

Joint replacement (primary): hip, knee and shoulder committee meeting

Date: 06/04/2018

Location: NGC Boardroom, The Royal College of Physicians, 11 St Andrews Place,
London NW1 4LE

Minutes: Confirmed

Committee members present:

Adam Firth (Chair)	(Present for notes 1–5)
Paul Baker	(Present for notes 1–5)
Ananth Ebinesan	(Present for notes 1–5)
Katharine Marks	(Present for notes 1–5)
Lauren Porter	(Present for notes 1–5)
Jonathan Rees	(Present for notes 1–4)
John Skinner	(Present for notes 1–5)
Toby Smith	(Present for notes 1–5)
Victoria Wells	(Present for notes 1–5)
Anthony Whiting	(Present for notes 1–5)

In attendance:

Nick Staples	Guidelines Commissioning Manager, NICE	(Present for notes 1–5)
Alex Allen (AA)	Senior Research Fellow, NGC	(Present for notes 1–5)
Dalia Dawoud (DD)	Health Economist, NGC	(Present for notes 1–5)
Meredith Faust (MF)	Project Manager, NGC	(Present for notes 1–5)
Beatriz Ferrer-Quiles (BFQ)	Information Specialist, NGC	(Present for notes 1–5)
Carlos Sharpin (CS)	Associate Director/guideline Lead, NGC	(Present for notes 1–5)
Rafina Yarde (RY)	Research Fellow, NGC	(Present for notes 3G–5)
David Wonderling (DW)	Head of Economics, NGC	(Present for notes 3G–5)

Apologies:

Anju Jaggi	Committee member
Andrew Metcalfe	Committee member

1. Welcome and objectives for the meeting

The Chair welcomed the committee members and attendees to the first meeting on Joint replacement (primary): hip, knee and shoulder. The committee members and attendees

introduced themselves.

The Chair informed the committee that apologies had been received. These are noted above.

The Chair outlined the objectives of the meeting, which included: introductions to the guideline process and reviewing draft protocols.

Introductions

2. Confirmation of matter under discussion, and declarations of interest

The Chair confirmed that, for the purpose of managing conflicts of interest, the matter under discussion was joint replacement.

The Chair asked everyone to declare any interests verbally.

Name	Role with NICE	Type of interest	Description of interest	Relevant dates			Comments
				Interest arose	Interest declared	Interest ceased	
Adam Firth	GP Principal, Bracondale Medical Centre	Direct financial non-specific	Self-employed as a GP Principal at Bracondale Medical Centre.		On application	Ongoing	No action other than process of open declaration
		Direct financial non-specific	Primary Care Medical Educator, responsible for a group of 30 GPs in Stockport. I deliver education on all aspects of General Practice in a post funded by Health Education North West		On application	Ongoing	No action other than process of open declaration
		Direct financial non-specific	Receive royalties (<£1,000 per year) from 'Get Through MRCGP Clinical Skills Assessment'(educational book for GPs in training which seeks to help them to pass training exams)		On application	Ongoing	No action other than process of open declaration
		Indirect non-financial	My wife is employed in an NHS trust as a Highly Specialist Physiotherapist in Chronic Pain		On application	Ongoing	No action other than

		cial non-specific					process of open declaration
		Direct financial non-specific	I sit on the Editorial Board of the British Journal of General Practice and receive travel expenses from the RCGP in relation to this.		On application	Ongoing	No action other than process of open declaration
		Direct non-financial non-specific	I am a member of the RCGP, SAPC (Society of Academic Primary Care)		On application	Ongoing	No action other than process of open declaration
Paul Baker	Consultant in Trauma and Orthopaedics, South Tees NHS Trust	Direct financial non-specific	One-off speaker fee for speaking at meetings arranged by Stryker Ltd (implant manufacturer) – No on-going consultancy arrangement	01/2015; 05/2016	On application	01/2015; 05/2016	No action other than process of open declaration
		Direct non-financial non-specific	Factors Influencing patient experience and satisfaction following surgical management of ankle fractures. Ashton F, Hamid K, Sulieman S, Eardley W, Baker P. Injury 2017;48(4):960-965.	2017	On application		No action other than process of open declaration
		Direct non-financial non-specific	Predictors of direct home discharge following fractured neck of femur. Salar O, Baker P, Forward D, Ollivere B, Weerasuriya N, Moppett I, Moran C. Ann R Coll Surg Engl. 2017;99(6):444-451.	2017	On application		No action other than process of open declaration
		Direct non-	The use of a validated pre-discharge questionnaire to improve the quality of patient experience of orthopaedic care.	2017	On applic		No action other

