

Osteoporosis: risk assessment, treatment and prevention of fragility fractures (update)

Guideline Committee Interests Register

Register last updated: January 2026

Name	Role with NICE	Type of interest	Description of interest	Interest arose	Interest declared	Interest ceased	Comments
Dr Alison Tedstone	Chair (up to 31 st December 2024)	Direct, non-financial professional and personal interests	<p>I was interviewed for the paper on the Scientific Advisory Committee on Nutrition https://www.bmj.com/content/386/bmj.q1909</p> <p>I am quoted several times and appear in a video embedded in paper BMJ website.</p> <p>The paper is about potential conflicts of interest of committee members, specific to nutrition.</p> <p>It has no direct relevance to NICE</p>	12/9/24	16/09/24	31/12/24	<p>Declare and participate.</p> <p>Rationale: interest is non-specific to the scope of the guideline.</p>
Margaret Lally	Chair (from 1 st January 2025)	Direct, non-financial professional and personal interests	Trustee of the Social Care Institute for Excellence with a focus primary on social care.		28/11/24	Ongoing	<p>Declare and participate.</p> <p>Rationale: interest is non-specific to the scope of the guideline.</p>

Dr Nicola Peel	Topic advisor	Direct financial interest	Consultant in Metabolic Bone Medicine, Sheffield Teaching Hospitals NHS Foundation Trust	2000	02/02/23	05/04/24	Declare and participate. Rationale: Salaried employment in the NHS.
Dr Nicola Peel	Topic advisor	Direct, non-financial professional and personal interests	Sheffield Teaching Hospitals NHS Foundation Trust are giving me a letter of authority enabling me to attend relevant departmental clinical and x-ray meetings to support my CPD and the Trust will remain my designated body for GMC registration purposes. This means I will continue to undertake annual appraisal to confirm my fitness to practice within the remaining aspects of clinical work I undertake. This will be on a voluntary basis and there will be no remuneration.	April 2024	24/01/24		Declare and participate. Rationale: interest is non-specific to the scope of the guideline. Involved in general discussions about clinical and xray meetings.
Dr Nicola Peel	Topic advisor	Direct financial interest	Consultancy fee for participation in health economics workshop – Genomics plc and ScHARR	25/05/22	02/02/23	25/05/22	Declare and participate. Rationale: This is a financial interest but it is non-specific to the scope of the guideline.

Dr Nicola Peel	Topic advisor	Direct financial interest	Lecture fee from University of Derby to deliver annual teaching session on DXA reporting and relates to how to interpret case studies. The course is currently on hold and the last lecture was held 02/02/22. Due to restart Jan 2024 and will be delivering teaching session on 31.01.24.	2012	02/02/23	NA	Declare and participate. Rationale: This is a financial interest but DXA reporting and interpretation of case studies are not covered in the scope of the guideline.
Dr Nicola Peel	Topic advisor	Direct financial interest	Honoraria to teach on the annual 3 day Bone Research Society (BRS) Oxford Clinical Training Course in Osteoporosis and other Metabolic Bone Diseases. Covers all aspects of osteoporosis and other common bone diseases. I stepped down from the faculty after the 2022 course.	2016	02/02/23	Mar 2022	Declare and participate. Rationale: This is a financial interest but teaching on current practice in osteoporosis is non-specific to the scope of the guideline.
Dr Nicola Peel	Topic advisor	Direct, non-financial professional and personal interests	Visiting Professor, University of Derby	2018	02/02/23	Ongoing	Declare and participate. Rationale: interest is non-specific to the scope of the guideline.

Dr Nicola Peel	Topic advisor	Direct, non-financial professional and personal interests	Trustee of the Royal Osteoporosis Society	Jul 2019	02/02/23	NA	Declare and participate. Rationale: interest is non-specific to the scope of the guideline.
Dr Nicola Peel	Topic advisor	Direct, non-financial professional and personal interests	Chair of the Clinical Committee of the Royal Osteoporosis Society (Clinical and Research Committee from November 2022)	Dec 2019	02/02/23	May 2024	Declare and participate. Rationale: interest is non-specific to the scope of the guideline.
Dr Nicola Peel	Topic advisor	Direct, non-financial professional and personal interests	Participant in NHS England Osteoporosis, Falls and Fragility Fracture working group	2022	02/02/23	NA	Declare and participate. Rationale: interest is non-specific to the scope of the guideline.
Dr Nicola Peel	Topic advisor	Direct, non-financial professional and personal interests	Chair, Trial Steering Committee for BLAST OFF study, University of Nottingham (https://www.nuh.nhs.uk/blastoff). Qualitative study to compare different bisphosphonate regimes in clinical practice. Was due to end 2021 but delayed due to	2019	02/02/23	2022	Declare and participate. Rationale: Specific. Person not involved in study analysis or

