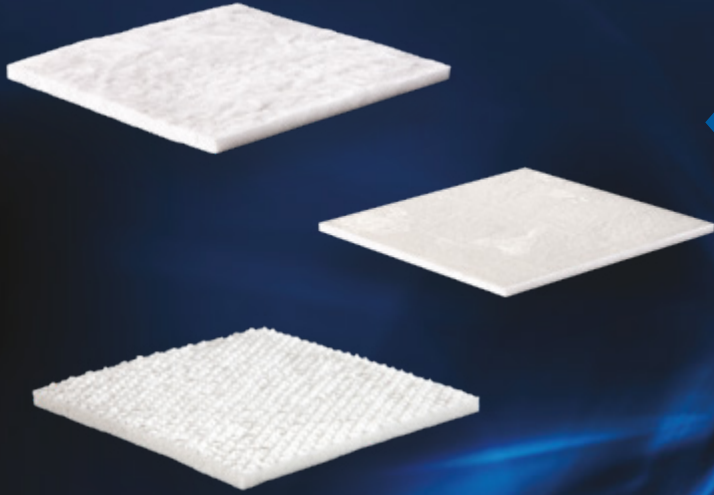


Codman® Disposable Bipolar Forceps

For more than 50 years, Codman® has innovated in the field of electrosurgery. Our broad line of disposable bipolar forceps are available to accommodate your diverse neurosurgical procedures.

The Codman VersaTru® disposable non-stick bipolar forceps help you optimize your surgical performance in challenging situations and the IsoCool® disposable non-stick bipolar forceps help you in procedures requiring precise heat control.

Our full selection of cranial and spinal dural repair solutions.



DuraGen Family

With more than 1400 patients studied and more published data than any other collagen graft*, DuraGen Dural Regeneration Matrix is a frequently used clinically proven graft for CSF leak prevention and dural repair.

Suturable DuraGen is a bilayer graft with enhanced strength and support, providing the ability to suture without losing the conformability and resorption you demand from a dural graft.

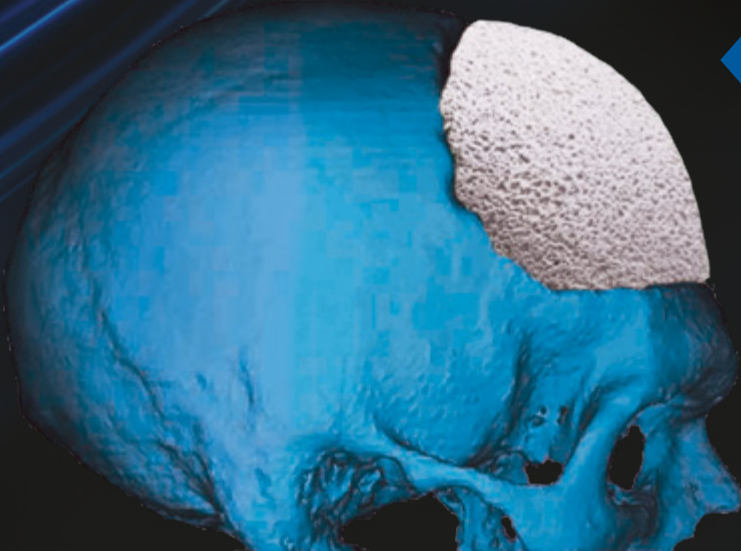
Dural Sealants

The DuraSeal® Family of sealants has been specifically designed for use as adjuncts to standard methods of dural repair, such as sutures, to provide watertight closure intraoperatively and through the critical healing period. DuraSeal® is more effective at preventing CSF leaks than fibrin glue¹¹



Biomimetic Skull Bone Reconstruction

CustomBone Service is a patient specific implant intended to replace bony voids in cranioplasty. CustomBone Service is made of a bio-mimetic material with a chemical composition and structure that resembles the mineral component of human bones. The specific bio-mimetic chemical composition combined with an elevated interconnected porosity are suitable for housing cells responsible for bone regeneration, playing an important role in the process of perimetral osteointegration of the prosthesis.



