









Instructions Use

Metallic Interchangeable Head

Symbols used in packaging

REF	Product Code
LOT	Lot Code
	Consult instructions for use
Material SS	Steel Stainless ASTM F138
 <small>DDMMYYYY</small>	Manufacturing date
Estéril R	Sterilized by Gamma Radiation

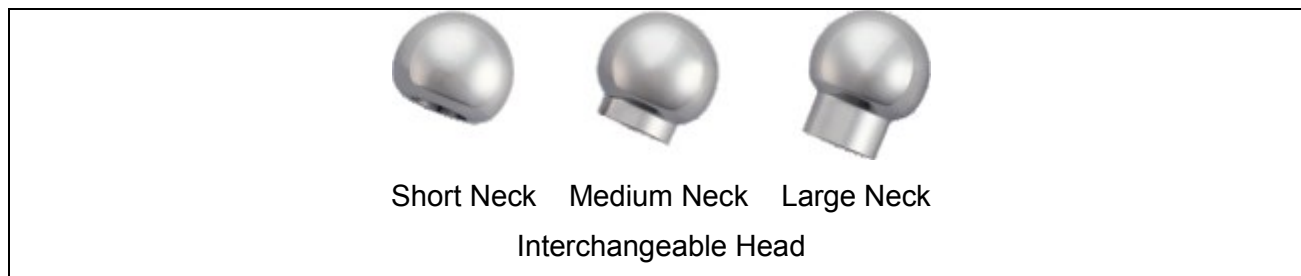
	Avoid direct exposition at sunlight
	Keep protected of humidity
	Take care - Fragile
	Do not use if the package is damaged
	Validity Date
	Single use product

Description:

The Metallic Interchangeable Head is an implant in spherical format with diameters: 22, 24, 26, 28, 30 e 32 mm. It makes the function of CVJ joint at the hip when of its total replacement. It works embedded through a Morse cone in hip femoral stem and yet in the acetabular component.

The Metallic Interchangeable Head is manufactured from Steel Stainless Alloy, as ASTM F-138 - Standard Specification for Wrought 18 Chromium -14 Nickel - 2.5 Molybdenum Stainless Steel Bar and Wire for Surgical Implants (UNS S31673).

The Metallic Interchangeable Heads are presented in the following models:





Interchangeable Head
(Neck: Standard/–2 mm/+ 3 mm)

Purpose:

The Metallic Interchangeable Head is indicated to substitute the femur natural head, due to premature wear or femur head trauma, allowing its CVJ movement.

The Metallic Interchangeable Head are available in the following dimensions:

Table – Metallic Interchangeable Heads Description

Code	Description
04.04.01.22000	Interchangeable Femoral Head Cone 10/11 Short Neck Ø22mm
04.04.01.22005	Interchangeable Femoral Head Cone 10/11 Medium Neck Ø22mm
04.04.01.22010	Interchangeable Femoral Head Cone 10/11 Large Neck Ø22mm
04.04.01.22015	Interchangeable Femoral Head Cone 10/11 Extra-Large Neck Ø22mm
04.04.01.26000	Interchangeable Femoral Head Cone 10/11 Short Neck Ø26mm
04.04.01.26005	Interchangeable Femoral Head Cone 10/11 Medium Neck Ø26mm
04.04.01.26010	Interchangeable Femoral Head Cone 10/11 Large Neck Ø26mm
04.04.01.26015	Interchangeable Femoral Head Cone 10/11 Extra-Large Neck Ø26mm
04.04.01.28000	Interchangeable Femoral Head Cone 10/11 Short Neck Ø28mm
04.04.01.28005	Interchangeable Femoral Head Cone 10/11 Medium Neck Ø28mm
04.04.01.28010	Interchangeable Femoral Head Cone 10/11 Large Neck Ø28mm
04.04.01.28015	Interchangeable Femoral Head Cone 10/11 Extra-Large Neck Ø28mm
04.04.01.28030	Interchangeable Femoral Head Cone 10/11 Extra-Large Neck + 15 Ø28mm
04.04.01.28035	Interchangeable Femoral Head Cone 10/11 Extra-Large Neck + 20 Ø28mm
04.04.01.32000	Interchangeable Femoral Head Cone 10/11 Short Neck Ø32mm
04.04.01.32005	Interchangeable Femoral Head Cone 10/11 Medium Neck Ø32mm
04.04.01.32010	Interchangeable Femoral Head Cone 10/11 Large Neck Ø32mm
04.04.01.32015	Interchangeable Femoral Head Cone 10/11 Extra-Large Neck Ø32mm
04.04.02.22000	Interchangeable Femoral Head Cone 12/13 Short Neck Ø22mm
04.04.02.22005	Interchangeable Femoral Head Cone 12/13 Medium Neck Ø22mm
04.04.02.22010	Interchangeable Femoral Head Cone 12/13 Large Neck Ø22mm
04.04.02.22015	Interchangeable Femoral Head Cone 12/13 Extra-Large Neck Ø22mm
04.04.02.26000	Interchangeable Femoral Head Cone 12/13 Short Neck Ø26mm
04.04.02.26005	Interchangeable Femoral Head Cone 12/13 Medium Neck Ø26mm
04.04.02.26010	Interchangeable Femoral Head Cone 12/13 Large Neck Ø26mm

04.04.02.26015	Interchangeable Femoral Head Cone 12/13 Extra-Large Neck Ø26mm
04.04.02.28000	Interchangeable Femoral Head Cone 12/13 Short Neck Ø28mm
04.04.02.28005	Interchangeable Femoral Head Cone 12/13 Medium Neck Ø28mm
04.04.02.28010	Interchangeable Femoral Head Cone 12/13 Large Neck Ø28mm
04.04.02.28015	Interchangeable Femoral Head Cone 12/13 Extra-Large Neck Ø28mm
04.04.02.32000	Interchangeable Femoral Head Cone 12/13 Short Neck Ø32mm
04.04.02.32005	Interchangeable Femoral Head Cone 12/13 Medium Neck Ø32mm
04.04.02.32010	Interchangeable Femoral Head Cone 12/13 Large Neck Ø32mm
04.04.02.32015	Interchangeable Femoral Head Cone 12/13 Extra-Large Neck Ø32mm
04.04.03.22000	Interchangeable Femoral Head Cone 12/14 Short Neck Ø22mm
04.04.03.22005	Interchangeable Femoral Head Cone 12/14 Medium Neck Ø22mm
04.04.03.22010	Interchangeable Femoral Head Cone 12/14 Large Neck Ø22mm
04.04.03.22015	Interchangeable Femoral Head Cone 12/14 Extra-Large Neck Ø22mm
04.04.03.26000	Interchangeable Femoral Head Cone 12/14 Short Neck Ø26mm
04.04.03.26005	Interchangeable Femoral Head Cone 12/14 Medium Neck Ø26mm
04.04.03.26010	Interchangeable Femoral Head Cone 12/14 Large Neck Ø26mm
04.04.03.26015	Interchangeable Femoral Head Cone 12/14 Extra-Large Neck Ø26mm
04.04.03.26022	Interchangeable Femoral Head Cone 12/14 Short Neck Ø26mm
04.04.03.28000	Interchangeable Femoral Head Cone 12/14 Short Neck Ø28mm
04.04.03.28005	Interchangeable Femoral Head Cone 12/14 Medium Neck Ø28mm
04.04.03.28010	Interchangeable Femoral Head Cone 12/14 Large Neck Ø28mm
04.04.03.28015	Interchangeable Femoral Head Cone 12/14 Extra-Large Neck Ø28mm
04.04.03.32000	Interchangeable Femoral Head Cone 12/14 Short Neck Ø32mm
04.04.03.32005	Interchangeable Femoral Head Cone 12/14 Medium Neck Ø32mm
04.04.03.32010	Interchangeable Femoral Head Cone 12/14 Large Neck Ø32mm
04.04.03.32015	Interchangeable Femoral Head Cone 12/14 Extra-Large Neck Ø32mm
04.04.04.01038	Monopolar Head Ø38mm - Cone 12/13
04.04.04.01039	Monopolar Head Ø39mm - Cone 12/13
04.04.04.01040	Monopolar Head Ø40mm - Cone 12/13
04.04.04.01041	Monopolar Head Ø41mm - Cone 12/13
04.04.04.01042	Monopolar Head Ø42mm - Cone 12/13
04.04.04.01043	Monopolar Head Ø43mm - Cone 12/13
04.04.04.01044	Monopolar Head Ø44mm - Cone 12/13
04.04.04.01045	Monopolar Head Ø45mm - Cone 12/13
04.04.04.01046	Monopolar Head Ø46mm - Cone 12/13
04.04.04.01047	Monopolar Head Ø47mm - Cone 12/13
04.04.04.01048	Monopolar Head Ø48mm - Cone 12/13
04.04.04.01049	Monopolar Head Ø49mm - Cone 12/13
04.04.04.01050	Monopolar Head Ø50mm - Cone 12/13
04.04.04.01051	Monopolar Head Ø51mm - Cone 12/13
04.04.04.01052	Monopolar Head Ø52mm - Cone 12/13
04.04.04.01053	Monopolar Head Ø53mm - Cone 12/13
04.04.04.01054	Monopolar Head Ø54mm - Cone 12/13
04.04.06.01038	Monopolar Head Ø38mm - Cone 12/14
04.04.06.01039	Monopolar Head Ø 39 mm - Cone 12/14
04.04.06.01040	Monopolar Head Ø40mm - Cone 12/14
04.04.06.01041	Monopolar Head Ø 41 mm - Cone 12/14

04.04.06.01042	Monopolar Head Ø42mm - Cone 12/14
04.04.06.01043	Monopolar Head Ø43mm - Cone 12/14
04.04.06.01044	Monopolar Head Ø44mm - Cone 12/14
04.04.06.01045	Monopolar Head Ø45mm - Cone 12/14
04.04.06.01046	Monopolar Head Ø46mm - Cone 12/14
04.04.06.01047	Monopolar Head Ø47mm - Cone 12/14
04.04.06.01048	Monopolar Head Ø48mm - Cone 12/14
04.04.06.01049	Monopolar Head Ø49mm - Cone 12/14
04.04.06.01050	Monopolar Head Ø50mm - Cone 12/14
04.04.06.01051	Monopolar Head Ø 51 mm - Cone 12/14
04.04.06.01052	Monopolar Head Ø52mm - Cone 12/14
04.04.06.01053	Monopolar Head Ø53mm - Cone 12/14
04.04.06.01054	Monopolar Head Ø54mm - Cone 12/14
04.04.07.22001	Interchangeable Femoral Head Cone 12/14 mm Ø 22 mm - Neck - 2 mm
04.04.07.22002	Interchangeable Femoral Head Cone 12/14 mm Ø 22 mm - Neck Standard
04.04.07.22003	Interchangeable Femoral Head Cone 12/14 mm - Ø 22 mm Neck +3mm
04.04.07.26001	Interchangeable Femoral Head Cone 12/14 mm Ø 26 mm - Neck -2mm
04.04.07.26002	Interchangeable Femoral Head Cone 12/14 mm Ø 26 mm - Neck Standard
04.04.07.26003	Interchangeable Femoral Head Cone 12/14 mm Ø 26 mm - Neck +3mm
04.04.07.26004	Interchangeable Femoral Head Cone 12/14 mm Ø 26 mm - Neck - 4 mm
04.04.07.26006	Interchangeable Femoral Head Cone 12/14 mm Ø 26 mm - Neck +6mm
04.04.07.26009	Interchangeable Femoral Head Cone 12/14 mm Ø 26 mm - Neck +9mm
04.04.07.28001	Interchangeable Femoral Head Cone 12/14 mm Ø 28 mm - Neck -2mm
04.04.07.28002	Interchangeable Femoral Head Cone 12/14 mm Ø 28 mm - Neck Standard
04.04.07.28003	Interchangeable Femoral Head Cone 12/14 mm Ø 28 mm - Neck +3mm
04.04.07.28004	Interchangeable Femoral Head Cone 12/14 mm Ø 28 mm - Neck - 4mm
04.04.07.28006	Interchangeable Femoral Head Cone 12/14 mm Ø 28 mm - Neck +6mm
04.04.07.28009	Interchangeable Femoral Head Cone 12/14 mm Ø 28 mm - Neck +9mm

IMPORTANT:

For the Metallic Interchangeable Head implantation needs the use of specific instrumental that can be acquired separately of Cups.

