



National Joint Registry

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Working for patients, driving forward quality



HIPS



KNEES



ANKLES



ELBOWS



SHOULDERS



PROMs

List of papers, publications, and research requests using NJR data to March 2017

Appendix 4

14th Annual Report

2017

National Joint Registry
for England, Wales,
Northern Ireland and
the Isle of Man

Surgical data to 31 December 2016

NJR Research Fellows – 2011 to 2017

NJR/RCS Surgical Research Fellow	Richard Craig
Term	May 2016 – ongoing
Host institution	University of Oxford
Area of study	Shoulder surgery
Study title	'Improving Outcomes of Shoulder Joint Replacement Surgery'.
Thesis title/Date of award	Ongoing

NJR/RCS Surgical Research Fellow	Tanvir Khan
Term	August 2015 – October 2017
Host institution	University of Nottingham
Area of study	Revision arthroplasty surgery
Study title	'Periprosthetic Fractures around the hip and knee: Predictors, outcomes of surgical treatment and socioeconomic impact'.
Thesis title/Date of award	Ongoing

MRC/NJR Research Fellow	Adrian Sayers
Term	August 2014 – ongoing
Host institution	University of Bristol
Area of study	Improvement to patient outcomes after joint replacement surgery
Study title	'Femoral: Factors affecting mortality, morbidity and patient outcomes after joint replacement surgery'.
Thesis title/Date of award	Ongoing

NJR/RCS Surgical Research Fellow	Jeya Palan
Term	16 months (1 April 2013 – 31 July 2014)
Host institution	University of Oxford & University Hospitals of Leicester NHS Trust
Area of study	Elective orthopaedics; Hip and knee osteoarthritis
Study title	'An analysis of surgical outliers following unicompartmental knee replacements'.
Thesis title/Date of award	Ongoing

NJR Research Fellow	Simon Jameson
Term	16 months (18 April 2011 – 31 July 2012)
Host institution	Durham University
Area of study	Risk of revision following different types of primary hip replacement Patient reported outcomes measures following different types of primary hip replacement Effect of BMI on patient reported outcomes Effect of surgical approach on patient reported outcomes Comparison of statistical models for implant survival analyses
Thesis title/Date of award	PhD (Durham University - Awarded December 2015) Thesis title: 'Rationalisation of primary hip replacement using evidence from linked national databases'.

NJR Research Fellow	Paul Baker
Term	12 months (18 April 2011 – 17 April 2012)
Host institution	Health Education North East (HENE)
Area of study	Patient reported outcome measures (PROMS) and reason for revision following total knee replacement and unicompartmental knee replacement procedures Analysis of revision knee arthroplasty in England and Wales Assessment of dissatisfaction following primary knee arthroplasty
Thesis title/Date of award	MD (Newcastle University – Awarded March 2014) Thesis Title 'Analysis of knee replacements using data from the National Joint Registry for England and Wales'.

Cumulative longlist of published papers and data releases

This appendix provides details of published analyses and data releases that have been sanctioned by the NJR Research Sub-committee between April 2010 and March 2017. NJR data is available for research purposes following approval by the NJR Research Sub-committee. For further details please visit the NJR website at www.njrcentre.org.uk.

Published papers (April 2016 – March 2017)

Rates of hip and knee joint replacement amongst different ethnic groups in England: an analysis of National Joint Registry data.

MC Smith, Y Ben-Shlomo, P Dieppe, AD Beswick, AO Adebajo, JM Wilkinson, AW Blom.
Osteoarthritis Cartilage. 2017 Apr;25(4):448-454. doi: 10.1016/j.joca.2016.12.030. Epub 2017 Jan 31.

The choice between hip prosthetic bearing surfaces in total hip replacement: a protocol for a systematic review and network meta-analysis.

EMR Marques, R Humphriss, NJ Welton, JPT Higgins, W Hollingworth, JA Lopez-Lopez, H Thom, LP Hunt, AW Blom, AD Beswick.
Systematic Reviews 2016 5:19 DOI: 10.1186/s13643-016-0189-5.

Quality measures for total ankle replacement, 30-day readmission and reoperation rates within 1 year of surgery: a data linkage study using the NJR data set.

R Zaidi, A Macgregor, S Cro, A Goldberg.
BMJ Open, Volume 6, Issue 4 2016;6:e011332. doi: 10.1136/bmjopen-2016-011332.

Intraoperative complications during revision shoulder arthroplasty: a study using the National Joint Registry dataset.

