stryker

DuraMatrix portfolio



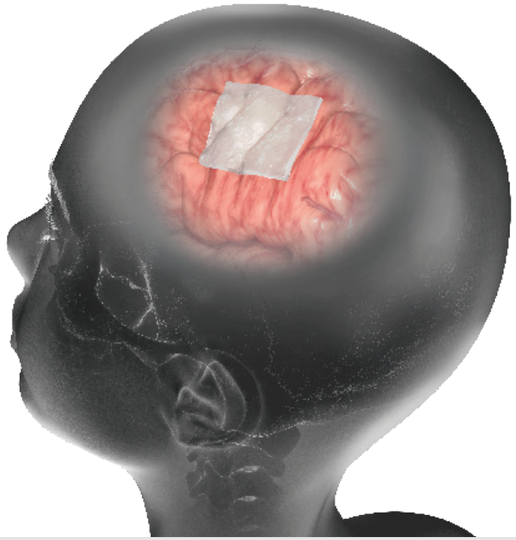
Restore with confidence

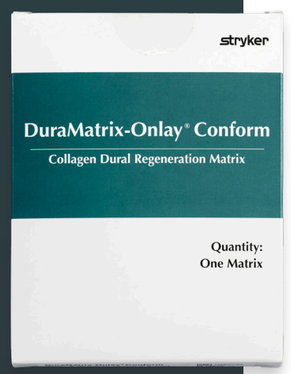
DuraMatrix-Onlay Conform
Conformable to complex structures

DuraMatrix-Onlay Conform is derived from purified, bovine Achilles tendon.

This dural substitute promotes the proliferation and ingrowth of fibroblasts[1] and can be placed directly over the dural defect with sutureless closure.
It has also demonstrated protection against cerebrospinal fluid (CSF) leakage.[2]

DuraMatrix-Onlay Conform has a textured top surface to allow for easy grip and manipulation. Its soft, smooth bottom surface allows for conformability to complex structures of the brain.





Ease of use

- Hydrates with sterile saline
- Easily trimmed dry or hydrated
- Placed over the defect with 1cm overlap

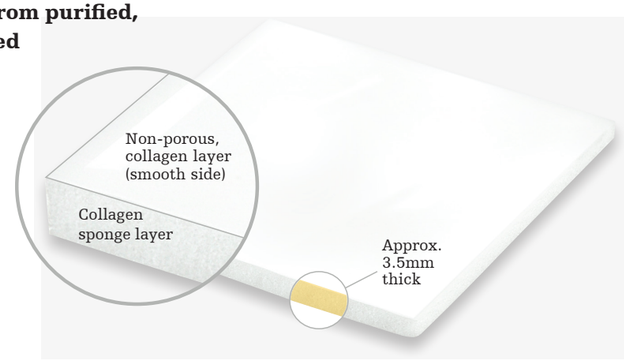
Flexibility

- Highly conformable
- Intended to be applied as an onlay graft

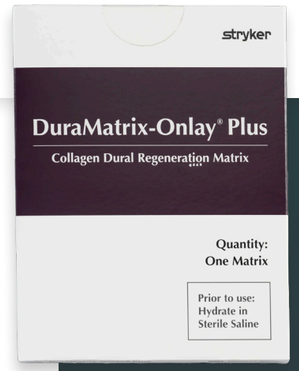
DuraMatrix-Onlay Plus
Leak resistant and sutureless restoration

DuraMatrix-Onlay Plus is derived from purified, bovine Achilles tendon. It is intended for use as a dura substitute for the repair of dura mater.

In addition to the thick, spongy texture, this DuraMatrix product has a non-porous collagen layer. This layer helps produce a lower liquid permeability rate compared to that of DuraGen Plus as shown in a bench test.[3]



DuraMatrix-Onlay Plus offers a balanced resorption profile that occurs over approximately 8 weeks.[4]



Liquid permeability
(ml/min/cm^2)

DuraMatrix-Onlay Plus
0.011±0.007

DuraGen Plus
0.558±0.091

For more information on DMOP or to view the leakage test video, scan here

50x[3,4]
lower liquid permeability rate than DuraGen Plus

DuraMatrix Repair
Strong and conformable

DuraMatrix Repair is a next-generation collagen dural graft that delivers reliable dural reconstruction with excellent handling and integration.

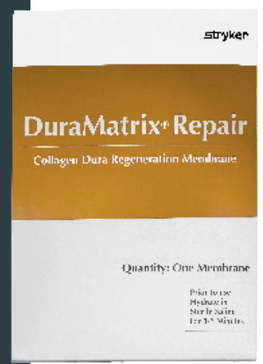
DuraMatrix Repair delivers the reliability neurosurgeons demand. Made from highly purified fetal bovine dermis, this next-generation collagen graft is purpose-built to support strong, dependable dural reconstruction.

