

BHR in Hip registries 2018

National hip registries have demonstrated good to excellent, medium to long-term survivorship results with certain HRA designs such as the Birmingham Hip Resurfacing (BHR; Smith&Nephew PLC, London, UK). In the Australian Joint Registry (AOAJRR) 2018 report[12] the cumulative survival at 10 and 15 years of the BHR (all genders, all diagnoses) was respectively 93.3% (95%CI:92.8-93.7%) and 90.0% (95%CI:89.3-90.7%); the National Joint Registry (UK NJR) Annual Report 2018[13] reported a 92.05% (95%CI:91.63-92.44%) cumulative survival of the BHR at 10 years and 88.98% (95%CI:88.32-89.60%) at 14 years (all cases); and the SHR[1] reported 98,4% (95%CI:97.7-99.2%) 10-year HRA survival in osteoarthritis (OA) (revisions for aseptic loosening). The national registries have also confirmed significantly better results from experienced high-volume centers compared to low-volume centers [14,15] corroborating the importance of adequate surgical technique and correct component positioning as one of the major factors in the outcome of HRA. Moreover, superior functional and activity results[16], closer to normal gait patterns[17], and significantly lower mortality rates[18,19] were reported with HRA compared to THA.

REFERENCES:

1. The Swedish Hip Arthroplasty Register. Annual Report 2016 DOI: 10.18158/SJy6jKyrM from the website shpr.registercentrum.se last consulted on March 15, 2019.
12. Australian Orthopaedic Association National Joint Replacement Registry (AOANJRR). Hip, Knee & Shoulder Arthroplasty: 2018 Annual Report. Adelaide: AOA, 2018 at www.aoa.org.au last visited on March 15, 2019.
13. The National Joint Registry for England, Wales, Northern Ireland and the Isle of Man 15th Annual report 2018. PDF for download from website www.njrreports.org.uk ; last visited on March 15, 2019.
<http://www.njrreports.org.uk/Portals/0/PDFdownloads/NJR%2015th%20Annual%20Report%202018.pdf>
14. Matharu GS, Pandit HG, Murray DW, Treacy RB. The future role of metal-on-metal hip resurfacing. *Int Orthop*. 2015 Oct;39(10):2031-6. doi: 10.1007/s00264-015-2692-z. Epub 2015 Feb 24
15. Van Der Straeten C, De Smet KA. Current expert views on metal-on-metal hip resurfacing arthroplasty. Consensus of the 6th Advanced Hip Resurfacing course, Ghent, Belgium, May 2014. *Hip Int*. 2016 Jan-Feb;26(1):1-7. doi: 10.5301/hipint.5000288. Epub 2015 Oct 6. Review.
16. Haddad FS, Konan S, Tahmassebi J. A prospective comparative study of cementless total hip arthroplasty and hip resurfacing in patients under the age of 55 years A Ten-Year Follow-Up. *Bone Joint J*. 2015; 97-B: 617–22.
17. Aqil A, Drabu R, Bergmann J, Masjedi M, Manning V, Andrews B, Muirhead-Allwood SK, Cobb JP. The gait of patients with one resurfacing and one replacement hip: a single blinded controlled study.. 2013 May; 37(5): 795–801
18. Kendal AR, Prieto-Alhambra D, Arden NK, Carr A, Judge A. Mortality rates at 10 years after metal-on-metal hip resurfacing compared with total hip replacement in England: retrospective cohort analysis of hospital episode statistics. *BMJ*. 2013 Nov 27;347:f6549. doi: 10.1136/bmj.f6549.
19. Brooks PJ, Samuel LT, Levin JM, Sultan AA, Khlopas A, Brigati D, Ng M, Greenwald S, Mont M. Mortality after hip resurfacing versus total hip arthroplasty in young patients: a single surgeon experience. *Ann Transl Med* 2019; 7(4); 77.