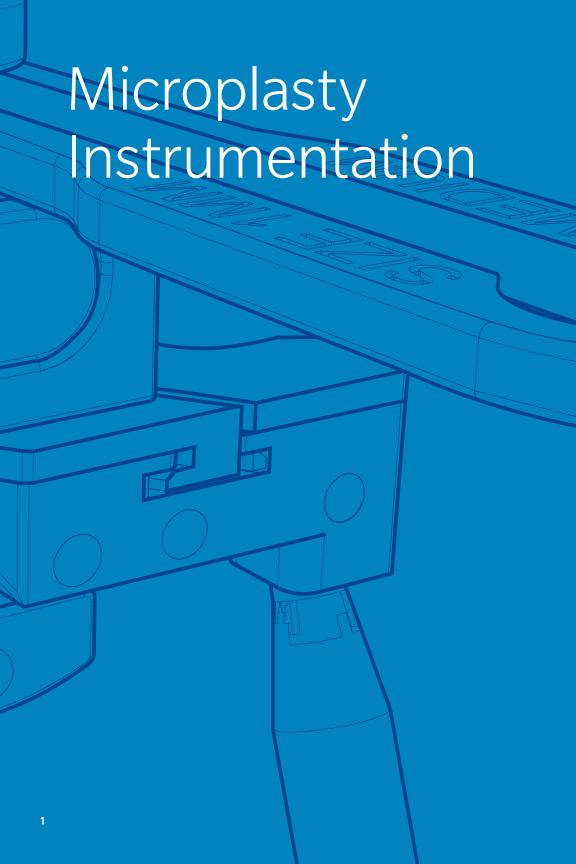
Simplifying the Most Clinically Provent Partial Knee in the World

Oxford® Partial Knee with Microplasty® Instrumentation





Innovative, Accurate, Reproducible

Microplasty instrumentation simplifies the surgical technique, providing more accurate and reproducible femoral and tibial implant positioning.²

By referencing normal, intact cartilage and the MCL to set the amount of tibial resection, the technique is more bone-conserving compared to Phase 3 Instrumentation.² Microplasty instrumentation has resulted in a greater number of 3 mm and 4 mm bearings being implanted (92% vs. 84%; p=0.001)¹ compared to Phase 3 Instrumentation, which have demonstrated better survivorship than 5 mm bearings, or thicker.³

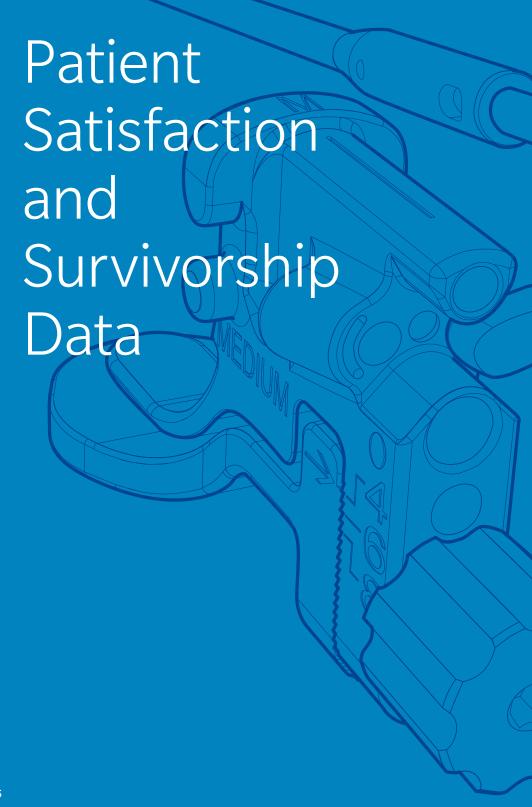
The simplified Microplasty instrumentation showed a reduction in OR time of almost 9 minutes compared to Phase 3 Instrumentation.⁴

Microplasty instrumentation has also been shown to reduce the risk of dislocation compared to Phase 3 Instrumentation.⁵

Key Oxford Microplasty Instruments







Satisfaction

After one year, a randomized, controlled study showed that significantly more partial knee patients would have the operation again compared to total knee patients.⁶



Survivorship

Now compare this satisfaction data with data from the England and Wales National Joint Register (NJR) which showed 87.5% survivorship of PKA at 10 years compared with 96.6% in cemented TKA.⁷

96.6[%]

There's more to consider than just survivorship when deciding between PKA and TKA.