		financial non-specific	Baker P, Tytler B, Artley A, Hamid K, Paul R, Eardley W BMJ Qual Improv Report 2017;6: u212876.w5262.		ation		than processes of open declaration
		Direct non-financial non-specific	The use of foot pumps compression devices in the perioperative management of ankle fractures: Systematic review of the current literature. Clarkson R, Mahmoud S, Rangan A, Eardley W, Baker P. Foot (Edinb) 2017;31:61-66.	2017	On application		No action other than processes of open declaration
		Direct non-financial specific	Risk Factors for Mixed Genus Infection in 579 Primary Hip and Knee Arthroplastie Revised for Periprosthetic Infection: A Study Using the National Joint Registry Dataset Review Holleyman R, Deehan D, Charlett A, Gould K, Baker P. Recent Adv Arthroplast 2017;1(1):9-15	2017	On application		No action other than processes of open declarations
		Direct non-financial non-specific	Critical care admission following elective surgery was not associated with survival benefit: prospective analysis of data from 27 countries. Baker P as part of the International Surgical Outcomes Study (ISOS) group. Intensive Care Med 2017;43(7):971-979.	2017	On application		No action other than processes of open declaration
		Direct non-financial non-specific	Intraoperative complications during revision shoulder arthroplasty: a study using the National Joint Registry dataset. Ingoe H, Holland P, Cowling P, Kottam L, Baker P, Rangan A. Journal of Shoulder and Elbow Surgery 2017;9(2):92-99.	2017	On application		No action other than processes of open declaration
		Direct non-financial specific	Risk factors associated with intraoperative complications in primary shoulder arthroplasty: A study using the England, Wales and Northern Ireland National Joint Registry dataset. Cowling P, Holland P, Kottam K, Baker P, Rangan A. Acta Orthopaedica 2017;88(x):xx-xx (OPEN ACCESS)	2017	On application		No action other than processes of open declaration
		Direct non-	Departmental research funding from Depuy Attune revision knee system cohort studies: (1) revision knee patients (2) complex primary knee	2017	06/04/2018	2019 (expected)	No action other than

		financial non-specific	replacement when a revision knee system might be needed. I do not receive any monies directly from this study and all monies go to supporting the local research department.				process of open declaration
		Direct non-financial non-specific	Departmental research funding from Stryker Exeter short stem hip replacement study. I do not receive any monies directly from this study and all monies go to supporting the local research department.	2014	06/04/2018	2024 (expected)	No action other than process of open declaration
		Direct non-financial specific	I am involved with an ongoing National Joint Registry (NJR) research request related to hip and knee replacement	2012	06/04/2018	Ongoing	No action other than process of open declaration
		Direct non-financial specific	NJR research request regarding failure rates of knee replacements	2018	06/04/2018	Ongoing	No action other than process of open declaration
		Direct non-financial non-specific	I am the Orthopaedic research lead within the Local Clinical Research Network in the North East and North Cumbria.	2017	06/04/2018	Ongoing	No action other than process of open declaration
		Direct non-financial specific	I am the chief investigator for the NIHR HTA funded OPAL study (Occupational advice for Patients undergoing Arthroplasty of the Lower limb). This aims to develop an intervention to help people return to work and usual activities after hip and knee replacement.	2016	06/04/2018	2019 (expected)	No action other than process of open declaration
Ananth Ebinesan	Consultant Orthopaedic Surgeon, Manchester	Direct non-financial non-specific	How I...Manage First Time Traumatic Anterior Shoulder Dislocation. P Brownson, KS Mangat, AD Ebinesan. Journal of Trauma and Orthopaedics 2017; 5 (1): 28	2017	On application		No action other than process of open

	University NHS Foundation Trust	ific					declara tion
Anju Jaggi	Consultant Physiotherapist, Royal National Orthopaedic Hospital NHS Trust	Direct non-financial non-specific	Hopewell S, Keene D, Schluskel MM, Dritsaki M, Dutton S, Carr A, Hamilton W, Hansen Z, Jaggi A, Littlewood C, Soutakber H, Heine P, Cureton L, Barker K, Lamb S. Clinical and cost-effectiveness of progressive exercise compared with best practice advice, with or without corticosteroid injection, for the treatment of rotator cuff disorders: protocol for a 2x2 factorial randomised controlled trial (the GRASP trial). <i>BMJ Open</i> 2017;7:1-10.	2017	On application		No action other than process of open declaration
		Direct non-financial non-specific	Jaggi A, Alexander S. Rehabilitation for Shoulder Instability – current approaches. <i>The Open Orthopaedics Journal</i> 2017;11:957-971.	2017	On application		No action other than process of open declaration
		Direct non-financial non-specific	Gilbert A, Jaggi A, May C. What is the patient acceptability of real time 1:1 videoconferencing in an orthopaedics setting? A systematic review and meta-synthesis of qualitative studies. <i>Physiotherapy</i> 2018	2018	On application		No action other than process of open declaration
Katherine Marks	Elective Orthopaedic Nurse Practitioner, Nottingham University Hospitals NHS Trust	Direct non-financial non-specific	One day per week secondment as a surgery division junior research nurse fellow at Nottingham University Hospitals NHS Trust. This may involve work on the Perioperative Quality Improvement Programme: Patient study, sponsored by University College London	05/04/2018	06/04/2018	Ongoing	No action other than process of open declaration
		Direct non-financial non-specific	One day per week secondment as a surgery division junior research nurse fellow at Nottingham University Hospitals NHS Trust. This may involve work on a randomised controlled trial comparing laparoscopic cholecystectomy with observation/conservative management for preventing recurrent symptoms and complications in adults with uncomplicated symptomatic gallstones	05/04/2018	06/04/2018	Ongoing	No action other than process of open declaration