HM Ingoe, P Holland, P Cowling, L Kottam, PN Baker, A Rangan.
Shoulder Elbow. 2017 Apr;9(2):92-99. doi: 10.1177/1758573216685706. Epub 2017 Jan 4.

Main cause of death following primary total hip and knee replacement for osteoarthritis; A study of 26,766 deaths following 332,734 hip replacements and 29,802 deaths following 384,291 knee replacements performed between 2003 and 2012 using data from the National Joint Registry for England and Wales.

LP Hunt, Y Ben-Shlomo, MR Whitehouse, ML Porter, AW Blom.
J Bone Joint Surg Am. 2017 Apr 5;99(7):565-575. doi: 10.2106/JBJS.16.00586.

Adverse reactions to metal debris occur with all types of hip replacement not just metal-on-metal hips: a retrospective observational study of 3340 revisions for adverse reactions to metal debris from the National Joint Registry for England, Wales, Northern Ireland and the Isle of Man.

GS Matharu, HG Pandit, DW Murray, A Judge.
BMC Musculoskeletal Disorders (2016) 17:495 DOI 10.1186/s12891-016-1329-8.

Erratum to: Does laminar airflow make a difference to the infection rates for lower limb arthroplasty: a study using the National Joint Registry and local surgical site infection data for two hospitals with and without laminar airflow.

S Singh, S Reddy, R Shrivastava.

R. Eur J Orthop Surg Traumatol February 2017, Volume 27, Issue 2, pp 261–265. DOI 10.1007/s00590-016-1875-7.

New Joints: Private providers and rising demand in the English National Health Service.

E Kelly, G Stoye.

IFS Working Paper 10.1920/wp.ifs.2016.1615 August 2016.

Pulmonary embolism and mortality following total ankle replacement: a data linkage study using the NJR dataset.

R Zaidi, A Macgregor, S Cro, A Goldberg.

BMJ Open Volume 6, Issue 6 2016;6:e011947. DOI; 10.1136/bmjopen-2016-011947.

Total ankle replacement survival rates based on Kaplan-Meier Survival Analysis on National Joint Registry Data.

AF Bartel, TS Roukis.

Clin Podiatr Med Surg. 2015 Oct;32(4):483-94. doi: 10.1016/j.cpm.2015.06.012. Epub 2015 Jul 30.

The influence of cemented femoral stem choice on the incidence of revision for periprosthetic fracture after primary total hip arthroplasty; an analysis of national joint registry data.

J Palan, MC Smith, P Gregg, S Mellon, A Kulkarni, K Tucker, AW Blom, DW Murray, H Pandit.

Bone Joint J. 2016 Oct; 98-B(10):1347-1354.

Blood metal ions after hybrid metal-on-polyethylene Exeter-Trident total hip replacement.

R Singh, G Manoharan, P Craig, S Collier, P Shaylor, A Sinha.

J Orthop Traumatol. 2016 Jun; 17(2):149-53. doi: 10.1007/s10195-015-0369-4. Epub 2015 Jul 24.

Published papers (April 2015 – March 2016)

Good outcome of total hip replacement in patients with cerebral palsy.

King G, Hunt LP, Wilkinson JM, Blom AW; Acta Orthop. 2016 Apr;87(2):93-9. doi:

10.3109/17453674.2015.1137439. Epub 2016 Feb 10.

Cost-Effectiveness of Five Commonly Used Prosthesis Brands for Total Knee Replacement in the UK: A Study Using the NJR Dataset.

Pennington M, Grieve R, Black N, van der Meulen JH; PLoS One. 2016 Mar 4;11(3):e0150074. doi: 10.1371/journal.pone.0150074. eCollection 2016. PMID: 26943789.

Comparative Results From a National Joint Registry Hip Data Set of a New Cross-Linked Annealed Polyethylene vs Both Conventional Polyethylene and Ceramic Bearings.

Epinette JA, Jolles-Haeberli BM. J Arthroplasty. 2016 Mar 23. pii: S0883-5403(16)00008-5. doi: 10.1016/j.arth.2015.12.041. PMID:27017205.

Analysis of causative microorganism in 248 primary hip arthroplasties revised for infection: a study using the NJR dataset.

Holleyman RJ, Baker PN, Charlett A, Gould K, Deehan DJ. Hip Int. 2016 Feb 8;26(1):82-9. doi: 10.5301/hipint.5000313. Epub 2016 Jan 27. PMID:26821692.