			pandemic. The analysis is ongoing.				as an author on the report.
Dr Nicola Peel	Topic advisor	Direct, non-financial professional and personal interests	Scientific Advisor to iFRAP study (University of Keele). iFraP is a study to develop and test a computerised decision support tool, training package, and other resources to support communication about osteoporosis medicines, in the clinical consultation.	2019	02/02/23	Ongoing	Declare and participate. Rationale: interest is non-specific, the guideline scope is not covering the use of computerised decision support tools.
Dr Nicola Peel	Topic advisor	Direct, non-financial professional and personal interests	Peer Reviewer for National Osteoporosis Guideline Group (NOGG) Clinical Guideline (update) 2021	2021	02/02/23	2021	Declare and participate. Rationale: interest is non-specific to the scope of the guideline.
Dr Nicola Peel	Topic advisor	Direct, non-financial professional and personal interests	I have given presentations and contributed to publications (research papers, review articles and results of service evaluations) on the use of bone turnover markers to monitor osteoporosis treatment. (eg. European Journal of Endocrinology, 178(1), R19-R31. doi:10.1530/EJE-17-0585;	1998	08/06/23		Declare and participate. Rationale: specific. Review of current evidence around bone turnover markers.

			<p>Bone 2022 May;158:116347. doi: 10.1016/j.bone.2022.116347)</p> <p>I have previously contributed to research in this area for which colleagues in the academic unit (but not myself) have received funding</p>				
Dr Nicola Peel	Topic advisor	Direct financial interest	Provision of advice and support for clinical colleague working in another NHS Trust who is delivering the osteoporosis service to cover long-term sickness absence (1.5 PA per month, reimbursed via SLA).	Aug 2023	08/11/23	Jan 2024	<p>Declare and participate.</p> <p>Rationale: Salaried employment in the NHS.</p>
Dr Nicola Peel	Topic advisor	Direct, non-financial professional and personal interests	Delivered lecture / workshop related to osteoporosis on 'The importance of vertebral fractures in older people: Identification and assessment' at the European Geriatric Medicine Society conference, September 2022.	Sep 2022	08/11/23		<p>Declare and participate.</p> <p>Rationale: specific. Talk based on current evidence, guidelines and practice.</p>
Dr Nicola Peel	Topic advisor	Direct, non-financial professional and personal interests	Delivered lecture / workshop related to osteoporosis on 'When to stop and when to switch? – Length of treatment and treatment failure' at the British Society for Rheumatology conference, Nov 2022.	Nov 2022	08/11/23		<p>Declare and participate.</p> <p>Rationale: specific. Talk based on current evidence,</p>

							guidelines and practice.
Dr Nicola Peel	Topic advisor	Direct, non-financial professional and personal interests	Delivered lecture / workshop related to osteoporosis on 'Bone health essentials: Understanding BMD and DXA measurements' at the Royal Osteoporosis Society Conference, September 2023.	Sep 2023	08/11/23		Declare and participate. Rationale: interest is non-specific to the scope of the guideline.
Dr Nicola Peel	Topic advisor	Direct, non-financial professional and personal interests	Delivered lecture / workshop related to osteoporosis on 'Understanding DXA measurements' at the British Geriatric Society Autumn Conference, Nov 2023.	Nov 2023	08/11/23		Declare and participate. Rationale: interest is non-specific to the scope of the guideline.
Dr Nicola Peel	Topic advisor	Direct, non-financial professional and personal interests	Supporting the Royal Osteoporosis Society's Public Affairs work, on 'Better Bones Campaign. My role is very much as clinical advisor, so making sure that everyone around the table has an accurate understanding of osteoporosis as a condition, how it's diagnosed and managed and how service is delivered. I ensure this understanding is in line with current guidelines, evidence base and licensed indications.	October 2023	08/11/23		Declare and participate. Rationale: interest is non-specific to the scope of the guideline. Advises on current evidence and practice and does not make decisions about

