The answer is black and white
How do you eliminate your bearing concerns?

As an orthopaedic surgeon, you have a variety of options when choosing a hip implant best suited to your patient. You know today’s bearing couples provide great wear properties. However, each couple has its own issues.

- **Ceramic on ceramic** – Will this coupling result in fracture, chipping or squeaking?
- **Metal on metal** – Will this coupling trigger allergic reactions in your patients?
- **CoCr on Polyethylene** – Will your patients experience osteolysis and prosthetic loosening?

The answer is black and white

The combination of OXINIUM® heads on XLPE liners offers you:

- No risk of fracture, chipping or squeaking
- Hypoallergenic solution for metal-sensitive patients
- Proven low wear rates

In addition, OXINIUM heads and XLPE liners are available in a wide variety of head sizes and neck offsets, which allow you the intraoperative flexibility to help restore a full range of motion.
OXINUM™ heads on XLPE liners answer all your concerns

Fracture

Metal allergies

Osteolysis
OXINIUM® heads on XLPE liners: no fracture, chipping or squeaking

The ceramic surface of OXINIUM heads is not a coating, so it cannot chip or flake. The original metal surface is transformed into a ceramic through thermal processing, providing you with the only unbreakable ceramic on the market that is not a coating.\textsuperscript{1,2,3}

OXINIUM heads on XLPE liners: a hypoallergenic solution for metal-sensitive patients

Patients have drastically different tolerances to metal ions. Nickel allergy has been demonstrated in up to 20\% of patients with well-functioning implants and up to 55\% of patients with poorly functioning implants.\textsuperscript{6}

OXINIUM heads on XLPE liners: lower risk of osteolysis

Smith & Nephew XLPE acetabular liners produce less wear particles than other cross-linked polyethylenes.\textsuperscript{12,13,14} When combined with OXINIUM heads, wear debris is further reduced in comparison with standard CoCr heads.
The ceramic surface of OXINIUM® heads is integral with the metal alloy which allows OXINIUM heads to provide ceramic wear performance without the risk of fracture.\textsuperscript{2,4,5}

Whether it is fracture, chipping or squeaking that you are concerned about, OXINIUM heads on XLPE liners address all of these concerns.

OXINIUM material has no detectable nickel content. Compared to the traditional metal used in hip implants, the zirconium and niobium contained in OXINIUM material are more biocompatible. This makes OXINIUM heads an appropriate choice for patients with metal sensitivities.\textsuperscript{7,8,9,10,11}

Whether it’s metal sensitivity or metal ions you are concerned about, OXINIUM heads on XLPE liners address both of these issues.

Simulator results utilizing the active high demand patient profile demonstrate that OXINIUM heads outperform CoCr heads on XLPE. OXINIUM heads minimize the material-related risks associated with other advanced bearings, while meeting the requirements of active patients.

Whether it is the demands of active patients or prosthesis longevity that you are concerned about, OXINIUM heads on XLPE liners are a great choice.\textsuperscript{16}
References


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