Neurosurgery is complex. DuraGen® is the simple choice.

DuraGen® Classic
Dural Regeneration Matrix
Keep Closure Simple.
The Original Onlay Dural Graft

DuraGen® dural graft is one of the safest and most effective onlay grafts for the restoration and repair of dura mater.

- DuraGen is made from a controlled collagen source and is treated with a proprietary process designed to remove antigenic components, yielding our Ultra Pure Collagen™.
- It is conformable and contours instantly and effectively to the complex surfaces of the brain and spinal cord, rapidly forming a biological seal to protect against CSF leakage.

- Integra pioneered regenerative medicine.
- Over 10 million collagen implants.
- Integra created the onlay dural graft paradigm.

How DuraGen Works

The onlay nature of DuraGen revolutionized duraplasty.

- The highly porous collagen scaffold promotes rapid fibrin clot formation.
- DuraGen rapidly provides watertight closure to prevent CSF leakage while promoting natural dural growth.

It Starts with Ultra Pure Collagen™
Limits the risk of infection, immunological response, and foreign body reaction.

Precisely Engineered Porosity
Allows rapid fibrin clot formation to stop CSF leakage and facilitates uniform tissue regeneration throughout the matrix.

Excellent Conformability and Handling
Provides intimate graft contact with dural margins to keep the graft in place without suture and to reduce leakage.

DuraGen® Classic
Dural Regeneration Matrix

- The original onlay dural regeneration graft.
- Extensively clinically studied.
- Engineered with advanced sealing, flexibility, and resorption capabilities for a safe and simple repair.
Scientific Superiority

1. Excellent Conformability and Adherence
   - The hydrated graft conforms intimately to the complex surfaces of the exposed brain or spinal cord.
   - Matrix rapidly fills with the patient’s blood and plasma exudate.

2. Rapid CSF Leak Prevention
   - Type 1 collagen matrix rapidly initiates platelet aggregation.
   - Upon contact with the collagen matrix, platelets degranulate and release clotting factors that initiate fibrin clot formation.
   - The fibrin clot creates a watertight barrier and binds the implanted matrix to the patient’s dura.

3. Rapid Fibroblast Infiltration
   - Ultra Pure Collagen, in combination with the open pore structures, promotes fibroblast activity and acts as a scaffold for cells to deposit new collagen.
   - The graft structure features pores of 50 to 150 microns, within the optimal size for rapid fibroblast infiltration.
   - Fibroblasts begin to migrate into the matrix 2 to 3 days after implantation and start the process of laying down new collagen.

4. Uniform Tissue Formation
   - Within two weeks of implantation, a neodural membrane has formed between the dural margins to permanently close the dural defect.
   - After 6-8 weeks, the implant is resorbed and replaced by dura.
   - After 1 year, the neodura has developed into mature dura.
Integra’s DuraGen products have more published human clinical data than any other collagen-based dural graft. Clinical studies have shown effective protection against CSF leakage with sutureless closure and no reports of foreign body reactions or graft rejections.

Summary outcome statistics derived from the following 10 clinical studies:


DuraGen Classic Dural Regeneration Matrix

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<th>Catalog Number</th>
<th>Size</th>
<th>Units/Case</th>
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2 Million Implants and Counting

Only Integra DuraGen grafts provide the confidence of utilizing a dural matrix which has been implanted over two million times.