

BACKGROUND

University Medical Center of Princeton at Plainsboro (UMCPP) is a 317 bed not-for-profit health system in Plainsboro, NJ.

In April, 2013 Orthopaedic Advantage, LLC (OA) was engaged to help create a Joint Replacement Center of Excellence committed to providing exceptional care and differentiating their services to the communities they serve.

“Our OR turnover for joint replacement cases went from 35 minutes to 11 minutes, enabling us to do more cases each day while improving our surgeon satisfaction.”

Eric Coyle,
Director of Surgical Services

“The Orthopaedic Advantage team worked in alignment with our team to successfully implement our Center for Joint Replacement. Their expertise and hands on approach enabled us to fast track our implementation phase.”

James Demetriades,
VP Professional Services



KEY CHALLENGES

- Costs per case and inefficiencies in the OR
- Inconsistent supply chain utilization
- Declining market share
- Outmigration of orthopaedic cases
- Length of Stay above national averages
- Variation in care and quality processes

THE SOLUTION

- The consultants designed and facilitated implementation of a customized Center of Excellence program that focused on differentiating services, improving quality of care, increased case volume based on efficiency, reversing outmigration and reducing the cost per case.
- The consultants provided leadership, national best practices based on Joint Commission and Blue Distinction certifications, and “hands on” support during all phases of design and implementation.
- They worked with key stakeholders to establish key performance metrics and hardwire processes to enable sustained success of the Joint Replacement Center of Excellence.

THE PRINCETON RESULTS

Savings Realized	Amount
Material Utilization	\$318,146
Process Standardization	\$81,323
OR Instrument Reduction	\$267,472
Length of Stay Reduction	\$462,900
Total	\$1,129,841
Orthopaedic Volume Increase	18%

TIMELINE

Six months to launch Joint Replacement Center of Excellence and to achieve the Joint Commission Disease Specific Certification for Total Hip and Total Knee Replacement