The Instrumental Kit for Metallic Interchangeable Heads implantation is registered by Anvisa under nº 10417940033.

Consult its representative MDT for more information about the instrumental.

The Instrumental Kit for Metallic Interchangeable Heads is consists of the following items:

Code	Description
02.16.03.11250	Femoral Head Extractor
02.16.04.40220	Extractor of Metallic Head
02.14.04.31155	Impactor of Mettalic Head
02.15.11.12300	Conical Initial Milling cutter Ø12MM W/ handle in "T"
02.44.04.00038	Dimensional to Head Ø38MM
02.44.04.00039	Dimensional to Head Ø39MM
02.44.04.00040	Dimensional to Head Ø40MM

02.44.04.00041	Dimensional to Head Ø41MM
02.44.04.00042	DIMENSIONAL TO HEAD Ø42MM
02.44.04.00043	DIMENSIONAL TO HEAD Ø43MM
02.44.04.00044	DIMENSIONAL TO HEAD Ø44MM
02.44.04.00045	DIMENSIONAL TO HEAD Ø45MM
02.44.04.00046	DIMENSIONAL TO HEAD Ø46MM
02.44.04.00047	DIMENSIONAL TO HEAD Ø47MM
02.44.04.00048	DIMENSIONAL TO HEAD Ø48MM
02.44.04.00049	DIMENSIONAL TO HEAD Ø49MM
02.44.04.00050	DIMENSIONAL TO HEAD Ø50MM
02.44.04.00051	DIMENSIONAL TO HEAD Ø51MM
02.44.04.00052	DIMENSIONAL TO HEAD Ø52MM
02.44.04.00053	DIMENSIONAL TO HEAD Ø53MM
02.44.04.00054	DIMENSIONAL TO HEAD Ø54MM
02.18.07.22001	HEAD Probe DIAM.22 SHORT NECK 12/13
02.18.07.22002	HEAD Probe DIAM.22 MEDIUM NECK 12/13
02.18.07.22003	HEAD Probe DIAM.22 LARGE NECK 12/13
02.18.07.26001	HEAD Probe DIAM.26 SHORT NECK 12/13
02.18.07.26002	HEAD Probe DIAM.26 MEDIUM NECK 12/13
02.18.07.26003	HEAD Probe DIAM.26 LARGE NECK 12/13
02.18.07.28001	HEAD Probe DIAM.28 SHORT NECK 12/13
02.18.07.28002	HEAD Probe DIAM.28 MEDIUM NECK 12/13
02.18.07.28003	HEAD Probe DIAM.28 LARGE NECK 12/13

The surgical instruments are subject to wear and tear during the normal use and it can be break. The surgical instruments must be used only for its purpose. All the instruments should be inspected regularly to check possible wear and damage.

The surgical instruments must be purchased separately and always of the same implant manufacturer.

The instrumentals are provided decontaminated, but not sterilized.

Cleaning and Instrumentals Sterilization

When the instruments are used for the first time, they must be removed of their package and cleaning with alcohol for medical ends at 70% + distilled water 30%.

After the cleaning, the products must be rinse with sterile distillate water and dried with cleaning cloth that does not release fibers.

Important

Detergents with free chlorine or sodium hydroxide **should not be used.**

Sterilization

After the surgical use, the instrumentals must be cleaned as above described and sterilized by autoclave. The sterilization does not substitute the cleaning and never will be achieved with dirty material.

Autoclaving is a secure sterilization process, however, if there is no control for the operational parameters, can cause damage at the instrumental:

Humidity + High temperature + Oxygen = Corrosion = Microfissure = Crack = Break

The selected sterilization process must meet, in any case, the standard EN556, which establishes the theoretical probability of presence of microorganism vital to a maximum of 1×10^6 (S.A.L. [Sterility Assurance Level] = 10^{-6}).

For cleaning and sterilization, observe the appropriate procedures. As a suggestion, use the standard ASTM F1744:1996.

The recommended sterilization cycle is:

Method	Cycle	Temperature	Exposition Time
Steam	Pre-Vacuum	132° - 135° C [270° - 275° F]	Minimum 10 minutes

Inspection

1. Inspect if the instrument presents signs of wear and damage in all the handling stages;
2. If any damage is detected, consult the representative of the MDT Indústria Comércio Importação e Exportação de Implantes SA., for guidelines.

Necessary is too, the use of following ancillary to the Metallic Interchangeable Head implant, which must be supplied separately.

In case of Cemented System:

Table – Cemented Cup

Code	Description
04.01.02.26044	Máxima Acetabular Cup STD Ø26x44mm
04.01.02.26046	Máxima Acetabular Cup STD Ø26x46mm
04.01.02.26048	Máxima Acetabular Cup STD Ø26x48mm
04.01.02.26050	Máxima Acetabular Cup STD Ø26x50mm
04.01.02.26052	Máxima Acetabular Cup STD Ø26x52mm
04.01.02.26054	Máxima Acetabular Cup STD Ø26x54mm
04.01.02.26056	Máxima Acetabular Cup STD Ø26x56mm
04.01.02.26058	Máxima Acetabular Cup STD Ø26x58mm
04.01.02.26060	Máxima Acetabular Cup STD Ø26x60mm
04.01.07.22040	CHARNLEY type Cup with Flanged d Ø22x40mm
04.01.07.22043	CHARNLEY type Cup with Flanged d Ø22x43mm
04.01.07.22046	CHARNLEY type Cup with Flanged d Ø22x46mm
04.01.07.22048	CHARNLEY type Cup with Flanged d Ø22x48mm
04.01.07.22050	CHARNLEY type Cup with Flanged d Ø22x50mm
04.01.07.22052	CHARNLEY type Cup with Flanged d Ø 22 x 52 mm
04.01.07.22054	CHARNLEY type Cup with Flanged d Ø 22 x 54 mm
04.01.07.28040	CHARNLEY type Cup with Flanged d Ø28x40mm
04.01.07.28043	CHARNLEY type Cup with Flanged d Ø28x43mm
04.01.07.28048	CHARNLEY type Cup with Flanged d Ø28x48mm
04.01.08.22040	CHARNLEY type Cup with Rim Ø22x40mm

04.01.08.22043	CHARNLEY type Cup with Rim Ø22x43mm
04.01.08.22044	CHARNLEY type Cup with Rim Ø22x44mm
04.01.08.22046	CHARNLEY type Cup with Rim Ø22x46mm
04.01.08.22048	CHARNLEY type Cup with Rim Ø22x48mm
04.01.08.22050	CHARNLEY type Cup with Rim Ø22x50mm
04.01.08.22052	CHARNLEY type Cup with Rim Ø22x52mm
04.01.08.22054	CHARNLEY type Cup with Rim Ø22x54mm
04.01.08.22056	CHARNLEY type Cup with Rim Ø22x56mm
04.01.08.28040	CHARNLEY type Cup with Rim Ø28x40mm
04.01.08.28043	CHARNLEY type Cup with Rim Ø28x43mm
04.01.08.28048	CHARNLEY type Cup with Rim Ø28x48mm
04.01.09.22040	CHARNLEY type Cup Standard Ø22x40mm
04.01.09.22043	CHARNLEY type Cup Standard Ø22x43mm
04.01.09.22046	CHARNLEY type Cup Standard Ø22x46mm
04.01.09.22048	CHARNLEY type Cup Standard Ø22x48mm
04.01.09.22050	CHARNLEY type Cup Standard Ø22x50mm
04.01.09.22052	CHARNLEY type Cup Standard Ø22x52mm
04.01.09.22054	CHARNLEY type Cup Standard Ø 22 x 54 mm
04.01.09.22056	CHARNLEY type Cup Standard Ø22x56mm
04.01.09.28043	CHARNLEY type Cup Standard Ø28x43mm
04.01.09.28046	CHARNLEY type Cup Standard Ø28x46mm
04.01.10.28044	MULLER type Cup with Rim Ø28x44mm
04.01.10.28046	MULLER type Cup with Rim Ø28x46mm
04.01.10.28048	MULLER type Cup with Rim Ø28x48mm
04.01.10.28050	MULLER type Cup with Rim Ø28x50mm
04.01.10.28052	MULLER type Cup with Rim Ø28x52mm
04.01.10.28054	MULLER type Cup with Rim Ø28x54mm
04.01.10.28056	MULLER type Cup with Rim Ø28x56mm
04.01.10.28058	MULLER type Cup with Rim Ø 28 x 58 mm
04.01.10.28060	MULLER type Cup with Rim Ø 28 x 60 mm
04.01.10.32050	MULLER type Cup with Rim Ø 32x50 mm
04.01.11.26044	MULLER type Cup STD Ø26x44mm
04.01.11.26046	MULLER type Cup STD Ø26x46mm
04.01.11.26048	MULLER type Cup STD Ø26x48mm
04.01.11.26050	MULLER type Cup STD Ø26x50mm
04.01.11.26052	MULLER type Cup STD Ø26x52mm
04.01.11.26054	MULLER type Cup STD Ø26x54mm
04.01.11.26056	MULLER type Cup STD Ø26x56mm
04.01.11.26058	MULLER type Cup STD Ø26x58mm
04.01.11.28044	MULLER type Cup STD Ø28x44mm
04.01.11.28046	MULLER type Cup STD Ø28x46mm
04.01.11.28048	MULLER type Cup STD Ø28x48mm
04.01.11.28050	MULLER type Cup STD Ø28x50mm
04.01.11.28052	MULLER type Cup STD Ø28x52mm
04.01.11.28054	MULLER type Cup STD Ø28x54mm
04.01.11.28056	MULLER type Cup STD Ø28x56mm
04.01.11.28058	MULLER type Cup STD Ø28x58mm
04.01.11.28060	MULLER type Cup STD Ø28x60mm
04.01.11.32048	MULLER type Cup STD Ø 32x48mm

