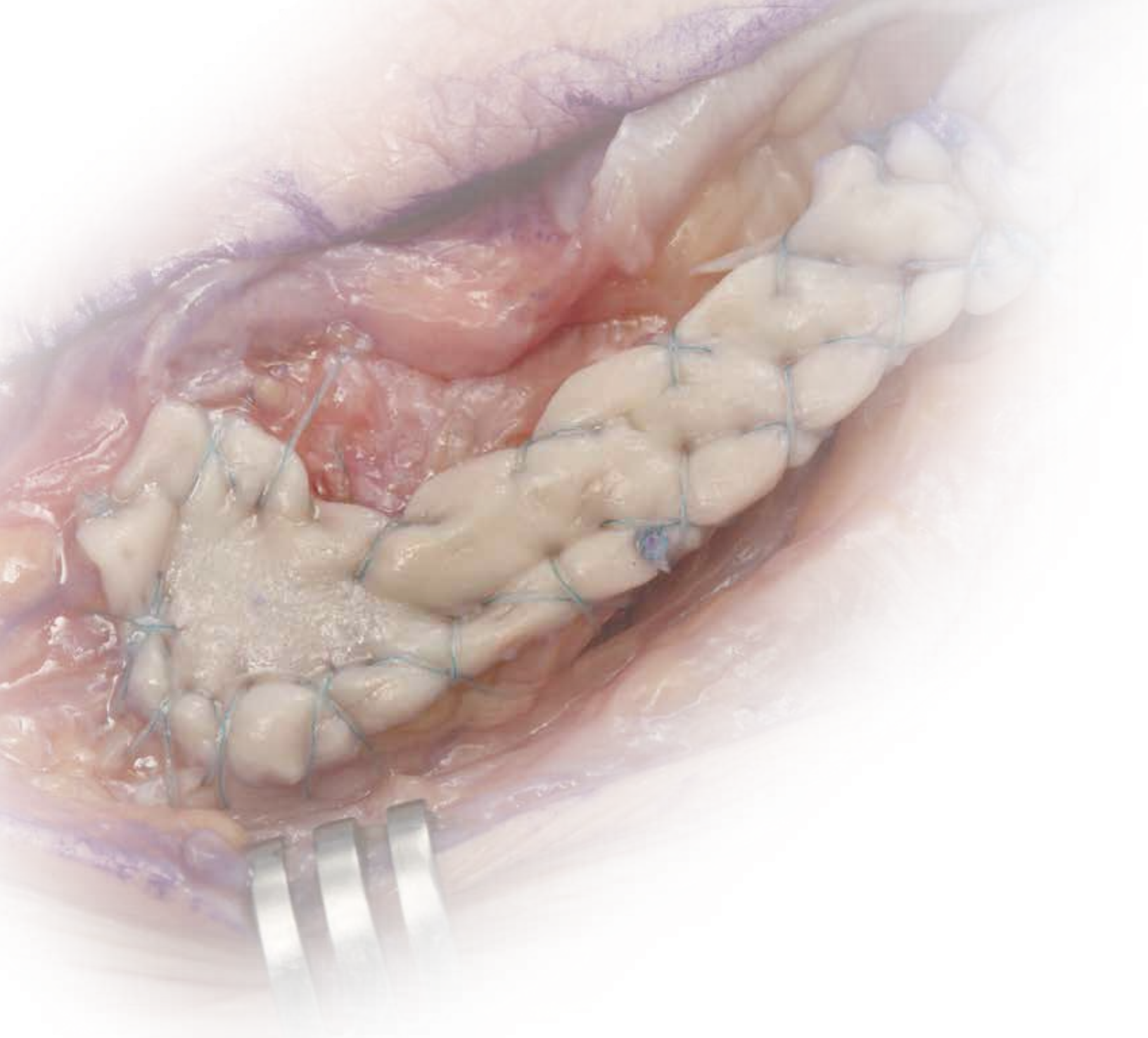

DermaSpan™ Acellular Dermal Matrix

Reinforcement of Ruptured Posterior Tibial Tendon Repair

Surgical Protocol by
Charles Zelen, DPM, FACFAS

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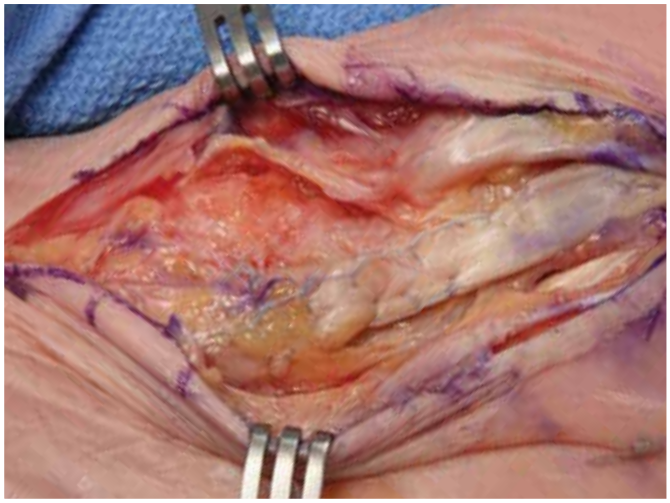