Effect of Surgical Caseload on Revision Rate Following Total and Unicompartmental Knee Replacement.

Liddle AD, Pandit H, Judge A, Murray DW. J Bone Joint Surg Am. 2016 Jan 6;98(1):1-8. doi: 10.2106/JBJS.N.00487.

Are all metal-on-metal hip revision operations contributing to the National Joint Registry implant survival curves?: a study comparing the London Implant Retrieval Centre and National Joint Registry datasets.

Sabah SA, Henckel J, Koutsouris S, Rajani R, Hothi H, Skinner JA, Hart AJ. Bone Joint J. 2016 Jan;98-B(1):33-9. doi: 10.1302/0301-620X.98B1.36431. PMID:26733513.

Deep prosthetic joint infection: a qualitative study of the impact on patients and their experiences of revision surgery.

Andrew J Moore, Ashley W Blom, Michael R Whitehouse, and Rachael Gooberman-Hill BMJ Open. 2015; 5(12): e009495. Published online 2015 Dec 7. doi: 10.1136/bmjopen-2015-009495 PMCID: PMC4679895.

Does pre-operative sampling predict intra-operative cultures and antibiotic sensitivities in knee replacements revised for infection?: a study using the NJR dataset.

Holleyman RJ, Deehan DJ, Charlett A, Gould K, Baker PN. Knee Surg Sports Traumatol Arthrosc. 2015 Nov 26. [Epub ahead of print] PMID:26611900.

Implant Optimisation for Primary Hip Replacement in Patients over 60 Years with Osteoarthritis: A Cohort Study of Clinical Outcomes and Implant Costs Using Data from England and Wales.

Simon S. Jameson, James Mason, Paul N. Baker, Paul J. Gregg, David J. Deehan, and Mike R. Reed PLoS One. 2015; 10(11): e0140309. Published online 2015 Nov 12. doi: 10.1371/journal.pone.0140309 PMCID: PMC4643061.

Optimal usage of unicompartmental knee arthroplasty: a study of 41,986 cases from the National Joint Registry for England and Wales.

Liddle AD, Pandit H, Judge A, Murray DW. Bone Joint J. 2015 Nov;97-B(11):1506-11. doi: 10.1302/0301-620X.97B11.35551.

Mixing of components from different manufacturers in total hip arthroplasty: prevalence and comparative outcomes.

Tucker K, Pickford M, Newell C, Howard P, Hunt LP, Blom AW. Acta Orthop. 2015;86(6):671-7. doi: 10.3109/17453674.2015.1074483. Epub 2015 Sep 1.

Patient-reported outcomes following total and unicompartmental knee replacement: a study of 14,076 matched patients from the National Joint Registry for England and Wales.

Liddle, A et al. Published Bone Joint J. 2015 Jun;97-B(6):793-801. doi: 10.1302/0301-620X.97B6.35155. PMID: 26033059.

Lifetime cost effectiveness of different brands of prosthesis used for total hip arthroplasty: a study using the NJR dataset.

Pennington MW, Grieve R, van der Meulen JH. Bone Joint J. 2015 Jun;97-B(6):762-70. doi: 10.1302/0301-620X.97B6.34806.

Published papers (April 2014 – March 2015)

Cost effectiveness of total hip arthroplasty in osteoarthritis: comparison of devices with differing bearing surfaces and modes of fixation.

R Pulikottil-Jacob, M Cannock, NB Kandala, H Mistry, A Grove, K Freeman, M Costa, P Sutcliffe, A Clarke. Bone Joint J. 2015 Apr;97-B(4):449-57.

The Epidemiological and Financial Burden of Revision Total Knee and Hip Arthroplasty in England and Wales. A comparative analysis to U.S projections: A study using the NJR dataset.

Toms, A et al. BMJ. 2015 Mar 9;350:h756. doi: 10.1136/bmj.h756. Bone Joint J. 2015 Jan;97-B(1):10-8. doi: 10.1302/0301-620X.97B1.35279.

Setting benchmark revision rates for total hip replacement: analysis of registry evidence.

Kandala NB¹, Connock M¹, Pulikottil-Jacob R¹, Sutcliffe P¹, Crowther MJ², Grove A¹, Mistry H¹, Clarke A³. BMJ. 2015 Mar 9;350:h756. doi: 10.1136/bmj.h756.

Microorganisms responsible for periprosthetic knee infections in England and Wales.

