

AMIS[®] SYSTEM

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 specialized instrumentation platform.

Using AMIS[®] 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 Program** based on Medacta's proven educational methods.

AMIS[®]

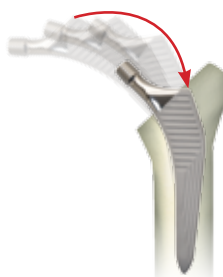


AMISTEM: BONE PRESERVING, AMIS[®] FRIENDLY

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

REDUCED SHOULDER +
OPTIMIZED LENGTH =

EASIER STEM INTRODUCTION
THROUGH AMIS[®]



REFERENCES

[1] Moreau P. Cementless HA coated Quadra[®] stem - 7 Years Clinical Outcomes. M.O.R.E. Journal, 2012 Jan; 2:3-6. [2] Zweymüller K. 20 years of Zweymüller cement free hip endoprosthesis. J. Orthopädie 1999 Dez; 5:2-7. [3] Dorn U, Kiss H, Engelhardt C, Dohnalek C, Steindl M, Zweymüller K. Results of Femoral Revision THR using the SR stem: Minimum 2 years follow-up. 20 years of Zweymüller hip endoprosthesis, 4th Vienna Symposium. Zweymüller K (ed) - Bern; Göttingen; Toronto; Seattle: Huber, 2002. [4] Bonnomet F, Delaunay C, Simon P, Lefebvre Y, Clavert P, Kapandji AI, Kempf JF. Comportement d'un tige fémorale droite en arthroplastie totale primaire non cimentée de la hanche chez les patients de moins de 65 ans. Rev de Chir Orthop 2001; 87:802-814. [5] Heidelberg Lab-Report. Orthopädische Universitätsklinik Heidelberg, 2008. Data on file: Medacta[®]. [6] Orthopaedic Research Laboratory Radboud University Nijmegen Medical Centre. Experimental assessment of the stability of the Cone stem relative to the AMIS[®] stem, April 2010. Data on file: Medacta[®]. [7] Data on file: Medacta[®]. [8] Löhr JF, Schütz U, Drobny T, Munzinger U. Revision Arthroplasty with the SR-Revision Shaft. 20 years of Zweymüller hip endoprosthesis, 4th Vienna Symposium. Zweymüller K (ed) - Bern; Göttingen; Toronto; Seattle: Huber, 2002. [9] Hardy DC, Frayssinet P, Guilhem A, Lafontaine MA, Delince PE. Bonding of Hydroxyapatite Coated Femoral Prostheses. J Bone Joint Surg Br. 1991 Sep; 73(5):732-40. [10] Hardy DC, Delince PE. Aspects Radiologiques de l'Arthroplastie Fémorale Revetue d'Hydroxyapatite et correspondance Histologiques Acta Orthop Belg. 1993; 59(1):229-334. [11] Hardy DC, Frayssinet P, Delince PE. Projection d'Hydroxyapatite sur Prothèses Articulaires : Progrès ou Illusion ? Acta Orthop Belg. 1993; 59(1):98-103. [12] Fraissinet P, Hardy D, Conte P, Delince P, Guilhem A, Bonel G. Histological analysis of the bone-prosthesis interface after implantation in humans of prostheses coated with hydroxyapatite. The Journal of Orthop Surg. 1993; 7(3):246-53.

swiss
made



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AMIS[®] SYSTEM

THE LOGICAL EVOLUTION OF HIP STEM DESIGN

FIRST STEM SPECIFICALLY DESIGNED FOR AMIS[®]



STRAIGHT
TO
AMIS[®]

