

stryker

# DuraMatrix portfolio



**Restore**  
with  
confidence

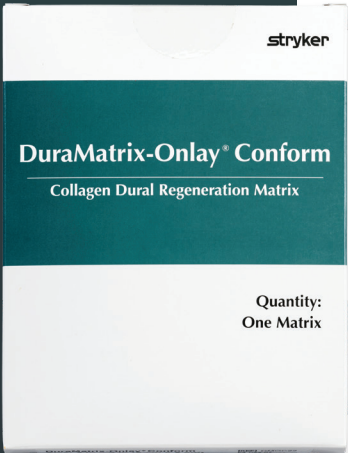
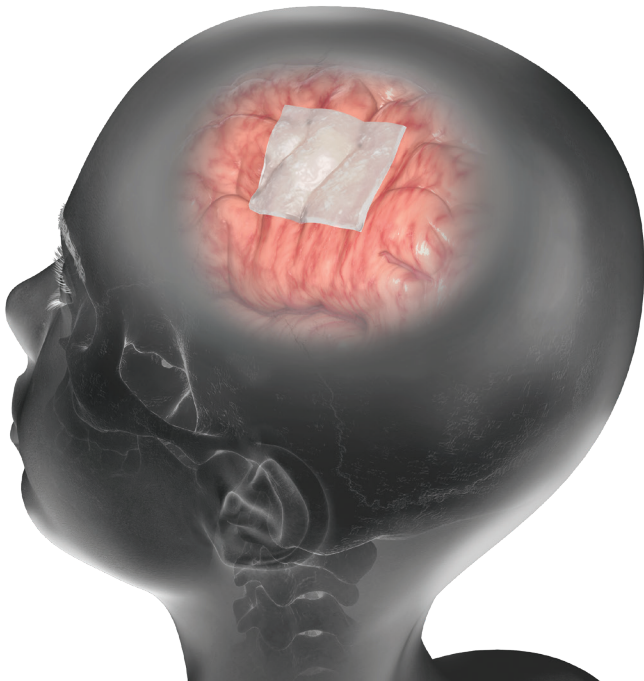
# DuraMatrix-Onlay Conform

Conformable to complex structures

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

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

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 1 cm overlap

## Flexibility

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

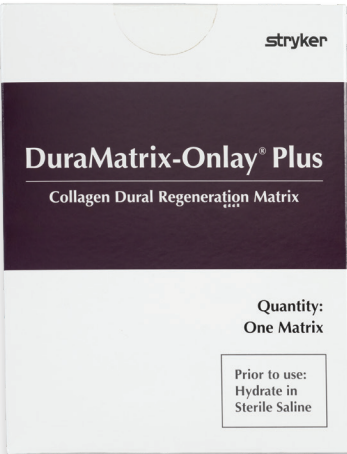
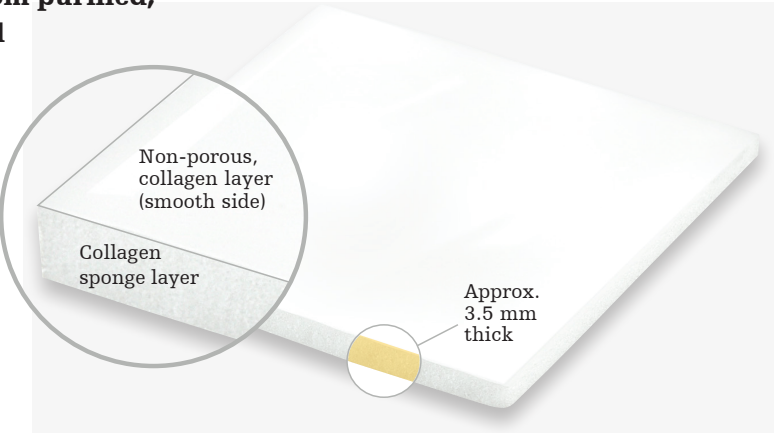
# DuraMatrix-Onlay Plus

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.<sup>3</sup>

DuraMatrix-Onlay Plus offers a balanced resorption profile that occurs over approximately 8 weeks.<sup>4</sup>



