





REDEFINING THR: THE AMIS® SYNERGY

The anterior approach, strengthened by several years of clinical experience, is the only technique which follows a path both intermuscular and internervous and therefore reduces considerably the risk of damaging periarticular structures such as muscles, tendons, vessels and nerves.

Medacta® International is the world leader for educating and supporting surgeons in their pursuit of Anterior Minimally Invasive Surgery (AMIS®). Reference Centers, located throughout the world, provide the necessary AMIS® educational experience and Medacta® offers continuous support for surgeons, as well as constantly improving and developing the industries most specialised instrumentation platform.

Using AMIStem you can enter Medacta® International's world of AMIS®.

Discover:

- The definitive MIS approach: AMIS®;
- Dedicated AMIS® instrumentation;
- The AMIS® Mobile Leg Positioner: the original orthopaedic extension table included as part of the instrumentation that makes the surgery easier and reproducible;
- The AMIS® Education Programme based on Medacta's proven educational methods.

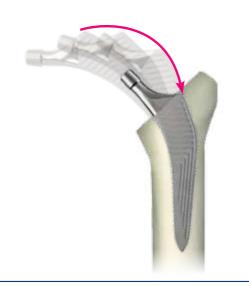
A AAIS° & A AAIStem

Thanks to its unique design, AMIStem is the logical femoral stem for the AMIS® approach:

Reduced shoulder +



Easier stem introduction through AMIS®



Visit us at:

www.medacta.com

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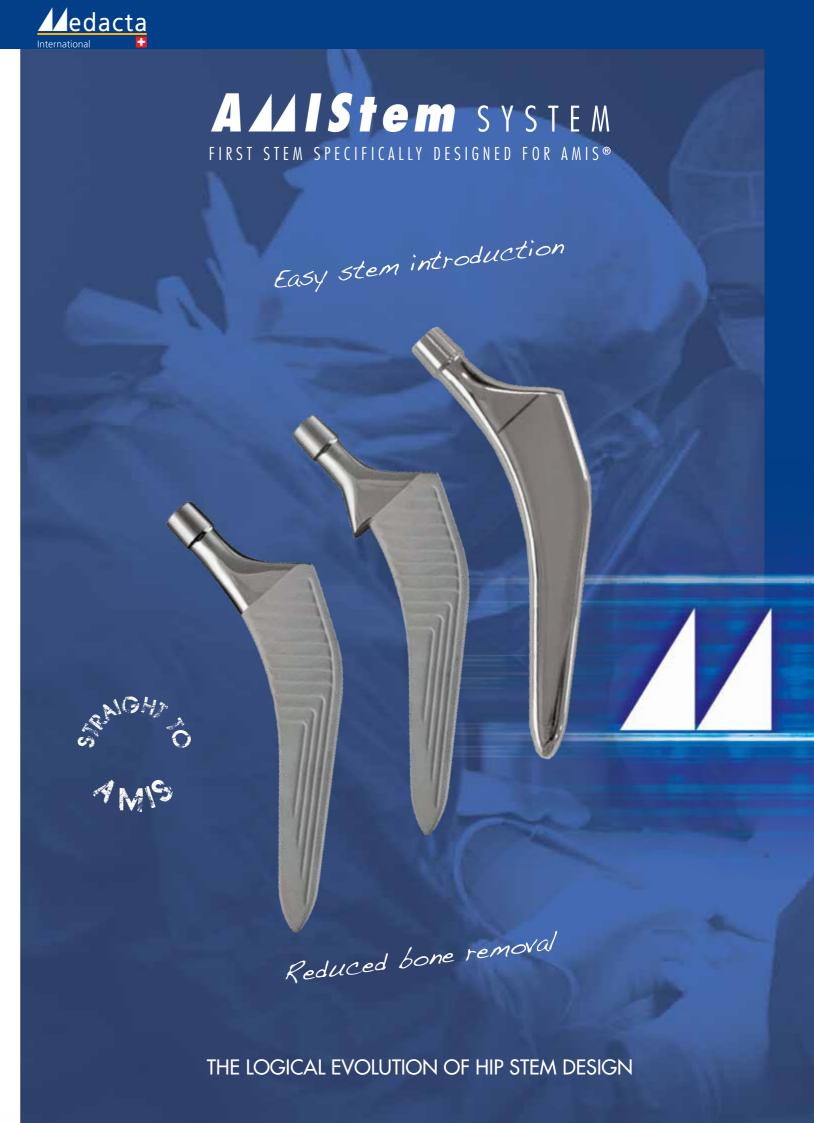
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Strada Regina 6874 Castel San Pietro - Switzerland Phone +41 91 696 60 60 - Fax + 41 91 696 60 66 AMIStem System Leaflet ref: 99.14ASTEM.11 rev. 03 Last update: December 2012 C€ 0476



