Simple, Proven Instrumentation

The ADEPT® is provided with simple and clear instrumentation based on the longest experience of resurfacing and instruments in the industry to give confidence to the surgeon and patient.

The development of hip resurfacing with MatOrtho®/Finsbury since 1990 has seen the evolution of the instrument platform to create the most accurate and reproducible results for all surgeons.

Simple, reliable cup alignment technique with instrumentation specifically designed to achieve optimum cup inclination for ROM without impingement and to avoid ‘runaway’ edge wear to extend the life of the device.

Simple, reliable neck centring devices to reduce the likelihood of notching and to achieve optimum head and cup sizes for the individual patient.

Optimised sizing and preparation tools.

Low-profile cup introduction with introducer mechanism fully external to the cup bearing so the surgeon can see the cup rim when implanting.

Safe head cement pressurisation ensures proper seating of the cemented component without weakening femoral bone that can lead to necrosis.

First Class Clinical Data

The ADEPT® Hip Resurfacing System is provided as a bone conserving, early intervention option to meet the demands of active patients likely to outlive a conventional THR. For these patients, hip resurfacing arthroplasty enables a return to normal activity and sports\(^\text{[4-5]}\) with overall comparable survivorship rates to THR\(^\text{[4-5]}\) and with future interventional options maintained\(^\text{[5]}\).

Metal on metal hip replacement bearings have a successful heritage of over 50 years\(^\text{[4-5]}\). The ADEPT® was built on knowledge accumulated by the world’s leading resurfacing manufacturer, following analysis of long-term retrievals data for devices such as the Ring and McKee-Farrar designs and development and manufacture of the McMinn hip and the BHR. The ADEPT® was developed as an evolutionary step forward for those devices.

In clinical use worldwide since 2004 and with over 10 years of data, the results for the ADEPT® are first class. The ADEPT® has the lowest revision rates reported by the Australian National Joint Replacement Registry (96.4% at 7 years\(^\text{[10]}\)), comparable rates to the BHR in the NJR\(^\text{[5]}\) and has an ODEPT 7A rating.

Superior Function

- Instant stability with a flush fit press-fit cup and large diameter encapsulation for extremely low rates of dislocation.
- Constant angle coverage for all sizes avoiding neck impingement and irritation.
- Non-concentric head centre for increased ROM and for leg-length correction after reaming acetabulum.
- Low friction, fluid-film lubrication bearing for ease of flexion and a more natural feel than THR.

Optimised Design

- Proven long-term fixation with ‘as-cast’ cobalt-chrome shaft and hydroxyapatite coating to promote bone in-growth.
- Thin acetabular cup wall, minimising diameter difference between head and cup to permit larger femoral head for greater ROM and bone preservation.
- Optimum clearance based on long-term retrievals data minimising wear and offsetting the potential for end-stage failure by many years.
- Maximum coverage: constant throughout the size range for avoidance of edge wear.
- Metalurgically optimised from 1960s ‘as-cast’ cobalt-chrome with same block-carbide structure as long-surviving Ring prostheses for a predictable pattern of reduced wear.

Implant and Sizing Options

- Standard and extra-fixation cup options to allow complex cases to be anatomically restored and easily placed.
- Total flexibility and choice with 2mm incremental head and cup sizes and component matching options with as little as 6mm between head and cup diameter – to best achieve the native head diameter and maximise ROM with minimal acetabular reaming for all patients.
- Screw options with soft start thread.

Optimisation

- World’s leading orthopaedic manufacturer
- ADEPT® continues with manufacturing specialists
- Fixed bearing system with low wear rates
- Manufacturing specialists with 20+ years experience
- Minimum 10-year revision rates

Early development to modern-day resurfacing

1960s  McKee-Farrar Hip
1970s  McKee-Farrar Resurfacing
1978  Finsbury founded
1979  Manufactured acetabular cups for Peter Ring
1985  Founded Corin Medical
1988  Developed and manufactured MACH for Stryker
1989  Subcontract finishing services for BioMet
1990  Manufactured and supplied the first Ring hip for Corin manufacture
1991  Subcontract finishing services for BioMet
1992  Developed and manufactured MACH for Stryker
1996  Developed and manufactured MACH for Stryker
1998  Subcontract finishing services for BioMet
2000  OrthoMITCH for Stryker
2004  Manufactured and supplied the first BHR to SJN
2006  Developed and manufactured MACH for Stryker
2008  Subcontract finishing services for BioMet
2009  BHR manufacturing relocated
2011  Finsbury becomes MedOrtho®
2014  ADEPT® 10-year data and lowest revision rates

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