			(C-Gall trial) funded by the NIHR Health Technology Assessment Programme				
		Direct non-financial non-specific	One day per week secondment as a surgery division junior research nurse fellow at Nottingham University Hospitals NHS Trust. This may involve work on the ROMIO study – randomised oesophagostomy: minimally invasive or open. Sponsored by University Hospitals Bristol NHS Foundation Trust.	05/04/2018	06/04/2018	Ongoing	No action other than processes of open declaration
		Direct non-financial non-specific	One day per week secondment as a surgery division junior research nurse fellow at Nottingham University Hospitals NHS Trust. This may involve work on the impact of postoperative packing of perianal abscess cavities: a multicentre randomised controlled trial (PPAC2). Sponsored by Manchester University NHS Foundation Trust.	05/04/2018	06/04/2018	Ongoing	No action other than processes of open declaration
Andrew Metcalfe	Associate Clinical Professor in Trauma and Orthopaedics, Warwick Clinical Trials Unit, University of Warwick; Honorary Consultant Orthopaedic Surgeon, University Hospitals Coventry and Warwickshire	Direct non-financial specific	I have a research post (50% academic) which includes academic work-streams involving joint replacement, mostly funded by NIHR. I have been doing orthopaedic research for 17 years. There is therefore a research reputation conflict, but not a direct financial one.	2000	On application	Ongoing	No action other than processes of open declaration
		Direct non-financial non-specific	I have no research funding from any company that produces joint replacements; however, I am chief investigator for an NIHR-funded trial (NIHR EME, £932K, START:REACTS in final contract negotiations) that an orthopaedic device company, Orthospace, agreed to fund some devices (Inspace shoulder balloons, approx. total value £62K). Orthospace do not make anything used in joint replacement surgery.	2017	On application	Ongoing	No action other than processes of open declaration
		Direct financial non-specific	Our NHS trust uses products from ZimmerBiomet and Corin, and we receive advice and training from these companies, either ad-hoc in theatre during cases or on courses (I have attended cadaveric courses in Bristol, Coventry and Paris), which sometimes include accommodation and travel at subsidised rates. I have also organised courses (such as the Warwick Orthopaedics Sports Knee Course)		On application		No action other than processes of open declaration

			which have received sponsorship from multiple orthopaedic companies, including all of the commonly used brands in the UK.				
	Direct non-financial non-specific		Wall PDH, Ahmed I, Metcalfe A, Price A, Seers K, Hutchinson CE, Parsons H, Warwick J, Underwood M on behalf of the SAFE-TKR Study group. Safety and feasibility evaluation of tourniquets for total knee replacement (SAFE-TKR): study protocol. Submitted to BMJ Open 2018	2018	On application		No action other than process of open declaration
	Direct non-financial non-specific		Lewis TL, Furness HN, Miller GW, Parsons N, Seers K, Underwood M, Metcalfe A. Protocol for a qualitative systematic review examining surgeon views regarding the adoption of a novel surgical innovation into clinical practice. BMJ Open 2018 (In Press)	2018	On application		No action other than process of open declaration
	Direct non-financial non-specific		Moiz M, Smith N, Smith TO, Chawla A, Metcalfe A. Clinical outcomes following non-operative management of lateral patellar dislocation: a systematic review. Submitted to Orthopaedic Journal of Sports Medicine. 2017.	2017	On application		No action other than process of open declaration
	Direct non-financial non-specific		Kahal H, Kyrou I, Uthman OA, Brown A, Johnson S, Wall P, Metcalfe A, Tahrani AA, Randeve HS The Prevalence of Obstructive Sleep Apnoea in women with Polycystic Ovary Syndrome: a Systematic Review and Meta-analysis. Submitted to Sleep 2017.	2017	On application		No action other than process of open declaration
	Direct non-financial non-specific		Khatri C, Ahmed I, Parsons H, Smith N, Lawrence T, Modi C, Drew S, Parsons N, Underwood M, Metcalfe A. The Natural History of Full Thickness Rotator Cuff Tears in Randomised Controlled Trials: A Systematic Review & Meta-Analysis. Resubmitted to American Journal of Sports Medicine. 2017.	2017	On application		No action other than process of open declaration
	Direct non-financial		Kemp M, Metcalfe A, Sayers A, Wylde V, Eldridge J, Blom A. Does overstuffing of the patellofemoral joint in total knee arthroplasty have a	2017	On application		No action other than

