ROSA®
Partial Knee

ZIMMER BIOMET

Optimizing Patient Satisfaction with Confidence

The ROSA Partial Knee System provides confidence in performing partial knee arthroplasty by offering a simple technique, the clinical heritage of the Persona® Partial Knee and efficiency throughout the surgical journey.

The system was designed by surgeons for surgeons as an accurate and efficient surgical assistant that also produces data.
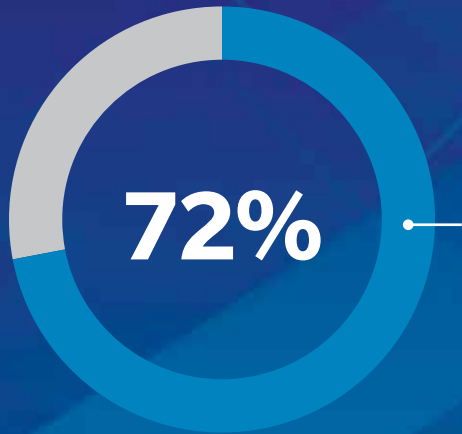
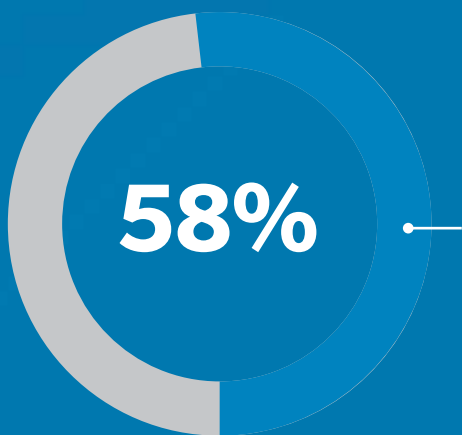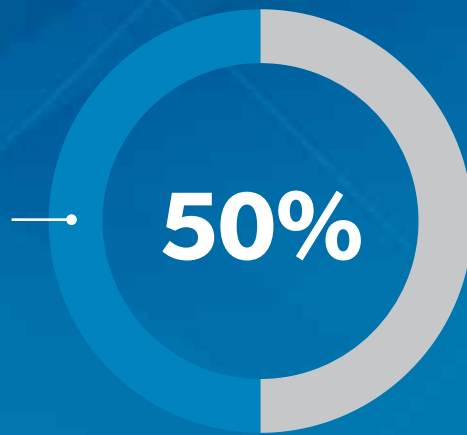**SURGEON-CENTERED**

ACCURATE[1]

EFFICIENT

DATA DRIVEN

72%

IN A 2016 GLOBAL SURVEY ASSESSING PUBLIC PERCEPTIONS ABOUT ROBOTIC-ASSISTED SURGERY, 72% OF RESPONDENTS INDICATED ROBOTIC-ASSISTED SURGERY WAS SAFER, FASTER AND LESS PAINFUL OR OFFERED BETTER RESULTS THAN MINIMALLY INVASIVE CONVENTIONAL SURGERY.[2]

RESEARCH SHOWS THAT NEARLY 50% OF ALL KNEE REPLACEMENT PATIENTS COULD BE CANDIDATES FOR PARTIAL KNEE ARTHROPLASTY (PKA).[3]

50%

58%

SURVEY RESEARCH EVEN SHOWS THAT UP TO 58% OF PATIENTS WOULD PREFER A PKA OVER A TKA, WHEN PRESENTED WITH THE BENEFITS AND RISKS OF BOTH.[4]

SURGEON-CENTERED

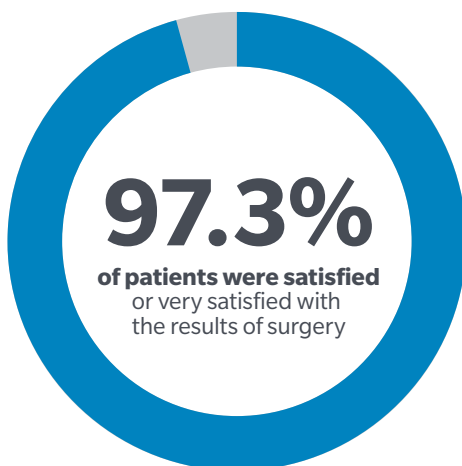## ROSA PARTIAL KNEE ENABLES CONFIDENCE

in performing partial knee arthroplasty thanks to a simple workflow and easy to use interface.

- Adapts to the surgeon through collaborative mode
- Surgeon controls the saw thus eliminating haptics

COMPATIBLE WITH PERSONA PARTIAL KNEE, A CLINICALLY PROVEN AND PERSONALIZED KNEE SYSTEM[5,6]

- The Persona Partial Knee carries forward design elements of the Zimmer Miller Galante (M/G) Uni, which showed 98% survivorship at 10 years and 90% and at 20 years.[4]

643 PERSONA PARTIAL KNEES WERE IMPLANTED, AND TWO-YEAR RESULTS DEMONSTRATED:[7]

98.9%
survivorship at two years

97.3%
of patients were satisfied
or very satisfied with
the results of surgery

COLLABORATION DRIVEN BY YOU

Factoring in soft tissue balance is not a new concept in partial knee replacement, but finding the right soft tissue balance with static, traditional instruments is highly subjective.

