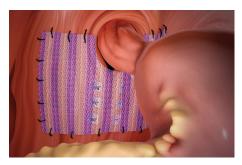
# Phasix™ ST Mesh

Hiatal hernia

A durable repair without permanent material<sup>1,2</sup>

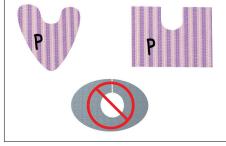
# Phasix™ ST Mesh with a proven hydrogel barrier for hiatal hernia repair

Phasix<sup>™</sup> ST Mesh combines two technologies into one product: monofilament bioresorbable Phasix<sup>™</sup> Mesh and a proven hydrogel barrier based on Sepra Technology.<sup>3</sup> Phasix<sup>™</sup> ST Mesh provides a durable scaffold for soft tissue repair.<sup>4</sup>



Designed to reinforce and conform to the crural repair in hiatal hernia procedures<sup>3</sup>





### Closure of crura

The crural defect should be closed using the surgeon's preferred method, while also ensuring it is not too tight around the oesophagus.<sup>5,6</sup>

**Note:** The use of Phasix<sup>™</sup> ST Mesh in bridging repairs has not been clinically evaluated. Every effort should be made to close the crural defect prior to use.<sup>3</sup>

## Cut and hydrate

While dry, cut the Phasix™ ST Mesh to size based on surgeon preference, anatomical requirements, and to provide sufficient overlap of the defect. Mark the barrier side for orientation. Hydrate the mesh in saline for 1-3 seconds (laparascopic only) and introduce through the trocar with the uncoated mesh side facing out.³

**Note:** For hiatal hernia repair, the use of Phasix<sup>™</sup> ST Mesh circumferentially around the oesophagus is not recommended.<sup>3</sup>



### **Placement**

Phasix<sup>M</sup> ST Mesh should be used to buttress the primary closure of a crural defect.

Place the resorbable, hydrogel coated side of the prosthesis against those surfaces where minimal tissue attachment is desired, i.e., against bowel or other visceral structures.

Phasix<sup>™</sup> ST Mesh should be placed over the margins of the defect with sufficient overlap beyond the margins, and to fit patient's anatomy.<sup>3,6</sup>



## Phasix<sup>™</sup> ST Mesh - clinical data in paraesophageal hernias (PEH)<sup>5,6</sup>

Studies evaluating recurrence of PEH using Phasix™ ST Mesh								
Author	Year	Title	Patients	Follow-Up	Recurrences and timing	Mesh complications		
DeMeester, et al. <sup>5</sup>	2019	Combination of surgical technique and bioresorbable mesh reinforcement of the crural repair leads to low early hernia recurrence rates with laparoscopic paraesophageal hernia repair	50	1 year	8% (4 patients) within 1 year	None		
Tonucci, et al. <sup>6</sup>	2019	Safety and efficacy of crura augmentation with Phasix™ ST Mesh for large hiatal hernia: 3 year single-center experience	73	Median 17 months	3.2% (2 patients) 12 and 16 months	None		

<sup>\*</sup> Recurrence was defined as any size hernia identified on postoperative barium upper gastrointestinal study (UGI) or oesophago-gastro-duodenoscopy (EGD).

#### Product codes

Product Code	Shape		Dimensions
1200008	Round	$\bigcirc$	8 cm
1200011	Round	$\circ$	11cm
1200015	Round	$\bigcirc$	15cm
1200710	Rectangle		7cm x 10cm
1201010	Square		10cm x 10cm
1201015	Rectangle		10cm x 15cm
1201020	Rectangle		10cm x 20cm
1201325	Rectangle		13cm x 25cm
1201520	Rectangle		15cm x 20cm
1202025	Rectangle		20cm x 25xm
1202530	Rectangle		25cm x 30cm
1203035	Rectangle		30cm x 35cm