It is generally believed that the higher revision rate of PKR is due to a higher percentage of patients with poor results (OKS < 20). However a review of the New Zealand Joint Register by Goodfellow, J. et al., shows that TKR actually has a higher proportion (1.6x) of patients with poor results than PKR.⁸



Revision Threshold

An alternative explanation is that the threshold for revision is different for PKR and TKR. Data from the NZJR shows that if the outcome following TKR is very poor (OKS < 20) then 12% are revised whereas if the outcome following PKR is similarly poor then 63% are revised. This clearly shows that the threshold for revision of TKR is most likely higher than for PKR.

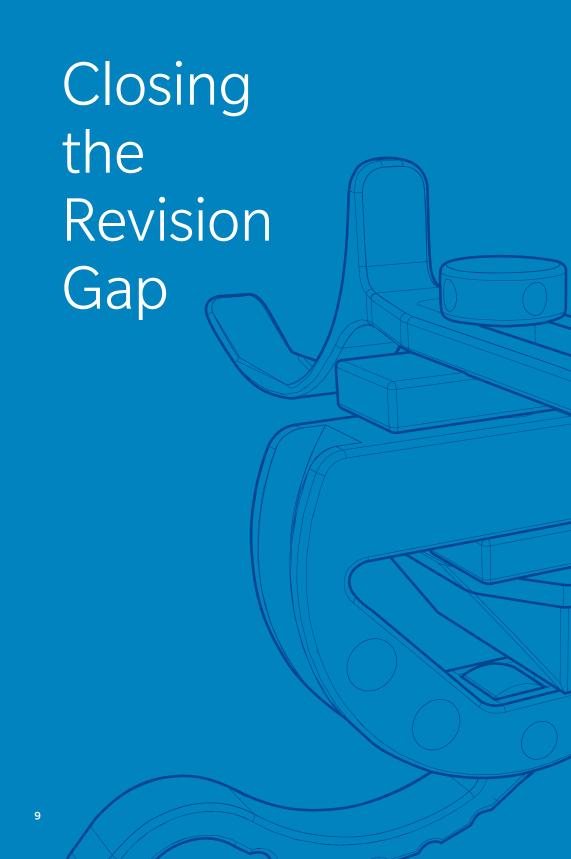
Furthermore, PKRs have been proven to be easier to revise.⁸ Fortunately, there are ways to reduce the revision rate of PKR through utilization⁹⁻¹¹ and training and education.¹²

If TKR had a very poor outcome, then only

12% are revised

If PKR had a very poor outcome, then

63% are revised



Utilization

The revision gap between PKR and TKR reported in NJRs can be reduced with increased utilization of PKRs.⁷



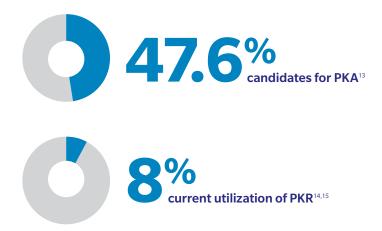
Liddle, AD. *et al.* found that surgeons utilizing PKR for **under 20%** of their annual knee replacements experienced an **increase in their revision rate**⁹

A review of the NZJR by Treggonig, R. *et al.* found surgeons implanting **at least 12 PKRs** per year are found to have a **decreased revision rate**¹⁰





Similarly 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 year¹¹



PKA Candidacy

When using criteria published by Kozinn & Scott in 1989 only 5% of patients are candidates for PKA.¹⁶ This may partly explain why there is low utilization of PKA today, with it only being used for 8% of knee replacements worldwide.^{14,15}

In 2015, Scott revisited the 1989 criteria. ¹⁶ Using published data, he and 5 co-authors concluded that some of the original contraindications are no longer considered as such, thereby increasing patient candidacy.

Additionally, one study showed that 47.6% of all knee replacement patients are candidates for PKA.¹³

Training & Education

Training and education can have an improved impact in reducing revision rates. The Swedish Knee Arthroplasty Register (SKAR) found that "increased training of surgeons [on the Oxford PKR] showed improved results." 12

Zimmer Biomet makes it easy for you to become an Oxford PKR Trained Surgeon, through our ongoing lifetime education program.



This FDA-required course provides the opportunity to learn more about the indications for the Oxford PKR and to practice the surgical technique, featuring Microplasty instrumentation.

