

MATCHED CUTTING BLOCKS

*Designed for you
by you!*

SPECIAL FEATURES OF MYKNEE®:

- Real Cutting Blocks, not only pin positioners
- CT or MRI based
- Online case management
- Complete in house technology
- Only 3 weeks lead time
- A personal MyKnee® technician just for you

Patients can benefit from Medacta's cutting edge technology, knowing they have a system designed specifically for them.

*"Now I'm feeling very well
and the quality of my life
is improving, I'm happy
again"
E.B., Austria*

*"Thanks to Medacta for
this new technology"
F.R., Switzerland*

*"I'm looking forward
to having my new knee
and stop feeling pain"
M.J., USA*



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MyKnee®
PATIENT MATCHED CUTTING BLOCKS



DESIGNED FOR YOU BY YOU!

MyKnee® PATIENT

INNOVATION: THE KEY TO SUCCESS

Medacta's core philosophy is based on the belief that innovation is the key to success. This leads to a constant effort towards the development of cutting edge solutions for Orthopaedics.

MyKnee® is a patient-specific cutting block, allowing the surgeon to realize his pre-operative 3D planning, based on CT or MRI images of the patient's knee.

This innovative concept combines different features giving potential benefits to both the surgeon and to the patient.

- Accurate implant positioning
- No intramedullary canal violation
- Up to 60% reduction of surgical steps for bone resection and related time
- Potentially one extra case per surgery session
- Up to 66% reduction of time and cost in washing, assembling and sterilization procedures
- Interactive 3D web planning

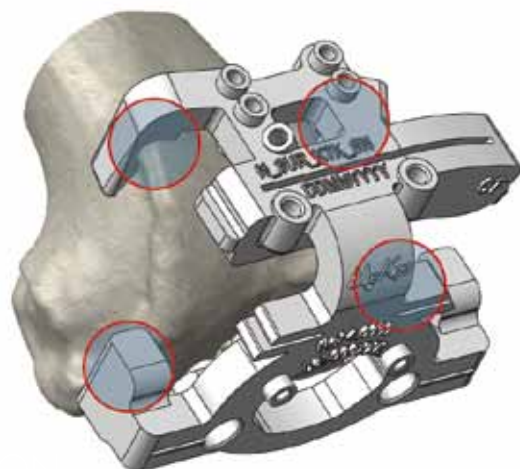


PATIENT MATCHED CUTTING BLOCKS

Accurate implant positioning^[1]

The MyKnee® cutting blocks are made to accurately match the surgeon's preoperative planning, based on **individual patient's anatomy and his mechanical axis**:

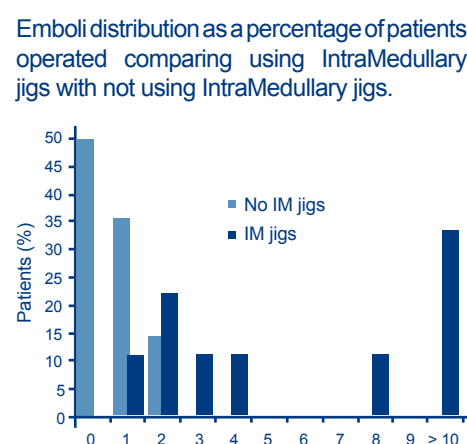
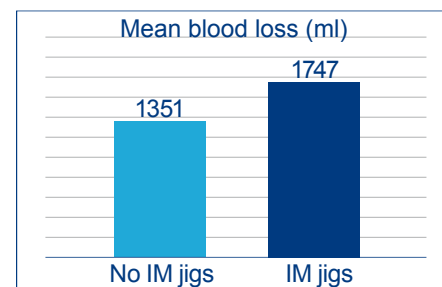
- **Unmistakable positioning:** The MyKnee® guides are positioned on the bone referring to distinct references: the osteophytes
- **Maximized visibility** through the guides during both blocks positioning and resections
- **Telescopic alignment rod:** The guides allow a drop rod to be connected, allowing you to validate intraoperatively the actual positioning and axial alignment of the blocks



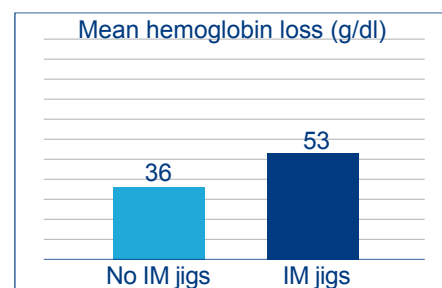
^[1] Series of 56 cases - 90% neutral HKA within 3° from 180°, 100% HKA within 4.2°
Koch P, Meyer D. Podium Presentation at the 21st Biennial Congress of the South African Arthroplasty Society, Cape Town, South Africa, April 6-10, 2011.