		cial non-specific	significant effect on postoperative outcomes? Submitted to the Knee 2017.				process of open declaration
		Direct non-financial non-specific	Smith NA, Parsons N, Wright D, Hutchinson C, Metcalfe A, Thompson P, Costa ML, Spalding T. A pilot randomized trial of meniscal allograft transplantation versus personalized physiotherapy for patients with a symptomatic meniscal deficient knee compartment. Bone Joint J. 2018 Jan;100-B(1):56-63.	2018	On application		No action other than process of open declaration
		Direct non-financial non-specific	Ahmed I, Price A, Metcalfe A, Hutchinson C, Warwick J, Underwood M, Seers K, Hobson R, Parsons H, Wall P. Protocol: Tourniquet use of total knee replacement surgery. Cochrane Database of Systematic Reviews. 2017	2017	On application		No action other than process of open declaration
		Direct non-financial non-specific	Metcalfe A, Stewart C, Postans N, Biggs P, Whatling G, Holt C, Roberts A. Abnormal loading and functional deficits are present in both limbs before and after unilateral knee arthroplasty. Gait and Posture 2017 Jun;55:109-115	2017	On application		No action other than process of open declaration
		Direct non-financial non-specific	Mistry H, Connock M, Pink J, Shyangdan D, Clar C, Crowther M, Royle P, Court R, Biant L, Metcalfe A, Waugh N. Autologous chondrocyte implantation in the knee: systematic review and economic analysis. Health Technology Assessment. 21(6) ISSN1366-5278, 2017	2017	On application		No action other than process of open declaration
		Direct non-financial non-specific	I have recently become the Secretary of a newly formed 'British Patellofemoral Society', a non-profit society aiming to improve education, research and training related to the patellofemoral joint. This will include developing clinical guidance on the management of the patellofemoral joint (most of which is non-arthroplasty, but arthroplasty will also feature). Where arthroplasty is concerned, it has been agreed that the group will await	21 March 2018	06/04/2018	Ongoing	No action other than process of open declaration

			the outcome from this NICE process.				
Lauren Porter	Occupational Therapist, Betsi Cadwaladr University Health Board	Direct financial non-specific	Member of the National Executive Committee for the Royal College of Occupational Therapists Specialist Section for Trauma and Orthopaedics (RCOTSSTO) – Wales representative. Remuneration of reasonable travel expenses received in completion of duties.	2008	06/04/2018	Ongoing	No action other than process of open declaration
		Direct non-financial specific	Currently undertaking dissertation research project for MSc Advanced Clinical Practice entitled “An investigation of the service user’s experience of implementing hip precautions following total hip replacement surgery” (Glyndwr University)	09/2017	06/04/2018	Ongoing	No action other than process of open declaration
		Direct financial specific	Project lead and co-editor for the development of the Royal College of Occupational Therapists practice guideline “Occupational therapy for adults undergoing total hip replacement (2 nd Ed).” Remuneration of reasonable travel expenses received in completion of duties.	2015	06/04/2018	2017	No action other than process of open declaration
		Direct financial non-specific	Current clinical position (Trauma and Orthopaedic occupational therapist – Betsi Cadwaladr University Health Board).		06/04/2018	Ongoing	No action other than process of open declaration
Jonathan Rees	Professor of Orthopaedic Surgery and Musculoskeletal Science, University of Oxford	Direct non-financial non-specific	I supervise a student who has received grant funding from the Royal College of Surgeons and National Joint Register for a DPhil.		On application	Ongoing	No action other than process of open declaration
		Direct financial non-	I am a shareholder and Non-Exec Director in a recent university spin out software company called PRO-MAPP Ltd. This company provides patient management software solutions and		On application	Ongoing	No action other than proces

		specific	PROMs surveillance methods to monitor patient outcomes.				s of open declaration
		Direct financial non-specific	I hold a full time academic post as Professor at University of Oxford		06/04/2018	Ongoing	No action other than process of open declaration
		Direct non-financial specific	I write the annual NJR shoulder report	2015	06/04/2018	Ongoing	No action other than process of open declaration
		Direct financial specific	I have sat on BESS Council since 2012 and receive travel expenses only	2012	06/04/2018	Ongoing	No action other than process of open declaration
		Direct financial specific	I sit on the NJR Editorial Board and the NJR Implant Scrutiny Group. I receive travel expenses only.	2016	06/04/2018	Ongoing	No action other than process of open declaration
		Direct non-financial specific	I advise the MHRA on shoulder and elbow implants problems.	2017	06/04/2018	Ongoing	No action other than process of open declaration
		Direct financial	I have sat on the ODEP for Shoulder Replacements. I only receive travel expenses.	2017	06/04/2018	Ongoing	No action other than