Figure 1

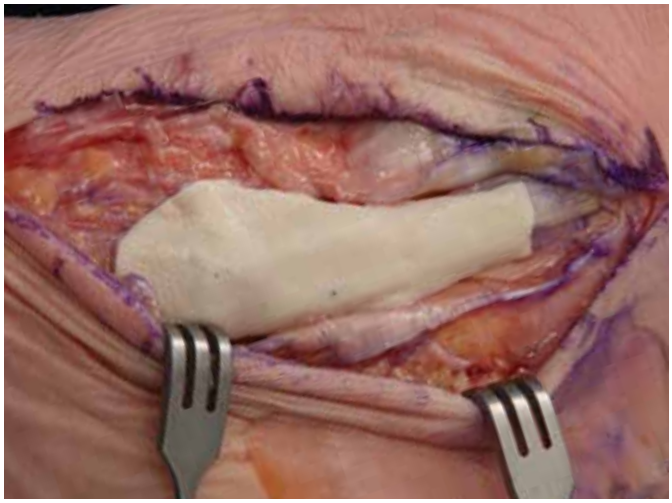

Figure 2

Perform Primary Repair

Utilizing a #2 MaxBraid™ suture with a Krackow locking stitch (or equivalent) technique, perform a suture repair on the ruptured posterior tibial tendon (Figure 1).

Note: If the insertion of the posterior tibial tendon is involved, JuggerKnot™ Soft Anchors may be considered to anchor the tendon down to the navicular.

Apply DermaSpan™ Acellular Dermal Matrix

Rehydrate an appropriate sized DermaSpan™ Acellular Dermal Matrix per the rehydration instruction in the Instructions for Use. Place the DermaSpan™ ACD on the lateral face of the repaired posterior tibial tendon ensuring that the dermal side of the graft is contacting the tendon and the basement side is away from the tendon (Figure 2). Note this is critical to allow for appropriate tissue integration of the graft during the healing process.

Align the DermaSpan™ ACD so that it evenly covers the proximal and distal portions of the posterior tibial tendon around the rupture. Trim the DermaSpan™ ACD as necessary to appropriately cover the repair site.

When the insertion of the posterior tibial tendon is involved, cover the dorsal and plantar periosteum of the navicular with the DermaSpan™ ACD (Figure 2).

This surgical technique is utilized by Charles Zelen, DPM, FACFAS. Biomet does not practice medicine. Each surgeon is responsible for determining the appropriate device and technique to utilize on each individual patient.

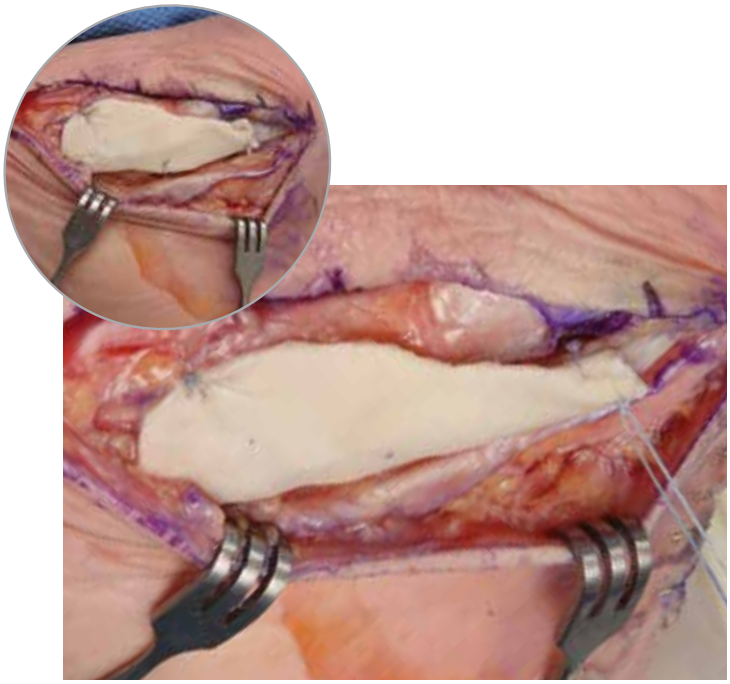

Figure 3

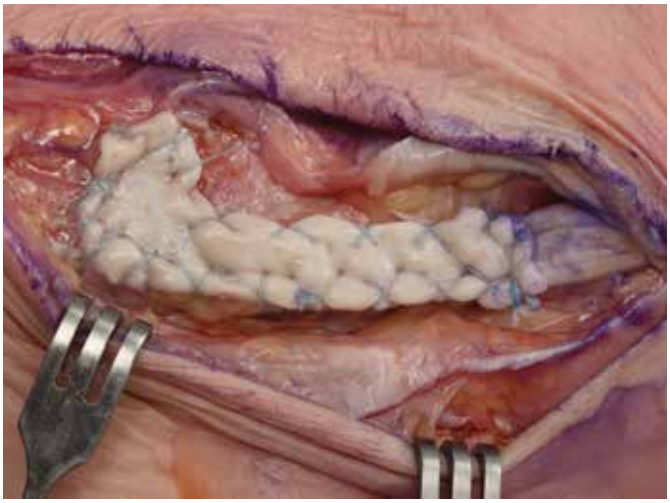

Figure 4

Tack DermaSpan™ ACD in Place

Apply tack sutures with 2-0 MaxBraid™ suture through the DermaSpan™ ACD and the posterior tibial tendon, one at the distal end and one at the proximal end of the graft to retain the positioning of the DermaSpan™ ACD over the repair site. Apply additional tack sutures with 2-0 MaxBraid™ suture as needed around the perimeter of the graft to ensure the positioning is retained (Figure 3).

