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<https://lnkd.in/etKPSvwx>

MMATECH Ltd. is producing orthopedic implants for articulating joints. Dr. MD James Burn was the first surgeon to implant our new hip liner made of Polyimide MP-1 in men. Since then, 150 patients were successfully implanted in NZ and in 2 centers in Israel. We are now entering a stage of mass production, sales and marketing.



James Burn • 1st

Consultant Orthopaedic Surgeon, Christchurch. Founding shareholder of Enztec and Ossis. No longer shareholder of either company .Founding shareholder and current Shareholder of The Machinists in Christchurch

POLYIMIDE in Total hip replacement.

It is now 20 yrs since I did the first ever implantation of this material in a revision THR done for Polyethylene wear.

The patient remains well without osteolysis , or evidence of wear.

I now have a series of 100 patients started 13 yrs ago , again no osteolysis, no wear and 6 patients had their liners exchanged due to lack of clearance and squeaks, an engineering issue. But no wear or creep seen on retrievals!

Patients are even downhill mountain biking on it!!

This is a great material to replace ceramic on ceramic for the high performance THR and NO cold flow with malposition as seen with Polyethylene



Orit Shaked  • 1st

Corporate and business strategy, Commercial operations, Entrepreneurship
50m • 

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🦴 A great example of how breakthrough materials science can redefine long-standing challenges in orthopedics.

The transition from traditional metal-on-metal implants toward advanced biomaterials like polyimide-based MP-1 highlights the importance of thinking beyond incremental improvements and addressing the root causes of wear, inflammation, and implant failure.

Particularly impressive is the combination of:

- ✅ High durability and mechanical strength
- ✅ Extremely low wear and friction
- ✅ Long-term biocompatibility
- ✅ Potential to significantly improve patient quality of life

📄 This is exactly the kind of cross-disciplinary innovation — combining materials science, engineering, and medicine — that has the potential to reshape the future of medical devices and joint replacement.

👏 Exciting work by [Alisa Buchman](#) and the team at MMA-Tech (<https://mma-tech.com/>)