

***Baxter***

# Tissue Guard

FAMILY OF SURGICAL PATCHES

**35+ YEARS  
OF CLINICAL  
HISTORY**

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**TISSUE GUARD**

supports surgeons across  
multiple specialties with  
surgical closure.



# Benefits of Bovine Pericardium

Native collagen grafts derived from bovine pericardium, TISSUE GUARD products offer surgeons a strong, suturable implant with excellent handling characteristics similar to autologous tissue.<sup>1</sup> TISSUE GUARD's history and heritage of healing make it an ideal implant choice in a variety of applications.



### STRENGTH

Strong yet supple material with consistency similar to autologous tissue<sup>1,2</sup>



### HANDLING

Easy to manipulate, contour and suture to the anatomy<sup>2</sup>



### BIOCOMPATIBLE

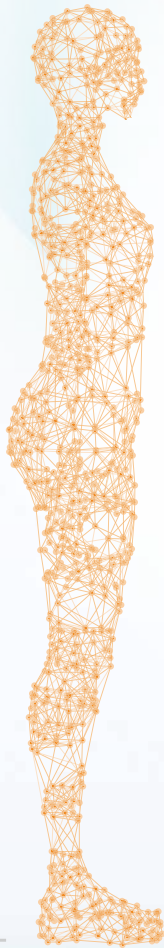
Inert, low immunogenic properties with excellent host tissue response<sup>2,3</sup>



### RESISTANT

Reapproximates to suture, resisting suture line bleeding<sup>3</sup>

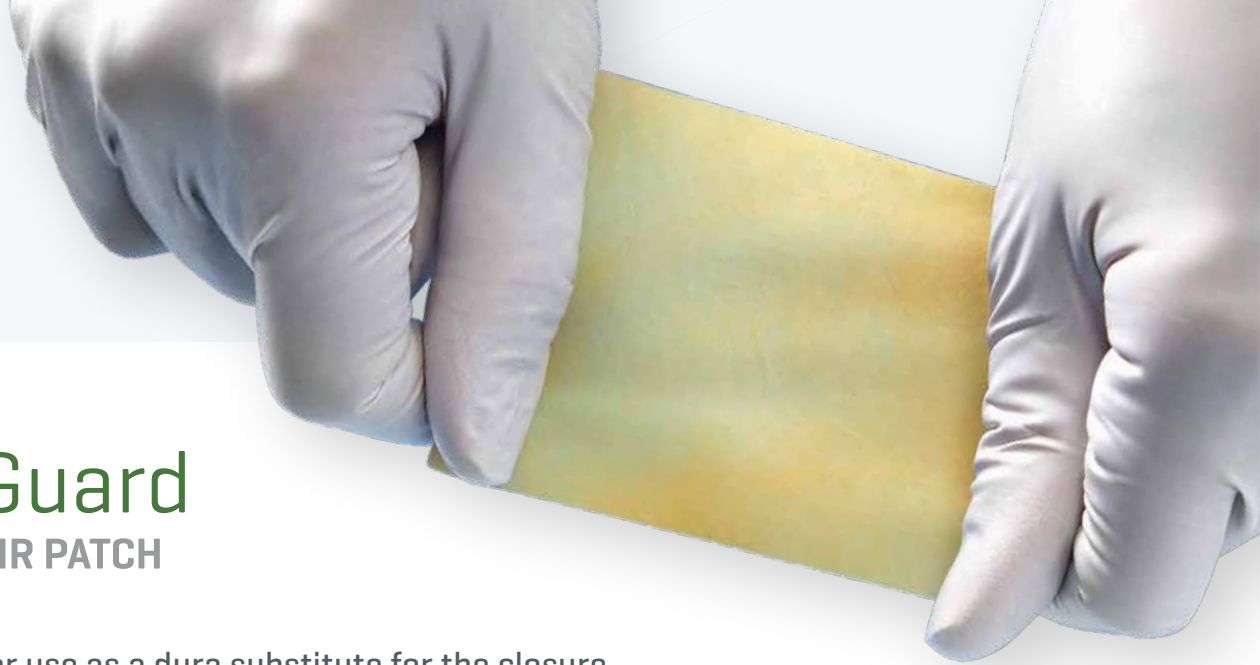
**Dura-Guard**  
DURAL REPAIR PATCH



**Peri-Guard**  
REPAIR PATCH

**Supple Peri-Guard**  
REPAIR PATCH

**Vascu-Guard**  
PERIPHERAL VASCULAR PATCH



# Dura-Guard

## DURAL REPAIR PATCH



For use as a dura substitute for the closure of dura mater during neurosurgery

### APPLICABLE PROCEDURES:

- Tumor Resection
- Trauma
- Congenital Disorders

### CLINICAL BENEFITS:

- Strong yet flexible material with minimal elasticity similar to native dura<sup>2,4</sup>
- Easy to manipulate, contour and suture to the anatomy<sup>2</sup>
- Reduces risk of CSF leaks through watertight closure<sup>5</sup>
- Good for high and low pressure CSF sites<sup>6\*</sup>

\*Preclinical data. Results may not correlate to results in humans.

