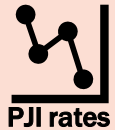


# MARCQI's Infection Risk Calculator:

## A novel tool for pre-operative identification of post-operative PJI risk

**PJI is a costly & potentially fatal outcome of total joint arthroplasty**



PJI rates



0.57-0.88%



0.72-2%



PJI costs

**\$32K**

**\$28K**

2030 projected cost: \$1.85 billion



PJI mortality

5-year mortality for a patient with a post-op PJI: **21%**

**MARCQI data on primary cases was analyzed to evaluate pre-operative risk factors impacting post-operative PJI**



82K primary THA



140K primary TKA

**Risk adjusted variables included:**



Age



Surgeon volume



BMI



Diabetes



Opioids



Gerow et. al., A Novel Preoperative Calculator for 90-Day Prosthetic Joint Infection Following Total Joint Arthroplasty Based off the Michigan Arthroplasty Registry Collaborative Quality Initiative Database. Arthroplasty Today.

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