04.01.11.32050	MULLER type Cup STD Ø 32x50mm
04.01.11.32054	MULLER type Cup STD Ø 32x54mm
04.01.12.22042	SPOAC Cup STD Ø 22 x 42 mm
04.01.12.22044	SPOAC Cup STD Ø22x44mm
04.01.12.22046	SPOAC Cup STD Ø22x46mm
04.01.12.28048	SPOAC Cup STD Ø 28 x 48 mm
04.01.12.28050	SPOAC Cup STD Ø28x50mm
04.01.12.28052	SPOAC Cup STD Ø28x52mm
04.01.13.22042	SPOAC Cup Ø22x42mm - w/ PMMA
04.01.13.22044	SPOAC Cup Ø22x44mm - w/ PMMA
04.01.13.22046	SPOAC Cup Ø22x46mm - w/ PMMA
04.01.13.26042	SPOAC Cup Ø26x42mm - w/ PMMA
04.01.13.26044	SPOAC Cup Ø26x44mm - w/ PMMA
04.01.13.26046	SPOAC Cup Ø26x46mm - w/ PMMA
04.01.13.26048	SPOAC Cup Ø26x48mm - w/ PMMA
04.01.13.26050	SPOAC Cup Ø26x50mm - w/ PMMA
04.01.13.26052	SPOAC Cup Ø26x52mm - w/ PMMA
04.01.13.28048	SPOAC Cup Ø28x48mm - w/ PMMA
04.01.13.28050	SPOAC Cup Ø28x50mm - w/ PMMA
04.01.13.28052	SPOAC Cup Ø28x52mm - w/ PMMA
04.01.13.28054	SPOAC Cup Ø28x54mm - w/ PMMA
04.01.13.28056	SPOAC Cup Ø28x56mm - w/ PMMA
04.01.13.28058	SPOAC Cup Ø28x58mm - w/ PMMA
04.01.13.28060	SPOAC Cup Ø28x60mm - w/ PMMA
04.01.13.28062	SPOAC Cup Ø28x62mm - w/ PMMA
04.01.14.22040	CHARNLEY type Cup with Flanged d Ø22x40mm - w/ PMMA
04.01.14.22043	CHARNLEY type Cup with Flanged d Ø22x43mm - w/ PMMA
04.01.14.22044	CHARNLEY type Cup with Flanged d Ø22x44mm - w/ PMMA
04.01.14.22046	CHARNLEY type Cup with Flanged d Ø22x46mm - w/ PMMA
04.01.14.22048	CHARNLEY type Cup with Flanged d Ø22x48mm - w/ PMMA
04.01.14.28050	CHARNLEY type Cup with Flanged d Ø28x50mm - w/ PMMA
04.01.14.28052	CHARNLEY type Cup with Flanged d Ø28x52mm - w/ PMMA
04.01.14.28054	CHARNLEY type Cup with Flanged d Ø28x54mm - w/ PMMA
04.01.14.28056	CHARNLEY type Cup with Flanged d Ø28x56mm - w/ PMMA
04.01.14.28058	CHARNLEY type Cup with Flanged d Ø28x58mm - w/ PMMA
04.01.14.28060	CHARNLEY type Cup with Flanged d Ø28x60mm - w/ PMMA
04.01.14.28062	CHARNLEY type Cup with Flanged d Ø28x62mm - w/ PMMA
04.01.15.22040	CHARNLEY type Cup with Rim Ø22x40mm - w/ PMMA
04.01.15.22043	CHARNLEY type Cup with Rim Ø22x43 mm - w/ PMMA
04.01.15.22046	CHARNLEY type Cup with Rim Ø22x46mm - w/ PMMA
04.01.15.22048	CHARNLEY type Cup with Rim Ø22x48 mm - w/ PMMA
04.01.16.22040	CHARNLEY type Cup STD Ø22x40mm - w/ PMMA
04.01.16.22043	CHARNLEY type Cup STD Ø22x43mm - w/ PMMA
04.01.16.22046	CHARNLEY type Cup STD Ø22x46mm - w/ PMMA
04.01.16.22048	CHARNLEY type Cup STD Ø22x48mm - w/ PMMA
04.01.17.28044	MULLER type Cup with Rim Ø28x44mm - w/ PMMA
04.01.17.28046	MULLER type Cup with Rim Ø28x46mm - w/ PMMA
04.01.17.28048	MULLER type Cup with Rim Ø28x48mm - w/ PMMA
04.01.17.28050	MULLER type Cup with Rim Ø28x50mm - w/ PMMA

04.01.17.28052	MULLER type Cup with Rim Ø28x52mm - w/ PMMA
04.01.17.28054	MULLER type Cup with Rim Ø28x54mm - w/ PMMA
04.01.17.28056	MULLER type Cup with Rim Ø28x56mm - w/ PMMA
04.01.17.28058	MULLER type Cup with Rim Ø28x58mm - w/ PMMA
04.01.17.28060	MULLER type Cup with Rim Ø28x60mm - w/ PMMA
04.01.17.28062	MULLER type Cup with Rim Ø28x62mm - w/ PMMA
04.01.18.28044	MULLER type Cup STD Ø28x44mm - w/ PMMA
04.01.18.28046	MULLER type Cup STD Ø28x46mm - w/ PMMA
04.01.18.28048	MULLER type Cup STD Ø28x48 mm - w/ PMMA
04.01.18.28050	MULLER type Cup STD Ø28x50mm - w/ PMMA
04.01.18.28052	MULLER type Cup STD Ø28x52mm - w/ PMMA
04.01.18.28054	MULLER type Cup STD Ø28x54mm - w/ PMMA
04.01.18.28056	MULLER type Cup STD Ø28x56mm - w/ PMMA
04.01.18.28058	MULLER type Cup STD Ø28x58mm - w/ PMMA
04.01.18.28060	MULLER type Cup STD Ø28x60mm - w/ PMMA
04.01.21.22044	MULLER type Cup with Lock Ø22x44mm
04.01.21.22046	MULLER type Cup with Lock Ø22x46mm
04.01.21.22048	MULLER type Cup with Lock Ø22x48mm
04.01.21.22050	MULLER type Cup with Lock Ø22x50mm
04.01.21.22052	MULLER type Cup with Lock Ø22x52mm
04.01.21.22054	MULLER type Cup with Lock Ø22x54mm
04.01.21.22056	MULLER type Cup with Lock Ø22x56mm
04.01.21.22060	MULLER type Cup with Lock Ø22x60mm
04.01.21.28044	MULLER type Cup with Lock Ø 28 x 44 mm
04.01.21.28046	MULLER type Cup with Lock Ø 28 x 46 mm
04.01.21.28048	MULLER type Cup with Lock Ø 28 x 48 mm
04.01.21.28050	MULLER type Cup with Lock Ø 28 x 50 mm
04.01.21.28052	MULLER type Cup with Lock Ø 28 x 52 mm
04.01.21.28054	MULLER type Cup with Lock Ø 28 x 54 mm
04.01.23.26044	Máxima Acetabular Cup STD Ø26x44mm - w/ PMMA
04.01.23.26048	Máxima Acetabular Cup STD Ø26x48mm - w/ PMMA
04.01.23.26052	Máxima Acetabular Cup STD Ø26x52mm - w/ PMMA
04.01.23.26056	Máxima Acetabular Cup STD Ø26x56mm - w/ PMMA

Table – Cemented Nail in Steel Stainless

CODE	DESCRIPTION
04.30.01.37001	Máxima Femoral Prosthesis 37,5 mm Cone 12/13 Primary N°1
04.30.01.37002	Máxima Femoral Prosthesis 37,5 mm Cone 12/13 Primary n°2
04.30.01.37003	Máxima Femoral Prosthesis 37,5 mm Cone 12/13 Primary n°3
04.30.02.37001	Máxima Femoral Prosthesis 37,5 mm Cone 12/14 Primary n°1
04.30.02.37002	Máxima Femoral Prosthesis 37,5 mm Cone 12/14 Primary n°2
04.30.02.37003	Máxima Femoral Prosthesis 37,5 mm Cone 12/14 Primary N°3
04.30.03.44001	Máxima Femoral Prosthesis 44,0 mm Cone 12/13 Primary n°1
04.30.03.44002	Máxima Femoral Prosthesis 44,0 mm Cone 12/13 Primary n°2
04.30.03.44003	Máxima Femoral Prosthesis 44,0 mm Cone 12/13 Primary n°3
04.30.03.44004	Máxima Femoral Prosthesis 44,0 mm Cone 12/13 Primary N° 4
04.30.04.44001	Máxima Femoral Prosthesis 44,0 mm Cone 12/13 Revision N° 1

