Lubinus SP II®
Anatomically Adapted Hip System

Product Rationale
“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 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® stem

Lubinus SP II® is the most used stem in Sweden according to the Swedish Hip Arthroplasty Register with 116,998 stems implanted in the last 40 years.

<table>
<thead>
<tr>
<th>Stem</th>
<th>Stems implanted</th>
<th>Proportion</th>
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</thead>
<tbody>
<tr>
<td>Lubinus SP II</td>
<td>130,128</td>
<td>40.2 %</td>
</tr>
<tr>
<td>Exeter polished</td>
<td>68,676</td>
<td>21.7 %</td>
</tr>
<tr>
<td>Corail collarless</td>
<td>12,187</td>
<td>7.8 %</td>
</tr>
<tr>
<td>MS 30 polished</td>
<td>11,156</td>
<td>6.6 %</td>
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</tbody>
</table>

2 Annual Report 2015; www.shpr.se
“The hazard ratio for the Exeter stem was about five times higher than that for the Lubinus SP II stem [...]”


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

Anatomic stem design neutralizes torsional forces

Features and Advantages

Calcar collar
avoids subsidence of the stem

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

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

Combinable Cups

Lubinus Eccentric Polyethylene 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

with snap fit
standard UHMWPE

without snap fit
X-LINKed™ PE* or standard UHMWPE

* 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 entrance minimizes risk of dislocation
• Self centering
IP Polyethylene Acetabular Cups

Lubinus Polyethylene Acetabular Cups

FAL Polyethylene Acetabular Cups

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