

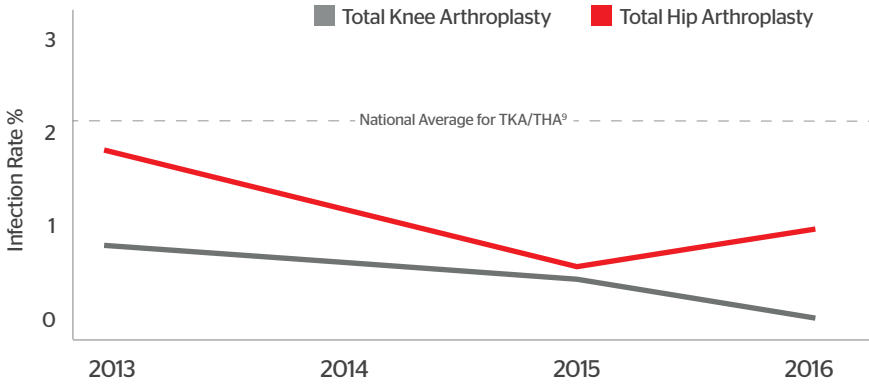




## Wound closure provides a key opportunity to address SSI/PJI risk within the ICP-enhanced episode of care

Dr. Snyder and the Orthopedic Center of Excellence's ICP practices have facilitated the radical reduction—or **zeroing-in on zero (ZIOZ)**—of many common adverse events associated with lower-extremity TJA, which earned them The Joint Commission's Gold Seal of Approval and Advanced Certification in 2017.\*

### MULTI-LAYER, WATERTIGHT CLOSURE WITHOUT SURFACE STAPLES IN THE ICPs GREATLY REDUCED WOUND INFECTION OVER TIME<sup>8</sup>



Infection rates above include hip fracture and revision procedures.

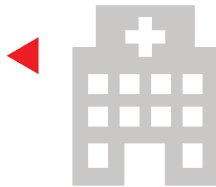
- From 2011 to 2017, with ZIOZ implementation growing annually, more than 2,000 consecutive primary hip and knee arthroplasties have been performed with zero SSIs<sup>10</sup>
- The Orthopedic Center of Excellence at GSH has reduced complications, eliminated 30- and 90-day readmissions by 90%, and lowered total episode (120 days) costs by nearly 25%<sup>11</sup>

### The cost of infection in TJA

Periprosthetic joint infection is the most common cause of orthopedic revisions—procedures that are avoidable and quite costly<sup>9</sup>

**\$25,692**

Average hospitalization cost of revision TKA



**\$31,753**

Average hospitalization cost of revision THA

With Ethicon's unique combination of wound closure products integrated into the ICPs, **Dr. Snyder and GSH have nearly eliminated SSIs/PJIs in their TJA procedures**, thus maximizing the benefits of the BPCI model and further improving clinical and economic outcomes for GSH.<sup>8,11</sup>

**These are examples only and do not guarantee or predict future results, which will vary depending on individual circumstances. For complete indications, contraindications, warnings, precautions, and adverse reactions, please reference full package insert.**

\*Distinction indicates top 1% of US hospitals.

<sup>8</sup>Surgeon opinion—excerpt taken from interview with Dr. Snyder on September 27, 2018.

**References:** 1. Siddiqi A, White PB, Mistry JB, et al. Effect of bundled payments and health care reform as alternative payment models in total joint arthroplasty: a clinical review. *J Arth.* 2017;32:2590-2597. 2. Piuze NS, Muschler GF. CORR Insights: Which clinical and patient factors influence the national economic burden of hospital readmissions after total joint arthroplasty. *Clin Orthop Relat Res.* 2017;475:2938-2940. 3. Dummit LA, Kahvecioglu D, Marrufo G, et al. Association between hospital participation in a Medicare bundled payment initiative and payments and quality outcomes for lower extremity joint replacement episodes. *JAMA.* 2016;316(12):1267-1278. 4. Nett M, Avelar R, Sheehan M, Cushner F. Water-tight knee arthroplasty closure: comparison of a novel single bidirectional barbed self-retaining running suture versus conventional interrupted sutures. *J Knee Surg.* 2011;24:55-59. 5. Shikanov S, Wille M, Large M, Lifshitz DA, Zorn KC, Shalhav AL, Eggener SE. Knotless closure of the collecting system and renal parenchyma with a novel barbed suture during laparoscopic porcine partial nephrectomy. *J Endurology.* 2009;23:1157-60. 6. Su W. Study report for in vitro evaluation of microbial barrier properties of DERMABOND ProTape. 06TRO71. December 4, 2006. Ethicon, Inc. 7. DERMABOND® PRINEO® Skin Closure System, Instructions for Use. Ethicon, Inc. 8. Snyder MA. The journey of an orthopaedic center of excellence: innovation, application and deliverables. Presentation- Joint Commission 2017. 9. Kamath AF, Ong KL, Lau E, et al. Quantifying the burden of revision total joint arthroplasty for periprosthetic infection. *J Arth.* 2015;30:1492-1497. 10. Eliminate adverse effects with integrated clinical pathways. AAOS website. <https://www.aaos.org/AAOSNow/2018/Mar/Clinical/Clinical01/>. Accessed February 15, 2019. 11. AAOS website. TriHealth Good Samaritan Hospital: Registry, EBM, and ICPs. <http://blog.ajrr.net/trihealth-good-samaritan-hospital-registry-ebm-and-icps>. Accessed February 15, 2019. 12. Dr. Snyder transcription report final. September 27, 2018. Ethicon, Inc.



“We help address SSI risk with product selection. STRATAFIX™ provides good multi-layer closure, which is how you prevent ingress and egress of organisms. And we added DERMABOND® PRINEO® because we wanted microbial barrier protection and patient satisfaction benefits... We've nearly eliminated the risk of wound complications and maximized patient satisfaction.<sup>12+</sup>”

—Dr. Snyder

### TriHealth GSH's successful ICPs have led to more referrals

The ICPs originated by Dr. Snyder have proven hugely successful and people are taking notice. Community members are witnessing improved pain management and enhanced recovery, which has ultimately led to more referrals.<sup>12</sup>