04.30.04.44002	Máxima Femoral Prosthesis 44,0 mm Cone 12/13 Revision n°2
04.30.04.44003	Máxima Femoral Prosthesis 44,0 mm Cone 12/13 Revision n°3
04.30.04.44251	Máxima Femoral Prosthesis 44, 0 x 250mm Cone 12/13- Revision n° 1
04.30.04.44253	Máxima Femoral Prosthesis 44,0x250mm - Cone 12/13 - Revision n° 3
04.30.04.44301	Máxima Femoral Prosthesis 44, 0 x 300mm Cone 12/13 - Revision n° 1
04.30.05.44001	Máxima Femoral Prosthesis 44,0 mm Cone 12/14 Primary n° 1
04.30.05.44002	Máxima Femoral Prosthesis 44,0 mm Cone 12/14 Primary n° 2
04.30.05.44003	Máxima Femoral Prosthesis 44,0 mm Cone 12/14 Primary n° 3
04.30.05.44004	Máxima Femoral Prosthesis 44,0 mm Cone 12/14 Primary N° 4
04.30.06.44001	Máxima Femoral Prosthesis 44,0 mm Cone 12/14 Revision N° 1
04.30.06.44002	Máxima Femoral Prosthesis 44,0 mm Cone 12/14 Revision N° 2
04.30.06.44003	Máxima Femoral Prosthesis 44,0 mm Cone 12/14 Revision N° 3
04.30.06.44231	Máxima Femoral Prosthesis 44,0 x 230 mm Cone 12/14 Revision N° 1
04.30.06.44232	Máxima Femoral Prosthesis 44,0 x 230 mm Cone 12/14 Revision N° 2
04.30.06.44233	Máxima Femoral Prosthesis 44,0 x 230 mm Cone 12/14 Revision N° 3
04.30.13.09117	MD4 Femoral Prosthesis without coating Cone 10/11 - Primary 09 x 117 mm
04.30.13.10122	MD4 Femoral Prosthesis without coating Cone 10/11 Primary 10 x 122
04.30.13.11127	MD4 Femoral Prosthesis without coating Cone 10/11 Primary 11 x 127
04.30.13.12132	MD4 Femoral Prosthesis without coating Cone 10/11 Primary 12 x 132
04.30.13.13137	MD4 Femoral Prosthesis without coating Cone 10/11 Primary 13 x 137
04.30.13.14142	MD4 Femoral Prosthesis without coating Cone 10/11 Primary 14 x 142
04.30.13.15147	MD4 Femoral Prosthesis without coating Cone 10/11 Primary 15 x 147
04.30.13.16152	MD4 Femoral Prosthesis without coating Cone 10/11 - Primary 16 x 152 mm
04.30.13.17157	MD4 Femoral Prosthesis without coating Cone 10/11 Primary 17 x 157
04.30.14.10170	MD4 Femoral Prosthesis without coating Cone 10/11 - Revision 10 x 170 mm
04.30.14.11180	MD4 Femoral Prosthesis without coating Cone 10/11 - Revision 11 x 180 mm
04.30.14.12190	MD4 Femoral Prosthesis without coating Cone 10/11 - Revision 12 x 190 mm
04.30.14.13200	MD4 Femoral Prosthesis without coating Cone 10/11 - Revision 13 x 200 mm
04.30.14.14210	MD4 Femoral Prosthesis without coating Cone 10/11 - Revision 14 x 260 mm
04.30.14.14260	MD4 Femoral Prosthesis without coating Cone 10/11 - Revision 14 x 260 mm
04.30.14.15220	MD4 Femoral Prosthesis without coating Cone 10/11 - Revision 15 x 220 mm
04.30.14.16230	MD4 Femoral Prosthesis without coating Cone 10/11 - Revision 16 x 230 mm
04.30.14.17240	MD4 Femoral Prosthesis without coating Cone 10/11 - Primary Rev 17 x 240 mm
04.30.15.09117	MD4 Femoral Prosthesis without coating Cone 12/14 - Primary 9 x 117 mm
04.30.15.10122	MD4 Femoral Prosthesis without coating Cone 12/14 - Primary 10 x 122 mm
04.30.15.10157	MD4 Femoral Prosthesis without coating Cone 12/14 - Primary 10x157 mm
04.30.15.11127	MD4 Femoral Prosthesis without coating Cone 12/14 - Primary 11 x 127 mm
04.30.15.12132	MD4 Femoral Prosthesis without coating Cone 12/14 - Primary 12 x 132 mm
04.30.15.12157	MD4 Femoral Prosthesis without coating Cone 12/14 - Primary 12x157 mm
04.30.15.13137	MD4 Femoral Prosthesis without coating Cone 12/14 - Primary 13 x 137 mm
04.30.15.14142	MD4 Femoral Prosthesis without coating Cone 12/14 - Primary 14 x 142 mm
04.30.15.14157	MD4 Femoral Prosthesis without coating Cone 12/14 - Primary 14x157 mm
04.30.15.15147	MD4 Femoral Prosthesis without coating Cone 12/14 - Primary 15 x 147 mm
04.30.15.16152	MD4 Femoral Prosthesis without coating Cone 12/14 - Primary 16 x 152 mm
04.30.15.17157	MD4 Femoral Prosthesis without coating Cone 12/14 - Primary 17 x 157 mm
04.30.16.10170	MD4 Femoral Prosthesis without coating Cone 12/14 - Revision 10 x 170 mm
04.30.16.11180	MD4 Femoral Prosthesis without coating Cone 12/14 - Revision 11 x 180 mm

04.30.16.12190	MD4 Femoral Prosthesis without coating Cone 12/14 - Revision 12 x 190 mm
04.30.16.12200	MD4 Femoral Prosthesis without coating Cone 12/14 - Revision 12x200mm
04.30.16.12240	MD4 Femoral Prosthesis without coating Cone 12/14 - Revision 12x240mm
04.30.16.12300	MD4 Femoral Prosthesis without coating Cone 12/14 - Revision 12x300mm
04.30.16.13200	MD4 Femoral Prosthesis without coating Cone 12/14 - Revision 13 x 200 mm
04.30.16.14200	MD4 Femoral Prosthesis without coating Cone 12/14 - Revision 14x200mm
04.30.16.14210	MD4 Femoral Prosthesis without coating Cone 12/14 - Revision 14 x 210 mm
04.30.16.14240	MD4 Femoral Prosthesis without coating Cone 12/14 - Revision 14x240mm
04.30.16.14300	MD4 Femoral Prosthesis without coating Cone 12/14 - Revision 14x300mm
04.30.16.15220	MD4 Femoral Prosthesis without coating Cone 12/14 - Revision 15 x 220 mm
04.30.16.16200	MD4 Femoral Prosthesis without coating Cone 12/14 - Revision 16x200 mm
04.30.16.16230	MD4 Femoral Prosthesis without coating Cone 12/14 - Revision 16 x 230 mm
04.30.16.16240	MD4 Femoral Prosthesis without coating Cone 12/14 - Revision 16x240mm
04.30.16.16300	MD4 Femoral Prosthesis without coating Cone 12/14 - Revision 16x300mm
04.30.16.17240	MD4 Femoral Prosthesis without coating Cone 12/14 - Revision 17 x 240 mm
04.30.17.05130	SPOAC Femoral Stem Cone 10/11 05 x 130 mm
04.30.17.06135	SPOAC Femoral Stem Cone 10/11 06 x 135 mm
04.30.17.07140	SPOAC Femoral Stem Cone 10/11 07 x 140 mm
04.30.17.08145	SPOAC Femoral Stem Cone 10/11 08 x 145 mm
04.30.17.09150	SPOAC Femoral Stem Cone 10/11 09 x 150 mm
04.30.17.10155	SPOAC Femoral Stem Cone 10/11 10 x 155 mm
04.30.18.05130	SPOAC Femoral Stem Cone 12/14 05 x 130 mm
04.30.18.06135	SPOAC Femoral Stem Cone 12/14 06 x 135 mm
04.30.18.07140	SPOAC Femoral Stem Cone 12/14 07 x 140 mm
04.30.18.08145	SPOAC Femoral Stem Cone 12/14 08 x 145 mm
04.30.18.09150	SPOAC Femoral Stem Cone 12/14 09 x 150 mm
04.30.18.10155	SPOAC Femoral Stem Cone 12/14 10 x 155 mm
04.30.20.00112	CHARNLEY type Femoral Stem Modular Cone 12/13 Primary Narrow 35
04.30.20.01112	CHARNLEY type Femoral Stem Modular Cone 12/13 Primary Narrow 40
04.30.20.02112	CHARNLEY type Femoral Stem Modular c.12/13 Primary Standard 35
04.30.20.03112	CHARNLEY type Femoral Stem Modular c.12/13 Primary Standard 40
04.30.20.04112	CHARNLEY type Femoral Stem Modular Cone 12/13 Primary w/ Flanged
04.30.20.05112	CHARNLEY type Femoral Stem Modular 12/13 Primary Extra Enhanced
04.30.20.06112	CHARNLEY type Femoral Stem Modular 12/13 Primary Neck 10 mm
04.30.20.07112	CHARNLEY type Femoral Stem Modular 12/13 Primary Neck 20 mm
04.30.21.00000	CHARNLEY type Femoral Stem Modular 12/13 Revision Narrow 35
04.30.21.01000	CHARNLEY type Femoral Stem Modular 12/13 Revision 200mm Narrow 40
04.30.21.02000	CHARNLEY type Femoral Stem Modular 12/13 Revision Std 35
04.30.21.03000	CHARNLEY type Femoral Stem Modular 12/13 Revision Standard 40
04.30.21.04000	CHARNLEY type Femoral Stem Modular 12/13 Revision 200mm w/ Flanged
04.30.21.04060	CHARNLEY type Femoral Stem Modular 12/13 Revision w/ Flanged +60
04.30.21.04090	CHARNLEY type Femoral Stem Modular 12/13 Revision W/ Flanged +90
04.30.21.05000	CHARNLEY type Femoral Stem Modular 12/13 Revision Extra Enhanced
04.30.21.06000	CHARNLEY type Femoral Stem Modular 12/13 Revision Neck 10 mm
04.30.21.07000	CHARNLEY type Femoral Stem Modular 12/13 Revision Neck 20 mm
04.30.22.00112	CHARNLEY type Femoral Stem Modular 12/14 Primary Narrow 35
04.30.22.01112	CHARNLEY type Femoral Stem Modular 12/14 Prim Narrow 40

04.30.22.02112	CHARNLEY type Femoral Stem Modular 12/14 Primary Standard 35
04.30.22.03112	CHARNLEY type Femoral Stem Modular 12/14 Primary Standard 40
04.30.22.04112	CHARNLEY type Femoral Stem Modular 12/14 Primary w/ Flanged
04.30.22.05112	CHARNLEY type Femoral Stem Modular 12/14 Primary Extra Enhanced
04.30.22.06112	CHARNLEY type Femoral Stem Modular 12/14 Primary Neck 10
04.30.22.07112	CHARNLEY type Femoral Stem Modular 12/14 Primary Neck 20
04.30.23.00000	CHARNLEY type Femoral Stem Modular 12/14 Revision Narrow 35
04.30.23.01000	CHARNLEY type Femoral Stem Modular 12/14 Revision Narrow 40
04.30.23.02000	CHARNLEY type Femoral Stem Modular 12/14 Revision Standard 35
04.30.23.03000	CHARNLEY type Femoral Stem Modular 12/14 Revision Standard 40
04.30.23.04000	CHARNLEY type Femoral Stem Modular 12/14 Revision W/ Flanged
04.30.23.05000	CHARNLEY type Femoral Stem Modular 12/14 Revision Extra Enhanced
04.30.23.06000	CHARNLEY type Femoral Stem Modular 12/14 Revision Neck 10 mm
04.30.23.07000	CHARNLEY type Femoral Stem Modular 12/14 Revision Neck 20 mm
04.30.28.00055	MULLER Stem Cone 12/13 5,5 mm Primary
04.30.28.00075	MULLER Stem Cone 12/13 7,5 mm Primary
04.30.28.00100	MULLER Stem Cone 12/13 10,0 mm Primary
04.30.28.00125	MULLER Stem Cone 12/13 12,5 mm Primary
04.30.28.00150	MULLER Stem Cone 12/13 15,0 mm Primary
04.30.28.00175	MULLER Stem Cone 12/13 17,5 mm Primary
04.30.28.00200	MULLER Stem Cone 12/13 20,0 mm Primary
04.30.29.00055	MULLER type Femoral Stem Modular Cone 12/13 Revision 5,5mm
04.30.29.00075	MULLER type Femoral Stem Modular Cone 12/13 Revision 75 mm
04.30.29.00100	MULLER type Femoral Stem Modular Cone 12/13 Revision 10,0 mm
04.30.29.00125	MULLER type Femoral Stem Modular Cone 12/13 Revision 12,5 mm
04.30.29.00150	MULLER type Femoral Stem Modular Cone 12/13 Revision 15,0 mm
04.30.29.00175	MULLER type Femoral Stem Modular Cone 12/13 Revision 17,5 mm
04.30.29.00200	MULLER type Femoral Stem Modular Cone 12/13 Revision 20,0 mm
04.30.30.00055	MULLER type Femoral Stem Modular Cone12/14 Primary 5,5 mm
04.30.30.00075	MULLER type Femoral Stem Modular Cone12/14 Primary 7,5 mm
04.30.30.00100	MULLER type Femoral Stem Modular Cone12/14 Primary10,0 mm
04.30.30.00125	MULLER type Femoral Stem Modular Cone12/14 Primary 12,5 mm
04.30.30.00150	MULLER type Femoral Stem Modular Cone12/14 Primary 15,0 mm
04.30.30.00175	MULLER type Femoral Stem Modular Cone12/14 Primary 17,5 mm
04.30.30.00200	MULLER type Femoral Stem Modular Cone12/14 Primary 20,0 mm
04.30.31.00075	MULLER type Femoral Stem Modular Cone 12/14 Revision 7,5 mm
04.30.31.00100	MULLER type Femoral Stem Modular Cone 12/14 Revision 10 mm
04.30.31.00125	MULLER type Femoral Stem Modular Cone 12/14 Revision 12,5 mm
04.30.31.00150	MULLER type Femoral Stem Modular Cone 12/14 Revision 15,0 mm
04.30.31.00175	MULLER type Femoral Stem Modular Cone 12/14 Revision 17,5 mm
04.30.31.00200	MULLER type Femoral Stem Modular Cone 12/14 Revision 20 mm
04.30.37.00000	THOMPSON type Femoral Stem Modular Cone 12/13
04.30.37.00001	THOMPSON type Femoral Stem Modular Cone 12/14
04.30.41.00112	CHARNLEY type Femoral Stem Modular Cone 10/11 Primary Narrow 35
04.30.41.01112	CHARNLEY type Femoral Stem Modular Cone 10/11 Primary Narrow 40
04.30.41.02112	CHARNLEY type Femoral Stem Modular Cone 10/11 Primary STD 35
04.30.41.03112	CHARNLEY type Femoral Stem Modular Cone 10/11 Primary STD 40

