

Lubinus SP II Anatomically Adapted Cemented Hip System

Product Rationale

Clinical Outcome



"The 1990-2000 results for Lubinus SP do not significantly differ from the 1979-1989 cohort after 10 years. An explanation for this could be **that the SP stem is "forgiving" and less complicated to insert** in an adequate position. Well-designed instruments were also introduced early for the Lubinus system." ¹

1 H. Malchau et al; Prognosis of Total Hip Replacement, Department of Orthopaedics, Göteborg University, Sweden, 2002

After 23 years 92.3% survival rate (n=88,968) of Lubinus SP II stem²



Lubinus all-poly (Lubinus SP II) cup-/stem revision – all diagnoses and all reasons Lubinus SP II is the most used stem in Sweden according to the Swedish Hip Arthroplasty Register with more than 160,000 stems implanted in the last 40 years.

Stem	Stems Implanted 2019	Proportion
Lubinus SP II	158,398	57.2 %
Exeter polished	82,038	29.6 %
Corail collarless	20,369	7.4 %
MS 30 polished	16,007	5.8 %

Source: Annual Report 2019



2 Annual Report 2015; www.shpr.se



Lubinus SP II - Anatomically Adapted Hip System



⁴ www.odep.org.uk; Orthopaedic Data Evaluation Panel

Made in Germany



Anatomical design includes built-in anatomic antetorsion

The stems in the SP II system have a 12/14 taper and can be combined with every modular ceramic or metal prosthesis head, having a 12/14 taper, made by LINK. The stem has an anatomic design with an S-shaped curvature in sagittal plane.



Modular System

- Three standard stem lengths (130, 150 and 170 mm) and four additional revision surgery stem lengths of 200 to 350 mm
- Three CCD angles, one standard and one extra-long neck and up to four head-neck lengths for exact adjustment of lateralization and leg length





neutralizes torsional forces⁵

5 W.T. Stillwell. The Art of the Total Arthroplasty. Grune & Stratton, Inc. 1987; pp. 296









Straight stems produce stress risers in the anatomically S-shaped medullar canal



S-shaped stems result in even stress distribution

Photoelastic study of stresses

Stress-load analysis proves that the true adaption to the femur of the LINK anatomically shaped hip stems result in a more natural stress distribution, eliminating the harmful pinpoint stress concentrations at the bone (cement)/implant interface.⁶

6 Langhans et al. (1992). Der Einfluß der Formgebung des Prothesenschaftes auf die Beanspruchung des proximalen Femurs. EUR J TRAUMA EMERG SURG. 18. 266-273. Noble et al. (1988). The anatomic basis of femoral component design. Clin Orthop Relat Res. 235. 148-165.

The anatomic stem shape promotes an **uniform cement mantle** around the whole stem within the medullary canal.



Lubinus Eccentric Polyethlene Acetabular Cup, cemented

- X-LINKed* or standard UHMWPE
- Optimal cement fixation due to horizontal and vertical grooves
- Anti-luxation option >180°
- Optimized material thickness in the main area of wear
- Integrated spacers for homogenous cement mantle
- Wide spectrum of sizes in 2 mm increments Ø 38 68 mm (16 sizes)
- Clearance between head and cup allows for lubrication = less wear





* X-LINKed is a highly crosslinked UHMWPE made by Waldemar Link GmbH & Co. KG. X-LINKed is not available in the U.S.

Vario-Cup Bipolar Head



- CoCrMo alloy and UHMWPE
- Available in outer diameters ranging from 39 to 65 mm in 1 mm increments
- Can be combined with prosthesis heads B for internal diameters 24, 28 and 32 mm
- Vario-Cup can be used in combination with LINK Total Hip Systems
- Safety ring at cup entrace minimizes risk of dislocation
- Self centering





IP Polyethylene Acetabular Cups



Lubinus Polyethylene Acetabular Cups



FAL Polyethylene Acetabular Cups

13A* ODEP rating⁴

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