Backed by sixth-generation engineering, DuraMatrix Repair provides a biocompatible,[5] high-strength matrix[5] that handles beautifully in the OR – conforming to complex contours while offering exceptional suture pull-out[5] resistance. As it integrates, the matrix drives cellular and vascular ingrowth supporting the new collagen.[6]



52%[7]
greater suture pullout strength than Durepair

145%[7]
greater tensile strength than Durepair



Intuitive handling

- Hydrates rapidly with sterile saline
- Trims cleanly both dry or hydrated

Adaptive performance

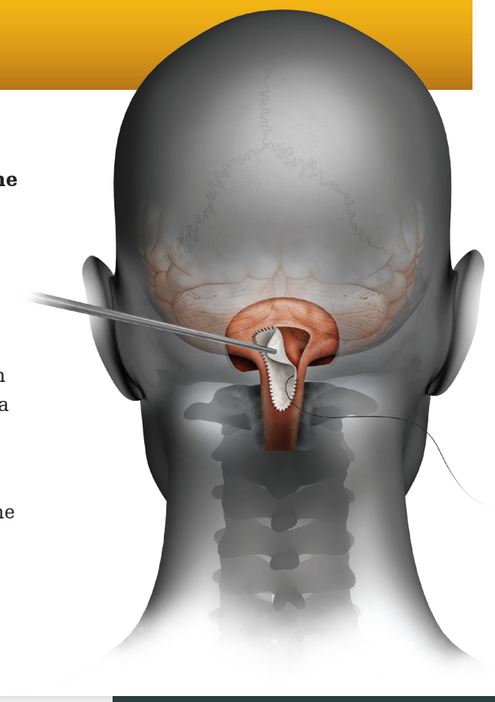
- Highly conformable to adapt to intricate cranial anatomy
- Built to function as a suturable graft, giving you control, stability and peace of mind

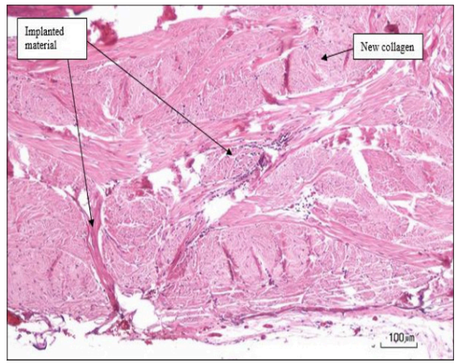
DuraMatrix Suturable
Reinforced and reliable

DuraMatrix Suturable is a collagen dura membrane from purified intact bovine dermis tissue.

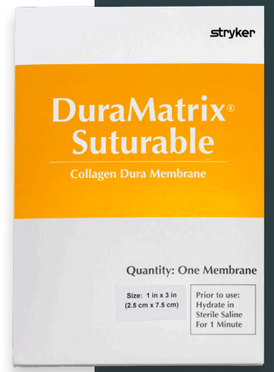
The natural crosslinks inherent in the native bovine collagen are further biochemically reinforced through a proprietary cross-linking process to provide you with the strength you need. Furthermore, this results in a resorption time of 38-40 weeks based on the results of a rabbit duraplasty model,[4] while new dura mater is regenerated to replace the membrane.

DuraMatrix Suturable shows significantly higher suture pull out strength compared to Durepair.[3] This permits the graft to be firmly anchored to surrounding tissue with minimal risk of membrane tear or detachment.

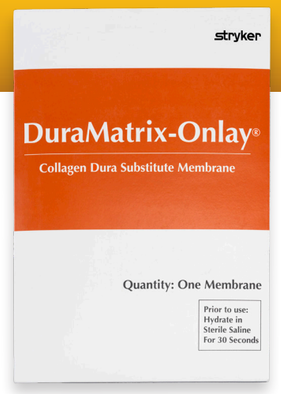




Bovine dermis has natural crosslinks inherent in tissue that are maintained and further enhanced with external crosslinking resulting in total resorption time of 38-40 weeks.[8,9]



DuraMatrix-Onlay
Strong and pliable

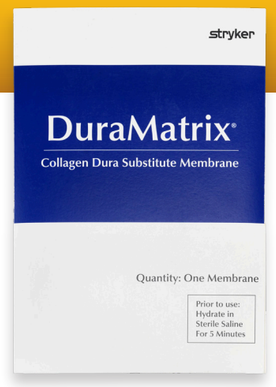


DuraMatrix-Onlay is a purified, type I collagen membrane derived from bovine Achilles tendon. It is intended for use as a dura substitute for the repair of dura mater.