04.30.41.04112	CHARNLEY type Femoral Stem Modular Cone 10/11 Primary w/ Flanged
04.30.41.05112	CHARNLEY type Femoral Stem Modular Cone 10/11 Primary Extra Enhanced
04.30.41.06112	CHARNLEY type Femoral Stem Modular Cone 10/11 Primary Neck 10mm
04.30.41.07112	CHARNLEY type Femoral Stem Modular Cone 10/11 Primary Neck 20mm
04.30.42.00055	MULLER type Femoral Stem Modular Cone 10/11 Primary 5,5mm
04.30.42.00075	MULLER type Femoral Stem Modular Cone 10/11 Primary 7,5mm
04.30.42.00100	MULLER type Femoral Stem Modular Cone 10/11 Primary 10,0mm
04.30.42.00125	MULLER type Femoral Stem Modular Cone 10/11 Primary 12,5mm
04.30.42.00150	MULLER type Femoral Stem Modular Cone 10/11 Primary 15,0mm
04.30.42.00175	MULLER type Femoral Stem Modular Cone 10/11 Primary 17,5mm
04.30.42.00200	MULLER type Femoral Stem Modular Cone 10/11 Primary 20,0mm

The Cemented Nail in Steel Stainless is registered by Anvisa under nº 10417940039

Table – Cemented Nail Cobalt Chrome

CODE	DESCRIPTION	SIZE
04.30.01	Cemented Femoral Nail 12/13	37,5 mm - 01
		37,5 mm - 02
		37,5 mm - 03
04.30.02	Cemented Femoral Nail 12/14	37,5 mm - 01
		37,5 mm - 02
		37,5 mm - 03
04.30.03	Cemented Femoral Nail 12/13	44,0 mm - 01
		44,0 mm - 02
		44,0 mm - 03
		44,0 mm - 04
04.30.05	Cemented Femoral Nail 12/14	44,0 mm - 01
		44,0 mm - 02
		44,0 mm - 03
		44,0 mm - 04
04.30.04	Cemented Femoral Nail Revision 12/13	44,0 mm - 01
		44,0 mm - 02
		44,0 mm - 03
		44,0 mm - 04
04.30.06	Cemented Femoral Nail Revision 12/14	44,0 mm - 01
		44,0 mm - 02
		44,0 mm - 03
		44,0 mm - 04

The Cemented Nail Cobalt Chrome is registered by Anvisa under nº 10417940023

In case of Non Cemented System:

Table – Acetabular Insert

CODE	DESCRIPTION
04.13.01.22042	Acetabular Insert Lateral Locking Ø22 x 42 mm
04.13.01.22044	Acetabular Insert Lateral Locking Ø22 x 44 mm
04.13.01.22046	Acetabular Insert Lateral Locking Ø22 x 46 mm

04.13.01.22048	Acetabular Insert Lateral Locking Ø22 x 48 mm
04.13.01.22050	Acetabular Insert Lateral Locking Ø22 x 50 mm
04.13.01.22052	Acetabular Insert Lateral Locking Ø22 x 52 mm
04.13.01.22054	Acetabular Insert Lateral Locking Ø22 x 54 mm
04.13.01.22056	Acetabular Insert Lateral Locking Ø22 x 56 mm
04.13.01.22058	Acetabular Insert Lateral Locking Ø22 x 58 mm
04.13.01.22060	Acetabular Insert Lateral Locking Ø22 x 60 mm
04.13.01.22062	Acetabular Insert Lateral Locking Ø22 x 62 mm
04.13.01.22064	Acetabular Insert Lateral Locking Ø22 x 64 mm
04.13.01.22066	Acetabular Insert Lateral Locking Ø22 x 66 mm
04.13.01.22068	Acetabular Insert Lateral Locking Ø22 x 68 mm
04.13.01.22070	Acetabular Insert Lateral Locking Ø22 x 70 mm
04.13.01.26044	Acetabular Insert Lateral Locking Ø26 x 44 mm
04.13.01.26046	Acetabular Insert Lateral Locking Ø26 x 46 mm
04.13.01.26048	Acetabular Insert Lateral Locking Ø26 x 48 mm
04.13.01.26050	Acetabular Insert Lateral Locking Ø26 x 50 mm
04.13.01.26052	Acetabular Insert Lateral Locking Ø26 x 52 mm
04.13.01.26054	Acetabular Insert Lateral Locking Ø26 x 54 mm
04.13.01.26056	Acetabular Insert Lateral Locking Ø26 x 56 mm
04.13.01.26058	Acetabular Insert Lateral Locking Ø26 x 58 mm
04.13.01.26060	Acetabular Insert Lateral Locking Ø26 x 60 mm
04.13.01.26062	Acetabular Insert Lateral Locking Ø26 x 62 mm
04.13.01.26064	Acetabular Insert Lateral Locking Ø26 x 64 mm
04.13.01.26066	Acetabular Insert Lateral Locking Ø26 x 66 mm
04.13.01.26068	Acetabular Insert Lateral Locking Ø26 x 68 mm
04.13.01.26070	Acetabular Insert Lateral Locking Ø26 x 70 mm
04.13.01.28044	Acetabular Insert Lateral Locking Ø28 x 44 mm
04.13.01.28046	Acetabular Insert Lateral Locking Ø28 x 46 mm
04.13.01.28048	Acetabular Insert Lateral Locking Ø28 x 48 mm
04.13.01.28050	Acetabular Insert Lateral Locking Ø28 x 50 mm
04.13.01.28052	Acetabular Insert Lateral Locking Ø28 x 52 mm
04.13.01.28054	Acetabular Insert Lateral Locking Ø28 x 54 mm
04.13.01.28056	Acetabular Insert Lateral Locking Ø28 x 56 mm
04.13.01.28058	Acetabular Insert Lateral Locking Ø28 x 58 mm
04.13.01.28060	Acetabular Insert Lateral Locking Ø28 x 60 mm
04.13.01.28062	Acetabular Insert Lateral Locking Ø28 x 62 mm
04.13.01.28064	Acetabular Insert Lateral Locking Ø28 x 64 mm
04.13.01.28066	Acetabular Insert Lateral Locking Ø28 x 66 mm
04.13.01.28066	Acetabular Insert Lateral Locking Ø28 x 68 mm
04.13.01.28070	Acetabular Insert Lateral Locking Ø28 x 70 mm
04.13.01.32044	Acetabular Insert Lateral Locking Ø32 x 44 mm
04.13.01.32046	Acetabular Insert Lateral Locking Ø32 x 46 mm
04.13.01.32048	Acetabular Insert Lateral Locking Ø32 x 48 mm
04.13.01.32050	Acetabular Insert Lateral Locking Ø32 x 50 mm
04.13.01.32052	Acetabular Insert Lateral Locking Ø32 x 52 mm
04.13.01.32054	Acetabular Insert Lateral Locking Ø32 x 54 mm
04.13.01.32056	Acetabular Insert Lateral Locking Ø32 x 56 mm
04.13.01.32058	Acetabular Insert Lateral Locking Ø32 x 58 mm
04.13.01.32060	Acetabular Insert Lateral Locking Ø32 x 60 mm

