

# New hip implants no better than traditional implants

November 30 2011

---

New hip implants appear to have no advantage over traditional implants, suggests a review of the evidence published in the British Medical Journal today.

And some evidence shows that new implants may be associated with higher rates of revision surgery.

While [hip replacement](#) is a successful operation, substantial numbers of patients require revision surgery within 10 years to replace the implant because of infection, dislocation, wear, instability, loosening, or other mechanical failures.

Traditional hip implants with metal on polyethylene or ceramic on polyethylene bearing surfaces are associated with low revision rates. Newer alternatives with metal on metal or ceramic on ceramic bearings are available, but their advantage over traditional implants is still not clear.

There have also been severe cases of accumulation of [metal ions](#) in tissues of patients with metal on metal hip implants, leading the [BMJ](#) to call for better regulation of medical devices. And in 2009, the US [Food and Drug Administration](#) (FDA) initiated a comprehensive review of the evidence for approved hip implants.

Working with the FDA, a team of researchers led by Professor Art Sedrakyan set out to compare the safety and effectiveness of hip

implants with different bearing surfaces.

They analysed the results of 18 studies involving 3,139 patients and over 830,000 operations in annual reports of registries.

They found that functional outcomes (ability to carry out usual daily activities) and general quality of life scores were no different between patients with the new metal on metal or ceramic on ceramic hip implants compared with traditional hip implants.

While one study reported fewer dislocations associated with metal on [metal implants](#), in the three largest national registries there was evidence of higher rates of implant revision associated with metal on metal implants compared with traditional metal on polyethylene implants.

One trial reported fewer revisions with ceramic on ceramic compared with metal on [polyethylene](#) implants, but data from national registries did not support this finding.

The authors conclude: "There is limited evidence regarding comparative effectiveness of various hip implant bearings, and the results do not indicate any advantage for metal on metal or ceramic on ceramic implants compared with traditional bearings."

They call for a large randomised trial of bearing surfaces before any claims of benefit are made.

Until then, they say "national registries provide important real world data that are critical for the safety and future comparative safety and effectiveness evaluation."

Provided by British Medical Journal

Citation: New hip implants no better than traditional implants (2011, November 30) retrieved 17 April 2024 from <https://medicalxpress.com/news/2011-11-hip-implants-traditional.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.