

Evidence in focus

POLARSTEM[◊] cementless stem and R3[◊] cementless cup demonstrate higher than class average improvements in patient reported outcome measures (PROMs)



Supporting healthcare professionals

Few would argue the success of modern hip replacement surgery, but as many as **10% of patients remain unsatisfied** following total hip arthroplasty (THA).¹ Increasing **patient satisfaction** is not only important for patient quality of care, but also for payers, as evidence has shown that **improving patient satisfaction** may lead to higher hospital reimbursement rates and increased patient loyalty.^{2,3}

Based on data collected by the National Joint Registry for England, Wales and Northern Ireland (NJR) and PROMs data collected by NHS Digital*, outcomes associated with both POLARSTEM cementless stem and R3 cementless cup are shown below.^{4,5}

At 6 months post THA, patients were asked to measure how satisfied they were with their THA

Question: How would you describe the results of your operation?

Overall, patients who received POLARSTEM cementless stem or R3 cementless cup felt **significantly more satisfied (p<0.001; Figure)** with their THA than those who had received other cementless stems or cementless cups, respectively.^{4,5}

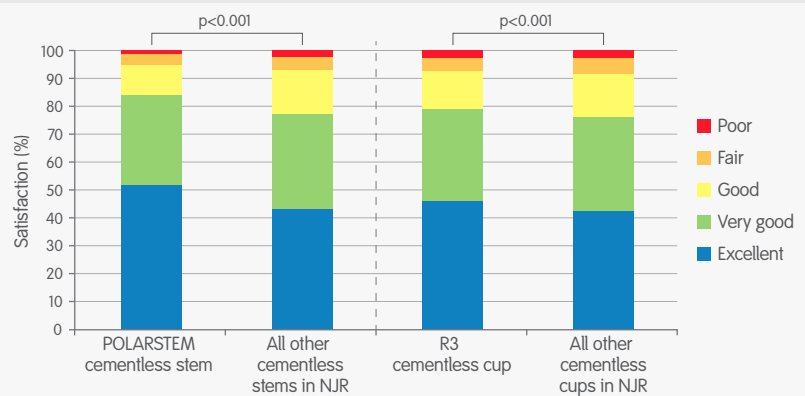


Figure. Answer to 6-months general health question: How would you describe the results of your operation?

PROMs data (Oxford Hip Score, EQ-5D and EQ-VAS) were collected pre THA and 6 months post THA

Patients who received POLARSTEM cementless stem or R3 cementless cup reported **significantly better PROMs (p<0.001; Table)** than the class average for cementless stems or cementless cups, respectively.^{4,5}

PROMs	POLARSTEM cementless stem	All NJR cementless stems	p value	R3 cementless cup	All NJR cementless cups	p value
Oxford Hip Score	22.6	21.2	p<0.001	21.9	21.4	p<0.001
EQ-5D	0.461	0.434		0.448	0.438	
EQ-VAS	13.9	11.4		12.8	11.6	

Table. Adjusted health gain scores at 6 months post THA.^{4,5} Using case-mix adjusted scores allows for a more accurate comparison between groups by taking into account variations in patient characteristics.

These data follow the **best in registry survivorship** of any stem-cup combination at 7 years, regardless of fixation method, as well as **excellent ODEP ratings**.^{6,7}



POLARSTEM-R3 combination survivorship⁶



7A* ODEP rating for POLARSTEM cementless stem and 10A* for R3 cementless cup⁷

*NHS Digital is the national (England) information and technology partner to the health and care system. It collects PROMs for patients undergoing elective inpatient surgery for hip and knee replacement⁸

References

1. Varacallo M, Chakravarty R, Denehy K, Star A. Joint perception and patient perceived satisfaction after total hip and knee arthroplasty in the American population. *J Orthop.* 2018;15:495-499.
2. Lyu H, Wick E, Housman M, Freischlag J, Makary M. Patient satisfaction as a possible indicator of quality surgical care. *JAMA Surg.* 2013;148:362-367.
3. Otani K, Waterman B, Faulkner K, Boslaugh S, Burroughs T, Dunagan W. Patient satisfaction: focusing on "excellent". *J Healthc Manag.* 2009;54:93-102.
4. National Joint Registry for England, Wales and Northern Ireland: POLARSTEM cementless implant summary report. 20 November 2018.
5. National Joint Registry for England, Wales and Northern Ireland: R3 cementless summary report. 18 November 2018.
6. National Joint Registry for England, Wales and Northern Ireland: 15th Annual Report. Available at <http://www.njrcentre.org.uk/njrcentre>. Accessed 30 November 2018.
7. Orthopaedic Data Evaluation Panel (ODEP). Available at <http://www.odep.org.uk>. Accessed 3 January 2019.
8. NHS Digital. Available at <https://digital.nhs.uk>. Accessed 30 November 2018.