No intramedullary canal violation

- **Less bleeding** ^[adapted from 2]
- **Less risk of emboli** ^[adapted from 3]



- **Less haemoglobin loss** ^[adapted from 2]



- Having less blood loss allows the hospital structure and patient to **save money associated with transfusions**

^[2]Kalairajah Y. et al. Blood loss after total knee replacement: effects of computer-assisted surgery. JBJS Br. 2005 - Nov;87(11):1480-2.

^[3]Kalairajah Y, Cossey AJ, Verrall GM, Ludbrook G, Spriggins AJ. Are systemic emboli reduced in computer-assisted knee surgery?: A prospective, randomised, clinical trial. JBJS Br. 2006 Feb;88(2):198-202.

MYKNEE® OFFERS YOU MORE...

■ Real Cutting Blocks, not only pin positioners

The bone resections are performed directly through the slots and all the checks can be done intraoperatively before pinning the cutting blocks.

■ CT or MRI based

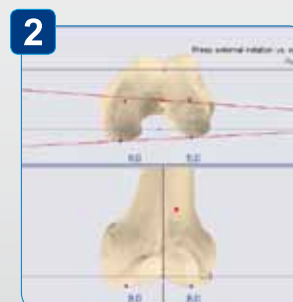
Freedom to choose the preferred imaging technology.

■ Online case management

The MyKnee® cases are managed entirely online, without the need of installing any software. The cases database is available to the surgeon at any time from everywhere and, moreover, the information on the website is always kept up-to-date.



Medacta® receives the CT or MRI images of the patient's leg.



Starting from the 3D reconstruction of the joint and following the surgeon preferences, the MyKnee® preoperative planning is performed.



A virtual positioning of the implant is proposed to the surgeon who can modify the planning as he wishes.



Once the planning has been validated by the surgeon, the in-house manufacturing process starts.

Up to 60% reduction of surgical steps for bone resection and related time

Only 3 surgical steps are needed using MyKnee® cutting guides: **FIT – PIN – CUT**, saving more than 20 steps.

Having a smaller number of surgical steps may reduce the overall surgical time, **potentially adding one extra case per surgery session.**

Moreover the patient may benefit:

- **Less exposure to the risk of infection** ^[4]
- **Less time under anaesthesia.**
- **Less tourniquet time**



^[4]Peersman G, Laskin R, Davis J, Peterson MGE, Richart T. Prolonged Operative Time Correlates with Increased Infection Rate after Total Knee Arthroplasty. Hospital for Special Surgery Journal 2006 - Feb;2(1):70-2.

GAUK® PRIMARY
GLOBAL MEDACTA KNEE

Up to 66% reduction of time and cost in washing, assembling and sterilization procedures

- Only 2 MyKnee® trays opened vs. 6 or more for a conventional TKR
- Specific implants ready in the operative room
- Less set-up time & turnover time
- Less risk of losing and damaging pieces
- Fewer cleaning requirements ^[5]
- Improved overall operative room logistics and efficiency