Oxford Partial Knee Master Courses

For more experienced users of the Oxford PKR, classes are available locally throughout the year. For upcoming courses visit biometosa.com

Oxford Partial Knee Visitation Program

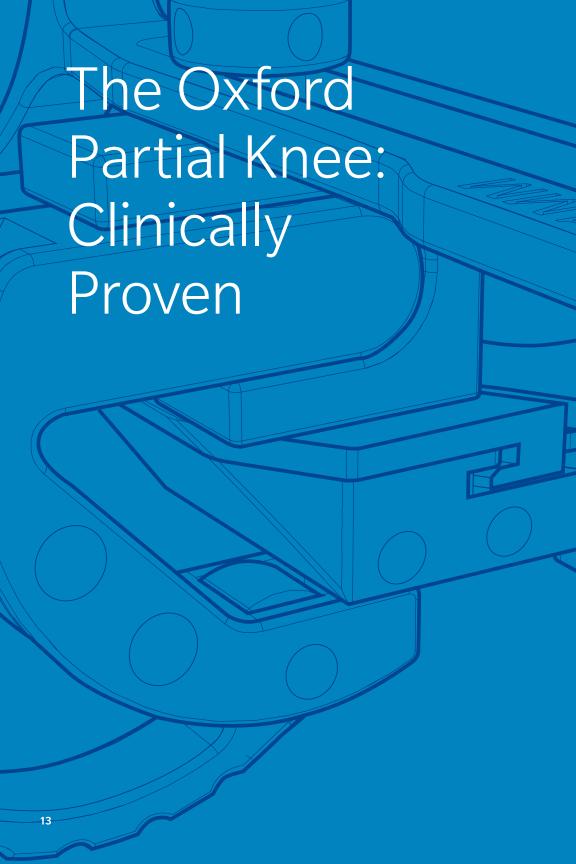
View live surgeries in a hospital setting and discuss implant design rationale.

Touch Surgery Application

To help surgeons stay current with the Oxford Partial Knee surgical technique, Zimmer Biomet has partnered with Touch Surgery to create an interactive surgical technique simulator featuring the Oxford Microplasty Instrumentation. The app is available on iOS and Android.







The Oxford **PKR** has over 40 years of clinical experience and is the only partial knee that's been clinically proven in survivorship at minimum 15¹⁷ and 20 years.18





Benefits of PKA vs. TKA*

Better range of motion

compared to TKA 19,20

Better functionality

than TKA2

Substantial cost savings of approximately \$3,261 per knee¹³



Shorter hospital stays¹⁹

average length of stay in days

Lower risk of postoperative complications^{22*}

At least 0.8 days

average reduction in length of stay in favor of PKA¹⁹

Additional cost savings

when associated with an accelerated recovery protocol¹⁹



Lifetime Warranty

Zimmer Biomet strongly believes in the importance of patient satisfaction and the clinical survivorship of the Oxford PKR.

That's why every Oxford Partial Knee implanted on or after April 29, 2013, now comes with the only Lifetime Knee Implant Replacement Warranty[†] in the U.S. It's your assurance that Zimmer Biomet not only makes a proven partial knee, we stand behind it 100%.

If a patient receives an Oxford Partial Knee and it has to be revised for any reason, Zimmer Biomet will cover the cost of the Zimmer Biomet replacement knee implant.

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- * Some studies included Oxford Partial Knees as well as other 'non-Biomet' partial knees
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- † Subject to terms and conditions within the written warranty.
 - Applies to Oxford Partial Knees implanted on or after 4-29-2013
 - Covers the replacement of Oxford Partial Knee components for any reason
 - Covers the cost of the replacement implant only; does not cover hospital costs, co-pays, or other related expenses
 - Limited to no more than one complete replacement of the product
 - Any additional costs associated with surgery or follow-up are not covered – only the implant components

To find out more, visit www.oxfordpartialknee.com

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The Oxford Partial Knee is intended for osteoarthritis or avascular necrosis limited to the medial knee compartment and is to be implanted with bone cement. The Oxford Knee is not indicated for use in the lateral compartment or for patients with ligament deficiency. Potential risks include, but are not limited to, loosening, dislocation, fracture, wear, and infection, any of which can require additional surgery. For complete prescribing information, see the package insert and www.zimmerbiomet.com.

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