DID YOU KNOW
AT LEAST 20% OF KNEE REPLACEMENTS SHOULD BE PARTIALS?

Research shows that surgeons utilizing Partial Knee Arthroplasty (PKA) for at least 20% of their annual knee arthroplasties experienced a significant decrease in their revision rate.\(^1\) One study indicated that almost 50% of knee arthroplasty patients are candidates for PKA.\(^2\)

In fact, a study by Badawy, M. et al. found a lower risk of revision in hospitals performing more than 40 PKAs per year compared to those performing under 10 PKAs per year.\(^3\)

A randomized, controlled study also showed that significantly more PKA patients would choose to have their operation again, compared to TKA patients.\(^4\)

Other benefits of PKA vs TKA include retention of the ACL, which is reported to result in improved proprioception\(^5,6\), better range of motion\(^7,8\), procedural savings\(^2\), shorter hospital stays\(^9\) and a lower risk of postoperative complications\(^10\).
Zimmer Biomet is the leading company in partial knee arthroplasty with over 40 years of experience, offering a comprehensive range of anatomic and innovative PKA solutions.

Building on a clinically proven legacy, the Persona Partial Knee is the next era in personalization in fixed bearing partial knee design providing:

- Compartment-specific shapes based off the Persona® Total Knee, which has the finest sizing increments available
- Precise, efficient instrumentation
- An ergonomic spacer block technique with fewer steps

Replicating Nature’s Anatomy
Persona Partial Knee surgeon developers and engineers studied the morphology of thousands of bones, representing a diverse global population, including use of ZiBRA™ virtual resection technology.

Personalized Implants, Designed for Optimal Fit and Function
Unlike some other fixed bearing PKRs, the Persona Partial Knee offers a range of sizes with:

- Improved sizing options mirroring the native tibia*
- Better shape matching increases tibial coverage aimed at preventing subsidence
- Improved patella flange geometry designed to reduce soft tissue irritation and contact with the patella

Clinically Proven Legacy
The Persona Partial knee carries forward design elements of the Miller Galante Uni. Foran, JR. et al. reported a 98% survivorship of the Miller Galante Unis at 10 years and 90% at 20 years.

In a study by Berger, RA. et al. thirty-nine Miller Galante Uni knees (80%) had an excellent result, six (12%) had a good result, and four (8%) had a fair result.
Precise Femoral Component
- Consistent AP growth and shape throughout 8 femoral sizing options
- Femoral insertion notches designed for precise control of femoral component implantation
- Compartment specific shape

Personalized Tibial Component\textsuperscript{12,13}
- Improved cortical rim coverage minimizes tibial strain
- 2 Peg and Keel fixation that has a proven\textsuperscript{12,13} track record going back to the Zimmer M/G Uni*
- 7 anatomic tibial profiles

Proven Bearing Technology:
Vivacit-E\textsuperscript{®} Vitamin-E HXPE**
- Vivacit-E Polyethylene is actively stabilized with Vitamin-E to help protect against oxidation and maintain wear resistance and strength throughout the life of the implant
- This proprietary material is designed to meet the demands of today’s fixed bearing partial knee patients
- Vivacit-E HXPE has been shown to have exceptional oxidative stability,\textsuperscript{16} ultra-low wear,\textsuperscript{14} and enhanced strength\textsuperscript{17-19}
- 8, 9, 10, 11, 12 and 14 mm thicknesses are available to address various patient anatomies
- Anterior and posterior locking tabs facilitate a secure fit with the tibial tray
**Precise, Efficient Technique**

Precise and efficient instrumentation facilitates accurate alignment and under-correction of the leg with an ergonomic spacer block technique and fewer steps.

**Tibial Resection Guide**
- Vertical saw minimizes potential for overresection of the posterior cortex, lowering the risk of tibial plateau fracture
- Tibial resection guides attach to the Persona EM tibial resection tube body

**Femoral Finishing Guide**
- Persona Partial PK Handle eases insertion
- Extended saw slots allow controlled posterior and chamfer resections
- Three fixation screws anteriorly on the guide add stability allowing resections to be made without removing screws

**Anatomic Tibial Sizer**
- Facilitates efficient sizing of the tibial component
- Visibility windows allow for one up and one down sizing
- Posterior hook provides an anatomic reference point to ensure precise sizing

**Modern Cementing Technique (MCT)\textsuperscript{20-24}**
- MCT Knee is a concept that addresses the risk of de-bonding and thus loosening of the implant\textsuperscript{20-24}
- The crucial factors are to secure a strong bond and optimal interfaces between implant-cement and cement-bone
- Zimmer Biomet offers solutions supporting early bone cement application on tibial component, vacuum mixing to reduce porosity and increase fatigue life, delivery and pressurization
**Persona Partial Knee Advanced Instructional Courses**

These courses provide the opportunity to learn more about the indications for the Persona Partial Knee and to practice the surgical technique, featuring efficient spacerblock instrumentation.

**Surgeon-to-Surgeon (S2S) Visitation**

Zimmer Biomet provides educational opportunities for health care professionals of any level, conducted at an approved Persona Partial Knee visitation facility. The visitation will include a discussion about the surgical steps, design rationale, system benefits, and the process for implant and instrument assembly. Surgeons will also be able to better visualize the surgical flow, having spent time with Zimmer Biomet faculty viewing live surgery.
References

* The M/G trademark is owned by Smith & Nephew


17. Zimmer TM1140.98.