			As part of this work I have attended and contributed to discussions with staff in NHSE and DHSC – providing clinical information and context.				final policy or publications.
Dr Nicola Peel	Topic advisor	Direct, non-financial professional and personal interests	Clowes, J.A.; Peel, N.F.A.; Eastell, R.; The impact of monitoring on adherence and persistence with antiresorptive treatment for postmenopausal osteoporosis: A randomized controlled trial; Journal of Clinical Endocrinology and Metabolism; 2004; vol. 89 (no. 3); 1117-1123	March 2004	20/05/24		Specific, partial exclusion Nicola Peel, Topic Advisor, was excluded from recommendation drafting on follow up for people on treatment at committee meeting 14 on 28 January 2025 at 11:00 due to the declared conflict of interest, in line with NICE's policy.
Dr Nicola Peel	Topic advisor	Direct, non-financial professional and personal interests	Mattia L, Davis S, Mark-Wagstaff C, Abrahamsen B, Peel N, Eastell R, Schini M. Utility of PINP to monitor osteoporosis treatment in primary care, the POSE study (PINP and Osteoporosis in Sheffield Evaluation). Bone. 2022 May;158:116347. doi:	May 2022	20/05/24		Specific, partial exclusion Nicola Peel, Topic Advisor, was excluded from recommendation

Osteoporosis: risk assessment, treatment and prevention of fragility fractures (update)

– interests register

			10.1016/j.bone.2022.116347. Epub 2022 Feb 5. PMID: 35134571.				drafting on follow up for people on treatment at committee meeting 14 on 28 January 2025 at 11:00 due to the declared conflict of interest, in line with NICE's policy.
Dr Nicola Peel	Topic advisor	Direct, non- financial professional and personal interests	Broadcast media interviews about publication of NICE recommendations on abaloparatide in postmenopausal osteoporosis (ID882) BBC Radio 4 Today programme and article on BBC web site 'Bone-building drug coming for post-menopause women' (https://www.bbc.co.uk/news/articles/ckg22prg9y0o). ITN lunchtime news	07/08/24	08/08/24	07/08/24	Declare and participate. Rationale: talks about what abaloparatide does and its side effects; and when the published technology appraisal states it is recommended.
Dr Nicola Peel	Topic advisor	Direct, non- financial professional and personal interests	Ferrar L, Jiang G, Eastell R, Peel NFA. Visual identification of vertebral fractures in osteoporosis using morphometric x-ray absorptiometry J Bone Miner Res 2003;18:933-938	2003	26/11/24		Specific, partial exclusion Nicola Peel, Topic Advisor, was excluded from

			Study included in evidence review				recommendation drafting on Diagnostic accuracy of DEXA with VFA at committee meeting 13 on 16 December 2024 at 14:10 due to the declared conflict of interest, in line with NICE's policy.
Dr Nicola Peel	Topic advisor	Direct, non-financial professional and personal interests	Ferrar L, Jiang G, Clowes JA, Peel NF, Eastell R. Comparison of densitometric and radiological vertebral fracture assessment using the algorithm-based qualitative (ABQ) method in postmenopausal women at low and high risk of fracture. J Bone Miner Res. 2008 Jan;23(1):103-11	2008	26/11/24		Specific, partial exclusion Nicola Peel, Topic Advisor, was excluded from recommendation drafting on Diagnostic accuracy of DEXA with VFA at committee meeting 13 on 16 December 2024 at 14:10 due to the declared conflict of interest, in line

							with NICE's policy.
Dr Nicola Peel	Topic advisor	Direct, non-financial professional and personal interests	Paggiosi MA, Finigan J, Peel N, Eastell R, Ferrar L. (2012). Supine vs decubitus lateral patient positioning in vertebral fracture assessment.. J Clin Densitom. doi:10.1016/j.jocd.2012.05.006	2012	26/11/24		Declare and participate. Rationale: position of patient during VFA is non-specific to the scope of the guideline.
Dr Nicola Peel	Topic advisor	Direct, non-financial professional and personal interests	Kuet KP, Charlesworth D, Peel NF. Vertebral fracture assessment scans enhance targeting of investigations and treatment within a fracture risk assessment pathway. Osteoporos Int. 2013 Mar;24(3):1007-14. doi: 10.1007/s00198-012-2255-8. Epub 2013 Jan 10. PubMed PMID: 23306821. Study not included as evidence.	2013	26/11/24		Specific, partial exclusion Nicola Peel, Topic Advisor, was excluded from recommendation drafting on diagnostic accuracy of DEXA with VFA at committee meeting 13 on 16 December 2024 at 14:10 due to the declared conflict of interest, in line with NICE's policy.