With ROSA Partial Knee, surgeons are able to objectively measure soft tissue feedback and virtually conduct a knee replacement before performing any resections.

- In the Planning screen, surgeons receive live feedback of soft tissues, femoral rotation and ligament tension.

- Dynamic patient data throughout the range of motion.

- Live cut values ensure resections remain on plane.

ACCURATE

ENHANCE PATIENT SATISFACTION THROUGH ACCURATE AND REPRODUCIBLE SURGERY[1]

ROSA Partial Knee offers surgeon precision and accuracy through the cut flow and validation feature, which is designed to ensure proper alignment in real time. Tibial resection with ROSA Partial Knee has been shown to be more accurate and reproducible than conventional instrumentation.[8]

SOFT TISSUE MANAGEMENT

With ROSA Partial Knee real-time soft tissue balancing, surgeons can determine resections based on each patient's soft tissue as well as bony anatomy. Other robotic systems on the market collect soft tissue information by taking snapshots of the knee in two positions (flexion and extension), so the surgeon cannot collect data about how the knee is responding as it is being manipulated in the procedure.

Real-time soft tissue evaluation and residual laxity checks are designed to support balancing and implant placement with the goal of better post-operative results

EFFICIENT

STREAMLINED OPERATIVE STEPS FOR FLEXIBILITY AND EASE OF USE

Flexible Imaging Options

Based on surgeon preference, ROSA Partial Knee offers both image-based and imageless options for greater flexibility without the need for CT scans. With the imaging option, our proprietary X-Atlas® 2D to 3D Technology allows the surgeon to see the patient's bone model in the interface based off of X-rays.

2D X-rays are submitted to your assigned Personalized Solutions Planning Specialist
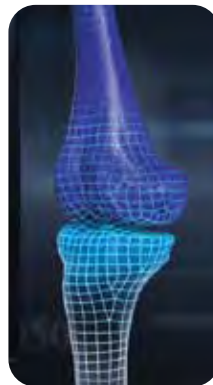
X-rays are transformed into a digital, 3D replication of the patient's anatomy

A plan is created and displayed on the user interface based on the patient's unique anatomy

FEWER TIBIAL CUTS

ROSA Partial Knee requires fewer tibial cuts than conventional partial knee arthroplasty, thus potentially resulting in OR time efficiency.[8]

INTRA-OPERATIVE FLEXIBILITY

When using ROSA Partial Knee, surgeons have the flexibility to intra-operatively change to a ROSA Knee if required.

DATA-DRIVEN

ROSA Partial Knee is a cornerstone of ZBEdge™, Zimmer Biomet's integrated digital and robotic technologies purposefully engineered to deliver data-powered clinical insights across the patient journey. Part of these integrated digital and robotic technologies include ROSA Partial Knee, mymobility® with Apple Watch and OrthoIntel Orthopedic Intelligence Platform.

ORTHOINTEL ORTHOPEDIC INTELLIGENCE PLATFORM

OrthoIntel Orthopedic Intelligence Platform combines **pre-, intra- and post-operative data** from ZBEdge Connected Intelligence Suite to help surgeons **uncover clinical insights effortlessly.** This meaningful data is intended to help health care professionals **optimize care** by efficiently **exploring the connections between surgery and outcomes.**

ORTHOINTEL INTERACTIVE REPORTS

OrthoIntel Interactive provides interactive and customizable reports that allow clinicians to explore data across the continuum of care to enable insights on variables that impact outcomes and experience.

OrthoIntel Interactive Reports is available to all mymobility customers. The data can be further enriched with intra-operative metrics from ROSA Robotics.

OPTIMIZE CARE THROUGHOUT THE SURGICAL JOURNEY

The following data metrics are currently captured in OrthoIntel Orthopedic Intelligence Platform

PRE- AND POST-OPERATIVE METRICS GATHERED THROUGH MYMOBILITY WITH APPLE WATCH:

Mobility/Functional Data Collected

- Steps
- Stairs Climbed
- Stand Hours
- Exercise Completion

Gait Quality Data

- Gait Speed
- Double Support Percentage
- Step Length
- Speed Ascending and Descending Stairs
- Asymmetry*

Engagement Data Collected

- Exercise Adherence
- PROMs Adherence
- Patient Reported Pain Management Tracking
- Patient Reported Narcotic/ Non-narcotic Tracking**
- Education Adherence

Additional Data Collected

- Falls Detection*
- Sleep*

* Available separately upon request

** Via prompted patient-reported check-ins

These data points are collected and connected in OrthoIntel Orthopedic Intelligence Platform, but not currently displayed: Engagement data, exercise completion, Step Length, Speed Ascending/ Descending Stairs, Asymmetry, Falls Detection or Sleep.

Heart Rate Data Collected

- Average Resting Heart Rate
- Average Walking Heart Rate Variability
- VO2 Max*

INTRA-OPERATIVE METRICS GATHERED BY ROSA PARTIAL KNEE

- **Hip-Knee-Ankle Angle**
- **Medial Laxity at Full Extension**
- **Max Varus/ Valgus at Full Extension**
- **Max Varus/ Valgus at 90˚ Extension**
- **Medial Laxity at 90˚ Flexion**

For more information contact
your local representative or visit
zimmerbiomet.com/rosapartial

References

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8. Data on file. FER-SM210126-01

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