Smith+Nephew

Interim clinical results from a 2-year retrospective study of OR3O◊ Dual Mobility System in primary and revision total hip arthroplasty (THA)

Overview

- The OR3O Dual Mobility System is a new modular system designed for use in patients at risk of instability following THA, available from January 2020 in the US
- This report presents preliminary, 3-month results from a single centre (Hospital for Special Surgery, New York, US) taking part in a multicentre, 2-year, retrospective study of OR3O Dual Mobility System for primary and revision THA
- Twenty-six patients (mean age 69; female 69.2%)
  - 25 primary THA, 1 revision THA
- Endpoints included:
  - Implant survivorship (revision for any reason) at 3 months
  - Patient reported outcome measures (Harris Hip Score [HHS] and Hip Disability and Osteoarthritis Outcome Score [HOOS] Jr) at baseline, 6 weeks and 3 months
  - Device deficiencies during surgery and serious adverse events

Results

- Both mean HOOS Jr (Table) and median HHS values (Figure) improved from baseline at 6 weeks and 3 months follow-up
- 100% survivorship at 3 months
- No adverse events reported (including malseating, dislocation or re-admission)

Table. Mean HOOS Jr scores reported at baseline, 6 weeks and 3 months postoperatively

	Baseline	6 weeks	3 months
Mean	56.5	83.1	85.7
Range	37.7–77.8	58.9–100	58.9–100

Minimum score, 0; maximum score, 100

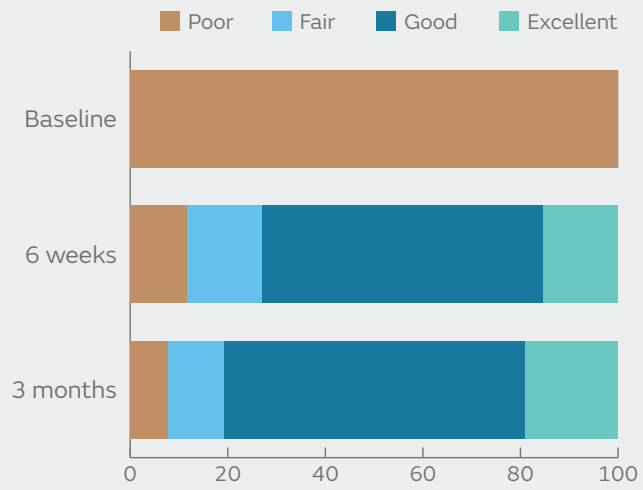

Figure. Median HHS values at baseline, 6 weeks and 3 months post operatively (HHS <70 [poor], 70-79 [fair], 80-89 [good] and 90-100 [excellent])

Conclusions

Interim results following OR3O Dual Mobility System implantation show marked improvements in HHS and HOOS Jr at 3 months compared with baseline scores with no adverse events or revisions reported in THA.

Considerations

The clinical study report summarises unpublished findings from an ongoing clinical trial and may not necessarily reflect the final study results.

Data on file: Smith+Nephew 2020. Clinical Activity Report - TMP042

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28651 V1 0221. Published February 2021.

Developed by Evidence Communications, Global Clinical & Medical Affairs
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