Brochure

Hip

Knee

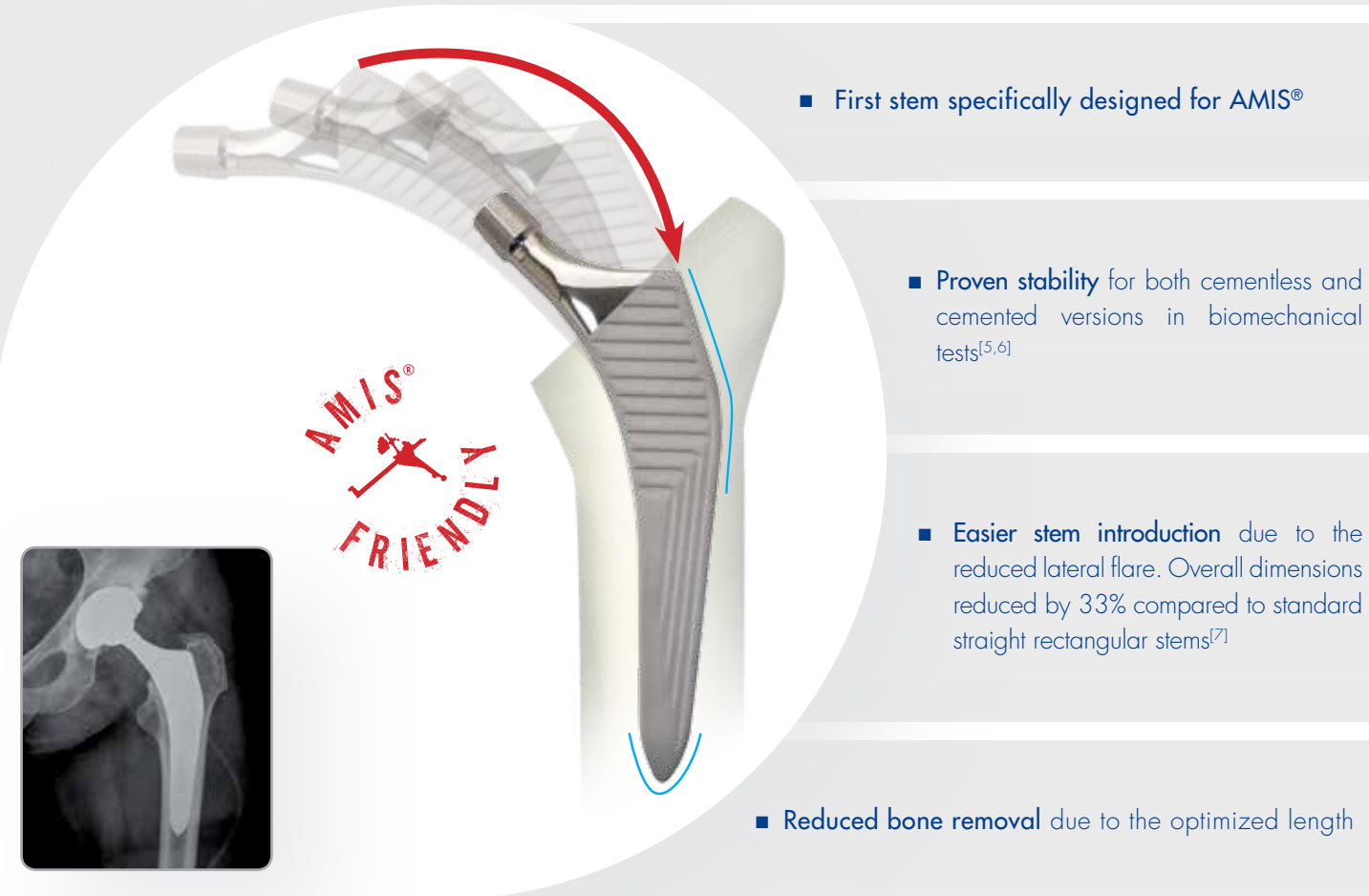
Spine

Navigation

Medacta
International

AMISTEM: THE LOGICAL EVOLUTION OF HIP STEM DESIGN

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



PRODUCT RANGE

AMISTEM-H

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



DESIGN

NECK

- The mirror polished surface treatment minimizes soft tissue damage and liner wear, making the AMIS[®] suitable for double mobility liners.
- Increasing size by size to restore anatomy.

SHAPE

- The triple tapered design provides axial and rotational stability with optimal fixation with bone.^[5,8]
- The rectangular cross section facilitates effective stability but also promotes the preservation of bone vascularization, since the diaphysis is not completely filled.^[2,3,4]

SURFACE TREATMENT

- AMIS[®]-H: the horizontal and vertical macrostructures increase stability and enhance the contact surface area by 10-15%.^[8]
- AMIS[®]-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 in the diaphysis.

COLLARED OPTION

- AMIS[®]-H Collared is an additional option to the AMIS[®] System.
- The collar width increases with size.
- May assist in the prevention of subsidence in patients that present Dorr Type C bone.

MATERIAL

- AMIS[®]-H and AMIS[®]-H Collared are made of Titanium-Niobium alloy in accordance with ISO 5832-11. Their surface presents a 80 µm thick Hydroxyapatite (HA) coating after a superficial sand-blasting of 4 to 7 µm roughness.
- The HA coating has chemical characteristics similar to that of human bone.^[4,9,10,11,12]
- AMIS[®]-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 AMIS[®]-H, AMIS[®]-H Collared and AMIS[®]-C.
- Both standard and lateralized trial necks fit onto the broaches for a quick and precise trial reduction.
- Offset broach handles available.
- Optional monoblock motorized broaches available for use with femoral stem trials.
- Dedicated AMIS[®] instrumentation.



ONE TRAY IS ENOUGH!