Osteoporosis: risk assessment, treatment and prevention of fragility fractures (update)

– interests register

Dr Nicola Peel	Topic advisor	Direct, non-financial professional and personal interests	Media interviews following receipt of Queen's award including general information about osteoporosis and bone health Quoted in several newspaper articles BBC Radio Sheffield 7.10.24 BBC Five Live 21.10.24	2024	26/11/24		Declare and participate. Rationale: interest is non-specific to the scope of the guideline.
Dr Nicola Peel	Topic advisor	Direct, non-financial professional and personal interests	Co-author of ROS publication: Guidelines for the provision of a clinical bone densitometry service	Aug 2025	22/09/25		Declare and participate. Rationale: interest is non-specific to the scope of the guideline.
Dr Nicola Peel	Topic advisor	Direct, non-financial professional and personal interests	Co-author of ROS publication: Effective secondary prevention of fragility fractures: clinical standards for Fracture Liaison Services	Sep 2025	22/09/25		Declare and participate. Rationale: interest is non-specific to the scope of the guideline.
Dr Nicola Peel	Topic advisor	Direct, non-financial professional and personal interests	Co-author of paper accepted for publication in Rheumatology: Laurina Bullock, Natasha Tyler, Jane Fleming, Emma M Clark, Simon Thomas, Christopher Gidlow, Cynthia P Iglesias-	Aug 2025	22/09/25		Declare and participate. Rationale: interest is non-specific to the

			Urrutia, Robert Horne, Ida Bentley, Ashley Hawarden, Nicola Peel, Celia L Gregson, Stuart H Ralston, Joanne Protheroe, Janet Lefroy, Sarah Ryan, Terence W O'Neill, Christian Mallen, Clare Jinks, Zoe Paskins. The Michael Mason Prize: Development and feasibility testing of a complex intervention to improve adherence to fracture prevention medicine				scope of the guideline.
Dr. Nicola peel	Topic advisor	Direct, Financial	Declared involvement with ROS (Royal Osteoporosis Society) and NICE implementation group for AI in vertebral fracture detection.	Sept 2025	07/10/25	Ongoing	Declare and participate. Rationale: interest in non-specific to the scope of the guideline.
Alison Ahmed	Pharmacist	Direct financial interest	Paid employment for Tameside and Glossop Integrated Care NHS Foundation Trust as Specialist Lead Pharmacist in Rheumatology	Feb 2000	24/02/23	Ongoing	Declare and participate. Rationale: salaried employment in pharmacy services.
Alison Ahmed	Pharmacist	Direct, non-financial professional and personal interests	Ordinary professional member of Royal Osteoporosis Society	2023	24/02/23	Ongoing	Declare and participate. Rationale: interest is non-specific to the

							scope of the guideline.
Alison Ahmed	Pharmacist	Direct, non-financial professional and personal interests	Ordinary member NW Osteoporosis Interest Group	2023	24/02/23	Ongoing	Declare and participate. Rationale: interest is non-specific to the scope of the guideline.
Alison Ahmed	Pharmacist	Direct, non-financial professional and personal interests	Member of British Society of Rheumatology Guideline Working Group/Committee	2023	24/02/23	Ongoing	Declare and participate. Rationale: interest is non-specific to the scope of the guideline.
Alison Ahmed	Pharmacist	Direct, non-financial professional and personal interests	Ordinary member of the British Society of Rheumatology	2019	24/02/23	Ongoing	Declare and participate. Rationale: interest is non-specific to the scope of the guideline.
Alison Ahmed	Pharmacist	Direct, non-financial professional and personal interests	Ordinary member of Royal Pharmaceutical Society of Great Britain	2020	24/02/23	Ongoing	Declare and participate. Agreed by the GL and chair in February 2023.

