QUADRA® SYSTEM

INSTRUMENTATION

- The same tray to implant Quadra®R, Quadra®H, Quadra®C*, dual standard and individualized trials fit onto the broaches for a quick and precise trial reduction.
- Manual and motorized broach handles.
- Offset broach handles available in left and right versions for motorized and manual use with 2 different inclinations.
- High quality sharp broaches for a precise preparation of the medullary canal.
- Microblock motorized broaches option available to be used with femoral stem track.

ONE TRAY IS ENOUGH!

- Quadra® instrumentation requires a different tray for dedicated broaches and trial necks.

- AMIS® is the Anterior Minimally Invasive Surgery provided and supported by Medacta® International. Add one tray to have all the specific instrumentation for the AMIS® approach.
- Medacta®, in collaboration with the surgical world, has developed a set of instruments with the aim of reducing errors, reducing the learning curve and simplifying the implementation of the AMIS® technique.
- You will find special retractors, reamers, cup impactors and of course special broach handles.

The definitive MIS approach: AMIS®.

The AMIS® Mobile Leg positioner will be supplied as part of the instrumentation to allow an effective and reliable positioning of the leg during surgery. Traction, adduction, rotation and hyperextension have never been so easy.

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AMIS® Brochure

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Quadra® System: A Complete Range of Straight Stems

Introducing the Quadra® System, a complete range of straight stems available with the Quadra® System.

Quadra®-C is the cemented stem available with the Quadra® System.

Cementless Stems

Direct cementless femoral stems have demonstrated, through 20 years of clinical follow-up, the ability to withstand biomechanical stresses by showing an exceptionally good survival rate.[1,4] The Quadra® System is composed of 2 cementless stem options sharing all mechanical characteristics, with different surface treatments. The Quadra®-C is sandblasted and the Quadra®-H has an HA coating.

Quadra® R is a cementless straight long stem designed for revision or pertrochanteric fractures.

Quadra®-H is designed from the Quadra®-H stem adding a longer stem option for more distal fill in the diaphysis. It shares the characteristics of the Quadra® cementless options. Quadra®-H is available with a dedicated instrument tray.

Cementless Long-Stem

Quadra®-S and Quadra®-H are made of Titanium Niobium alloy. Titanium is an inert and biocompatible material ideal for direct interaction with the bone.[5,6,7] Titanium also presents the ideal stiffness for a cementless stem, avoiding stress shielding. Quadra®-C is made of high nitrogen stainless steel providing the ideal stiffness for a cemented solution.

Quadra®-S Surfase: The surface has a superficial roughness between 4μm and 7μm thanks to a specific sand blasting treatment on the whole shaft.

Quadra®-H and Quadra®-r Surfase: The surface has an 80 μm thick HA coating on the whole shaft applied after a superficial sand-blasting. The HA coating has chemical characteristics similar to those of the human bone.[8,9,10,11]

Quadra®-C Surfase: Mirror polished surface for an interaction with the cement mantle.

Concept

Shape

Based on the experience of the straight, rectangular cementless stems.

Design

■ Triple taper with trapezoidal cross section providing for axial and rotational stability with optimal anchoring to the bone.[14]

Neck

■ Multiple options to meet the patient needs including standard, lateralised and short neck options.

■ Mirror polished rounded neck to minimize wear.

■ Suitable for Double Mobility lines.

Taper

■ Micro threaded.

■ 12/14 EMUZONNE (5°42’30”).

■ Shortened to increase ROM and minimize wear.

Proximal Femur

Close contact between the stem and the cortical bone due to the tapered shape and high precision broaches.

■ Stability.

■ Anatomic load transfer.

■ Minimized stress shielding and potential for loosening.

■ Reduced lateral shoulder ideal for MIS approaches.

Macrostructures

Horizontal and vertical macrostructures increase the contact surface area by 10-15%.[13]

■ The proximal horizontal macrostructures increase the axial stability.

■ The vertical distal macrostructures increase the rotational stability.

Diaphysis

■ Sharpened edges account for an optimal primary diaphysial fit.[14]

■ Enhanced rotational stability.

Distal Tip

Double tapered distal tip reduces the risk of stress peak in the diaphysis.

Material & Finishing

Quadra®-S and Quadra®-H Surfase: The surface has a superficial roughness between 4μm and 7μm thanks to a specific sand blasting treatment on the whole shaft.

Quadra®-C Surfase: Mirror polished surface for an interaction with the cement mantle.

PRODUCT RANGE

QUADRA® SYSTEM: COMPLETE RANGE OF STRAIGHT STEMS

Quadra®-S & Quadra®-H

■ 11 STANDARD sizes with 135° neck-shaft angle and 7 LATERALIZED sizes with 127° neck-shaft angle.

■ Shorter neck sizes are available for both STANDARD and LATERALIZED versions.

Quadra®-C

■ 8 STANDARD sizes with 135° neck-shaft angle.

Quadra®-R

■ 10 sizes with 127° neck-shaft angle.