



QC Core Insights • January 10, 2022

Mesh Part 1: What Are the Options? Synthetic Mesh Data

Faculty Moderator: Michael Rosen, MD
Cleveland Clinic Foundation

Presentation: Matthew Madion, MD
Medical College of Wisconsin

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Article Review: Sergio Mazzola Poli de Figueiredo, MD
University of Texas Medical Branch at Galveston

We will review and discuss the following articles: ✎

- Luijendijk RW, Hop WC, van den Tol MP, et al. A comparison of suture repair with mesh repair for incisional hernia. *N Engl J Med.* 2000 Aug 10;343(6):392-8.
- Burger JW, Luijendijk RW, Hop WC, et al. Long-term follow-up of a randomized controlled trial of suture versus mesh repair of incisional hernia. *Ann Surg.* 2004 Oct;240(4):578-83; discussion 583-5.
- Krpata DM, Petro CC, Prabhu AS, et al. Effect of Hernia Mesh Weights on Postoperative Patient-Related and Clinical Outcomes After Open Ventral Hernia Repair: A Randomized Clinical Trial. *JAMA Surg.* 2021 Sep 15.

Selected readings: ✎

- Zhu LM, Schuster P, Klinge U. Mesh implants: An overview of crucial mesh parameters. *World J Gastrointest Surg.* 2015 Oct 27;7(10):226-36.
- Deeken CR, Faucher KM, Matthews BD. A review of the composition, characteristics, and effectiveness of barrier mesh prostheses utilized for laparoscopic ventral hernia repair. *Surg Endosc.* 2012 Feb;26(2):566-75.
- Groene SA, Prasad T, Lincourt AE, et al. Prospective, multi-institutional surgical and quality-of-life outcomes comparison of heavyweight, midweight, and lightweight mesh in open ventral hernia repair. *Am J Surg.* 2016 Dec;212(6):1054-1062.
- Cobb WS. A Current Review of Synthetic Meshes in Abdominal Wall Reconstruction. *Plast Reconstr Surg.* 2018 Sep;142(3 Suppl):64S-71S.
- Petro CC, Rosen MJ. A Current Review of Long-Acting Resorbable Meshes in Abdominal Wall Reconstruction. *Plast Reconstr Surg.* 2018 Sep;142(3 Suppl):84S-91S.
- Krpata DM, Petro CC, Prabhu AS, et al. Effect of Hernia Mesh Weights on Postoperative Patient-Related and Clinical Outcomes After Open Ventral Hernia Repair: A Randomized Clinical Trial. *JAMA Surg.* 2021 Sep 15. Epub ahead of print. PMID: 34524395.

QC Core Insights will be held on Zoom and recorded for on-demand viewing by those unable to attend. View the upcoming schedule and recordings of past sessions on our website at www.achqc.org/meetings/qc-core-insights.