



AESCULAP® PATIENT INFORMATION

YOUR NEW ARTIFICIAL KNEE JOINT



Dear Patient,

Dealing with continuous pain can be life challenging, especially when it interferes with the things that you want to do like your day to day activities such as golfing, playing with kids or simple things like getting in and out of bed. The Knee joint receives the most stress compared to other

joints in the body. The natural structure of the knee joint enables a wide range of motion patterns. The knee joint function can be impaired by overloading, disease and injury which leads to surgical implantation of an artificial knee replacement to achieve the desirable quality life.

Artificial Knee Joints

The artificial knee joints replaces the worn parts of the knee joint and has a similar form to the human knee. Depending on the extent to which the knee joint has been damaged, Advanced Surface (AS) Columbus Total Knee Replacement prosthesis can be considered.

Advance Surface (AS) Columbus Total Knee Replacement

When faced with the possibility of a knee surgery, you need security in the prosthesis your physician selects. B. Braun is the first supplier globally to coat every standard implant with the Advanced Surface (AS) Coating.

Advanced Surface (AS) Technology, gold coloured Advanced Surface (AS) made from Zirconium nitride is applied through a physical vapor process. A total of seven layers are applied to seal the metallic parts of the implant components.

Advantages of Advanced Surface (AS): 7 Layers To Protect you

Longevity

- 65% wear reduction^{1,2}
- Outstanding surface hardness

Allergy prevention

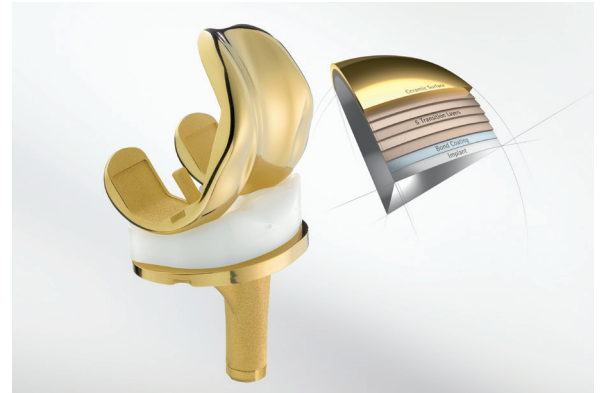
- Metal ion release below detection level³

Designed for performance

- 7 layers prevent mechanical ablation

Reliability

- Bond coating for a safe adhesive of subsequent layers



Technology Creates A Solid Foundation. The Surgeon Makes The Difference.

Technology assists us everywhere. And we know how to use it intelligently. Smart devices NAVIGATE US EFFICIENTLY through our everyday lives.

In surgery, precise goal achievement, performance, and real-time information are crucial to the success of the operation. OrthoPilot® Elite gives surgeons exact, continuous feedback on implant and instrument positions. So you can make the right decisions based on even more solid information.

OrthoPilot® Elite is based on innovative technology and 20 years of experience. That combination takes standards of surgical precision to a new level. Orthopilot elite is a surgical navigation system which enables the intra-operative alignment of the artificial joint position to the individual anatomy of the patient and a simulation of the result depending upon it.



References:

1. Affatato S, Spinelli M, Lopomo N, Grupp TM, Marcacci M, Toni A. Can the method of fixation influence the wear behaviour of ZrN coated unicompartmental mobile knee prostheses? Clin Biomech (Bristol, Avon). 2011 Feb;26(2):152-8. Epub 2010 Oct 8.
2. Grupp TM, Schwiesau T. Determination of the wear behaviour of the univication mobile knee system T018, Mar 2007.
3. Reich J, Hovy L, Lindenmaier HL, Zeller R, Schwiesau J, Thomas P, Grupp TM. Präklinische Ergebnisse beschichteter Knieimplantate für Allergiker. Orthopäde. 2010 Mai;39(5):495-502.

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