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Mesh Part 2: When to Use What? Biologic and Absorbable Synthetic Mesh Data

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We will review and discuss the following articles:

- Rosen MJ, Krpata DM, Petro CC, et al. Biologic vs Synthetic Mesh for Single-stage Repair of Contaminated Ventral Hernias: A Randomized Clinical Trial. JAMA Surg. 2022 Jan 19. [Epub ahead of print] PMID: 35044431
- Roth JS, Anthone GJ, Selzer DJ, et al. Prospective, multicenter study of P4HB (Phasix™) mesh for hernia repair in cohort at risk for complications: 3-Year follow-up. Ann Med Surg (Lond). 2020 Dec 15;61:1-7

Selected readings:

- Asaad M, et al. Acellular Dermal Matrix Provides Durable Long-Term Outcomes in Abdominal Wall Reconstruction: A Study of Patients with Over 60 Months of Follow-up. Ann Surg. 2020 Oct 19.[Epub ahead of print] PMID: 33086319
- Schneeberger S, et al. Cost-Utility Analysis of Biologic and Biosynthetic Mesh in Ventral Hernia Repair: When Are They Worth It? J Am Coll Surg. 2019 Jan;228(1):66-71.
- Rosen MJ, et al. Multicenter, Prospective, Longitudinal Study of the Recurrence, Surgical Site Infection, and Quality of Life After Contaminated Ventral Hernia Repair Using Biosynthetic Absorbable Mesh: The COBRA Study. Ann Surg. 2017 Jan;265(1):205-211.
- Miserez M, et al. Synthetic Versus Biological Mesh in Laparoscopic and Open Ventral Hernia Repair (LAPSIS): Results of a Multinational, Randomized, Controlled, and Double-blind Trial. Ann Surg. 2021 Jan 1;273(1):57-65.
- Rosen MJ, et. al. A 5-year clinical experience with single-staged repairs of infected and contaminated abdominal wall defects utilizing biologic mesh. Ann Surg. 2013 Jun;257(6):991-6.
- Nahabedian MY, et. al. A Current Review of Biologic Meshes in Abdominal Wall Reconstruction. Plast Reconstr Surg. 2018 Sep;142(3 Suppl):74S-81S.
- Itani KM, et al. Prospective study of single-stage repair of contaminated hernias using a biologic porcine tissue matrix: the RICH Study. Surgery. 2012 Sep;152(3):498-505.
- Roth JS, et al. Prospective evaluation of poly-4-hydroxybutyrate mesh in CDC class I/high-risk ventral and incisional hernia repair: 18-month follow-up. Surg Endosc. 2018 Apr;32(4):1929-1936.
- Harris HW, et al. Preventing Recurrence in Clean and Contaminated Hernias Using Biologic Versus Synthetic Mesh in Ventral Hernia Repair: The PRICE Randomized Clinical Trial. Ann Surg. 2021 Apr 1;273(4):648-655.
- Petro CC, et. al. A Current Review of Long-Acting Resorbable Meshes in Abdominal Wall Reconstruction. Plast Reconstr Surg. 2018 Sep;142(3 Suppl):84S-91S.

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