Transforming
the nature of tissue closure

Extend your reach in urologic tissue closure with greater speed and security

- With its unique bidirectional barbed design, the Quill™ Knotless Tissue-Closure Device is the only one that completely eliminates the need to tie knots and the potential for knot-related complications in soft tissue closure
- May make soft tissue approximation faster and easier by replacing knots with running closure
- Engineered to evenly distribute tension along the closure
- Outperformed same-size conventional suture material in both tensile strength and tissue-holding capacity in in-vitro testing[1]
- The unique bidirectional barbed design may provide an easy transition from the classic bi-armed Van Velthoven technique for securing the urethrovesical anastomosis[2]

KNOTLESS TISSUE-CLOSURE DEVICE
QUILL™
Experience the extraordinary

Especially well suited to robotic urologic procedures

- No need to tie knots, which can be time-consuming in the robotic space
- The Quill™ device avoids the problem of "broken knots" that can occur due to the lack of haptic feedback
- Maintains third-arm tension[3]—potentially expanding your field of vision

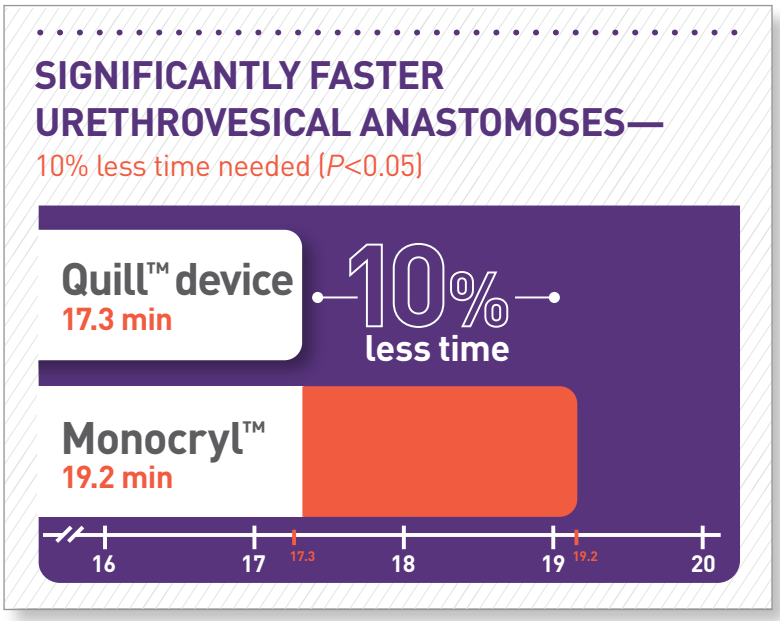
Still image from robotic radical prostatectomy urethrovesical anastomosis using the Quill™ device. Dr. Naveen Kella, Director, Robotic Surgery, www.TexasRoboticSurgery.com.

Demonstrated advantages in forming urethrovesical anastomosis in RARP procedures[2]

- The continuous tension of the Quill™ device reduces the risk of bladder "recoil" when preparing for urethrovesical anastomosis
- Designed to achieve more "watertight" seals—with fewer gaps and more consistent tension and hold around the closure
- The Quill™ device may also be useful in bladder/posterior repair during RARP (robot-assisted radical prostatectomy) and in robot-assisted radical cystectomy

In an in vitro study performed with the da Vinci Surgical System™ comparing standard Monocryl™ sutures with the Quill™ device[2]:

- The Quill™ device was rated equally secure—and maintained its hold even when every fourth suture was cut, a test that caused the complete disruption of the standard suture
- The Quill™ device was significantly faster—enabling the surgeon to spend approximately 10% less time performing urethrovesical anastomoses compared with the Monocryl™ suture ($P<0.05$)



Learn more about how the Quill™ device is transforming the nature of tissue closure at www.angioedupro.com.

References: 1. Leung JC, Ruff GL, Batchelor SD. Performance enhancement of a knotless suture via barb geometry modifications. *7th World Biomaterials Congress 2004 Proceedings.* p. 1587. **2.** Moran ME, Marsh C, Perrotti M. Bidirectional-barbed sutured knotless running anastomosis v classic van Velthoven in a model system. *J Endourol*. 2007;21:1175-1177. **3.** Greenberg JA, Einarsson JI. The use of bidirectional barbed suture in laparoscopic myomectomy and total laparoscopic hysterectomy. *J Minim Invasive Gynecol*. 2008;15:621-623.

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