Osteoporosis: risk assessment, treatment and prevention of fragility fractures (update)

– interests register

							Rationale: interest is non- specific to the scope of the guideline.
Alison Ahmed	Pharmacist	Direct financial interest	Received honorarium from Abbvie pharmaceutical company, for a non-promotional presentation. The presentation was to a dermatology team (consultants, nurses, business managers) at a neighboring trust in Manchester. The presentation was to discuss the structure of our rheumatology service (clinic arrangement, MDT working, prescribing and monitoring, business cases). The presentation was non-promotional and did not discuss or promote any medications.	5/10/23	12/10/23	5/10/23	Declare and participate. Rationale: interest is non- specific to the scope of the guideline.
Alison Ahmed	Pharmacist	Direct financial interest	Received honorarium from Amgen pharmaceutical company, as an adviser on Ustekinumab biosimilar biological medicines. (Not related to Osteoporosis, or osteoporosis medication)	23/05/24	30/07/24	23/05/20 24	Declare and participate. Rationale: interest is non- specific to the scope of the guideline.
Alison Ahmed	Pharmacist	Direct, non- financial professional	Royal Osteoporosis Society Medication Support Programme: 'A programme aimed to support	04/06/24	30/07/24	Ongoing	Declare and participate.

		and personal interests	informed decisions for people advised to take osteoporosis medicines, by developing a digital programme that provides professional support and information'. Invited as a healthcare professional to contribute to development of this digital programme.				Rationale: interest is non-specific to the scope of the guideline.
Alison Ahmed	Pharmacist	Direct financial interests	Received honorarium from University of Manchester to prepare and deliver a workshop to MPharm Diploma students on Rheumatoid Arthritis. Not related to osteoporosis or osteoporosis medication. Interest arose/ceased on: 01 04 2025	01/04/25	03/06/25	01/04/25	Declare and participate. Rationale: interest is non-specific to the scope of the guideline.
Alison Ahmed	Pharmacist	Direct financial interests	Attendance at British Society of Osteoporosis Annual Conference. Registration paid for by UCB. Interest arose on 28/04/2025 and ceased on: 30/04/2025.	28/04/25	03/06/25	30/04/25	Declare and participate. Rationale: This is a financial interest covering reasonable travel, accommodation and attendance costs and topic is non-specific to the scope of the guideline.

Irene Baker	Lay member		Nil				
Sherwin Criseno	Nurse Specialist	Direct financial interest	Nurse Consultant/Lead Nurse in Endocrinology and Metabolism	Apr 2021	02/02/23	Ongoing	Declare and participate. Rationale: salaried employment in the NHS
Sherwin Criseno	Nurse Specialist	Direct financial interest	Visiting lecturer, University of Birmingham	Mar 2022	02/02/23	28/06/23	Declare and participate. Rationale: salaried employment in medical education.
Sherwin Criseno	Nurse Specialist	Direct, non-financial professional and personal interests	Member, Society for Endocrinology, Bone and Calcium Network	Nov 2019	02/02/23	Ongoing	Declare and participate. Rationale: interest is non-specific to the scope of the guideline.
Sherwin Criseno	Nurse Specialist	Direct financial interest	Attendance to the World Osteoporosis Congress. Travel, accommodation and registration paid for by UCB.	04/05/23	12/10/23	07/05/23	Declare and participate. Rationale: basic travel, accommodation

							and registration fees are acceptable within NICE's policy.
Sherwin Criseno	Nurse Specialist	Direct, non-financial professional and personal interests	Honorary Associate Clinical Professor of Nursing, University of Birmingham	29/06/23	12/10/23	Ongoing	Declare and participate. Rationale: salaried employment in medical education. This is a non-financial interest.
Sherwin Criseno	Nurse Specialist	Direct financial interest	Invited speaker (UCB): Professional development pathway for nurses and allied health professionals. The topic is not on osteoporosis but on Nurses' professional development pathway (audience will be nurses and allied health professionals working in the field of osteoporosis). Honorarium received.	21/03/24	20/02/2024	21/03/24	Declare and participate. Rationale: This is a financial interest but lecturing on career pathways is non-specific to the scope of the guideline.
Sherwin Criseno	Nurse Specialist	Direct, non-financial professional	Trustee for the Society for Endocrinology	04/04/24	20/02/2024	Ongoing	Declare and participate. Rationale: interest is non-

Osteoporosis: risk assessment, treatment and prevention of fragility fractures (update)