04.13.01.32062	Acetabular Insert Lateral Locking Ø32 x 62 mm
04.13.01.32064	Acetabular Insert Lateral Locking Ø32 x 64 mm
04.13.01.32066	Acetabular Insert Lateral Locking Ø32 x 66 mm
04.13.01.32068	Acetabular Insert Lateral Locking Ø32 x 68 mm
04.13.01.32070	Acetabular Insert Lateral Locking Ø32 x 70 mm
04.13.02.22042	Acetabular Insert 09 Points Ø22 x 42 mm
04.13.02.22044	Acetabular Insert 09 Points Ø22 x 44 mm
04.13.02.22046	Acetabular Insert 09 Points Ø22 x 46 mm
04.13.02.22048	Acetabular Insert 09 Points Ø22 x 48 mm
04.13.02.22050	Acetabular Insert 09 Points Ø22 x 50 mm
04.13.02.22052	Acetabular Insert 09 Points Ø22 x 52 mm
04.13.02.22054	Acetabular Insert 09 Points Ø22 x 54 mm
04.13.02.22056	Acetabular Insert 09 Points Ø22 x 56 mm
04.13.02.22058	Acetabular Insert 09 Points Ø22 x 58 mm
04.13.02.22060	Acetabular Insert 09 Points Ø22 x 60 mm
04.13.02.22062	Acetabular Insert 09 Points Ø22 x 62 mm
04.13.02.22064	Acetabular Insert 09 Points Ø22 x 64 mm
04.13.02.22066	Acetabular Insert 09 Points Ø22 x 66 mm
04.13.02.22068	Acetabular Insert 09 Points Ø22 x 68 mm
04.13.02.22070	Acetabular Insert 09 Points Ø22 x 70 mm
04.13.02.26042	Acetabular Insert 09 Points Ø26 x 42 mm
04.13.02.26044	Acetabular Insert 09 Points Ø26 x 44 mm
04.13.02.26046	Acetabular Insert 09 Points Ø26 x 46 mm
04.13.02.26048	Acetabular Insert 09 Points Ø26 x 48 mm
04.13.02.26050	Acetabular Insert 09 Points Ø26 x 50 mm
04.13.02.26052	Acetabular Insert 09 Points Ø26 x 52 mm
04.13.02.26054	Acetabular Insert 09 Points Ø26 x 54 mm
04.13.02.26056	Acetabular Insert 09 Points Ø26 x 56 mm
04.13.02.26058	Acetabular Insert 09 Points Ø26 x 58 mm
04.13.02.26060	Acetabular Insert 09 Points Ø26 x 60 mm
04.13.02.26062	Acetabular Insert 09 Points Ø26 x 62 mm
04.13.02.26064	Acetabular Insert 09 Points Ø26 x 64 mm
04.13.02.26066	Acetabular Insert 09 Points Ø26 x 66 mm
04.13.02.26068	Acetabular Insert 09 Points Ø26 x 68 mm
04.13.02.26070	Acetabular Insert 09 Points Ø26 x 70 mm
04.13.02.28042	Acetabular Insert 09 Points Ø28 x 42 mm
04.13.02.28044	Acetabular Insert 09 Points Ø28 x 44 mm
04.13.02.28046	Acetabular Insert 09 Points Ø28 x 46 mm
04.13.02.28048	Acetabular Insert 09 Points Ø28 x 48 mm
04.13.02.28050	Acetabular Insert 09 Points Ø28 x 50 mm
04.13.02.28052	Acetabular Insert 09 Points Ø28 x 52 mm
04.13.02.28054	Acetabular Insert 09 Points Ø28 x 54 mm
04.13.02.28056	Acetabular Insert 09 Points Ø28 x 56 mm
04.13.02.28058	Acetabular Insert 09 Points Ø28 x 58 mm
04.13.02.28060	Acetabular Insert 09 Points Ø28 x 60 mm
04.13.02.28062	Acetabular Insert 09 Points Ø28 x 62 mm
04.13.02.28064	Acetabular Insert 09 Points Ø28 x 64 mm
04.13.02.28066	Acetabular Insert 09 Points Ø28 x 66 mm
04.13.02.28068	Acetabular Insert 09 Points Ø28 x 68 mm

04.13.02.28070	Acetabular Insert 09 Points Ø28 x 70 mm
04.13.02.32044	Acetabular Insert 09 Points Ø32 x 44 mm
04.13.02.32046	Acetabular Insert 09 Points Ø32 x 46 mm
04.13.02.32048	Acetabular Insert 09 Points Ø32 x 48 mm
04.13.02.32050	Acetabular Insert 09 Points Ø32 x 50 mm
04.13.02.32052	Acetabular Insert 09 Points Ø32 x 52 mm
04.13.02.32054	Acetabular Insert 09 Points Ø32 x 54 mm
04.13.02.32056	Acetabular Insert 09 Points Ø32 x 56 mm
04.13.02.32058	Acetabular Insert 09 Points Ø32 x 58 mm
04.13.02.32060	Acetabular Insert 09 Points Ø32 x 60 mm
04.13.02.32062	Acetabular Insert 09 Points Ø32 x 62 mm
04.13.02.32064	Acetabular Insert 09 Points Ø32 x 64 mm
04.13.02.32066	Acetabular Insert 09 Points Ø32 x 66 mm
04.13.02.32068	Acetabular Insert 09 Points Ø32 x 68 mm
04.13.02.32070	Acetabular Insert 09 Points Ø32 x 70 mm
04.13.03.28058	Acetabular Insert 09 Points w/ Locking Ø28 x 58mm
04.13.03.28060	Acetabular Insert 09 Points w/ Locking Ø28 x 60mm
04.13.04.28048	Acetabular Insert w/ Locking Ø28 x 48mm
04.13.04.28054	Acetabular Insert w/ Locking Ø28x54mm
04.13.04.28056	Acetabular Insert w/ Locking Ø28x56mm
04.13.04.28058	Acetabular Insert w/ Locking Ø28x58mm
04.13.04.28060	Acetabular Insert w/ Locking Ø28x60mm

The Acetabular Insert is registered by Anvisa under nº 10417940023

Table – Non Cemented Cup Titanium

CODE	DESCRIPTION
04.01.03.22042	MD4 Acetabulum – Mesh Ø22x42mm 18 Points w/ insert
04.01.03.22044	MD4 Acetabulum - Mesh Ø22x44mm 18 Points w/ insert
04.01.03.22046	MD4 Acetabulum - Mesh Ø22x46mm 18 Points w/ insert
04.01.03.22048	MD4 Acetabulum - Mesh Ø22x48mm 18 Points w/ insert
04.01.03.28050	MD4 Acetabulum - Mesh Ø28x50mm 18 Points w/ insert
04.01.03.28052	MD4 Acetabulum - Mesh Ø28x52mm 18 Points w/ insert
04.01.03.28054	MD4 Acetabulum - Mesh Ø28x54mm 18 Points w/ insert
04.01.03.28056	MD4 Acetabulum - Mesh Ø28x56mm 18 Points w/ insert
04.01.03.28058	MD4 Acetabulum - Mesh Ø28x58mm 18 Points w/ insert
04.01.03.28060	MD4 Acetabulum - Mesh Ø28x60mm 18 Points w/ insert
04.01.03.28062	MD4 Acetabulum - Mesh Ø28x62mm 18 Points w/ insert
04.01.03.28064	MD4 Acetabulum - Mesh Ø28x64mm 18 Points w/ insert
04.01.03.28066	MD4 Acetabulum - Mesh Ø28x66mm 18 Points w/ insert
04.01.03.28068	MD4 Acetabulum - Mesh Ø28x68mm 18 Points w/ insert
04.01.03.28070	MD4 Acetabulum - Mesh Ø28x70mm 18 Points w/ insert
04.01.04.22042	MD4 Acetabulum - Plasma Spray Ø22x42mm w/ insert
04.01.04.22044	MD4 Acetabulum - Plasma Spray Ø22x44mm w/ insert
04.01.04.22046	MD4 Acetabulum - Plasma Spray Ø22x46mm w/ insert
04.01.04.22048	MD4 Acetabulum - Plasma Spray Ø22x48mm w/ insert
04.01.04.28050	MD4 Acetabulum - Plasma Spray Ø28x50mm w/ insert

04.01.20.22060	MD4 Acetabulum - Mesh Ø22x60mm Lateral locking w/ insert
04.01.20.22062	MD4 Acetabulum - Mesh Ø22x62mm Lateral locking w/ insert
04.01.20.22064	MD4 Acetabulum - Mesh Ø22x64mm Lateral locking w/ insert
04.01.20.22066	MD4 Acetabulum - Mesh Ø22x66mm Lateral locking w/ insert
04.01.20.22068	MD4 Acetabulum - Mesh Ø22x68mm Lateral locking w/ insert
04.01.20.22070	MD4 Acetabulum - Mesh Ø22x70mm Lateral locking w/ insert
04.01.20.28048	MD4 Acetabulum - Mesh Ø28x48mm Lateral locking w/ insert
04.01.20.28050	MD4 Acetabulum - Mesh Ø28x50mm Lateral locking w/ insert
04.01.20.28052	MD4 Acetabulum - Mesh Ø28x52mm Lateral locking w/ insert
04.01.20.28054	MD4 Acetabulum - Mesh Ø28x54mm Lateral locking w/ insert
04.01.20.28056	MD4 Acetabulum - Mesh Ø28x56mm Lateral locking w/ insert
04.01.20.28058	MD4 Acetabulum - Mesh Ø28x58mm Lateral locking w/ insert
04.01.20.28060	MD4 Acetabulum - Mesh Ø28x60mm Lateral locking w/ insert
04.01.20.28062	MD4 Acetabulum - Mesh Ø28x62mm Lateral locking w/ insert
04.01.20.28064	MD4 Acetabulum - Mesh Ø28x64mm Lateral locking w/ insert
04.01.20.28066	MD4 Acetabulum - Mesh Ø28x66mm Lateral locking w/ insert
04.01.20.28068	MD4 Acetabulum - Mesh Ø28x68mm Lateral locking w/ insert
04.01.20.28070	MD4 Acetabulum - Mesh Ø28x70mm Lateral locking w/ insert

The Non Cemented Cup Titanium is registered by Anvisa under nº 10417940030

Table – Non Cemented Cup Cobalt Chrome

CODE	DESCRIPTION	SIZE
04.01.22	Non Cemented Cup CrCo	22 x 44 mm
		22 x 46 mm
		22 x 48 mm
04.01.22	Non Cemented Cup CrCo	28 x 50 mm
		28 x 52 mm
		28 x 54 mm
		28 x 56 mm
		28 x 58 mm
		28 x 60 mm
		28 x 62 mm

The Non Cemented Cup Cobalt Chrome is registered by Anvisa under nº 10417940023

Table – Non Cemented Nail

CODE	DESCRIPTION
04.30.09.09117	MD4 Femoral Prosthesis with Porous Coated Cone 10/11 Primary 09x117 mm
04.30.09.10122	MD4 Femoral Prosthesis with Porous Coated Cone 10/11 Primary 10x122 mm
04.30.09.11127	MD4 Femoral Prosthesis with Porous Coated Cone 10/11 Primary 11 x 127 mm
04.30.09.12132	MD4 Femoral Prosthesis with Porous Coated Cone 10/11 Primary 12 x 132 mm
04.30.09.13137	MD4 Femoral Prosthesis with Porous Coated Cone 10/11 - Primary 13 x 137
04.30.09.14142	MD4 Femoral Prosthesis with Porous Coated Cone 10/11 - Primary 14 x 142
04.30.09.15147	MD4 Femoral Prosthesis with Porous Coated Cone 10/11 - Primary 15 x 147
04.30.09.16152	MD4 Femoral Prosthesis with Porous Coated Cone 10/11 - Primary 16 x 152