Holleyman RJ, Baker P, Charlett A, Gould K, Deehan DJ; 9 February 2015; European Society of Sports Traumatology, Knee Surgery, Arthroscopy (ESSKA) 2015.

No functional benefit of larger femoral heads and alternative bearings at 6 months following primary hip replacement.

Jameson SS, Mason JM, Baker PN, Gregg PJ, Deehan DJ, Reed MR. Acta Orthop. 2015 Feb;86(1):32-40. doi: 10.3109/17453674.2014.972259. Epub 2014 Oct 10.

Have cementless and resurfacing components improved the medium-term results of hip replacement for patients under 60 years of age?

Jameson SS, Mason J, Baker P, Gregg PJ, Porter M, Deehan DJ, Reed MR. Acta Orthop. 2015 Feb;86(1):7-17. doi: 10.3109/17453674.2014.972256. Epub 2014 Oct 6.

Total hip replacement and surface replacement for the treatment of pain and disability resulting from end-stage arthritis of the hip (review of technology appraisal guidance 2 and 44): systematic review and economic evaluation.

Health Technol Assess. 2015 Jan;19(10):1-668. doi: 10.3310/hta19100.

Validation of primary metal-on-metal hip arthroplasties on the National Joint Registry for England, Wales and Northern Ireland using data from the London Implant Retrieval Centre: a study using the NJR dataset.

Sabah SA, Henckel J, Cook E, Whittaker R, Hothi H, Pappas Y, Blunn G, Skinner JA, Hart AJ. Bone Joint J. 2015 Jan;97-B(1):10-8. doi: 10.1302/0301-620X.97B1.35279.

Adverse outcomes after total and unicompartmental knee replacement in 101,330 matched patients: a study of data from the National Joint Registry for England and Wales.

Liddle AD, Judge A, Pandit H, Murray DW. Lancet. 2014 Oct 18;384(9952):1437-45. PMID:25012116.

45-day mortality after 467,779 knee replacements for osteoarthritis from the National Joint Registry for England and Wales: an observational study.

Hunt LP, Ben-Shlomo Y, Clark EM, Dieppe P, Judge A, MacGregor AJ, Tobias JH, Vernon K, Blom AW; National Joint Registry for England and Wales. Lancet. 2014 Oct 18;384(9952):1429-36.

The impact of body mass index on patient reported outcome measures (PROMs) and complications following primary hip arthroplasty.

Jameson SS, Mason JM, Baker PN, Elson DW, Deehan DJ, Reed MR. J Arthroplasty. 2014 Oct;29(10):1889-98. doi: 10.1016/j.arth.2014.05.019. Epub 2014 Jun 2.

Mortality following hip arthroplasty – inappropriate use of National Joint Registry (NJR) data.

Whitehouse SL, Bolland BJ, Howell JR, Crawford RW, Timperley AJ. J Arthroplasty. 2014 Sep;29(9):1827-34. doi: 10.1016/j.arth.2014.04.022. Epub 2014 Apr 24.

Determinants of revision and functional outcome following unicompartmental knee replacement.

Liddle AD, Judge A, Pandit H, Murray DW. Osteoarthritis Cartilage. 2014 Sep;22(9):1241-50. doi: 10.1016/j.joca.2014.07.006. Epub 2014 Jul 17.

Published papers (April 2013 – March 2014)

Patient satisfaction with total knee replacement cannot be predicted from pre-operative variables alone: A cohort study from the National Joint Registry for England and Wales.

Baker PN, Rushton S, Jameson SS, Reed M, Gregg P, Deehan DJ. Bone Joint J. 2013 Oct 1;95-B(10):1359-1365.

90-day mortality after 409,096 total hip replacements for osteoarthritis, from the National Joint Registry for England and Wales: a retrospective analysis.

Hunt LP, Ben-Shlomo Y, Clark EM, Dieppe P, Judge A, MacGregor AJ, Tobias JH, Vernon K, Blom AW; National Joint Registry for England, Wales and Northern Ireland. Lancet. 2013 Sep 28;382(9898):1097-104. doi: 10.1016/S0140-6736(13)61749-3.

Functional outcome, revision rates and mortality after primary total hip replacement – a national comparison of nine prosthesis brands in England.

Pennington M, Grieve R, Black N, van der Meulen JH. PLoS One. 2013 Sep 4;8(9):e73228. doi: 10.1371/journal.pone.0073228.

Patterns of Risk of Cancer in Patients with Metal-on-Metal Hip Replacements versus Other Bearing Surface Types: A Record Linkage Study between a Prospective Joint Registry and General Practice Electronic Health Records in England.

