

Clinical Results

Biomet® Metal-on-Metal Hip Survivorship

Excellent Survivorship of Biomet® Metal-on-Metal Articulations

During the past decade, Biomet has emerged as a recognized leader in metal-on-metal articulations. Our M²a™ metal-on-metal product line has led the market in monoblock metal-on-metal systems since its introduction in 2001. The M²a-Magnum™ system allows for significant wear reduction compared with metal-on-polyethylene or ceramic-on-polyethylene while also offering maximum range of motion.^{1,2} System features include:

- Precise tolerance levels between the head and liner for optimum wear performance¹
- Six neck length options from -6 to +9mm for restoration of biomechanics³
- Reinforced dome to resist cup deformation
- PPS® Porous Plasma Spray for excellent initial and long-term fixation⁴⁻⁷
- Instrumentation and surgical technique designed to allow for reproducible results

A recent multi-center study demonstrated excellent short-term survivorship results with multiple Biomet® metal-on-metal articulations.² Study results, including the devices utilized, are summarized in the following.

Devices	M ² a-Magnum™ Large Metal Articulation, M ² a-38™ Acetabular System and M ² a-Taper™ Metal-on-Metal Acetabular System
Total patients	2,580
Survivorship	98.6%
Mean follow-up	2.5 years
Devices	M ² a-Magnum™ Large Metal Articulation and M ² a-38™ Acetabular System
Total patients	2,472
Survivorship	98%
Mean follow-up	2 years
Device	M ² a-38™ Acetabular System
Total patients	1,400
Survivorship	98%
Mean follow-up	3.4 years

These results are excellent additions to the long-standing clinical success of multiple Biomet® hip products, including:

- 20 years with the Taperloc® Hip System⁷⁻¹⁰
- 20 years with PPS® Porous Plasma Spray⁴⁻⁷
- 14 years with ArCom® Polyethylene¹¹
- 12 years with Ringloc® Acetabular Cups¹²

The combination of this clinical heritage and product innovation demonstrates Biomet's ongoing commitment to offering proven reconstructive technologies to meet the needs of the orthopedic industry.



References

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