Comprehensive Coverage From Codman

The Leader in Dural Repair becomes your partner from Access to Closure

Everything your Neuro OR team needs for cranial and spinal access, dural repair and closure
Codman is your single, comprehensive source.

A large direct sales force specialized in neurosurgery and dedicated to hospital in-service and product training

CustomBone

Intended Use: CustomBone Service is intended to replace bony voids in the cranial and/or craniofacial skeleton. This device may be used both for adult and paediatric patients (for children above 2 years of age). CustomBone custom-made implants are suitable for reconstructing cranial defects resulting from: trauma and vascular pathologies, either associated or non-associated to cranial decompression; removal of tumours; reabsorption of autologous bone; rejection of other prosthetic materials; congenital malformations.

Contraindications: Use of CustomBone prostheses should be avoided in the presence of inflammatory conditions and manifest infections of the surgical area to be treated, as well as in insufficiently vascularized sites. The CustomBone prostheses should not be implanted if dura mater lacerations are present. In addition, they should not be used in patients suffering from a proven hypersensitivity to calcium phosphates or serious forms of demineralization diseases, chronic hypertension, hemocoagulation disorders, in the event of infections resulting from previous surgery or in patients treated with steroid or anti-coagulation therapies. No side effects have been noted in the use of CustomBone when tumours have been present. Nonetheless, patients that undergo treatment with CustomBone following the removal of a neoplasm should be monitored. The product must not be implanted in areas in which skin system is not sufficient to cover the implant entirely.

DuraSeal Xact

Indications: The DuraSeal Xact Sealant System is indicated for use during spine procedures as an adjunct to standard methods of dural repair, such as sutures, to provide watertight closure.

Contraindications: Do not apply the DuraSeal Xact Spinal Sealant in abdominopelvic surgical procedures for use as a sealant or adhesion barrier.

DuraSeal

Indications: The DuraSeal cranial sealant system is intended for use as an adjunct to standard methods of dural repair, such as sutures, to provide watertight closure.

Contraindications: Do not apply the DuraSeal Cranial Sealant in abdominopelvic surgical procedures for use as a sealant or adhesion barrier.

Extended Tip Applicator

Indications: The Extended Tip Applicator is intended for use in the simultaneous delivery of two non-homogenous solutions onto a surgical site.

Contraindications: Do not use Extended Tip Applicator for other indications than ones provided in the instructions for use.

MicroMyst* Applicator

Indications: The MicroMyst* Applicator is intended for use in the delivery of two non-homogenous solutions onto a surgical site.

Contraindications: Do not use MicroMyst* Applicator for other indications than ones provided in the instructions for use.

DuraGen* Secure

Indications: DuraGen Secure Dural Regeneration Matrix is indicated as an onlay graft for the repair and restoration of dural defects in cranial and spinal surgical procedures. DuraGen Secure matrix readily conforms to the surface of the brain, spinal cord and overlying tissues. DuraGen Secure matrix may be used to close dural defects following traumatic injury, excision, retraction or shrinkage. DuraGen Secure matrix may be used to supplement primary closure. DuraGen Secure matrix may be used in the following procedures: -Cranial Convexity: may be used to cover large defects following surgery, especially for dural loss from excision, contraction, retraction and/or shrinkage; -Brain Swelling: intra-operative brain swelling or anticipated postoperative swelling; -Posterior Fossa Surgery: 1) General use as a dural graft, 2) decompression craniotomy and dural release for infarcts, i.e., Posterior Inferior Cerebellar Artery (PICA) infarcts, 3) anticipated swelling after trauma, and 4) may be used in Chiari decompression procedures; -Spinal Surgery: 1) General use as a spinal onlay dural graft, especially useful for defects arising from pinhole tears, disc surgery, and spinal stenosis decompression, 2) after resection of intradural tumors, 3) onlay graft after dural approximation with sutures, 4) as a separation layer between the dura and overlying tissues.

