CAUTION: USA federal law restricts this device to sale by or on the order of a physician. The ConforMIS Cruciate Retaining Total Knee Replacement System (iTotal CR) is intended for use only by fully trained physicians. Prior to use of a ConforMIS device, please review the instructions for use and surgical technique for a complete listing of indications, contraindications, warnings, precautions, and directions for use.

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iTotal G2

Patient-specific CRUCIATE-RETAINING knee replacement system
iTG2 is the only individualized total knee system on the market today.
iTG2 is designed to achieve unique advantages not possible with off-the-shelf knee implants. Our proprietary iFit® technology, coupled with the belief that implants and instruments should be unique to the patient, help us create an “individualized solution” in four key areas:

1. INDIVIDUALIZED FIT
2. INDIVIDUALIZED SHAPE
3. SIMPLIFIED SURGICAL TECHNIQUE
4. IMPROVED OR EFFICIENCIES
People vary in more ways than gender, race, and size. At ConforMIS, we believe that optimal implant fit and performance requires an individualized approach.

Our **iFit® Image-to-Implant™** technology transforms traditional imaging data into patient-specific implants and instruments.
Patient-specific condylar offset and intercondylar width

Patient-specific anatomic J-curves

6-cut chamfer design

Patient-specific fit

Medial and lateral poly inserts matched to femoral offset

Patient-specific rotation and coverage
No more compromises on femoral fit. Femoral overhang of ≥3mm has been shown to be a significant cause of residual pain in total knee replacement, affecting 40% of men and 68% of women in one study.¹

iTotal G2 is designed to address the wide variations in patient anatomy that lead to overhang and undercoverage with off-the-shelf total knee systems.

Patient-specific femoral for proper fit without sizing compromises
No more compromises on tibial coverage and rotation. Tibial rotational errors were found in 44% of painful knees using off-the-shelf designs.\(^2\)

iTTotal G2 is specifically designed to address known sources of pain due to rotational errors common with traditional total knee systems.

Patient-specific tibial tray set to proper rotation

Anatomic tibial axis alignment

The result is a knee replacement so precise that it virtually eliminates sizing compromises common to off-the-shelf knee replacements.


**INDIVIDUALIZED SHAPE**

**Shape drives kinematics.** Studies show total knee replacements, including single radius designs, alter patient kinematics.\(^3\) Many patients report that their knee does not feel “natural.”\(^4\) iTotal G2 starts with each patient’s medial, lateral and patellofemoral J-curves, corrected for deformity, as the basis for implant design.


**iShape™ technology:**

- Respects patient’s condylar geometry
- Retains naturally occurring condylar offset

**Separate dual-balancing™ medial and lateral poly inserts:**
- Matched to femoral offset
- Respect patient’s medial and lateral joint lines
- Allows for intraoperative flexibility
Creating an implant to fit the patient, rather than shaping the patient to fit the implant, opens new possibilities in design.

- Help avoid soft tissue impingement (e.g., popliteus tendon “popping”), which traditionally would require releases to correct
- 6-cut design for a thinner implant without sacrificing strength
- 28% volumetric bone preservation advantage for iTotal G2 compared to standard off-the-shelf implants

Contact area (mm²) at 0°, 60° and 90° of flexion

Due to its broad coronal radius and coverage, iTotal G2 offers contact area throughout the range of motion.

- Ref: Slamin JE, et. al; Optimizing Knee Femoral Component Strength and Bone Preservation with Finite Element Analysis. ORS Annual Meeting 2012, Poster #1042
- Data on file.
- Data on file.
- DePuy Orthopedics, Inc. marketing literature. Data for Sigma fixed bearing is at 15° flexion as 0° flexion was not reported.
SIMPLIFIED SURGICAL

TECHNIQUE

Patient data enables a **reproducible surgical technique** using pre-navigated iJigs.®

Disposable, patient-specific iJig instruments for every step:

- iView surgical planning images provide detailed resection values that can be used to verify accuracy throughout the surgery
When it comes to efficiency in the operating room, **less is more**. iTotal G2 is delivered in a single, pre-sterilized kit a few days before surgery.

- No implant inventory
- Pre-sterilized, disposable instruments
- A single reusable instrument tray
- Easy set up and tear down

**IMPROVED OR EFFICIENCIES**