Lalmohamed A, MacGregor AJ, de Vries F, Leufkens HG, van Staa TP. PLoS One. 2013 Jul 4;8(7):e65891. doi: 10.1371/journal.pone.0065891.

Early PROMs Following Total Knee Arthroplasty – Functional Outcome Dependent on Patella Resurfacing.

Baker PN, Petheram T, Dowen D, Jameson SS, Avery PJ, Reed MR, Deehan DJ. J Arthroplasty. 2013 Jun 12. pii: S0883-5403(13)00372-0. doi: 10.1016/j.arth.2013.05.001. [Epub ahead of print]

A Comparison of Surgical Approaches for Primary Hip Arthroplasty: A Cohort Study of Patient Reported Outcome Measures (PROMs) and Early Revision Using Linked National Databases.

Jameson SS, Mason J, Baker P, Gregg PJ, McMurtry IA, Deehan DJ, Reed MR. J Arthroplasty. 2013 Jun;29(6):1248-1255.e1. doi: 10.1016/j.arth.2013.11.027. Epub 2013 Dec 4.

Published papers (April 2012 – March 2013)

Factors Influencing Revision Risk Following 15,740 Single-Brand Hybrid Hip Arthroplasties: A Cohort Study From a National Joint Registry.

Jameson SS, Mason JM, Baker PN, Jettou P, Deehan DJ, Reed MR. J Arthroplasty. 2013 Mar 21. pii: S0883-5403(13)00108-3. doi: 10.1016/j.arth.2012.11.021.

Cemented, cementless and hybrid prostheses for total hip replacement: a cost-effectiveness analysis.

Pennington M, Grieve R, Sekhon JS, Gregg PJ, Black N, van der Meulen JH. BMJ. 2013 Feb 27;346:f1026. doi: 10.1136/bmj.f1026.

Mid-term survival following primary hinged total knee replacement is good irrespective of the indication for surgery.

Baker P, Critchley R, Gray A, Jameson S, Gregg P, Port A, Deehan D. Knee Surg Sports Traumatol Arthrosc. 2012 Dec 14.

Mid-term equivalent survival of medial and lateral unicondylar knee replacement: an analysis of data from a National Joint Registry.

Baker PN, Jameson SS, Deehan DJ, Gregg PJ, Porter M, Tucker K. J Bone Joint Surg Br. 2012 Dec;94(12):1641-8. doi: 10.1302/0301-620X.94B12.29416.

The design of the acetabular component and size of the femoral head influence the risk of revision following 34,721 single-brand cemented hip replacements: a retrospective cohort study of medium-term data from a National Joint Registry.

Jameson SS, Baker PN, Mason J, Gregg PJ, Brewster N, Deehan DJ, Reed MR. J Bone Joint Surg Br. 2012 Dec;94(12):1611-7. doi: 10.1302/0301-620X.94B12.30040.

Failure rates of metal-on-metal hip resurfacings: analysis of data from the National Joint Registry for England and Wales.

Smith AJ, Dieppe P, Howard PW, Blom AW; National Joint Registry for England and Wales. Lancet. 2012 Nov 17;380(9855):1759-66. doi: 10.1016/S0140-6736(12)60989-1.

Patient and implant survival following 4323 total hip replacements for acute femoral neck fracture: a retrospective cohort study using National Joint Registry data.

Jameson SS, Kyle J, Baker PN, Mason J, Deehan DJ, McMurtry IA, Reed MR. J Bone Joint Surg Br. 2012 Nov;94(11):1557-66. doi: 10.1302/0301-620X.94B11.29689.

Revision following patello-femoral arthroplasty.

Baker PN, Refaie R, Gregg P, Deehan D. Knee Surg Sports Traumatol Arthrosc. 2012 Oct;20(10):2047-53.

Revision for unexplained pain following unicompartmental and total knee replacement.

Baker PN, Petheram T, Avery PJ, Gregg PJ, Deehan DJ. J Bone Joint Surg Am. 2012 Sep 5;94(17):e126.

The association between body mass index and the outcomes of total knee arthroplasty.

Baker P, Petheram T, Jameson S, Reed M, Gregg P, Deehan D. J Bone Joint Surg Am. 2012 Aug 15;94(16):1501-8.

Reason for revision influences early patient outcomes after aseptic knee revision.