Contraindications: DuraGen Secure matrix is not designed, sold or intended for use except as described in the Indications for Use and is contraindicated in the following situations: -For patients with a known history of hypersensitivity to bovine derived materials. -For repair of spinal neural tube defects or anterior spinal surgery with dural resection. Should be used with caution in infected regions. -Not recommended to cover dural defects involving mastoid air cells. -Not recommended for large defects at the skull base following surgery.

Suturable DuraGen*

Indications: Suturable DuraGen is indicated as a dural substitute for the repair and restoration of dural defects in cranial and spinal surgical procedures. Suturable DuraGen matrix readily conforms to the surface of the brain and overlying tissues. Suturable DuraGen matrix may be used to close dural defects following traumatic injury, excision, retraction or shrinkage. Suturable DuraGen matrix may be used to supplement primary closure. Suturable DuraGen matrix may be used in the following procedures: -Cranial Convexity: may be used to cover large defects following surgery, especially for dural loss from excision, contraction, retraction and/or shrinkage; -Brain Swelling: intra-operative brain swelling or anticipated postoperative swelling; -Posterior Fossa Surgery: 1) General use as a dural graft, 2) decompression craniotomy and dural release for infarcts, i.e.,

*Summary outcome statistics derived from the following clinical studies:

1. Danish SF, et al: Experience with acellular human dura and bovine collagen matrix for duraplasty after posterior fossa decompression for Chiari malformations. J Neurosurg Pediatrics 104:16-20, 2006
2. Harvey RJ, et al: Closure of large skull base defects after endoscopic transnasal craniotomy. J Neurosurg 111 (2) : 371-379, 2009
3. Horaczek JA, et al: Collagen matrix in decompressive hemicraniectomy. Neurosurgery 63 (1 suppl.1) : ONS 176-ONS 181, 2008
4. Lee JH, et al: Dural reconstruction in meningioma surgery in, Lee JH (ed): Meningiomas: Diagnosis, Treatment an Outcome. London: Springer, 2009, pp 619-624
5. Narotam PK, et al: A clinicopathological study of collagen sponge as a dural graft in neurosurgery. J Neurosurg 82:406-412, 1995.
6. Narotam PK, et al: Collagen matrix (DuraGen) in dural repair: analysis of a new modified technique. Spine 29 (24) :2861-2867, 2004
7. Narotam PK, et al: Collagen matrix duraplasty for cranial and spinal surgery: a clinical and imaging study. J Neurosurg 106 (1) :45-51, 2007
8. Narotam PK, et al: Collagen matrix duraplasty for posterior fossa surgery: evaluation of surgical technique in 52 adult patients. J Neurosurg 111 (2) :380-386, 2009
9. Sade B, et al: Non-watertight dural reconstruction in meningioma surgery: results in 439 consecutive patients and a review of the literature. Clinical article. J Neurosurg 114 (3) :714-718, 2011.
10. Stendel R, et al: Efficacy and safety of a collagen matrix for cranial and spinal dural reconstruction using different fixation techniques. J Neurosurg 109 (2) :215-221, 2008
11. Than KD, et al. Polyethylene glycol hydrogel dural sealant may reduce incisional cerebrospinal fluid leak after posterior fossa surgery. Neurosurgery 2008;63(suppl 1):ONS182-ONS186.

Availability of these products might vary from a given country or region to another, as a result of specific local regulatory approval or clearance requirements for sale in such country or region.

- Non contractual document. The manufacturer reserves the right, without prior notice, to modify the products in order to improve their quality.
- Warning: Applicable laws restrict these products to sale by or on the order of a physician.
- Consult product labels and inserts for any indication, contraindications, hazards, warnings, precautions, and instructions for use.

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