# Vascu-Guard

## PERIPHERAL VASCULAR PATCH



For use in peripheral vascular reconstruction including the carotid, renal, iliac, femoral, profunda and tibial blood vessels

### APPLICABLE PROCEDURES:

- Carotid endarterectomy
- Profundaplasty
- Femoral, iliac, renal and tibial patching

### CLINICAL BENEFITS:

- Resists suture line bleeding<sup>3</sup>
- Reduced long-term restenosis rates when compared to Dacron angioplasty and primary closure<sup>3,7</sup>
- Facilitates Doppler ultrasound directly through patch<sup>7</sup>
- Low incidence of post-operative and long-term adverse events<sup>3,7-9</sup>

# Peri-Guard

REPAIR PATCH

# Supple Peri-Guard

REPAIR PATCH

PERI-GUARD and SUPPLE PERI-GUARD have similar indications for use and applicable procedures, however, handling characteristics differ. PERI-GUARD has stiffer handling characteristics than SUPPLE PERI-GUARD due to additional stretching and dehydration steps taking during the manufacturing process. Use of a stiffer product configuration is a matter of physician preference and not expected to have a clinical impact.



For use as a prosthesis for pericardial closure and soft tissue deficiencies which include: defects of the thoracic wall, and intracardiac and great vessel repair

## APPLICABLE PROCEDURES:

- Pericardial, intracardiac, and great vessel repair
- Thoracic and cardiothoracic surgery

## CLINICAL BENEFITS:

- No long-term signs of graft degeneration following aortic valve reconstruction<sup>10,15</sup>
- Favorable early to mid-term outcomes following aortic valve reconstruction<sup>11</sup>
- Complete lung expansion following chest wall reconstruction<sup>12,13,16</sup>
- No signs of herniation post chest wall reconstruction<sup>13,16</sup>
- Reduced adhesions and inflammation<sup>13,16</sup>



**1.3 MILLION+  
UNITS SOLD**

**OVER 35 YEARS**

# FLEXIBILITY THAT **FITS YOUR NEEDS**

	<b>PRODUCT SIZE</b>	<b>PRODUCT CODE</b>
<b>Dura-Guard</b> DURAL REPAIR PATCH	2 cm x 9 cm	DG-0209SN
	4 cm x 4 cm	DG-0404SN
	6 cm x 8 cm	DG-0608SN
	8 cm x 14 cm	DG-0814SN
	10 cm x 16 cm	DG-1016SN
<b>Vascu-Guard</b> PERIPHERAL VASCULAR PATCH	1 cm x 6 cm	VG-0106N
	0.8 cm x 8 cm (tapered end)	VG-0108N
	1 cm x 10 cm	VG-0110N
	2 cm x 9 cm	VG-0209N
	4 cm x 4 cm	PC-0404N
<b>Peri-Guard</b> REPAIR PATCH	6 cm x 8 cm	PC-0608N
	8 cm x 14 cm	PC-0814N
	10 cm x 16 cm	PC-1016N
	12 cm x 25 cm	PC-1225N
	4 cm x 4 cm	PC-0404SN
<b>Supple Peri-Guard</b> REPAIR PATCH	6 cm x 8 cm	PC-0608SN
	8 cm x 14 cm	PC-0814SN
	10 cm x 16 cm	PC-1016SN

**Baxter**

# Tissue Guard

FAMILY OF SURGICAL PATCHES

## Indications and Important Risk Information

### DURA-GUARD

#### INDICATIONS FOR USE

DURA-GUARD is intended for use as a dura substitute for the closure of dura mater during neurosurgery.

#### CONTRAINDICATIONS

DURA-GUARD is not designed, sold, or intended for use except as indicated. Do not use DURA-GUARD in patients with a known sensitivity to bovine material.

#### ADVERSE REACTIONS AND WARNINGS

Failure to rinse the product may result in a sterile inflammatory reaction.

For safe and proper use of this device refer to the complete Instructions for Use.

### PERI-GUARD

#### INDICATIONS FOR USE

PERI-GUARD is intended for use as a prosthesis for pericardial closure and soft tissue deficiencies which include defects of the thoracic wall, and intracardiac and great vessel repair.

#### CONTRAINDICATIONS

PERI-GUARD is not designed, sold, or intended for use except as indicated. Do not use PERI-GUARD in patients with known sensitivity to bovine material.

#### ADVERSE REACTIONS AND WARNINGS

Failure to rinse the product may result in a sterile inflammatory reaction.

For safe and proper use of this device refer to the complete Instructions for Use.