– interests register

		and personal interests					specific to the scope of the guideline.
Prof Elaine Dennison	Epidemiologist	Direct financial interest	Honorary consultant rheumatologist at University Hospitals Southampton. This role is not paid separately.	2002	On app	Ongoing	Declare and participate. Rationale: salaried employment in the NHS.
Prof Elaine Dennison	Epidemiologist	Direct financial interest	Professor of Musculoskeletal Epidemiology, MRC Lifecourse Epidemiology Centre, Southampton and Professor of Clinical Research, Victoria University of Wellington	July 2011	On app	Ongoing	Declare and participate. Rationale: salaried employment in medical education.
Prof Elaine Dennison	Epidemiologist	Direct, non- financial professional and personal interests	Ordinary professional member Royal Osteoporosis Society	2002	On app	Ongoing	Declare and participate. Rationale: Interest is non- specific to the scope of the guideline.
Prof Elaine Dennison	Epidemiologist	Direct, non- financial professional	Member Versus Arthritis research committee	Nov 2022	On app	Ongoing	Declare and participate. Rationale: Interest is non-

Osteoporosis: risk assessment, treatment and prevention of fragility fractures (update)

– interests register

		and personal interests					specific to the scope of the guideline.
Prof Elaine Dennison	Epidemiologist	Direct, non-financial professional and personal interests	Member International Osteoporosis Foundation Committee of Scientific Advisers	2010	On app	Ongoing	Declare and participate. Rationale: Interest is non-specific to the scope of the guideline.
Prof Elaine Dennison	Epidemiologist	Direct, non-financial professional and personal interests	Member British Society of Rheumatology Heberden committee	2020	On app	Ongoing	Declare and participate. Rationale: Interest is non-specific to the scope of the guideline.
Prof Elaine Dennison	Epidemiologist	Direct, non-financial professional and personal interests	Attendance at sponsored non-promotional meeting to discuss local romosozumab pathway. I did not present data and was an attendee only. I have not been responsible for initiating any guidelines or pathways for use of the drug. There was no honorarium but the event was catered.	Sept 2023	22/11/23	Sept 2023	Declare and participate. Rationale: local pathway is non-specific to the scope of the guideline.
Prof Elaine Dennison	Epidemiologist	Direct financial interest	Gave talk at Royal Osteoporosis Society annual meeting on bone	Sept 2023	22/11/23	Sept 2023	Declare and participate.

Osteoporosis: risk assessment, treatment and prevention of fragility fractures (update)

– interests register

			health in inflammatory arthritis (expenses – travel and accommodation covered by ROS). This was a non-promotional talk and I did not receive an honorarium.				Rationale: This is a financial interest but teaching on current practice in osteoporosis is non-specific to the scope of the guideline.
Prof Elaine Dennison	Epidemiologist	Non-financial interest	I participated in trials using the EchoLight technology, for which I received no personal remuneration. However, I have been named as an author on some scientific papers that have shared research fundings published in peer reviewed journals.	2019	29/01/24	2022	Declare and participate. Rationale: EchoLight technology is non-specific to the scope of the guideline.
Prof Elaine Dennison	Epidemiologist	Direct financial interest	Speaker on non-promotional educational lectures commissioned by the International Osteoporosis Foundation (rare adverse effects of bisphosphonate treatment; HRT and Selective Estrogen Receptor Modulators). The payment received was an honorarium). Lectures on IOF platform where they can be viewed.	Jan 2025	07/03/25		Declare and participate. Rationale: rare adverse events is non-specific to the scope of the guideline.

Prof Elaine Dennison	Epidemiologist	Direct financial interest	Editor for non-promotional book on osteoporosis, produced by Karger. The payment received was an honorarium.	Mar 2025	07/03/25	2025	Declare and participate. Rationale: Interest is non-specific to the scope of the guideline.
Prof Elaine Dennison	Epidemiologist	Direct non-financial	Attending a non-promotional educational meeting (10 – 11 October 2025); not company-sponsored, no drugs named.	Oct 2025	04/11/25	2025	Declare and participate. Rationale: Interest is non-specific to the scope of the guideline.
Dr Paul Hamilton	Medical Practitioner – Bone Density	Direct financial interest	Honorary Consultant Chemical Pathologist in the Belfast Health and Social Care Trust (i.e. I am an NHS/HSC doctor)	Apr 2019	On app	Ongoing	Declare and participate. Rationale: Salaried employment in the NHS.
Dr Paul Hamilton	Medical Practitioner – Bone Density	Direct financial interest	Clinical Senior Lecturer at Queen's University, Belfast	Apr 2019	On app	Ongoing	Declare and participate. Rationale: Salaried