		specific					process of open declaration
		Direct non-financial non-specific	<i>International variation in shoulder arthroplasty: Analysis of incidence, disease indication, type of procedure, and outcomes evaluation from nine countries.</i> A Lübbecke, J L Rees, C Barea, C Combescure, A Carr, A Silman. Acta Orthopaedica Acta Orthop. 2017 Sep 7:1-10.	2017	06/04/2018		No action other than process of open declaration
		Direct non-financial non-specific	<i>BESS/BOA Patient Care Pathways for Glenohumeral Osteoarthritis.</i> M Thomas, A Bidwai, A Rangan, J L Rees, P Brownson, D Tennent, C Connor, R Kulkarni. Shoulder & Elbow 2016 Jul;8(3):203-14	2016	06/04/2018		No action other than process of open declaration
John Skinner	Professor of Orthopaedic Surgery, University College London; Consultant Orthopaedic Surgeon, Royal National Orthopaedic Hospital NHS Trust	Direct financial non-specific	I am a director of the London Implant Retrieval Centre (LIRC). The LIRC has received Institutional Research Funding from all manufacturers of metal-on-metal hips: Smith & Nephew, Matthys, Finsbury, Zimmer Biomet, Stryker, Depuy, Corin. This funding was initially received under an umbrella grant via the ABHI when the problems with metal bearings were discovered but not understood.	01/11/2012	On application	31/07/2016	No action other than process of open declaration
		Direct non-financial non-specific	Effect of Bearing Type on Taper Material Loss in Hips From 1 Manufacturer. Hothi HS; Eskelinen AP; Henckel J; Kwon YM; Blunn GW; Skinner JA; Hart AJ. Journal of Arthroplasty. 2017 Dec 29.	29/12/2017	On application		No action other than process of open declaration
		Direct non-financial non-specific	Effect of impact assembly on the interface deformation and fretting corrosion of modular hip tapers: An in vitro study. Panagiotidou A; Cobb T; Meswania J; Skinner J; Hart A; Haddad F; Blunn G. Journal of Orthopaedic Research. 2017 May 09.	09/05/2017	On application		No action other than process of open declaration

		Direct non-financial non-specific	Inflammatory cell-induced corrosion in total knee arthroplasty: A retrieval study. Cerquiglini A; Henckel J; Hothi HS; Di Laura A; Skinner JA; Hart AJ. Journal of Biomedical Materials Research. Part B, Applied Biomaterials. 106(1):460-467, 2018 Jan.	01/2018	On application		No action other than process of open declaration
		Direct non-financial non-specific	A new year, but the spectre of metal-on-metal lives on. Skinner JA; Haddad FS. Bone & Joint Journal. 100-B(1):1-3, 2018 Jan.	01/2018	On application		No action other than process of open declaration
		Direct non-financial specific	The Chemical Form of Metal Species Released from Corroded Taper Junctions of Hip Implants: Synchrotron Analysis of Patient Tissue. Di Laura A; Quinn PD; Panagiotopoulou VC; Hothi HS; Henckel J; Powell JJ; Berisha F; Amary F; Mosselmans JFW; Skinner JA; Hart AJ. Scientific Reports. 7(1):10952, 2017 Sep 08.	08/09/2017	On application		No action other than process of open declaration
		Direct non-financial specific	Ceramics in total hip arthroplasty: a bearing solution?. Skinner JA; Haddad FS. Bone & Joint Journal. 99-B(8):993-995, 2017 Aug.	08/2017	On application		No action other than process of open declaration
		Direct non-financial specific	Retrieval evidence of impingement at the third articulation in contemporary dual mobility cups for total hip arthroplasty. Di Laura A; Hothi HS; Henckel J; Cerquiglini A; Liow MHL; Kwon YM; Skinner JA; Hart AJ. International Orthopaedics. 41(12):2495-2501, 2017 Dec.	12/2017	On application		No action other than process of open declaration
		Direct non-financial specific	Retrieval analysis of metal and ceramic femoral heads on a single CoCr stem design. Di Laura A; Hothi H; Henckel J; Swiatkowska I; Liow MHL; Kwon YM; Skinner JA; Hart AJ. Bone & Joint Research. 6(5):345-350, 2017 May.	05/2017	On application		No action other than process of open declaration