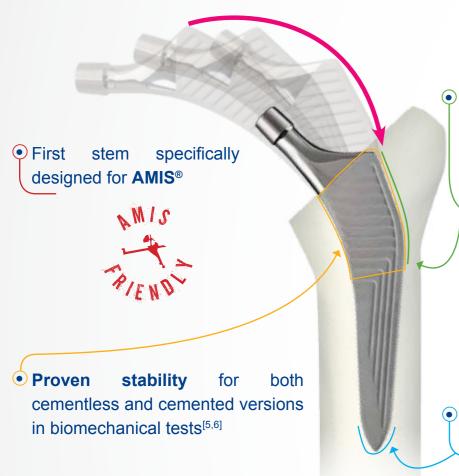




A 11 Stem the Logical Evolution of hip stem design

The AMIStem has been developed to facilitate broaching and stem insertion when utilising the AMIS® approach without compromising implant stability. Based on the clinical experience of straight, rectangular, cementless hip stems,^[1,2,3,4] the AMIStem incorporates features which simplify the AMIS® approach.

BONE PRESERVING, AMIS® FRIENDLY



• Easier stem introduction due to the reduced lateral flare. Overall dimensions reduced by 33% compared to standard straight rectangular stems^[8]

Reduced bone removal due to the optimised length

PRODUCT RANGE



AMIStem-H

- 11 STANDARD sizes, from 00 to 9, with a 135° neck-shaft angle
- 9 LATERALISED sizes, from 0 to 8, with a 127° neck-shaft angle

AMIStem-H Collared

- 11 STANDARD sizes, from 00 to 9, with a 135° neck-shaft angle
- 9 LATERALISED sizes, from 0 to 8, with a 127° neck-shaft angle

AMIStem-C

- 9 STANDARD sizes, from 0 to 8, with a 135° neck-shaft angle
- 9 LATERALISED sizes, from 0 to 8, with a 127° neck-shaft angle



TECHNICAL DETAILS

Design



- The mirror polished surface treatment minimises soft tissue damage and liner wear, making the AMIStem suitable for double mobility liners.
- Increasing size by size to restore anatomy.

SHAPE

- The triple tapered design provides good axial and rotational stability with optimal fixation with bone.^[5,7]
- The rectangular cross-section facilitates effective stability but also promotes the preservation of bone vascularisation, since the diaphysis is not completely filled.^[2,3,4]

SURFACE TREATMENT

- AMIStem-H: the horizontal and vertical macrostructures increase stability and enhance the contact surface area by 10-15%. [8]
- AMIStem-C: the mirror polished surface does not cause cracks or gaps in the cement mantle. [6]

• TIP

- The double tapered distal tip reduces the risk of stress peak in the diaphysis.

COLLARED OPTION

- AMIStem-H Collared is an additional option to the AMIStem System which is now even more flexible and able to include all patient needs and bone anatomies.
- The collar width increases with size.
- May assist in the prevention of subsidence in patients that present Dorr Type C bone.

Material

- AMIStem-H and AMIStem-H Collared are made of Titanium-Niobium alloy in accordance with ISO 5832-11. Their surface presents a 80 μ m thick Hydroxyapatite (HA)coating after a superficial sand-blasting of 4 to 7 μ m roughness.
- The HA coating has chemical characteristics similar to that of human bone which stimulates the bony ongrowth. [4, 9, 10, 11, 12]
- AMIStem-C is made of high nitrogen stainless steel, in accordance with ISO 5832-9 and has a mirror polished surface.

Instrumentation

- The same tray to implant AMIStem-H, AMIStem-H Collared and AMIStem-C.
- Both standard and lateralised trial necks fit onto the broaches for a quick and precise trial reduction.
- Offset broach handles available.
- High quality sharp broaches for precise preparation of the medullary cavity.
- Optional monoblock motorised broaches available for use with femoral stem trials.
- Dedicated AMIS® instrumentation.