Osteoporosis: risk assessment, treatment and prevention of fragility fractures (update)

– interests register

							employment in medical education.
Dr Paul Hamilton	Medical Practitioner – Bone Density	Direct financial interest	Received an honorarium for a lipid-related talk and sat on an advisory board.				Declare and participate. Rationale: Interest is non-specific to the scope of the guideline.
Dr Nam Hunger-Nguyen			Nil				
Prof Karen Knapp	Diagnostic Radiographer	Direct financial interest	DXA reporting radiographer for In Health, covering reporting for Dorset County Hospital ~ 30 reports per week. Clinical work providing a reporting service. This is in addition to my academic role, but is a clinical service delivery and not an advisory role	Feb 2021	On app	Ongoing	Declare and participate. Rationale: Salaried employment in a commercial organisation providing NHS services.
Prof Karen Knapp	Diagnostic Radiographer	Direct financial interest	Associate Professor in Musculoskeletal Imaging and Head of the Department of Health and Care Professions Faculty of Health and Life Sciences, University of Exeter		On app	Ongoing	Declare and participate. Rationale: Salaried employment in medical education.

Prof Karen Knapp	Diagnostic Radiographer	Direct, non-financial professional and personal interests	Chair of the Bone Densitometry Training and accreditation panel for the Royal Osteoporosis Society. Leading committee which delivers the national training scheme for DXA and develops guidance documents.	Feb 2020	On app	Ongoing	Declare and participate. Rationale: Interest is non-specific to the scope of the guideline.
Prof Karen Knapp	Diagnostic Radiographer	Direct, non-financial professional and personal interests	Chair of the Education and Career Framework V4.0 Steering group for the College of Radiographers. Leading the group, commissioning a Delphi study, developing and publishing the new guidelines	Mar 2020	On app	Nov 2022	Declare and participate. Rationale: Interest is non-specific to the scope of the guideline.
Prof Karen Knapp	Diagnostic Radiographer	Direct, non-financial professional and personal interests	Analyzed data and drafted an all-party parliamentary group document regarding DXA waiting list times for the Royal Osteoporosis Society	Nov 2021	On app	Ongoing	Declare and participate. Rationale: Interest is non-specific to the scope of the guideline.
Prof Karen Knapp	Diagnostic Radiographer	Indirect financial interest	Royal Osteoporosis Society grant to review DXA reporting. The review is led by Keele University and being used is a community of practice technique to understand how to optimise DXA reports to ensure that referrers and patients get the information they need to	Jan 2020	On app	Ongoing	Declare and participate. Rationale: Interest is non-specific to the scope of the guideline.

			action treatment or monitoring as appropriate.				
Prof Karen Knapp	Diagnostic Radiographer	Indirect, non-financial professional and personal interest	Collaboration agreement with Bindex for a PhD student project. The Bindex collaboration agreement means that there is a standard price for leasing the Bindex rather than the usual price per scan.	Aug 2020	On app	Ongoing	Declare and participate. Rationale: Interest is non-specific to the scope of the guideline.
Prof Karen Knapp	Diagnostic Radiographer	Direct financial interest	Attended and presented at the Total Radiology Conference in Dubai Jan representing the European Federation of Radiographer Societies to discuss research in radiography and capacity building for the workforce. Standard accommodation and travel funded by the conference. Did two presentations: one on expanding capacity in radiography education through degree apprenticeships in the UK; the other on increasing research capacity in the UK.	Feb 2022	On app		Declare and participate. Rationale: Interest is non-specific to the scope of the guideline.
Prof Karen Knapp	Diagnostic Radiographer	Direct financial interest	Attended the Arab Radiology Meeting in Dubai, October 2022 representing the Society and College of Radiographers to present on the Education and Career Framework as chair of the panel. Standard accommodation	Oct 2022	On app		Declare and participate. Rationale: Interest is non-specific to the

			and travel funded by the conference. Did a presentation on on the Education and Career Framework for the College of Radiographers and on Muon Tomography.				scope of the guideline.
Prof Karen Knapp	Diagnostic Radiographer	Direct financial interest	Royalties from Carvers' Medical Imaging textbook.	March 2023	April 2023	Ongoing	Declare and participate. Rationale: Interest is non-specific to the scope of the guideline.
Prof Karen Knapp	Diagnostic Radiographer	Direct financial interest	European Society of Radiology conference (ECR). 300 euros funding provided for travel to the conference. Accommodation was paid for by the European Federation of Radiographer Societies. Registration was also paid. Did a presentation on was on virtual grids, not related to osteoporosis.	March 2023	April 2023		Declare and participate. Rationale: Interest is non-specific to the scope of the guideline.
Prof Karen Knapp	Diagnostic Radiographer	Direct, non-financial professional and personal interests	Clinical committee member, Royal Osteoporosis Society	Feb 2020	April 2023	Ongoing	Declare and participate. Rationale: Interest is non-specific to the scope of the guideline.