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Direct non-financial non-specific	Clinically insignificant trunnionosis in large-diameter metal-on-polyethylene total hip arthroplasty. Hothi HS; Kendoff D; Lausmann C; Henckel J; Gehrke T; Skinner J; Hart A. Bone & Joint Research. 6(1):52-56, 2017 Jan.	01/2017	On application			No action other than process of open declaration
Direct non-financial specific	Retrieval analysis of ceramic-coated metal-on-polyethylene total hip replacements. Khatkar H; Hothi H; de Villiers D; Lausmann C; Kendoff D; Gehrke T; Skinner J; Hart A. International Orthopaedics. 41(6):1101-1105, 2017 Jun.	06/2017	On application			No action other than process of open declaration
Direct non-financial specific	Detection of incorrect manufacturer labelling of hip components. Durand-Hill M; Henckel J; Burwell M; Skinner J; Hart A. Skeletal Radiology. 46(1):105-109, 2017 Jan.	01/2017	On application			No action other than process of open declaration
Direct non-financial non-specific	Wear of dual-mobility cups: a review article. [Review] Laura AD; Hothi H; Battisti C; Cerquiglini A; Henckel J; Skinner J; Hart A. International Orthopaedics. 41(3):625-633, 2017 Mar.	03/2017	On application			No action other than process of open declaration
Direct non-financial non-specific	The risk of cardiac failure following metal-on-metal hip arthroplasty. Sabah SA; Moon JC; Jenkins-Jones S; Morgan CL; Currie CJ; Wilkinson JM; Porter M; Captur G; Henckel J; Chaturvedi N; Kay P; Skinner JA; Hart AH; Manisty C. Bone & Joint Journal. 100-B(1):20-27, 2018 Jan.	01/2018	On application			No action other than process of open declaration
Direct non-financial non-specific	Assessing for Cardiotoxicity from Metal-on-Metal Hip Implants with Advanced Multimodality Imaging Techniques. Berber R; Abdel-Gadir A; Rosmini S; Captur G; Nordin S; Culotta V; Palla L; Kellman P; Lloyd GW; Skinner JA; Moon JC; Manisty C; Hart	01/11/2017	On application			No action other than process of open

		ific	AJ. Journal of Bone & Joint Surgery - American Volume. 99(21):1827-1835, 2017 Nov 01.				declara tion
		Dire ct non- finan cial non- spec ific	Clinical Cold Welding of the Modular Total Hip Arthroplasty Prosthesis. Whittaker RK; Zaghloul AM; Hothi HS; Siddiqui IA; Blunn GW; Skinner JA; Hart AJ. Journal of Arthroplasty. 32(2):610-615, 2017 02.	02/201 7	On applic ation		No action other than proces s of open declara tion
		Dire ct non- finan cial non- spec ific	Fretting and Corrosion Between a Metal Shell and Metal Liner May Explain the High Rate of Failure of R3 Modular Metal-on-Metal Hips. Ilo KC; Derby EJ; Whittaker RK; Blunn GW; Skinner JA; Hart AJ. Journal of Arthroplasty. 32(5):1679-1683, 2017 05.	05/201 7	On applic ation		No action other than proces s of open declara tion
		Dire ct non- finan cial non- spec ific	Variation in taper surface roughness for a single design effects the wear rate in total hip arthroplasty. Whittaker RK; Hothi HS; Eskelinen A; Blunn GW; Skinner JA; Hart AJ. Journal of Orthopaedic Research. 35(8):1784-1792, 2017 08.	08/201 7	On applic ation		No action other than proces s of open declara tion
		Dire ct non- finan cial spec ific	Invited lecturer as faculty at the British Hip Society Meeting. Presentation: 'Rationing in Orthopaedics. What is happening in 2018? Does it make sense?' No payment was received.	2018	06/04/ 2018		No action other than proces s of open declara tion
		Dire ct non- finan cial spec ific	Presented 'Rationing in Orthopaedics. What is happening in 2018? Does it make sense?' at the London Hip Meeting. No payment was received.	2018	06/04/ 2018		No action other than proces s of open declara tion
Toby Smith	Senior Research er in Rehabilita tion –	Dire ct finan cial non-	Co-applicant on a clinical trial funded by Smith and Nephew - Performance and functional ability after insertion of the Journey II Bi-Cruciate Stabilised Knee System compared with the	01/11/ 2017	On applic ation	01/11/ 2020 (expec ted)	No action other than proces

