

Does Total Hip Arthroplasty in Paediatric Patients Improve their Quality of Life?

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Background

- THA in a child is complex and the surgery challenging
- Pre-operatively patients' typically have significant pain and mobility restriction
- Little is published on the functional gains after THA in this group
- The aim of this study was therefore to measure the impact THA had on the PROMS in our young patients undergoing THA
 - To determine QoL improvement.







Methods

- This was a prospective, consecutive cohort study
- Patients under the age of 17 years undergoing THA
 - All operations joint cases Arthroplasty surgeon & Paediatric Orthopod, undertaken at Royal Manchester Childrens' Hospital
- Data
 - Patient electronic notes
 - Radiographs
 - PROMS (EQ5D-Y, Oxford Hip Score (OHS) and modified Harris Hip Score (mHHS))

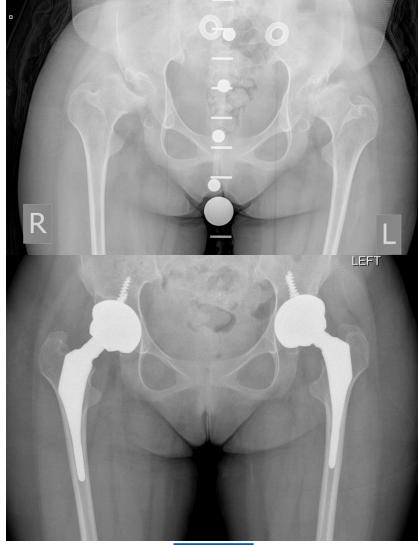






Results

- 12 children (8 females and 4 males)
 - THA before their 17th birthday
 - 5 undergoing bilateral
 - 17 THA total
- Mean age was 14.6 years (10.75-16.9)
- Mean follow-up 1.7 years
- Nine of the THA for congenital syndromes
 - 4 for AVN
 - 2 for Perthes disease
 - 1 for dysplasia and idiopathic chondrolysis



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Results

All patients achieved MCID or higher for OHS

Mean	OHS	EQ VAS	mHHS
Pre-op	15 (1-33)	35 (8-100)	25 (0-56)
6 weeks post-op	31(19-39)	73 (55-96)	60 (37-92)
1 year post-op	44 (42-46)	84 (76-96)	65 (38-84)
3 years post-op	48 (47-48)	92 (76 -100)	91 (91)

- 6 patients were wheelchair users preop
 - All patients were independent walkers at follow-up
- There were no complications

Quote from Lily's Mum

"....this was the first time she had really messed around on the beach with her friends, previously she would have remained sat on a blanket watching. And she certainly would never have been in a position to bend and stretch and balance to help decorate! Sleepovers at friends had become a distant memory until this point as well, now I can't keep her at home as she no longer has to worry about climbing stairs and sleeping on floors etc! Standing to cook was a revelation to her as well as previously she would have done it sitting at the table. They are all little things but the difference to the quality of life both for her and for us as a family has been truly immeasurable...."









Summary

THA in children is safe

- It positively impacts on QoL
 - Validated with PROMS scores
- Wheelchair users can reliably gain independent walking
- Further follow-up is required understand the long-term outcomes