Baker P, Cowling P, Kurtz S, Jameson S, Gregg P, Deehan D. Clin Orthop Relat Res. 2012 Aug;470(8):2244-52. doi: 10.1007/s11999-012-2278-7.

The effect of surgical factors on early patient-reported outcome measures (PROMs) following total knee replacement.

Baker PN, Deehan DJ, Lees D, Jameson S, Avery PJ, Gregg PJ, Reed MR. J Bone Joint Surg Br. 2012 Aug;94(8):1058-66. doi: 10.1302/0301-620X.94B8.28786.

The effect of aspirin and low molecular weight heparin on venous thromboembolism after knee replacement: A non-randomised comparison using National Joint Registry data.

Jameson SS, Baker PN, Charman SC, Deehan DJ, Reed MR, Gregg PJ, van der Meulen JH. J Bone Joint Surg Br. 2012 Jul;94(7):914-8.

Comparison of patient-reported outcome measures following total and unicondylar knee replacement.

Baker PN, Petheram T, Jameson SS, Avery PJ, Reed MR, Gregg PJ, Deehan DJ. J Bone Joint Surg Br. 2012 Jul;94(7):919-27.

Patient Reported Outcome Measures after revision of the infected TKR: Comparison of single versus two-stage revision.

Baker P, Petheram TG, Kurtz S, Konttinen YT, Gregg P, Deehan D. Knee Surg Sports Traumatol Arthrosc. 2012 June 13.

Independent predictors of revision following metal-on-metal hip resurfacing: A retrospective cohort study using National Joint Registry data.

Jameson SS, Baker PN, Mason J, Porter ML, Deehan DJ, Reed MR. J Bone Joint Surg Br. 2012 Jun;94(6):746-54.

Risk of cancer in first seven years after metal-on-metal hip replacement compared with other bearings and general population: Linkage study between the National Joint Registry for England and Wales and hospital episode statistics.

Smith AJ, Dieppe P, Porter M, Blom AW; National Joint Registry of England and Wales. BMJ. 2012 Apr 3;344:e2383. doi: 10.1136/bmj.e2383.

Total hip replacement for the treatment of acute femoral neck fractures: results from the National Joint Registry of England and Wales at 3-5 years after surgery.

Stafford GH, Charman SC, Borroff MJ, Newell C, Tucker JK. Ann R Coll Surg Engl. 2012 Apr;94(3):193-8. doi: 10.1308/003588412X13171221589720.

Published papers (April 2011 – March 2012)**Indications for early hip revision surgery in the UK – a re-analysis of NJR data.**

Bolland BJ, Whitehouse SL, Timperley AJ. Hip Int. 2012 Mar-Apr;22(2):145-52. doi: 10.5301/HIP.2012.9184.

Failure rates of stemmed metal-on-metal hip replacements: Analysis of data from the National Joint Registry of England and Wales.

Smith AJ, Dieppe P, Vernon K, Porter M, Blom AW; National Joint Registry of England and Wales. Lancet. 2012 Mar 31;379(9822):1199-204. Epub 2012 Mar 13.

Reason for Revision Influences Early Patient Outcomes After Aseptic Knee Revision.

Baker P, Cowling P, Kurtz S, Jameson S, Gregg P, Deehan D. Clin Orthop Relat Res. 2012 Feb 22. [Epub ahead of print].

Revision following patello-femoral arthroplasty.

Baker PN, Refaie R, Gregg P, Deehan D. Knee Surg Sports Traumatol Arthrosc. 2012 Jan 7. [Epub ahead of print].

The Safety and Efficacy of Large-Diameter Metal-on-Metal Total Hip Arthroplasty.

Heeckt P, Moore C, Miller R. Bone and Joint Science. Vol 02, No 06 - May 2011.

Published papers prior to March 2011**Can choices between alternative hip prostheses be evidence based? A review of the economic evaluation literature.**

Davies C, Lorgelly P, Shemilt I, Mugford M, Tucker K, Macgregor A. Cost Eff Resour Alloc. 2010 Oct 29;8:20.

Which prostheses are cost-effective?

Lorgelly P, Davies C, Shemilt I, Mugford M, MacGregor A. Knee. 2009 Dec;16(6):419.

Revision rates after primary hip and knee replacement in England between 2003 and 2006.

Sibanda N, Copley LP, Lewsey JD, Borroff M, Gregg P, MacGregor AJ, Pickford M, Porter M, Tucker K, van der Meulen JH; Steering Committee of the National Joint Registry (NJR) for England and Wales PLoS Med. 2008 Sep 30;5(9):e179. Epub 2008 Sep 2.