University of Oxford	specific	Genesis II prosthesis. Smith and Nephew UK. £691.734.53 (Role: Co-applicant; CI: Professor Iain McNamara, Norfolk and Norwich University Hospital, Norwich-UEA).				s of open declaration
	Direct financial non-specific	Current academic position (Senior Researchers in Rehabilitation, University of Oxford)	01/01/2018	01/01/2018	ongoing	No action other than process of open declaration
	Direct financial non-specific	Current clinical position (Trauma and Orthopaedic Physiotherapist – Norfolk and Norwich University Hospital)	01/05/2010	01/01/2018	ongoing	No action other than process of open declaration
	Direct non-financial non-specific	Principal Investigator on a research grant funded by NIHR Research for Patient Benefit investigating a behaviour change (talking therapy) intervention to improve physical activity for people following hip and knee replacement.	01/06/2018	01/01/2018	01/06/2021 (expected)	No action other than process of open declaration
	Direct non-financial non-specific	Smith TO, Dainty J, MacGregor A. Trajectory of physical activity following total hip and knee arthroplasty: data from the English Longitudinal Study of Ageing (ELSA) cohort. European Journal of Physiotherapy. In Press, August 2017	08/2017	01/01/2018		No action other than process of open declaration
	Direct non-financial specific	Smith TO, Hilton G, Mansfield M, Mann CJV, Sackley CM (2018). Does physical activity change following hip and knee arthroplasty? An analysis of data from the Osteoarthritis Initiative. Physiotherapy. 104; 1: 80-90.	08/02/2017	01/01/2018		No action other than process of open declaration
	Direct non-	Smith TO, Withers TM, Luben R, Sackley C, Jones AP, McGregor A (2017). Changes in physical activity	07/03/2017	01/01/2018		No action other

		financial specific	following total hip and knee arthroplasty: a matched case-control study from the EPIC-Norfolk cohort. Clinical Rehabilitation. 31: 11: 1548-1557				than process of open declaration
		Direct non-financial specific	Smith TO, Withers TM, Luben R, Sackley C, Jones AP, McGregor A (2017). Changes in physical activity following total hip and knee arthroplasty: a matched case-control study from the EPIC-Norfolk cohort. Clinical Rehabilitation. 31: 11: 1548-1557, September 2016.	09/2016	01/01/2018		No action other than process of open declaration
		Direct non-financial specific	Alattas SA, Smith T, Bhatti M, Wilson-Nunn D, Donell S (2017). Greater pre-operative anxiety, pain and poorer function predict a worse outcome of a total knee arthroplasty. Knee Surg Sports Traumatol Arthrosc. 25: 11: 3403-3410.	24/0/2016	01/01/2018		No action other than process of open declaration
		Direct non-financial specific	Smith TO, Dainty J, MacGregor A (2017). Trajectory of social isolation following total hip or knee arthroplasty: results from the English Longitudinal Study of Ageing (ELSA) cohort. Osteoarthritis and Cartilage. 25; 1414-1419.	16/05/2017	01/01/2018		No action other than process of open declaration
		Direct non-financial specific	Withers TM, Lister S, Sackley CM, Clark A, Smith TO (2017). Is there a difference in total physical activity levels before and after elective unilateral total hip replacement? A systematic review and meta-analysis. Clinical Rehabilitation. 31; 639-650	25/10/2016	01/01/2018		No action other than process of open declaration
		Direct non-financial specific	Smith TO, Aboelmagd T, Hing CB, Macgregor A (2016) Does bariatric surgery prior to total hip or knee replacement reduce post-operative complications and improve clinical outcomes for obese patients? Systematic review and meta-analysis. Bone Joint Journal 98-B; 1160-1166.	19/052016	01/01/2018		No action other than process of open declaration
		Direct	Smith TO, Jepson P, Beswick A, Sands G, Drummond A, Davis ET,	24/09/	01/01/		No action

		non-financial specific	Sackley CM. Assistive devices, hip precautions, environmental modifications and training to prevent dislocation and improve function after hip arthroplasty. Cochrane Database of Systematic Reviews. DOI: 10.1002/14651858.CD010815.pub2.	2016	2018		other than processes of open declaration
		Direct non-financial non-specific	Smith TO, Sackley CM (2016) UK survey of occupational therapist's and physiotherapist's experiences and attitudes towards hip replacement precautions and equipment. BMC Musculoskeletal Disorders. 17: 228.	23/05/2016	01/01/2018		No action other than processes of open declaration
		Direct non-financial non-specific	Smith TO, Pearson M, Latham SK (2016) Are people following hip and knee arthroplasty at greater risk of experiencing a fall and fracture? Data from the Osteoarthritis Initiative. Archives of Orthopaedic and Trauma Surgery. 136: 865-872	22/03/2016	01/01/2018		No action other than processes of open declaration
		Direct non-financial non-specific	Mahmoud SS, Pearse EO, Smith TO, Hing CB (2016) Outcomes of total hip replacement as a salvage procedure following failed internal fixation of intracapsular neck of femur fractures: A systematic review and meta-analysis. Bone and Joint Journal. 98-B, 452-460	22/03/2016	01/01/2018		No action other than processes of open declaration
		Direct non-financial non-specific	Mannan A, Smith TO (2016) Favourable rotational alignment outcomes in PSI knee arthroplasty: A level 1 systematic review and meta-analysis. The Knee. 23; 186-190.	18/03/2016	01/01/2018		No action other than processes of open declaration
		Direct non-financial non-specific	Smith TO, Penny F, Fleetcroft R (2016) Smoking and alcohol behaviours in people following hip and knee arthroplasty: data from the Osteoarthritis Initiative. Orthopaedics and Traumatology: Surgery and Research. 102; 239-245	22/03/2016	01/01/2018		No action other than processes of open declaration