## Liquid permeability (ml/min/cm<sup>2</sup>)

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<sup>3,4</sup>**  
lower liquid permeability rate than DuraGen Plus

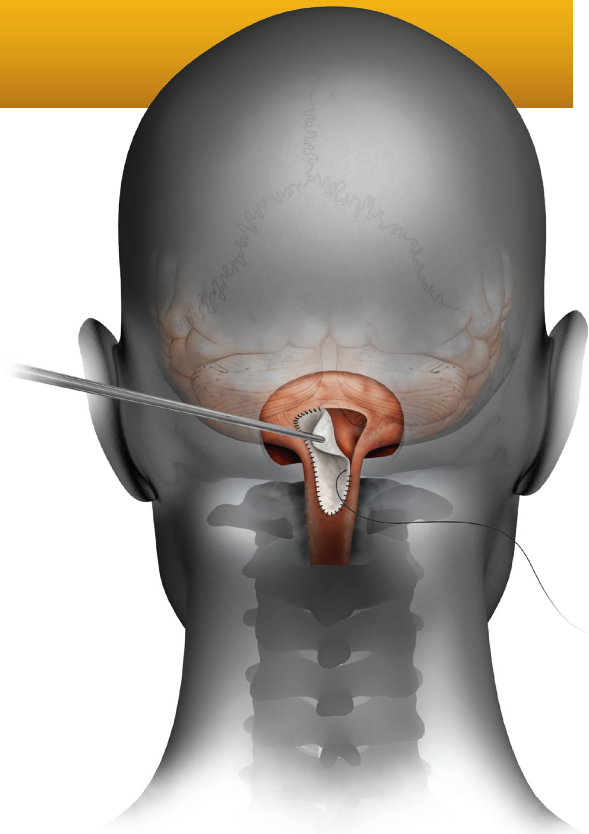
## DuraMatrix Sutureable

Reinforced and reliable

**DuraMatrix Sutureable 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,<sup>4</sup> while new dura mater is regenerated to replace the membrane.

DuraMatrix Sutureable shows significantly higher suture pull out strength compared to Durepair.<sup>3</sup> This permits the graft to be firmly anchored to surrounding tissue with minimal risk of membrane tear or detachment.

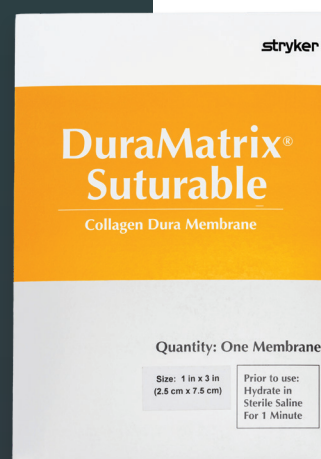


### Suture pull out strength (N)<sup>3, 5</sup>

DuraMatrix Sutureable  
**20.40±1.54 N**

Durepair  
**11.67±4.12 N**

**The total resorption time (defined as <5% implant remaining) is approximately 38-40 weeks for DuraMatrix Sutureable and approximately 20-22 weeks for Durepair.<sup>4</sup>**



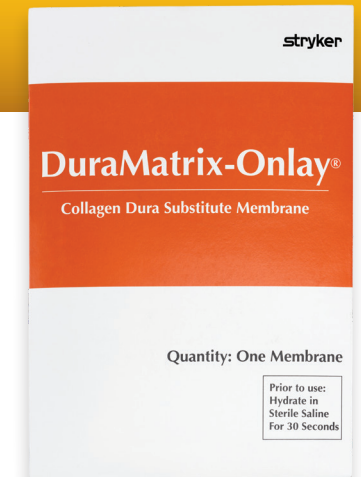
## DuraMatrix-Onlay

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.<sup>5</sup>

DuraMatrix-Onlay offers a balanced resorption that occurs over 6-9 months.<sup>4</sup>