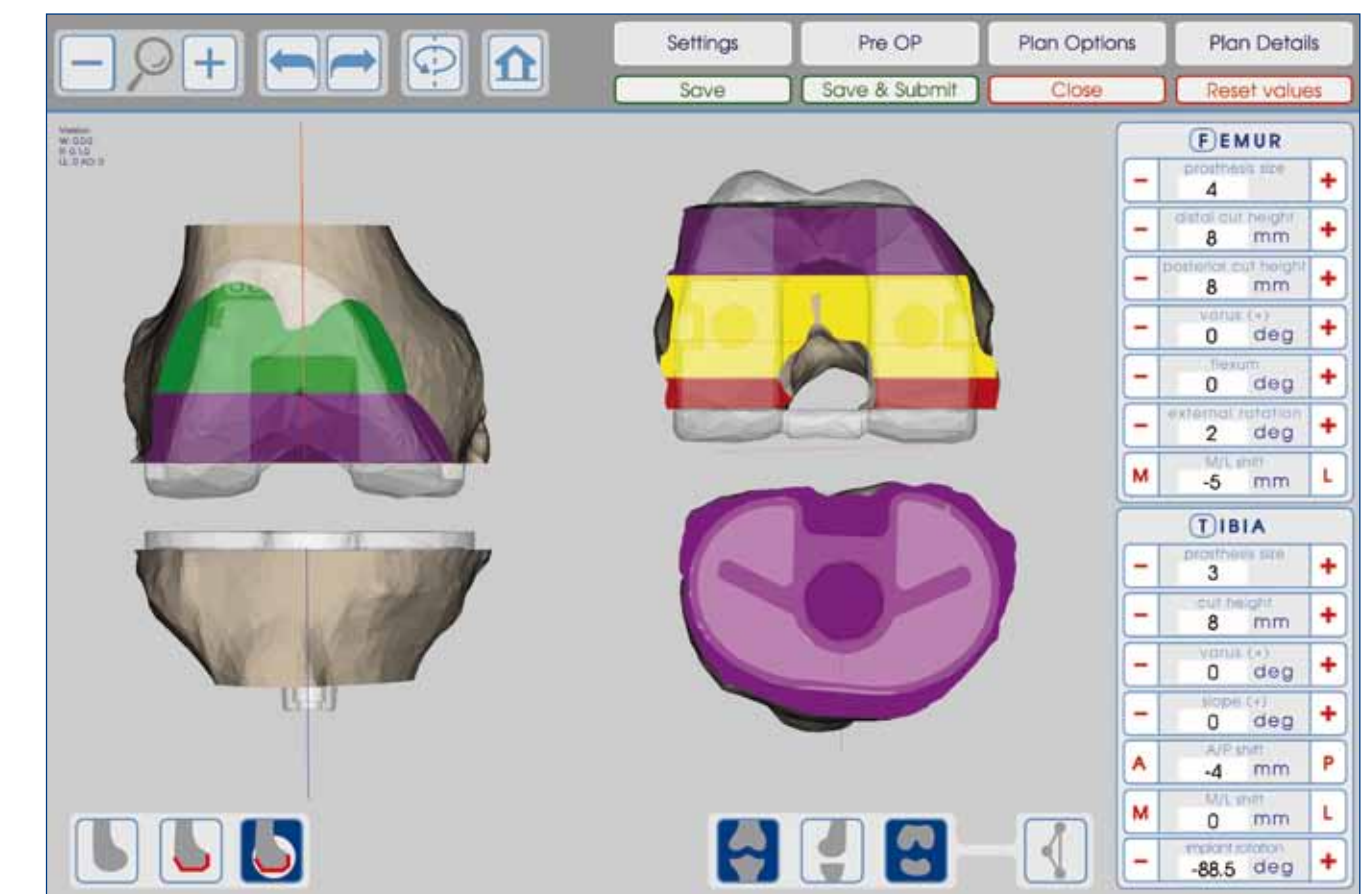


^[5]Data on file: Medacta®

Interactive 3D web planning

Designed by you!

The MyKnee® preoperative planning is based on the surgeon's specific preferences and submitted to the surgeon for approval through an interactive website available at <https://myknee.medacta.com>.



The user interface may change without notice. The picture is only indicative and shows the information provided by the interactive website.

For every case the surgeon can modify all femur and tibia parameters such as femoral distal and anterior-posterior resection levels, femoral rotation, femoral flexion, femoral and tibial varus/valgus, tibial resection level and tibial slope. The MyKnee® team is always at surgeon's disposal and is pleased to collaborate.

Once approved by the surgeon, Medacta® produces MyKnee® cutting blocks using in house laser sintering technology.

The guides are then shipped to be setup for surgery.