The DEVASTATING Impact Of Periprosthetic Joint Infection (PJI)
What is PJI?

PJI is one of the most common complications after total joint replacement, often resulting in prolonged hospitalization and considerable patient morbidity.¹

The five-year mortality rate for patients with PJI is higher than ⁶

Breast Cancer
Melanoma
Hodgkin’s Lymphoma

What Causes PJI?

The aging population, pre-existing comorbidities such as diabetes and obesity, and antimicrobial resistance has led to an increase in generalized musculoskeletal infection, including PJI.¹ Changes in antimicrobial resistance has resulted in¹:

• Higher rates of treatment failure
• Longer hospitalizations
• Worse overall outcomes

Biofilms Contribute to Antimicrobial Resistance

Biofilms are made up of bacteria that produce an Extracellular Polymeric Substance (EPS) to shield themselves from both mechanical and chemical attack.

• Over 90% of all bacteria exist in biofilms⁴
• EPS shielded bacteria can be 1000x more resistant to antibiotics than planktonic bacteria⁷
• Periodic release of planktonic bacteria from biofilms have been linked to chronic relapsing infections⁸

What is PJI Costing Your Facility?

PJI is a significant economic burden to the overall health care system and considered the largest challenge in orthopedics today.² PJI places major financial stress on the patient, the payer and healthcare systems.¹

$60,000 – $100,000 cost per PJI treatment¹

$1.62 billion annual PJI cost projected by 2020²
References