Augment Repair– Apply Running Sutures

Utilizing 2-0 MaxBraid™ suture, apply nine lateral trap-running sutures on the anterior aspect of the repair. Ensure that the sutures run through the DermaSpan™ ACD and the posterior tibial tendon. Subsequently, apply nine lateral trap-running sutures on the posterior aspect of the repair. Ensure that the sutures run through the DermaSpan™ ACD and the posterior tibial tendon. MaxBraid™ suture may also be stitched into the surrounding periosteum of the navicular when appropriate (Figure 4).

DermaSpan™ Acellular Dermal Matrix

Part Numbers

Non-mesh

Part Number	Size	Thickness
48-0700404	4 cm – 4 cm	0.5 mm – 0.9 mm
48-0700408	4 cm – 8 cm	0.5 mm – 0.9 mm
48-1100407	4 cm – 7 cm	0.8 mm – 1.4 mm
48-1100510	5 cm – 10 cm	0.8 mm – 1.4 mm
48-1100505	5 cm – 5 cm	0.8 mm – 1.4 mm
48-0900307	3 cm – 7 cm	0.9 mm – 1.99 mm
48-0900407	4 cm – 7 cm	0.9 mm – 1.99 mm
48-0900412	4 cm – 12 cm	0.9 mm – 1.99 mm
48-0900416	4 cm – 16 cm	0.9 mm – 1.99 mm
48-0900510	5 cm – 10 cm	0.9 mm – 1.99 mm
48-0900612	6 cm – 12 cm	0.9 mm – 1.99 mm
48-0900616	6 cm – 16 cm	0.9 mm – 1.99 mm
48-0900812	8 cm – 12 cm	0.9 mm – 1.99 mm
48-0900816	8 cm – 16 cm	0.9 mm – 1.99 mm
48-0901212	12 cm – 12 cm	0.9 mm – 1.99 mm
48-0901620	16 cm – 20 cm	0.9 mm – 1.99 mm
48-2000307	3 cm – 7 cm	2.0 mm – 3.5 mm
48-2000407	4 cm – 7 cm	2.0 mm – 3.5 mm
48-2000412	4 cm – 12 cm	2.0 mm – 3.5 mm
48-2000416	4 cm – 16 cm	2.0 mm – 3.5 mm
48-2000510	5 cm – 10 cm	2.0 mm – 3.5 mm
48-2000612	6 cm – 12 cm	2.0 mm – 3.5 mm
48-2000616	6 cm – 16 cm	2.0 mm – 3.5 mm
48-2000812	8 cm – 12 cm	2.0 mm – 3.5 mm
48-2000816	8 cm – 16 cm	2.0 mm – 3.5 mm
48-2001212	12 cm – 12 cm	2.0 mm – 3.5 mm
48-2001620	16 cm – 20 cm	2.0 mm – 3.5 mm

Mesh

48-0400404M	4 cm – 4 cm	0.4 mm – 0.8 mm
48-0400408M	4 cm – 8 cm	0.4 mm – 0.8 mm

Indications for Use

DermaSpan™ ACD is processed to remove cells while maintaining the integrity of the matrix with the intent to address the issues of the specific and nonspecific inflammatory responses. It is to be used for the repair or replacement of damaged or inadequate integumental tissue or for other homologous uses of human integument. It may also be used for supplemental support, protection, reinforcement or covering of tendon. Each package of DermaSpan™ ACD is intended for use in one patient, on a single occasion by a licensed physician, surgeon, dentist or podiatrist.

Contraindications

Use of DermaSpan™ ACD in patients exhibiting autoimmune connective tissue disease is not recommended. When applied properly DermaSpan™ ACD has been shown to support the migration of host cells from wound margins and surrounding tissue. Conditions that could inhibit migration of host cells include, bur are not limited to the following:

- Fever
- Uncontrolled diabetes
- Pregnancy
- Low vascularity of the surrounding tissue
- Local or systemic infection
- Mechanical trauma
- Poor nutrition or general medical condition
- Dehiscence and/or necrosis due to poor revascularization
- Specific or nonspecific immune response to some component of the allograft
- Inability to cooperate with and/or comprehend post-operative instructions
- Infected or nonovascular surgical sites

DermaSpan™ ACD may contain trace amounts of processing agents listed in the Warnings section of the insert. DermaSpan™ ACD should not be used in patients sensitive or allergic to these specific agents.

For product information, including indications, contraindications, warnings, precautions and handling instructions, see the package insert and patient risk information at www.biomet.com.

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