

EVERY MINUTE COUNTS



In a review of 20,000 joint arthroplasties it was found:
For every 20 minutes of operative time, the risk of
1 year Prosthetic Joint Infection (PJI) increased by 25%¹

- Parvizi et al demonstrated that operative times over 90 minutes result in a two-fold increase in Surgical Site Infection (SSI) vs. operations that took 60 minutes.¹
- Stearns et al determined that operative times less than 80 minutes resulted in significantly fewer complications in Total Knee Arthroplasty (TKA)²
- Della Valle et al found prolonged operative times over 15 minutes resulted in higher rates of: transfusion, wound dehiscence, renal insufficiency, sepsis, surgical site infection (SSI), urinary tract infection (UTI), readmissions, and length of stay (LOS)³
- Gerlinger et al found that readmissions, reoperations, surgical site infections, and wound complications all rise with longer operative times.⁴

AVITUS® TOTAL JOINT DEBRIDEMENT SUCTION POWERED CURETTAGE

- + Save time vs. conventional debridement^{6,7,8}
- + Contain tissue for culture in closed-capture system^{TM 6,7,8}
- + Minimize risk of leave-behind contaminated tissue^{6,7,8}
- + Minimize tissue seeding risk^{6,7,8}
- + Get deep endosteal specimen^{6,7,8}
- + Hard-to-clog design

+ Connect to standard OR suction

Avitus® Debridement Applications:

- Total joint revisions
- Prosthetic joint infection
- Any need to evacuate femoral/tibial/humeral canals
- Need for deep endosteal and intramedullary specimen
- Osteolytic cyst debridement

+ Closed capture system to contain contaminated tissue (e.g. biofilm, pseudomembrane)
+ Easy specimen retrieval to send to culture

+ Contaminated tissue exits the debridement site
inside shaft without contacting other tissue surfaces

+ Hard-to-clog design
+ Aspirate contaminated tissue simultaneously while cutting
+ Sharp cutting blade every use to scrape canal and end faces

References:

1. Wang, Qiaojie, et al. "Longer Operative Time Results in a Higher Rate of Subsequent Periprosthetic Joint Infection in Patients Undergoing Primary Joint Arthroplasty." *The Journal of Arthroplasty*, vol. 34, no. 5, 2019, pp. 947-953., <https://doi.org/10.1016/j.arth.2019.01.027>.
2. George, Jaiben, Bilal Mahmood, Assem A. Sultan, Nipun Sodhi, Michael A. Mont, Carlos A. Higuera, and Kim L. Stearns. 2018. "How Fast Should a Total Knee Arthroplasty Be Performed? An Analysis of 140,199 Surgeries." *The Journal of Arthroplasty* 33 (8): 2616-22. <https://doi.org/10.1016/j.arth.2018.03.012>.
3. Bohl, Daniel D., Nathaniel T. Ondeck, Brian Darrith, Charles P. Hannon, Yale A. Fillingham, and Craig J. Della Valle. 2018. "Impact of Operative Time on Adverse Events Following Primary Total Joint Arthroplasty." *The Journal of Arthroplasty* 33 (7): 2256-2262.e4. <https://doi.org/10.1016/j.arth.2018.02.037>.
4. Cregar, William M., J Brett Goodloe, Yining Lu, and Tad L. Gerlinger. 2021. "Increased Operative Time Impacts Rates of Short-Term Complications After Unicompartmental Knee Arthroplasty." *The Journal of Arthroplasty* 36 (2): 488-94. <https://doi.org/10.1016/j.arth.2020.08.032>.
5. DeCook, C., & Statton, J. (2022, January 28). 12 by 12: Obtaining true or efficiency with radical time transparency and operational excellence: Published in *Journal of Orthopaedic Experience & Innovation*. *Journal of Orthopaedic Experience & Innovation*. Retrieved March 23, 2023, from <https://journaloeis.scholasticahq.com/article/31769>
6. Dr. Periera Presents: Avitus® Prosthetic Joint Infection Debridement [Video]. (2022, October 30). Youtube.com. https://youtu.be/_Mk4CLa0juc.
7. Dr. Knesek Presents Avitus® Total Joint Debridement Applications [Video]. (2022, April 22) Youtube.com. <https://youtu.be/Fx8GbfzYj4>
8. Godoy, G., MD (2023). Mycobacterial Complicated Distal Femoral Osteomyelitis treated with aggressive radical debridement utilizing Avitus® suction curettage and distal femoral replacement - A Case Study. Avitus® Orthopaedics. [Link Here]

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Refer to device specific IFU on indications for use, contraindications, potential complications, warnings and precautions.

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