04.30.09.17157	MD4 Femoral Prosthesis with Porous Coated Cone 10/11 - Primary 17 x 157 mm
04.30.10.09117	MD4 Femoral Prosthesis with Porous Coated Cone 10/11 - Revision 09 x 117 mm
04.30.10.10170	MD4 Femoral Prosthesis with Porous Coated Cone 10/11 - Revision 10 x 170 m
04.30.10.11180	MD4 Femoral Prosthesis with Porous Coated Cone 10/11 - Revision 11 x 180 m
04.30.10.12190	MD4 Femoral Prosthesis with Porous Coated Cone 10/11 - Revision 12 x 190 m
04.30.10.13200	MD4 Femoral Prosthesis with Porous Coated Cone 10/11 - Revision 13 x 200 m
04.30.10.14210	MD4 Femoral Prosthesis with Porous Coated Cone 10/11 - Revision 14x 210mm
04.30.10.15220	MD4 Femoral Prosthesis with Porous Coated Cone 10/11 - Revision 15 x 220 m
04.30.10.16230	MD4 Femoral Prosthesis with Porous Coated Cone 10/11 - Revision 16 x 230 m
04.30.10.17240	MD4 Femoral Prosthesis with Porous Coated Cone 10/11 - Revision 17 x 240 m
04.30.11.07107	MD4 Femoral Prosthesis with Porous Coated Cone 12/14 - Primary 07 x 107 mm
04.30.11.08112	MD4 Femoral Prosthesis with Porous Coated Cone 12/14 - Primary 08 x 112 mm
04.30.11.09117	MD4 Femoral Prosthesis with Porous Coated Cone 12/14 - Primary 09 x 117 mm
04.30.11.09160	MD4 Femoral Prosthesis with Porous Coated Cone 12/14 - Primary 09 x 160 mm
04.30.11.10122	MD4 Femoral Prosthesis with Porous Coated Cone 12/14 - Primary 10 x 122 mm
04.30.11.10160	MD4 Femoral Prosthesis with Porous Coated Cone 12/14 - Primary 10 x 160 mm
04.30.11.11127	MD4 Femoral Prosthesis with Porous Coated Cone 12/14 - Primary 11 x 127 mm
04.30.11.11160	MD4 Femoral Prosthesis with Porous Coated Cone 12/14 - Primary 11 x 160 mm
04.30.11.12132	MD4 Femoral Prosthesis with Porous Coated Cone 12/14 - Primary 12 x 132 mm
04.30.11.12180	MD4 Femoral Prosthesis with Porous Coated Cone 12/14 - Primary 12 x 240 mm
04.30.11.13137	MD4 Femoral Prosthesis with Porous Coated Cone 12/14 - Primary 13 x 137 mm
04.30.11.13180	MD4 Femoral Prosthesis with Porous Coated Cone 12/14 - Primary 13 x 180 mm
04.30.11.14142	MD4 Femoral Prosthesis with Porous Coated Cone 12/14 - Primary 14 x 142mm
04.30.11.14180	MD4 Femoral Prosthesis with Porous Coated Cone 12/14 - Primary 14 x 180 mm
04.30.11.15147	MD4 Femoral Prosthesis with Porous Coated Cone 12/14 - Primary 15 x 147mm
04.30.11.15200	MD4 Femoral Prosthesis with Porous Coated Cone 12/14 - Primary 15 x 200 mm
04.30.11.16152	MD4 Femoral Prosthesis with Porous Coated Cone 12/14 - Primary 16 x 152mm
04.30.11.16200	MD4 Femoral Prosthesis with Porous Coated Cone 12/14 - Primary 16 x 200 mm
04.30.11.17157	MD4 Femoral Prosthesis with Porous Coated Cone 12/14 - Primary 17 x 157mm
04.30.11.17200	MD4 Femoral Prosthesis with Porous Coated Cone 12/14 - Primary 17 x 200 mm
04.30.12.09220	MD4 Femoral Prosthesis with Porous Coated Cone 12/14 - Revision 09 x 220 mm
04.30.12.10170	MD4 Femoral Prosthesis with Porous Coated Cone 12/14 - Revision 10 x 170 mm
04.30.12.10220	MD4 Femoral Prosthesis with Porous Coated Cone 12/14 - Revision 10 x 220 mm
04.30.12.11180	MD4 Femoral Prosthesis with Porous Coated Cone 12/14 - Revision 11 x 180 mm
04.30.12.11220	MD4 Femoral Prosthesis with Porous Coated Cone 12/14 - Revision 11 x 220 mm
04.30.12.12190	MD4 Femoral Prosthesis with Porous Coated Cone 12/14 - Revision 12 x 190 mm
04.30.12.12240	MD4 Femoral Prosthesis with Porous Coated Cone 12/14 - Revision 12 x 240 mm
04.30.12.12300	MD4 Femoral Prosthesis with Porous Coated Cone 12/14 - Revision 12 x 300mm
04.30.12.13200	MD4 Femoral Prosthesis with Porous Coated Cone 12/14 - Revision 13 x 200 mm
04.30.12.13240	MD4 Femoral Prosthesis with Porous Coated Cone 12/14 - Revision 13 x 240 mm
04.30.12.14210	MD4 Femoral Prosthesis with Porous Coated Cone 12/14 - Revision 14 x 210 mm
04.30.12.14240	MD4 Femoral Prosthesis with Porous Coated Cone 12/14 - Revision 14 x 240 mm
04.30.12.14300	MD4 Femoral Prosthesis with Porous Coated Cone 12/14 - Revision 14 x 300mm

04.30.12.15220	MD4 Femoral Prosthesis with Porous Coated Cone 12/14 - Revision 15 x 220 mm
04.30.12.15260	MD4 Femoral Prosthesis with Porous Coated Cone 12/14 - Revision 16 x 260 mm
04.30.12.16230	MD4 Femoral Prosthesis with Porous Coated Cone 12/14 - Revision 16 x 230 mm
04.30.12.16260	MD4 Femoral Prosthesis with Porous Coated Cone 12/14 - Revision 16 x 260 mm
04.30.12.17240	MD4 Femoral Prosthesis with Porous Coated Cone 12/14 - Revision 17 x 240 mm
04.30.12.17260	MD4 Femoral Prosthesis with Porous Coated Cone 12/14 - Revision 17 x 260 mm
04.30.48.09117	MD4 Femoral Prosthesis Ti with Plasma Spray Cone 12/14 - Primary 09 x 117 mm
04.30.48.09160	MD4 Femoral Prosthesis Ti with Plasma Spray Cone 12/14 - Primary 09 x 160 mm
04.30.48.10122	MD4 Femoral Prosthesis Ti with Plasma Spray Cone 12/14 - Primary 10 x 122 mm
04.30.48.10160	MD4 Femoral Prosthesis Ti with Plasma Spray Cone 12/14 - Primary 10 x 160 mm
04.30.48.11127	MD4 Femoral Prosthesis Ti with Plasma Spray Cone 12/14 - Primary 11 x 127 mm
04.30.48.11160	MD4 Femoral Prosthesis Ti with Plasma Spray Cone 12/14 - Primary 11 x 160 mm
04.30.48.12132	MD4 Femoral Prosthesis Ti with Plasma Spray Cone 12/14 - Primary 12 x 132 mm
04.30.48.12180	MD4 Femoral Prosthesis Ti with Plasma Spray Cone 12/14 - Primary 12 x 180 mm
04.30.48.13137	MD4 Femoral Prosthesis Ti with Plasma Spray Cone 12/14 - Primary 13 x 137 mm
04.30.48.14142	MD4 Femoral Prosthesis Ti with Plasma Spray Cone 12/14 - Primary 14 x 142 mm
04.30.48.14180	MD4 Femoral Prosthesis Ti with Plasma Spray Cone 12/14 - Primary 14 x 180 mm
04.30.48.15147	MD4 Femoral Prosthesis Ti with Plasma Spray Cone 12/14 - Primary 15 x 147 mm
04.30.48.15200	MD4 Femoral Prosthesis Ti with Plasma Spray Cone 12/14 - Primary 15 x 200 mm
04.30.48.16152	MD4 Femoral Prosthesis Ti with Plasma Spray Cone 12/14 - Primary 16 x 152 mm
04.30.48.16200	MD4 Femoral Prosthesis Ti with Plasma Spray Cone 12/14 - Primary 16 x 200 mm
04.30.48.17157	MD4 Femoral Prosthesis Ti with Plasma Spray Cone 12/14 - Primary 17 x 157 mm
04.30.48.17200	MD4 Femoral Prosthesis Ti with Plasma Spray Cone 12/14 - Primary 17 x 200 mm
04.30.49.09220	MD4 Femoral Prosthesis Ti with Plasma Spray Cone 12/14 - Revision 09 x 220 mm
04.30.49.10170	MD4 Femoral Prosthesis Ti with Plasma Spray Cone 12/14 - Revision 10 x 170 mm
04.30.49.10220	MD4 Femoral Prosthesis Ti with Plasma Spray Cone 12/14 - Revision 10 x 220 mm
04.30.49.11180	MD4 Femoral Prosthesis Ti with Plasma Spray Cone 12/14 - Revision 11 x 180 mm
04.30.49.11220	MD4 Femoral Prosthesis Ti with Plasma Spray Cone 12/14 - Revision 11 x 220 mm
04.30.49.12190	MD4 Femoral Prosthesis Ti with Plasma Spray Cone 12/14 - Revision 12 x 190 mm
04.30.49.12240	MD4 Femoral Prosthesis Ti with Plasma Spray Cone 12/14 - Revision 12 x 240 mm
04.30.49.13200	MD4 Femoral Prosthesis Ti with Plasma Spray Cone 12/14 - Revision 13 x 200 mm
04.30.49.13240	MD4 Femoral Prosthesis Ti with Plasma Spray Cone 12/14 - Revision 13 x 240 mm
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04.30.49.15260	MD4 Femoral Prosthesis Ti with Plasma Spray Cone 12/14 - Revision 15 x 260 mm
04.30.49.16230	MD4 Femoral Prosthesis Ti with Plasma Spray Cone 12/14 - Revision 16 x 230 mm
04.30.49.16260	MD4 Femoral Prosthesis Ti with Plasma Spray Cone 12/14 - Revision 16 x 260 mm
04.30.49.17240	MD4 Femoral Prosthesis Ti with Plasma Spray Cone 12/14 - Revision 17 x 240 mm
04.30.49.17260	MD4 Femoral Prosthesis Ti with Plasma Spray Cone 12/14 - Revision 17 x 260 mm

The Non Cemented Nail is registered by Anvisa under nº 10417940045

The selection and decision for Cemented or Non Cemented System depends on the each pathology, patient age and of responsible surgeon experience, being its responsibility the correct selection and material implantation.

Consult your representative MDT for more information about the ancillary of the Interchangeable Femoral Head.

Contra Indications

To what medical treatment of general manner may concern, all surgical technique, even when properly applied can present problems, complications and situations in which the final objective is not totally or partially achieved, and being their contra-indications always dependent upon the assistant-surgeon evaluation of the case and criteria, starting from the anatomy, local biology and systemic, the care of planning and preoperative prepare, the execution and application of perfect technique at intra operative and even the socioeconomic and cultural profile and so that there is respect and the patient cooperation the after surgery recommendations and follow-up. However, there are rules to be followed to avoid problems.

