

SURGERY-RELATED COMPLICATION PREVENTION WITH XPATTERNS ACCOUNTABLE CARE INTELLIGENCE

PRIMARY CARE DOCTOR USES XPATTERNS ACCOUNTABLE CARE INTELLIGENCE (ACI) TO PREVENT SURGERY-RELATED COMPLICATIONS FOR PATIENT RECEIVING A TOTAL KNEE REPLACEMENT

Total Knee Replacement, or TKR, is one of the fastest growing procedures in orthopedic surgery. More than 700,000 surgeries are performed each year, with complication rates from surgery less than two percent. However, post-surgery complications can become a costly expense for healthcare providers and their patients when they do occur.

The most common complications from total knee replacement surgeries are mechanical complications of the implant, wound infections, and deep venous thrombosis (DVT). Surgeons need to ensure that patients considering a total knee replacement are suitable for the surgery. Many times, patients can do well managing their knee symptoms without a knee replacement.

TOTAL KNEE REPLACEMENT - WITHOUT XPATTERNS ACI

PATIENT PROFILE: PAMELA, 64 YEAR OLD, FEMALE

Pamela is 64, and has suffered with knee pain for several years. An X-ray performed by her primary care physician reveals severe arthritis in her left knee. She is referred to an orthopedic surgeon for evaluation.

The surgeon determines that Pamela is a good candidate for a total knee replacement. No other tests are performed and no alternative treatments such as injections, physical therapy, etc., are offered.

Pamela has the surgery. She is discharged from the hospital three days later, and is only prescribed painkillers. Three days after she is discharged, Pamela's left calf is swollen and painful. She can no longer walk with her walker. Pamela cannot reach her physician, so she is taken to the ER.

WITHOUT XPATTERNS ACI	
Primary care physician visit	\$115
Radiology services	\$250
Orthopedic surgeon visit	\$200
3-day hospital stay for total knee replacement	\$23,000
3 weeks of physical therapy (3x/week)	\$540
ER services	\$1,800
3-day hospital stay	\$8,500
Medications upon discharge	\$100
TOTAL EPISODE COST	\$34,505

An ultrasound test of her left calf is performed, which reveals a deep venous thrombosis (DVT). She is re-admitted to the hospital for another three days and provided anticoagulant therapy. Although she does well, she is over a week behind in her physical therapy and recovery.

PATIENT CONSIDERING TKR SURGERY - WITH XPATTERNS ACI

PATIENT PROFILE: CHRISTINE, 64 YEAR OLD, FEMALE

Christine, 64, has experienced chronic knee pain for several years in her right leg. She is regularly contacted by her primary care physician and orthopedic surgeon, and has office visits scheduled on a regular basis.

Her X-ray reveals moderate arthritis in her right knee. Christine's orthopedic surgeon collaborates with her primary care physician on a treatment. They both agree to try conservative therapy.

Christine is placed on a nonsteroidal anti-inflammatory drug (NSAID), and is given a referral for physical therapy. Several weeks later she sees her primary care physician and is dramatically improved. No surgery is scheduled saving Christine and her payer/providers \$33,520 in surgery-related fees. That's an 82.6 percent reduction in healthcare costs versus without xPatterns.

WITH XPATTERNS ACI	
Primary care physician visit	\$115
Radiology services	\$60
Orthopedic surgeon visit	\$200
3 weeks of physical therapy (3x/week)	\$540
Medications	\$70
TOTAL EPISODE COST	\$985