### SUPPLE PERI-GUARD

#### INDICATIONS FOR USE

SUPPLE PERI-GUARD is intended for use as a prosthesis for pericardial closure and soft tissue deficiencies which include: defects of the thoracic wall, and intracardiac and great vessel repair.

#### CONTRAINDICATIONS

SUPPLE PERI-GUARD is not designed, sold, or intended for use except as indicated. Do not use SUPPLE PERI-GUARD on patients with a known sensitivity to bovine material.

#### ADVERSE REACTIONS AND WARNINGS

Failure to rinse the product may result in a sterile inflammatory reaction.

For safe and proper use of this device refer to the complete Instructions for Use.

### VASCU-GUARD

#### INDICATIONS FOR USE

VASCU-GUARD is intended for use in peripheral vascular reconstruction including the carotid, renal, iliac, femoral, profunda and tibial blood vessels.

#### CONTRAINDICATIONS

VASCU-GUARD is not designed, sold, or intended for use except as indicated. Do not use VASCU-GUARD in patients with known sensitivity to bovine material.

#### ADVERSE REACTIONS AND WARNINGS

Failure to rinse the product may result in a sterile inflammatory reaction.

For safe and proper use of this device refer to the complete Instructions for Use.

For questions or ordering information, go to [advancedsurgery.baxter.com](http://advancedsurgery.baxter.com) or contact your local Baxter representative.

## Advancing the art of healing

1. Matsagas, M. I., et al. (2006). Carotid Endarterectomy with Bovine Pericardium Patch Angioplasty: Mid-Term Results. *Ann Vasc Surg*, 614-619.
2. Anson J. A., et al. (1996). Bovine pericardium for dural grafts: clinical results in 35 patients. *Neurosurgery*, 39(4):764-8.
3. Biasi, G.M., et al. (2002). Nine-year experience of bovine pericardium patch angioplasty during carotid endarterectomy. *J Vasc Surg*, 36:271-277.
4. Kirsch WM, Zhu YH, Chrisler J, et al. Glutaraldehyde cross-linked bovine pericardium as a dural substitute: a report of clinical and experimental studies. Presented at the American Association of Neurological Surgeons, April 1996.
5. Williams, L.E., (2013). The need in dural graft suturing in Chiari I malformation decompression: A prospective, single blind, randomized trial comparing sutured and sutureless duraplasty materials. *Surg Neurol Int*, 4:26.
6. Zerris, V.A., et al. (2007). Repair of the Dura Mater With Processed Collagen Devices. *J Biomed Mater Res Part B: Appl Biomater*, 83B: 580-588.
7. Ho, K.J., et al (2012). Intermediate-term outcome of carotid endarterectomy with bovine pericardial patch closure compared with Dacron patch and primary closure. *J Vasc Surg*, Mar;55(3):708-14.
8. Dorweiler, B. et al. (2015). Long-Term Performance of the Bovine Pericardium Patch in Conventional Carotid Endarterectomy. *Thorac Cardiovasc Surg*, Mar;63(2):168-74.
9. Grimsley, B.R., et al. (2001). Bovine pericardial patch angioplasty in carotid endarterectomy. *The American Surgeon*, 67: 890-895.
10. Weiss, S., et al. (2017). Self Made Xeno-pericardial Aortic Tubes to Treat Native and Aortic Graft Infections. *Eur J Vasc Endovasc Surg*. 54(5):646-652.
11. Song, MG YH., et al. (2014). Aortic valve reconstruction with leaflet replacement and sinotubular junction fixation: early and midterm results. *Ann Thorac Surg*, 97(4):1235-1241.
12. Redwan B., et al. (2015). A novel surgical approach for diaphragmatic plasty using biological patches in patients with idiopathic diaphragm palsy. Conference Publication: 23rd European Conference on General Thoracic Surgery 31 May-3 June 2015, Lisbon, Portugal.
13. Hille, U., et al. (2013). Chest wall resection and reconstruction for locally advanced primary breast cancer. *Arch Gynecol Obstet*, 287:1205-1209.
14. IFU
15. Hahm SY, Choo SJ, Lee JW, Seo JB, Lim TH, Song JK, Shin JK, Song MG. Novel technique of aortic valvuloplasty. *Eur J Cardiothorac Surg*. 2006 Apr;29(4):530-6. doi: 10.1016/j.ejcts.2006.01.009. Epub 2006 Feb 23. PMID: 16497511.
16. Wiegmann B, Zardo P, Dickgreber N, Länger F, Fegbeutel C, Haverich A, Fischer S. Biological materials in chest wall reconstruction: initial experience with the Peri-Guard Repair Patch. *Eur J Cardiothorac Surg*. 2010 Mar;37(3):602-5. doi: 10.1016/j.ejcts.2009.07.012. Epub 2009 Sep 3. PMID: 19733092.

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GBU-AS25-220003 v1.0 June 2022

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