Below, are listed some contra indications although concerning (medical criteria), most often related to the implant:

- It is not recommended the use of femoral heads in titanium together with cups from manufacturer others, due to the incongruence between the head and the implant cavity;
- The use of femoral heads in titanium or acetabular component with little thick can result in premature wear of the polyethylene;
- Poor quality of cutaneous coverage and soft tissues, in which can lead to exposure of the material synthesis by skin necrosis, facilitating installation and maintenance of infectious processes;
- The Metallic Interchangeable Head should not be used if there is not adequate bone support to guarantee implant stability. In these circumstances, the supplemental method of the bone grafting must be used together with autologous or homologous grafting, or even with the help of reinforcement screens;
- The bone necrosis induced by irradiation in consequence of radiotherapy for cancer treatment is contra indication concerning the knee articular substitution, once that the fault of acetabular bone support can lead to the premature loosening of the implant. In these cases, other techniques and implant systems must be used;
- Local circulatory disease, arterial and venous insufficiencies that predisposing to the appearance of dehiscence and skin necrosis, to the appearance or maintenance of infections, problems and thromboembolic phenomena;
- Systemic diseases, which by diminution of local or general defenses or of circulatory conditions can predispose to complications as dehiscence and infections;
- Neurological disorders, that can bring change in bone strength, or neuro-muscular activity that can overload the implant;
- Bone diseases destructive quickly (for example: Charcot arthroplasty, bone tumors, etc.);
- Osteonecrosis, specially post-irradiation can bring infection troubles and dehiscence;
- The presence of the patient particulars conditions which can bring some bio-incompatibility with the metallic alloy used in the manufacturing implant.

The Cemented Femoral Reconstruction System of Hip is contra indicated for patients:

- Young and actives, who play sportive activities;
- Patients with overweight, above 102 kilograms;
- Patients with previous or actual infectious pathology;
- Patients with dementia or neurological disorders of lower limbs;
- Particular conditions of the patient: senility, alcoholism and infections. These conditions should be carefully investigated by the surgeon, which should alert the patient about risks from these particularities;

The use in the above cases can cause wear and tear or premature loosening of the Patellar Component, by excess of mechanical stress, infection or prosthetic luxation.

Adverse Effects

In addition to the fact that obvious risks can happen at presence of orthopedic implants, as the failure, loosening and fracture, the following risks of adverse tissue answers and complications possible should be presented and discussed with the patient:

- Though no scientifically proven association between the use of orthopedic implants with the material features as the ones used in the Patellar Prosthesis MDT, and the occurrence of cancer, any risks and uncertainty about the long term articular substitution effects, should be discussed with the patient prior to the surgery. The patient should also be informed that any circumstances that lead to chronic tissue damage may be oncogene. Cancerous tissues found in the implant vicinity may be related factors not linked directly to the implant such as: metastases from primary lung tumors, breast, digestive system and others, or yet due to the implantation of cancerous cells that may occur during operatory procedures or diagnoses such as biopsy or yet resulting from progression of the Paget illness;
- The implantation of foreign material in organic tissues can elicit inflammatory responses that can occur, for example, at presence of debris from implants (as metallic debris or of polyethylene), which can cause response histiocytic type strange body granuloma of causing bone destruction, associated or not at implant loosening;
- Sensibility or atopic to metal can be found after the implantation of orthopedic devices, as for example, which happen with the nickel, cobalt and chrome that are presents in the steel stainless alloy of orthopedic use. The titanium and its alloys of orthopedic use, are less antigenic accentually and have their use recommended in patients with historic of allergies or sensibility to metal;

Precautions

- The surgeon should not initiate the use of the cemented nails before complete reading these instructions for use. The nails must be used together with the instrumentals, in specialized environmental (ambulatory or operating rooms). The medical team should verify the nails and instrumentals integrity at end of the sterilization process and before the use;
- These systems only must be used together with the acrylic bone cement, otherwise there will be mechanical failure of device or loss of bone stock;
Observe before opening the package, if the metallic constitution of the femoral head is compatible with the nail. The mixture of alloys can induce to galvanic corrosion of the junction of the head with the cone Morse;
- It is recommended the use of prophylactic antibioticterapy in patients carriers of articular substitution submitted to procedures which cause temporary bacteremia (dental procedures; endoscopy, catheterization of large vessels in the groin and others);
- The Metallic Interchangeable Head was designed to be implanted through the use of instrumental, specifically developed for this purpose. Any improvisation with different instrumentals or inaccurate surgical technique may compromise the quality of fixation and/or the implant positioning;
- It is recommended previously to insertion of the bone cement and component, the obtaining a hemispherical cavity with viable bone bed.
- In some occasions, reinforcements in the form of bone grafts or containment devices and support may be indicated to restore bone stock and ensure a good stability of the implant;
- The implantation of component under inadequate bone bed can results in premature loosening and progressive loss of bone stock and metallosis;
- The use together with acetabular components from manufacturer others, can results in incongruence between the femoral head and the implant cavity;
- **SINGLE USE PRODUCT – DO NOT REUSE;**
- **The Metallic Interchangeable Head is supplied sterile by Gamma Radiation;**

- Use immediately after opening of the sterilization seal;
- Discard and DO NOT USE opened or damaged devices. Use only devices that are packaged in closed packages and undamaged;
- **DO NOT USE** in case of loss device sterilize;
- **DO NOT RESTERILIZE.**

The patient must be informed by:

- All the postoperative restrictions, particularly those related to sportive and occupational activities;
- The fact that complications or failures of hip total arthroplasty are more likely to occur in:
- Patients with functional expectative beyond what can be promoted by the articular substitution;
- Patients with overweight, above 102 kilograms;
- Young patients and/or actives;
- Patients with small skeleton;
- The need for periodic medical monitoring to check the alterations of implant and adjacent bone. Only the accompanying can detect possible loosening of component or osteolysis occurrence;
- When components loosen and femoral osteolysis occurs and not is performed review surgery, can result in progressive loss of periprosthetic bone stock;
- The needs to inform that is metallic prosthesis user when submitted to Magnetic Resonance examinations;
- Should instruct the patient, the medical criteria that use external supports, aid to ambulate and orthopedic appliances, designed to immobilize the fracture area and to limit the load;
- Should alert the patient and make him understand that the product does not substitute and does not have the same performance of the normal bone and therefore can break, deform or loosen, due to excessive effort or activities of early load, etc;
- The products described here were developed for use in the above described circumstances; such that any other using are considered contra indicated or without scientific substrate that support its use.
- The information listed in this topic “Indications”, “Contra Indications”, “Adverse Effects”, “Precautions and Warnings”.

Warnings

- The opening of the package for surgical use should be performed by nursing team that is qualified for this procedure;
- Inadequate sterilization of the surgical instrumental can cause prosthetic infection;
- Do not use the product if the packaging is breached or with the validity expired.
- Single use Hospital Medical Product - Discard after explantation. We recommend that the parts are cut, twist or filing for its destruction, but to dispose of this product, observe the local law;
- Never reuse an implant, because even without external appearance of damage, previous tensions can reduce their lifetime;
- All explanted material, damaged or improper for use, should be send to the manufacturer to be destroyed;
- The clinical results and the durability of the implants in the femur total arthroplasty are extremely dependents on an tridimensional align of the components, therefore being indispensable an accurate surgical technique;
- Handling with care;
- The patient should have periodic medical monitoring to check the conditions of the implant and adjacent bone;
- Do not should be used components of different manufacturer;

- Should be respected the limit of implant resistance, which varies by type, at risk of its weakening and possible fracture of the material;
- Manufacturing date, validity term and batch number: see label.

Instructions for Use

The surgical techniques vary according to the surgeon choice, which is responsible by the method, type and dimension of products to be used, as well as, the evaluation criteria of the surgical results.

- Handle the Metallic Interchangeable Heads in exclusively adequate locations (ambulatory or operating rooms) with required care (handling only with sterile gloves). Only qualified professionals must handle and implant the Patellar Component.
- The Metallic Interchangeable Heads should be applied according to the requirement and adequate surgical techniques;
- The clinical results and the durability of the implants in the femur total arthroplasty are extremely dependents on an tridimensional align of the components, therefore being indispensable an accurate surgical technique;
- The use of different alloys in metallic joints can cause galvanic corrosion of the implant;

Do not use the Metallic Interchangeable Heads together with products from other brands, because of having problems of materials incompatibility.

Risk of Contamination

Considering that the Metallic Interchangeable Head come in contact with tissues and corporals fluids, there is the risk of biological contamination and transmission of viral disease, such as hepatitis and HIV, etc. Therefore, the explanted implants should be treated as contaminants potentially materials.

Product Discard

Fall and crushing on hard surfaces can cause damage to the product. Thus, it is necessary the user performs an inspection of the product integrity, when the packaging is opened, and if any abnormality is observed the product should not be used;

After removal of patient, discard all implants, because **should not be reused**.

The explanted implants that are damaged should be unusable for use before of the discard. It is recommended that the parts be cut, twist or filing for its destruction.

To discard the explanted implants, following the legal local procedures of country, for dispose of contaminants potentially products.

Traceability

To ensure the traceability of the implanted product, and comply with the requirements of the sanitary surveillance, it is recommended that the surgeon responsible by implantation notified the Distributor with the following information regarding to the implanted product, the surgery and the patient:

- Surgeon's name;
- Surgery date;
- Name of patient who received the implant;
- Code of product;
- Number of batch of the product;

The Metallic Interchangeable Head is marked in its body with the following information:

- Company logo;
- Manufacturing batch;
- Code of product.

Storage

It is recommended dry and airy place, far away of the sunbeam direct incidence.

The implants cannot be stored directly on the floor (minimum height = 20 cm). They cannot stay in high shelves proximate the lamps (for not dry out or delete the package label), cannot be stored in areas where contaminant substances such as insecticides, pesticides or cleaning materials are used.

Transport

Transport with care, avoiding falls and friction that can damage the surface finish. Always observe the packaging integrity.

Always keep the implants in their original packaging until the moment of use, under the responsibility of the medical/hospital team designated for this purpose.

Manufacturing date, validity term and batch number: see label.

Do not use the product beyond the validity date.

Further Information



Manufactured and distributed by:

MDT – Indústria Comércio Importação e Exportação de Implantes SA

Address: Av. Brasil, nº. 2983 – Distrito Industrial – Rio Claro/SP – Brasil

CEP: 13505-600

Phone/ Fax: (55-19) 2111-6500

CNPJ: 01.025.974/0001-92

Technician Responsible: Miguel Lopes Monte Júnior – CREA 0601150192

ANVISA Registration N°: 10417940036

Review: 01

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ALERT INSTRUCTIONS FOR USE

These INSTRUCTIONS FOR USE are not available in printed form, they are available at the website of the manufacturer www.mdt.com.br.

The INSTRUCTIONS FOR USE on the website are indexed by REGISTRATION/ CADASTRE ANVISA's NUMBER and its TRADE NAME of the product, informed at the label of the product purchased.

All the INSTRUCTIONS FOR USE provided on the website have the identification of the revision and date of emission of the document. The user must pay attention to the correct version (revision and date of emission) of the document regarding the MANUFACTURING DATE informed at the label of the product purchased.

If it is interest to the user, the INSTRUCTIONS FOR USE may be provided in printed form, with no extra cost and the request of the same shall be held by the SAC (Customer Service Department) manufacturer, as following:

Customer Service Department:

Telephone: +55 19 2111.6500

FAX: +55 19 2111.6500

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Avenida Brasil, 2983 – Distrito Industrial CEP: 13505-600 | Rio Claro – São Paulo – Brasil

Opening Hours: 8 AM to 5 PM, from Monday to Friday, except holidays.



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