The role of pain and function in determining patient satisfaction after total knee replacement.

Baker PN, van der Meulen JH, Lewsey J, Gregg PJ; National Joint Registry for England and Wales J Bone Joint Surg Br. 2007;89(7):893-900.

Research requests sanctioned by RSC using NJR data

Research requests (April 2016 – March 2017)

Acetabular cup geometry and revision risk for TKR following primary THR.

Hiren Divecha, Wrightington Hospital
February 2017

Temporal trends in the use of, and survivorship rates, of Total Hip Replacement in the Very Young Patient.

Daniel Perry, University of Liverpool
January 2017

The Influence of Body Mass Index on Microarchitecture and Bone Remodelling of Subchondral Bone in Knee Osteoarthritis Patients.

David Wood, Perth Orthopaedic Institute
December 2016

Does the use of trabecular metal acetabular components reduce the subsequent risk of revision following primary and revision total hip replacement?

Hemant Pandit, University of Oxford
December 2016

Risk-benefit and costs of unicompartmental (compared to total) knee replacement for patients with multiple co-morbidities: a non-randomised study, and different novel approaches to minimise confounding.

Daniel Prieto-Alhambra, University of Oxford
October 2016

Outcomes following total hip replacements (THRs) for paediatric orthopaedic conditions.

Sattar Alshryda, Royal Manchester Children's Hospital
October 2016

The role of hospital organisation, surgical factors, and the enhanced recovery pathway, on patient outcomes and NHS costs following primary hip and knee replacement surgery: spatial and longitudinal analysis of routine data.

Andrew Judge, University of Oxford
August 2016

Outcomes following revision of non-metal-on-metal total hip replacements for adverse reactions to metal debris

David Murray, University of Oxford
June 2016

Improving Outcomes of Shoulder Joint Replacement Surgery

Richard Craig, University of Oxford
May 2016

UK Inflammatory Arthritis Arthroplasty Project.

Alex MacGregor, Norwich Medical School

April 2016

Research requests (April 2015 – March 2016)**National Revision rates of the Corail/Pinnacle 36mm metal on metal total hip replacements – Aetiology of failure, risk factors and recommendations for ongoing surveillance programmes.**

Ben Bolland, Musgrove Park Hospital, Somerset

March 2016

How reliable is the NJR retrospective dataset for tracking the outcomes of hip and knee replacement: A comparison of 12 years of the NJR and HES/PEDW.

Adrian Sayers, University of Bristol

March 2016

A comparison of revision rates of Smith & Nephew manufactured cobalt chrome and oxidised zirconium bicondylar knee prostheses.

Andrew Weymann, Smith & Nephew

February 2016

The effect of antibiotic-loaded bone cement on risk of revision following primary knee replacement.

Simon Jameson, South Tees Hospitals NHS Foundation Trust

December 2015

Safety and Feasibility Evaluation of Tourniquets for Total Knee Replacement (SAFE TKR) Study – A Retrospective Cohort Study.

Peter Wall, University of Warwick

December 2015

Does laminar airflow make a difference to the infection rates for lower limb arthroplasty: A study using the England & Wales National Joint Registry and local surgical site infection data for two hospitals with and without laminar airflow.

Raj Shrivastava, William Harvey Hospital, Kent

December 2015

Using electronic health records and distance recruitment to unravel the genetics of common disease.

Mark Wilkinson and Eleftheria Zeggini, University of Sheffield and Wellcome Trust Sanger Institute

September 2015

Primary hip replacement within NJR/HES – 10 year validation using Exeter hip unit database.

Simon Jameson, Princess Elizabeth Orthopaedic Centre, Exeter

September 2015

Hip replacement in patients under 40: Trends, functional outcomes and survivorship in England and Wales.

Simon Jameson, Princess Elizabeth Orthopaedic Centre, Exeter

September 2015

Periprosthetic Fractures around the hip and knee: Incidence, Predictors, Outcomes of Surgical Treatment and Socioeconomic Impact.

Tanvir Khan, University of Nottingham
August 2015

Research requests (April 2014 – March 2015)**Systemic effects of metal exposure after metal-on-metal hip resurfacing and replacement.**

Alister Hart and Mark Wilkinson, University College London and University of Sheffield
March 2015

Is it safe to completely disinvest in TJR follow-up or will this expose people to harm?

Philip Conaghan, Leeds University
March 2015

Failure rates of ceramic-on-ceramic bearings.

