

Patient information for Implants

1. Dear patient,

Your new artificial joint is one of the best researched medical devices, a great piece of high-tech: the latest technology, thoughtful, safe and with great care very durable.

For the last 60 years, countless engineers have worked to improve joint replacements. There are only a few medical devices that are as advanced as an artificial joint replacement, that is also referred to medically as a total endoprosthesis.

Design, materials and production are to the highest standards. Gentle surgical methods ensure that you are literally back on your feet after the procedure.

2. Implant Lifetime

The lifetime of our implants is limited in principle and is determined by individual factors such as, for example, body weight and the level of activity of the patient, as well as by the quality and professional execution of the implantation. Based on these individual influencing factors, Waldemar Link defines the overall average lifetime of an implant based on its survival rate (i.e. the proportion of functional implants after a certain period of time starting from the time of implantation). According to the results of the tests performed, the survival rate of our implants corresponds to the general state of the art at the time of approval of the implants.

3. CMR

CMR Substances

Some system components contain cobalt as an alloy ingredient in a concentration above 0,1 % weight by weight.

Cobalt is listed as a CMR (carcinogenic, mutagenic and toxic to reproduction) substance.

The Hazard Class and Category Code(s) for cobalt are:






- Carc. 1B
- Muta. 2
- Repr. 1B
- Resp. Sens. 1
- Skin Sens. 1
- Aquatic Chronic 4

For identification of the affected components and further material specification, please refer to the REF-list and the legend of materials in this document.

Legend of Materials

MAT	
M-No.	Material description
M1	Cobalt-based alloy, CoCrMo, ISO 5832-12; ASTM F1537, (EndoDur-S)
M2	Titanium-aluminum alloy, TiAl6V4, DIN EN ISO 5832-3 ; ASTM F136, (Tilastan-S)
M3	Ultra-high molecular weight polyethylene, UHMWPE, ISO 5834-2 / ASTM F-648
M4	Highly cross-linked polyethylene based on ultra-high molecular weight polyethylene, UHMWPE, ISO 5834-2 / ASTM F-648 / ASTM F-2565, (X-Linked PE)
M5	Highly cross-linked polyethylene based on ultra-high molecular weight polyethylene, UHMWPE, with vitamin E, ISO 5834-2 / ASTM F-648 / ASTM F-2565 / ASTM F-2695, (E-DUR)
M6	Calcium phosphate coating, CaP, ASTM F-1609, (HX)
M7	Titanium nitride coating, TiN/bN, titanium niobium nitride, ISO 5832-7, (LINK PorEx)
M8	Polyphenylsulfone, PPSU
M9	Neodymium, NdFeB, Nickel-plated
M10	Stainless steel, X5CrNi18-10, DIN EN 10088-1
M11	Stainless steel, X8CrNiS 18-9, DIN EN 10088-1
M12	Stainless steel, X20Cr13, DIN EN 10088-1
M13	Stainless steel, X10CrNi 18-8, DIN EN 10270-3
M14	Stainless steel, X90CrMoV18, DIN EN 10088-3
M15	Stainless steel, X5CrNiCuNb 16-4 / X5CrNiCuNb 17-4, ISO 7153-1
M16	Stainless steel, X2CrNiTiMo12-11-2-1
M17	Stainless steel, X17CrNi16-2, DIN EN 10088-3
M18	Stainless steel, XM-16, ASTM F 899-12
M19	Cobalt-based alloy, CoCrNiMoFe, ISO 5832-7 ASTM F1058
M20	Aluminium alloy, Al99,5, EN AW-1050A, DIN EN 573-3
M21	Silicone, BGA XV
M22	Polyamide, PA6 SA, DIN EN 15860
M23	Polypropylene homopolymer, PP-H, DIN EN 15860, ASTM D4101
M24	Polyvinyl chloride, PVC
M25	Polytetrafluoroethylene. PTFE
M26	Stainless steel, X5CrNiMo17-12-2, DIN EN 10088-3, AISI 316
M27	Stainless steel, X6CrNiMoTi17-12-2, DIN EN 10088-2
M28	Stainless steel, X46 Cr-13, ISO 7153-1
M29	Stainless steel, X2CrNiMo 18-15-3, DIN ISO 5832-1:97, ASTM F138-00, ASTM F139-00
M30	Cobalt-based alloy, CoCrMo, DIN ISO 5832-4, ASTM F75 (EndoDur)
M31	Titanium-aluminum alloy, TiAl6V4, ASTM F1108, (Tilastan)
M32	Titanium-aluminum alloy, Ti6Al4V, DIN EN ISO 5832-3, (Tilastan-E)
M33	Stainless steel, X2CrNiMo 17-12-2, ISO 7153-1
M34	Stainless steel, X2CrNiMo18-14-3, DIN EN 10088-3
M35	Aluminium alloy, AlMg1, EN EN5005/H14, DIN EN 573-3
M36	Thermoplastic elastomer, TPE
M37	Silicone rubber, FDA§ 177.2600

Explanation of Pictograms

	Manufacturer
	Patient information website
	Material (number)
	CE-Symbol (Certificated product)
	Contains hazardous substances

Tips for everyday life after a hip replacement surgery

- Go to all follow-up examinations.
- Avoid heavy physical work.
- If you have problems consult a doctor.
- Eliminate tripping hazards such as loose carpet edges in your home.
- Avoid sports with heavy impact or a high risk of injury.
- Suitable sports are light gymnastics, hiking on flat terrain and cycling with a bike low entry (easy ascent and descent).
- Swimming is also allowed with a hip endoprosthesis - best in crawl style.

Tips for everyday life after a knee replacement surgery

- Go to all follow-up examinations and contact the doctor immediately if problems occur.
- Eliminate tripping hazards in your home environment, such as loose carpet edges.
- Use a backpack to shop - making heavy loads easier.
- Avoid sports with heavy bumps and abrupt changes of direction such as jogging, football, tennis and horse riding.
- Suitable sports include cycling, gymnastics, hiking and swimming. The best is it is when you do sports that you already know.

Tips for everyday life after a revision surgery

- Go to all follow-up examinations.
- Keep a healthy body weight.
- Exercise regularly adapted sports to wed with a knee or hip endoprosthesis - preferably in a crawl style.
- Do not engage in sports that involve a lot of impact or risk of injury, such as tennis or squash.
- For safety, talk to your doctor if you are in any doubt about a sport.
- Avoid heavy physical work and consult a doctor immediately if problems occur.
- Eliminate tripping hazards in your living area, such as loose carpet edges.

Tips for your next flight or other security checks

- You have a joint replacement implanted, partly consisting of metal. This may interfere with metal detection devices.
- Please be prepared to show your surgical scars (where appropriate) during inspection.

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