References: 1. Roth JS, Anthone GJ, Selzer DJ, et al. Prospective, multicenter study of P4HB (Phasix<sup>™</sup>) mesh for hernia repair in cohort at risk for complications: 3-Year follow up. Annals of Medicine and Surgery. 2021; 61:1-7. 2. Martin DP, Badwhar A, Shah DV, et al. Characterization of poly-4-hydroxybutyrate mesh for hernia repair applications. J Surg Research. 2013;184(2):766-773. doi: 10.1016/j.jss.2013.03.044. 3. Instructions For Use: Phasix<sup>™</sup> ST Mesh - A Resorbable Mesh with a Resorbable Hydrogel Coating for Soft Tissue Reconstruction 4. Decken CR, Matthews BD. Characterization of the Mechanical Strength, Resorption Properties, and Histologic Characteristics of a Fully Absorbable Material (Poly-4-hydroxybutyrate—PHASIX<sup>™</sup> Mesh) in a Porcine Model of Hernia Repair. ISRN Surg. 2013; May 28;2013:238067.doi: 10.1155/2013/238067. 5. Abdelmoatly WF, Dunst CM, Filicori F, et al. Combination of surgical technique and bioresorbable mesh reinforcement of the crural repair leads to low early hernia recurrence rates with laparoscopic paraesophageal hernia repair. J Gastrointest Surg. 2020;24(7):1477-148. 6. Tonucci, TP, Asti, E., Sironi, A, et al. Safety and Efficacy of Crura Augmentation with Phasix ST Mesh for Large Hiatal Hernia: 3-Year Single-Center Experience. J LapEndo & Adv Surg Tech. 2019; 0:1-4. DOI: 10.1089/lap.2019.0726.

INDICATIONS. Phasix.\*\* ST Mesh is indicated for use in the abdominal soft tissue, where weakness exists, in ventral and hiatal hernia repair procedures. CONTRAINDICATIONS Because Phasix.\*\* ST Mesh is fully resorbable, it should not be used in repairs where permanent wound or organ support from the mesh is required. WARNINGS 1. Device manufacture involves exposure to tetracycline hydrochloride and kanamyrin sulfate. The safety and product use for patients with hypersensitivities to these antibiotics is unknown. Use of this device in patients with known allergies to tetracycline hydrochloride or kanamyrin sulfate should be avoided. 2.Ensure proper orientation; the coated dead of the prosthesis should be oriented against the bowel or sensitive organs. Do not place the uncoated mesh side against the bowel. There is a risk for adhesion formation or erosions when the uncoated mesh side is placed in direct contact with the bowel or viscera. (Reference Surface Orientation section.) 3. The safety and effectiveness of Phasix.\*\* ST Mesh in bridging repairs has not been evaluated or established. 4. The use of any synthetic mesh or patch in a contaminated or infection double of the fishing require removal of the mesh. 6. To prevent recurrences when repairing here need to remove the mesh. An unresolved infection may require removal of the mesh. 6. To prevent recurrences when repairing here need to remove the mesh. An unresolved infection any require removal of the mesh. 6. To prevent recurrences when repairing here need to remove the mesh and fascial tissue. 7. For hiatal hernia repair, the use of Phasix.\*\* ST Mesh circumferentially around the esophagus is not recommended. 8. For hiatal hernia repair, the use of Phasix.\*\* ST Mesh circumferentially around the esophagus is not recommended. 8. For hiatal hernia repair, the use of Phasix.\*\* ST Mesh circumferentially around the esophagus is not recommended. 9. For hiatal hernia repair, the use of Phasix.\*\* ST Mesh circumferentially around the esophagus is not recommended. 9. For

Becton Dickinson Pty Ltd T/A Bard Australia Pty Ltd. Customer Service: 1800 257 232.

#### bd.com/anz



<sup>\*\*</sup> Recurrence was defined as the maximal length of stomach > 2cm above the diaphragmatic impression at endoscopy and/or barium swallow study.