## 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.

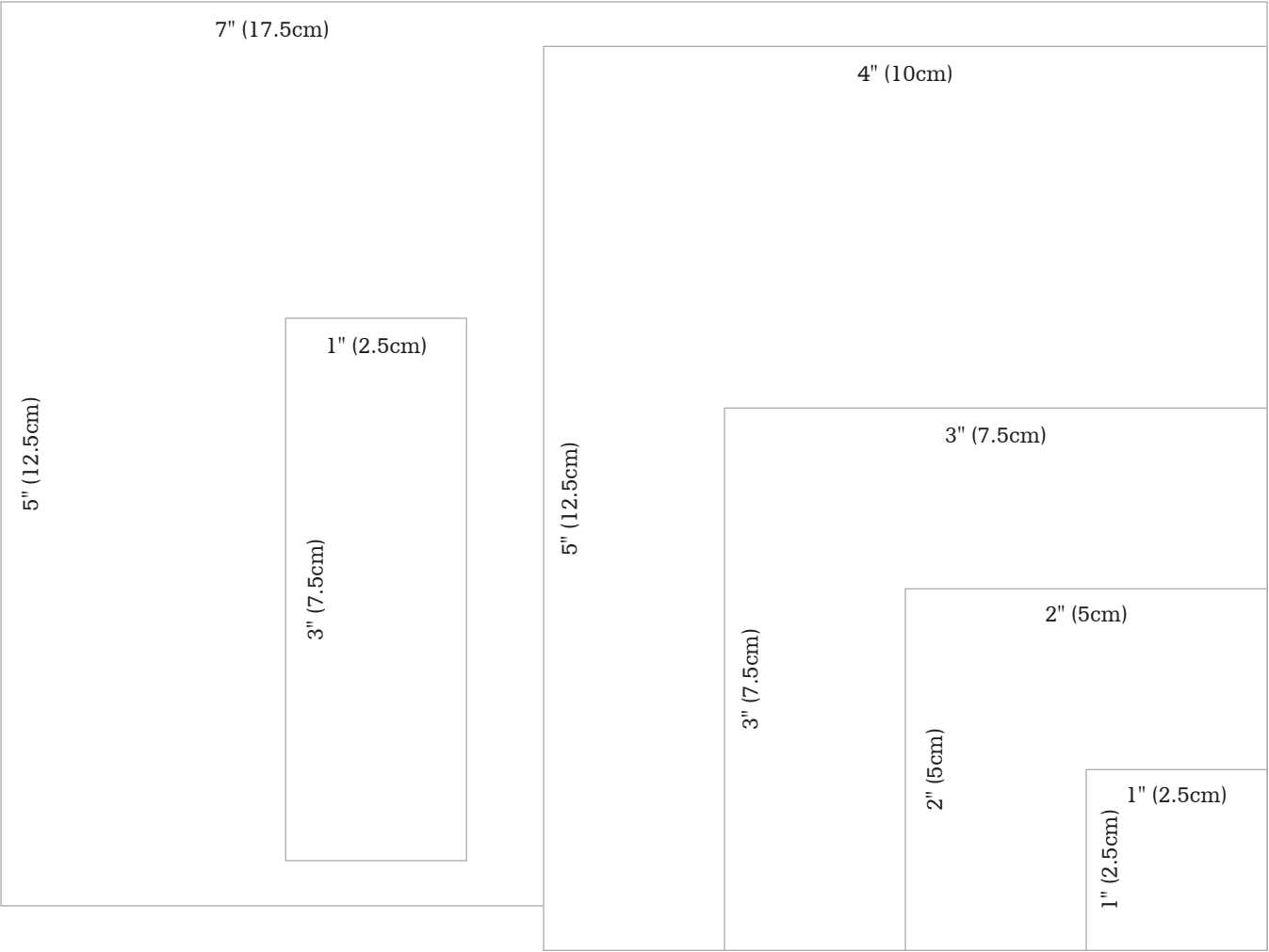
DuraMatrix offers a balanced resorption that occurs over 6-9 months.<sup>4</sup>



**74.8%**

greater suture  
pullout strength  
than Durepair

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



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. Leary, Scott and Dingee, Cindy. An in vivo comparison of Dura Substitute Membranes using a Canine Model, Collagen Matrix Inc.

## Craniomaxillofacial

This information is intended solely for the use of healthcare professionals. A surgeon must always rely on his or her own professional clinical judgment when deciding whether to use a particular product when treating a particular patient. Stryker does not dispense medical advice and recommends that surgeons be trained in the use of specific products before using them in surgery.

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