Proven Material

Not all bioabsorbable materials are the same. GORE® SEAMGUARD® Bioabsorbable Staple Line Reinforcement has a legacy of performance. Backed by more than 10 years of experience and nearly two million implants. Further proof of why we say “Material Matters.”

<table>
<thead>
<tr>
<th>PGA:TMC*</th>
<th>≠</th>
<th>PGA**</th>
</tr>
</thead>
<tbody>
<tr>
<td>GORE® SEAMGUARD® Reinforcement</td>
<td>≠</td>
<td>NEOVEIL® Felt</td>
</tr>
</tbody>
</table>

- PGA:TMC has a slower degradation rate than PGA
  – GORE® SEAMGUARD® Reinforcement is fully degraded by six to seven months.
  – NEOVEIL® Felt is fully degraded by 15 weeks.¹
- Slower degrading polymers typically have a reduced inflammatory response compared to faster degrading polymers.²
- PGA:TMC has a lower inflammatory response than PGA.²

Material Matters

- Innovative material science is at the core of every product we engineer at Gore.
- Gore’s bioabsorbable material technology is backed by more than 15 years of research and clinical use.
- Gore’s bioabsorbable staple line reinforcement is constructed from PGA:TMC, which has an open, highly interconnected pore structure that facilitates cell infiltration and growth.
- PGA:TMC absorbs within six to seven months, which is about twice as long as PGA alone.

PGA:TMC ≠ PGA

Accept No Substitutes.
Choose GORE® SEAMGUARD® Reinforcement for Proven Performance.
Inflammatory Response Comparison

**Sample Size:** 20 pigs (10 with buttressing and 10 without)

**Objective:** To determine if PGA:TMC buttressing would improve outcomes during liver resections.

**Histological Results:**
- Buttressing (PGA:TMC): No bile duct damage and mild inflammation as seen in image.
- No buttressing: Marked fibrotic changes and damaged vascular and biliary endothelium.

**Clinical Results:**
- Buttressing: Reduced intraoperative blood loss and no post-operative biliary leaks.
- No buttressing: Four out of ten animals had post-operative biliary leaks.

**Conclusion:** Buttressing with PGA:TMC resulted in minimal inflammation, reduced bleeding, and reduced leaks compared to no buttressing.3

**Sample Size:** 10 pigs (five with PGA sheet and five without)

**Objective:** To determine if PGA sheets would improve outcomes during liver resections.

**Histological Results:**
- PGA sheet: All five pigs had a fibrotic capsulated cavity at the cut surface with necrotic liver tissue inside the cavity. Four out of the five pigs had severe pus in cavity.
- No PGA: Four out of the five pigs had no histological abnormal findings, and one had an abscess at the cut surface.

**Conclusion:** The authors concluded: “From this experimental study, Neoveil should not be used for cut surface after liver resection.”4

### References:


*67% Polyglycolic Acid:33% Trimethylene Carbonate   
**100% Polyglycolic Acid

Accept No Substitutes.  
Choose GORE® SEAMGUARD® Reinforcement for Proven Performance.