



Title

EARLY OSTEOLYSIS FOLLOWING SECOND-GENERATION METAL-ON-METAL HIP REPLACEMENT

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Purpose/Premise

This article reports on a study of metal hypersensitivity as a possible cause of osteolysis in patients who had undergone THA with cast cobalt-chromium metal-on-metal implant.

Material and Methods

With a minimum follow-up of two years, 165 patients (169 hips) were evaluated who had undergone THA with metal-on-metal implants consisting of low-carbon cobalt-chromium alloy on cast high-carbon cobalt-chromium alloy. Osteolytic patients were then tested for hypersensitivity to metals.

Outcomes

After a minimum of 24 months, nine patients (10 hips) (5.9%) showed signs of an osteolytic lesion localized to the greater trochanter. These patients had a significantly higher rate of hypersensitivity to cobalt.

Conclusion/Recommendation

The authors conclude that hypersensitivity to metals may contribute to osteolysis in patients with this cast cobalt-chromium metal-on-metal bearing.

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