		Direct non-financial specific	Smith TO, Penny F, Fleetcroft R (2016) Medical morbidities in people following hip and knee arthroplasty: data from the Osteoarthritis Initiative. European Journal of Orthopaedic Surgery and Traumatology. 26; 99-106.	15/01/2016	01/01/2018		No action other than process of open declaration
Victoria Wells	Lay member	Direct financial specific	Involved in University of Bristol NIHR funded research programme: Support and Treatment After Replacement (STAR; http://www.bristol.ac.uk/translational-health-sciences/research/musculoskeletal/orthopaedic/research/star/). Study of interventions for long-term pain relief for people receiving primary total knee replacement. Received payment through Oct 2016 and paid travel through Oct 2017.	2015	On application	2017	No action other than process of open declaration
Anthony Whiting	Lay member	Indirect non-financial non-specific	My son is a Consultant Intensivist and Head of Patient Safety at a NHS hospital Trust.		On application	Ongoing	No action other than process of open declaration
		Direct non-financial non-specific	Honorary Teacher / Expert by Experience, Sheffield University Clinical Psychology Unit		On application	Ongoing	No action other than process of open declaration
		Direct non-financial non-specific	Member of local GP Practice Patient Group		On application	Ongoing	No action other than process of open declaration
		Direct non-financial	Director / Trustee SOAR Community (Social Enterprise CLG)		On application	Ongoing	No action other than

		cial non-specific					process of open declaration
		Direct non-financial non-specific	Director, SOAR Enterprises (Subsidiary Limited Company)		On application	Ongoing	No action other than process of open declaration
		Direct non-financial non-specific	Director, Wildscapes (Environmental Consultancy CIC)		On application	Ongoing	No action other than process of open declaration
		Direct non-financial non-specific	Chairman Longley4G (CLG/Charity)		On application	Ongoing	No action other than process of open declaration
		Direct non-financial non-specific	Chairman, High Green Development Trust (Registered Exempt charity)		On application	Ongoing	No action other than process of open declaration
Topic expert member							
Helen Robson	Regional Clinical Lead/Clinical Delivery Manager, ConnectHealth	Direct financial specific	I work for Connect Health, they are a provider organisation that provides healthcare for the NHS and occupational health service. I do not receive any remuneration in relation to joint replacements.		On application	Ongoing	No action other than process of open declaration

The Chair and a senior member of the Developer's team noted that the interests declared did not prevent the attendees from fully participating in the meeting.

3. Presentations

- A. The Chair introduced Carlos Sharpin, National Guideline Centre (NGC) Associate Director and Guideline Lead, who gave a presentation on NICE's declarations of interest policy and the NGC's working practices. CS took questions from the group. The Chair thanked Carlos for his presentation.
- B. The Chair introduced Nick Staples, NICE Guideline Commissioning Manager, who gave a presentation on the role of NICE. NS took questions from the group. The Chair thanked Nick for his presentation.
- C. The Chair introduced Beatriz Ferrer-Quiles, NGC Information Specialist, who gave a presentation on the role of the information specialist. BFQ took questions from the group. The Chair thanked Beatriz for her presentation.
- D. The Chair introduced Alex Allen, NGC Senior Research Fellow, who gave a presentation on the role of the research fellow. AA took questions from the group. The Chair thanked Alex for his presentation.
- E. The Chair introduced Dalia Dawoud, NGC Senior Health Economist, who gave a presentation on the role of the health economist. DD took questions from the group. The Chair thanked Dalia for her presentation.
- F. The Chair then gave a presentation on the scope of the guideline. AF took questions from the group.
- G. Alex Allen gave a presentation on an introduction to protocols. AA took questions from the group. The Chair thanked Alex for his presentation.

4. Protocols

The committee discussed and agreed the following draft review protocols and were given the opportunity to ask questions:

- Protocol: 2.1 Preoperative rehabilitation
- Protocol: 8.1 Inpatient postoperative rehab: knee or hip self-directed versus supervised
- Protocol: 8.2 Inpatient postoperative rehab: shoulder self-directed versus supervised
- Protocol: 8.3 Outpatient postoperative rehab: knee or hip
- Protocol: 8.4 Outpatient postoperative rehab: shoulder.

5. Any other business

The Chair brought the NGC short courses to the committee's attention.

Date of next meeting: 26/04/2018

Location of next meeting: Council Chamber, Royal College of Physicians