20 REASONS FOR TWENTY YEARS

MicroPort Orthopedics
Full Function, Faster®
THE ORIGINAL

Original Medial-Pivot Knee

The MicroPort® Medial-Pivot Knee System was launched in 1998, making it the first Medial-Pivot Knee System available on the market. A culmination of years of research and design by Wright Medical and Dr. J. David Blaha resulted in a truly unique knee replacement design.

550,000+

Over 550,000 Medial-Pivot Knees to Date

With over 20 years of documented usage, MicroPort Orthopedics line of Medial-Pivot products have been used in over 550,000 cases in 70 countries worldwide.

SATISFACTION

95% Satisfaction with the Medial-Pivot Knee

Patient reported satisfaction with a Medial-Pivot prosthesis is 95%1. A recent study also confirmed higher patient satisfaction when knees are balanced with a tighter medial compartment.2

CONTINUUM OF CARE

Medial-Pivot Design Across Primary & Revision

MicroPort offers a primary knee with both cemented and cementless options. A stemmed primary for both the femur and tibia, and a revision portfolio featuring a CCK with Medial-Pivot articulation.
95% PATIENT SATISFACTION
98.8% SURVIVORSHIP AT SEVENTEEN YEARS
GLOBAL SIZING PROFILE
Sizing Scheme Designed with Global Patients in Mind
The sizing scheme of the eMP™ Knee System is based on CT scans and surgical and cadaveric assessments from patients around the world. Clinical evidence confirmed that an anatomic tibial profile provides ideal tibial coverage without compromising alignment. 5

STABILITY
Maximizes Stability Throughout the Range of Motion
Traditional knee replacements have been shown to exhibit anterior-posterior translation, which decreases stability and can cause early revisions. Through medial ball-in-socket articulation, coupled with lateral mobility, the Medial-Pivot Knee System has been formulated to maximize stability throughout the range of motion.

SURVIVORSHIP
98.8% Survivorship at 17 Years
Since the Medial-Pivot Knee System was first released 20 years ago, it has achieved outstanding clinical success worldwide, with documented 98.8% survivorship at 17 years. 5

BONE CONSERVING
No Need to Rese ct a Box
The Medial-Pivot femur is more bone conserving than that of traditional posterior stabilized knees, which require resection of more bone for the spine/cam mechanism. While also a posterior cruciate sacrificing (PS) device, there is no requirement to resect the box with the Medial-Pivot knee.
QUADRICEPS EFFICIENCY

Increased Proprioception & Normal Feeling

The Medial-Pivot Knee System enhances quadriceps efficiency and reduces the quadriceps avoidance found in traditional knee replacements. By enhancing quadriceps efficiency, the patient can have increased proprioception and a more normal feeling knee.\(^6\)

PATIENT PREFERRED

Patients Feel the Difference

Patients can tell a difference according to a peer-reviewed study that examined patient satisfaction among patients who underwent bilateral staged total knee replacement with different prostheses. A Medial-Pivot design was preferred equally to an ACL-PCL retaining prosthesis and preferred more than all other designs (CR, PS, and Mobile-Bearing).\(^7\)

NATURAL KINEMATICS

Designed to Promote Natural Kinematics

The Medial-Pivot insert is designed to allow normal motion and natural function by replicating the native structure of the knee and providing a highly-conforming surface on the medial side.\(^8\)

CRUCIATE SACRIFICING DESIGN

Replicates the Function of the PCL

The Medial-Pivot insert features an anterior raised lip, to replicate the function of the PCL, and a posterior raised lip, to replicate the function of the ACL, acting like an ACL-PCL substituting knee.
PROMOTES NATURAL KINEMATICS
FORGOTTEN JOINT

Higher Forgotten Knee Score than Traditional Knee Systems

Patients who underwent total knee arthroplasty (TKA) with the Medial-Pivot knee scored significantly better on the Forgotten Joint Score (FJS) than those who underwent a TKA with a modern posterior stabilized (PS) knee, particularly with regard to deep knee flexion and stability of the prosthesis.9

CONFORMITY

High Conformity Without Constraint

Unlike traditional multi-radius designs, the Medial-Pivot Knee System has a constant radius femoral component with a highly conforming tibial insert to provide stability in mid-flexion, constant collateral ligament tension and prevent anterior-posterior translation throughout the range of motion.

GET HOME FASTER

Get Patients Back to Their Lives

Surgeons utilizing the Evolution® Medial-Pivot Knee System have stated that their patients recover faster and are back to activities of daily life sooner.30

BIOFOAM® TECHNOLOGY

Fixation with Bite™

BioFoam® Cancellous Titanium provides a cementless tibial option with true trabecular architecture that acts as a biological scaffold designed to support early bone ingrowth.11
ANATOMIC GAP BALANCING

*Restore the Natural Asymmetric Balance of MCL & LCL*

The Medial-Pivot design does not only achieve more natural kinematics, but also allow for more anatomic gap balancing. As a result, a medially tighter and laterally looser gap can be achieved.¹²

WEAR LIMITING DESIGN

*Repeatable Motion Leads to Less Wear*

The design of the Medial-Pivot Knee System has been shown to have a lower wear potential in a comparative aspiration study, due to the repeatable motion path and minimized contact stresses.¹³

MOTION

*More Natural Feeling Knee Movement*

In-vivo long-term clinical studies have consistently shown that Medial-Pivot achieves equal or higher degrees of flexion than traditional posterior stabilized (PS) knee design, with an average of 124°.¹⁴⁻¹⁵

GLOBAL PRESENCE

*Sold in Over 70 Countries Worldwide*

MicroPort Orthopedics has fostered partnerships with a reliable distributor network around the globe to ensure a high level of service and fast delivery of our products. We currently sell the Medial-Pivot Knee in more than 70 countries around the world.
NATURAL FEELING KNEE 1:14-15
Individual results and activity levels after surgery vary and depend on many factors including age, weight and prior activity level. There are risks and recovery times associated with surgery and there are certain individuals who should not undergo surgery.

References:
8. Blaha J. The rationale for a total knee implant that confers anteroposterior stability throughout range of motion.
15. Van Overschelde F Parker A Preliminary Short-term Outcome of first 100 consecutive cases of second generation Medial Pivot Total Knee replacement System EKS Arthroplasty Conference - eposter - London - April 20-21, 2017