DMO has a thickness similar to the thickness of native dura.[5]

DuraMatrix-Onlay offers a balanced resorption that occurs over 6-9 months.[4]

DuraMatrix
Hybrid and versatile



DuraMatrix is a purified, type I collagen membrane derived from bovine Achilles tendon. It is intended for use as a dura substitute for the repair of dura mater.

The unique conformability properties of the membrane combined with its mechanical strength allow DuraMatrix to be applied as either an onlay membrane or sutured in place.

DuraMatrix offers a balanced resorption that occurs over 6-9 months.[4]

Ordering information

Product name One per unit	**Product number**	**Size**
DuraMatrix-Onlay Conform	DMOC11	1" x 1" (2.5cm x 2.5cm)
	DMOC13	1" x 3" (2.5cm x 7.5cm)
	DMOC22	2" x 2" (5cm x 5cm)
	DMOC33	3" x 3" (7.5cm x 7.5cm)
	DMOC45	4" x 5" (10cm x 12.5cm)
	DMOC57	5" x 7" (12.5cm x 17.5cm)
DuraMatrix-Onlay Plus	DMOP11	1" x 1" (2.5cm x 2.5cm)
	DMOP13	1" x 3" (2.5cm x 7.5cm)
	DMOP22	2" x 2" (5cm x 5cm)
	DMOP33	3" x 3" (7.5cm x 7.5cm)
	DMOP45	4" x 5" (10cm x 12.5cm)
	DMOP57	5" x 7" (12.5cm x 17.5cm)
DuraMatrix Repair	DMR11	1" x 1" (2.5cm x 2.5cm)
	DMR13	1" x 3" (2.5cm x 7.5cm)
	DMR22	2" x 2" (5cm x 5cm)
	DMR33	3" x 3" (7.5cm x 7.5cm)
	DMR45	4" x 5" (10cm x 12.5cm)
	DMR57	5" x 7" (12.5cm x 17.5cm)
DuraMatrix Suturable	DMS11	1" x 1" (2.5cm x 2.5cm)
	DMS13	1" x 3" (2.5cm x 7.5cm)
	DMS22	2" x 2" (5cm x 5cm)
	DMS33	3" x 3" (7.5cm x 7.5cm)
	DMS45	4" x 5" (10cm x 12.5cm)
DuraMatrix-Onlay	CDSLM11	1" x 1" (2.5cm x 2.5cm)
	CDSLM13	1" x 3" (2.5cm x 7.5cm)
	CDSLM22	2" x 2" (5cm x 5cm)
	CDSLM33	3" x 3" (7.5cm x 7.5cm)
	CDSLM45	4" x 5" (10cm x 12.5cm)
	CDSLM57	5" x 7" (12.5cm x 17.5cm)
DuraMatrix	CDSM11	1" x 1" (2.5cm x 2.5cm)
	CDSM13	1" x 3" (2.5cm x 7.5cm)
	CDSM22	2" x 2" (5cm x 5cm)
	CDSM33	3" x 3" (7.5cm x 7.5cm)
	CDSM45	4" x 5" (10cm x 12.5cm)



Your choice in **dural closure**

Surge strength. Conformability. Resorption times. When it comes to dural closure, one size does not fit all. That's why we're proud to offer so many quality options through our DuraMatrix portfolio. Since 2003, we have partnered with Regenity Biosciences (formerly Collagen Matrix, Inc.) to provide excellent products that are safe and effective in the restoration of the dura mater. And we're only getting started.

References:
1. Narotam, Pradeep K, et al. "A clinicopathological study of collagen sponge as a dural graft in neurosurgery." J Neurosurg, vol. 82, 1995, pp. 406–412.
2. Sommerich, Bob, Barnick, Anita, Barakat, Mark, & Ward, Michael (2005). In Vivo Tissue Reaction, Resorption, Safety, and Efficacy of a Collagen Dural Substitute in an Animal Model. Codman and Shurtleff, Inc.
3. Test Record 3371, data on file at Regenity Biosciences.
4. Test Record 3375, data on file at Regenity Biosciences.
5. Data on file at CMI; refer to DVER.088
6. Detailed device description from 510(k) submission
7. Data on file at Regenity Biosciences.
8. RD.DM.SP-R1. Data on file at Regenity Biosciences
9. The results of preclinical in vitro studies may not be indicative of human clinical outcomes In vivo evaluation of resorption in a rabbit duraplasty model. Data on file.

Craniomaxillofacial

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