Peter Wall, University of Warwick
March 2015

The choice between hip prosthetic bearing surfaces in total hip replacement: Evidence synthesis, statistical analysis and decision modelling to evaluate the effectiveness and cost-effectiveness of prosthetic implants for the NHS.

Elsa Marques, University of Bristol
January 2015

Development of a personalised health forecasting tool for patients undergoing hip or knee replacement.

Mark Wilkinson, University of Sheffield
January 2015

Development of efficient computer based solutions for data linkage, real time outcome assessment and surveillance in the UK National Joint Registry: A proof of concept study.

Alex Macgregor, University of East Anglia
January 2015

Post-surgical predictors of chronic pain after total knee replacement.

Andrew Judge, University of Oxford
December 2014

Outcomes following revision of metal-on-metal hip replacements.

David Murray, University of Oxford
December 2014

Analysis of factors associated with intraoperative complications during shoulder replacement and their subsequent effects on revision rates and patient reported outcomes.

Paul Cowling, University of York
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Jean Alain Epinette, Clinique Médico-Chirurgicale, Bruay-La-Buissiere, France
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William Manning and Paul Baker, Northern Deanery
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Naomi Gibbs and Benjamin Parkinson et al, University Hospitals Coventry and Warwickshire
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Hiren Divecha, North West Deanery
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Ashley Blom, University of Bristol
April 2014

Factors affecting mortality, morbidity and patient outcomes after joint replacement surgery.

Adrian Sayers, University of Bristol
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Epidemiological analysis of the infecting organism in first time revision hip and knee replacements.

Paul Baker, Northern Deanery
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The effect of femoral stem design on the incidence of periprosthetic fractures following primary total hip replacement.

Jeya Palan, University of Leicester
April 2014

Research requests (April 2013 – March 2014)**An exploration of the association between high BMI and the incidence and prevalence of arthroplasty of the weight bearing joints.**

A MacGregor, University of East Anglia
February 2014

UK Inflammatory Arthritis Arthroplasty Project.

A MacGregor, University of East Anglia
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Stem fracture following primary hip arthroplasty: Comparison of different stems, stem lengths and fixation methods from Joint Registries in Australia, Sweden and UK.

AJ Timperley, Princess Elizabeth Orthopaedic Centre, Exeter
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N Caplan, D Kader, Northumbria University
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Are current published U.S projections compatible?**

A Toms, Royal Devon and Exeter Hospitals Trust
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Jeya Palan, University of Leicester
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Polyethylene treatments and their effect on total hip replacement survival. Analysis of data from the National Joint Registry from England and Wales.

E Davies, Royal Orthopaedic Hospital, Birmingham
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R Disney, University College London
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Ashley Blom, Bristol University
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A clinical evaluation to determine metal ion release from 4th generation metal on metal articulating surfaces in cementless total hip arthroplasty.

E Smith, Avon Orthopaedic Centre, Bristol
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Alister Hart, John Skinner and Gordon Blunn UCL and RNOH
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Zaidi R, Royal National Orthopaedic Hospital NHS Trust, Stanmore
February 2013

Does the type of venous thromboembolism (VTE) chemoprophylaxis influence the rate of revision for infection following primary hip and knee replacement?

Baker P, Health Education North East
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Clarke A, University of Warwick
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Murray DW, University of Oxford
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Ms V Danielson, Johnson & Johnson Medical
November 2012

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R Grieve and M Pennington, London School of Hygiene and Tropical Medicine
March 2012

Relative revision rates by cement type in cemented and hybrid total hip replacement in England and Wales.

J Webb, Bristol
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Using evidence to reduce risk of healthcare acquired infection following primary total hip replacement.

N Graves, Queensland University of Technology, Australia
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True Mortality Rates after Total Hip Arthroplasty by method of fixation after adjustment for confounding factors: Results from the NJR in England & Wales (7th Edition).

J Timperley, Exeter
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A retrospective cohort study comparing the relative risks of revision or mortality at one and five years inpatients undergoing total hip replacement.

R Field, Epsom
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Research requests (April 2010 – March 2011)**Orthopaedic Intervention in Rheumatoid Arthritis: A retrospective analysis of cumulative incidence, prognostic markers, outcomes and cost effectiveness over a 20 year period.**

A Young and E Nikiphorou, University of East Anglia
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Current trends in primary hip arthroplasty: Influence of these trends and associated factors on survival and revision rates.

J Timperley, Exeter
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