

# MATCHED INSTRUMENTATION

## INTERACTIVE 3D WEB PLANNING

### DESIGNED BY YOU

Based on the surgeon's preoperative preferences, each case is submitted for approval by means of an interactive website.

The patient's database is available to the surgeon at any time from everywhere and, moreover, the information on the website is always kept up to date.

For each 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.

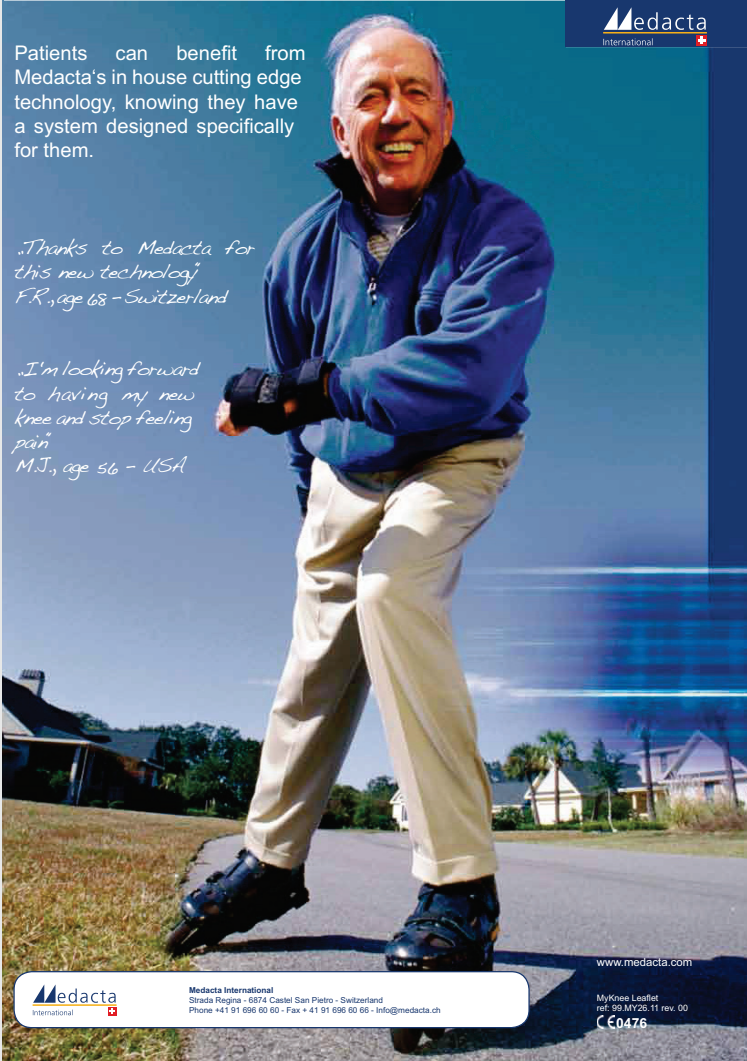
Once approved by the surgeon, Medacta® produces MyKnee® cutting blocks using in house rapid prototyping technology.

The guides are then shipped directly to the hospital.

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

*„Thanks to Medacta for this new technology  
F.R., age 68 - Switzerland*

*„I'm looking forward to having my new knee and stop feeling pain  
M.J., age 56 - USA*



**MyKnee**  
PATIENT MATCHED INSTRUMENTATION



**DESIGNED FOR YOU BY YOU!**



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MyKnee Leadset  
ref. 209.MV20.11 rev. 00  
C 0476



# PATIENT MATCHED INSTRUMENTATION



## 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 important benefits to both the surgeon and to the patient.



✓ **PRECISE IMPLANT POSITIONING**

✓ **UP TO 60% REDUCTION OF SURGICAL STEPS FOR BONE RESECTION**

✓ **NO INTRAMEDULLARY CANAL VIOLATION**

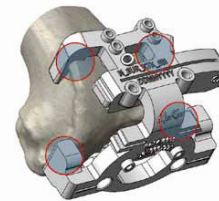
✓ **UP TO 66% REDUCTION OF STERILIZATION COST**

✓ **IMPROVED LOGISTICS AND OR EFFICIENCY**

✓ **INTERACTIVE 3D WEB PLANNING**

### PRECISE IMPLANT POSITIONING

■ **Unambiguous positioning:** the MyKnee® guides are positioned on bones referring to definite references: the osteophytes



■ **Excellent visibility:** through the guides during both blocks positioning and resections

■ **Telescopic alignment rod:** the guide alignment can be intraoperatively double checked to minimize the risk of implant malpositioning

### UP TO 60% REDUCTION OF SURGICAL STEPS FOR BONE RESECTION

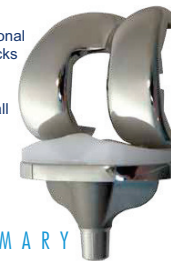
Only 3 surgical steps are needed using MyKnee® cutting guides: **FIT – PIN – CUT**, saving more than 20 steps.

■ **Slotted guides:** the bone resections are performed directly through the slots integrated on the MyKnee® guides, according to the validated preoperative planning

The MyKnee® cutting blocks are also compatible with the conventional GMK® instrumentation as the pin holes allow conventional cutting blocks positioning.

▶ Having a smaller number of surgical steps may reduce the overall surgical time. Less surgical time means for the patient:

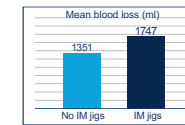
- **Less exposure to the risk of infection**
- **Less time under anaesthesia**
- **Less tourniquet time**



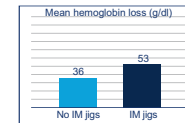
**GMK® PRIMARY**  
GLOBAL MEDACTA KNEE

### NO INTRAMEDULLARY CANAL VIOLATION

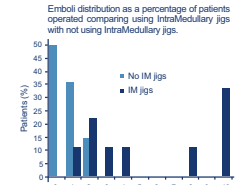
■ **Less bleeding** <sup>(1)</sup>



■ **Less haemoglobin loss** <sup>(1)</sup>



■ **Less risk of emboli** <sup>(2)</sup>



▶ **Having less blood loss allows the hospital structure to save money for transfusions**

<sup>(1)</sup> Kalairajah Y, et al. Blood loss after total knee replacement: effects of computer-assisted surgery. JBJS Br. 2005 - Nov;87(11):1480-2.

<sup>(2)</sup> Kalairajah Y, Cossey AJ, Verrall GM, Ludbrook G, Spriggins AJ. Are systemic emboli reduced in computer-assisted knee surgery? A prospective, randomised, clinical trial. J Bone Joint Surg Br. 2006 Feb;88(2):198-202.

### UP TO 66% REDUCTION OF STERILIZATION COSTS

■ **Only 2 MyKnee® trays opened vs 6 conventional trays**



### IMPROVED LOGISTICS AND OPERATIVE ROOM EFFICIENCY

Having fewer instruments in the surgical theatre means:

- **Easier handling**
- **Less risk of losing and damaging pieces**
- **Fewer cleaning requirements**



thus improving the overall hospital logistics.