Osteoporosis: risk assessment, treatment and prevention of fragility fractures (update)

– interests register

Prof Karen Knapp	Diagnostic Radiographer	Direct, non-financial professional and personal interests	Chair of the Research Committee for the European Federation of Radiographer Societies. Key responsibilities – to lead the group of 10 members to increase radiographer research capacity and quality across Europe.	April 2021	April 2023	April 2023	Declare and participate. Rationale: Interest is non-specific to the scope of the guideline.
Prof Karen Knapp	Diagnostic Radiographer	Direct, non-financial professional and personal interests	Health Education England (SW) member of the Education Advisory group	January 2021	April 2023	Ongoing	Declare and participate. Rationale: Interest is non-specific to the scope of the guideline.
Prof Karen Knapp	Diagnostic Radiographer	Indirect financial interest	Husband – shares in GSK (<£1k)	May 2020	April 2023	Ongoing	Declare and participate. Rationale: Interest is non-specific, GSK does not produce osteoporosis medicines.
Prof Karen Knapp	Diagnostic Radiographer	Indirect financial interest	Research grant from Royal Osteoporosis Society for research into DXA reporting (co-applicant) ~£65k.	January 2021	April 2023	Ongoing	Declare and participate. Rationale: Interest is non-specific to the

							scope of the guideline.
Prof Karen Knapp	Diagnostic Radiographer	Indirect financial interest	Research grant from Royal Osteoporosis Society for research into an activity app for bone health (Co-app) ~£10k	January 2021	April 2023	Oct 2022	Declare and participate. Rationale: Interest is non-specific to the scope of the guideline.
Prof Karen Knapp	Diagnostic Radiographer	Indirect financial interest	Research grant from Animal Free Research to explore compounds for early osteoarthritis treatment (Co-app) ~£180k	January 2023	April 2023	January 2025	Declare and participate. Rationale: Interest is non-specific to the scope of the guideline.
Prof Karen Knapp	Diagnostic Radiographer	Indirect financial interest	Research grant from Gilead for a feasibility study into a treatment for Long Covid ~ £1.25M (Co-app)	Dec 2022	April 2023	September 2024	Declare and participate. Rationale: Interest is non-specific to the scope of the guideline.
Prof Karen Knapp	Diagnostic Radiographer	Direct financial interest	Invited speaker at Osteoporosis conference, September. Registration and standard accommodation funded. Speaking	Sept 2023	April 2023	Sept 2023	Declare and participate. Rationale: Interest is non-specific to the

			on advanced and consultant practice in osteoporosis care.				scope of the guideline.
Prof Karen Knapp	Diagnostic Radiographer	Direct financial interest	Invited speaker at African Radiology Society Conference June 2024. Conference funding registration and standard accommodation. Flights paid by University of Exeter. Two presentations: one on imaging in obesity and impacts on radiation dose; the other on virtual grids and radiation dose reduction.	June 2023	April 2023	June 2023	Declare and participate. Rationale: Interest is non-specific to the scope of the guideline.
Prof Karen Knapp	Diagnostic Radiographer	Direct, non-financial professional and personal interests	Presented at the APPG on Osteoporosis and Bone Health: DXA (Bone Density Scanning) Workforce, Infrastructure and Quality Hearing. No payment	May 2023	June 2023		Declare and participate. Rationale: Interest is non-specific to the scope of the guideline.
Prof Karen Knapp	Diagnostic Radiographer	Direct, non-financial professional and personal interests	Online presentation on DXA scans - best practice update on technical points on how to optimise scanning and how to report results. MA Healthcare National Conference Osteoporosis 2023. No payment	May 2023	June 2023		Declare and participate. Rationale: Interest is non-specific to the scope of the guideline.
Prof Karen Knapp	Diagnostic Radiographer	Indirect financial interest	Awarded Innovate UK grant in partnership with Adaptix to develop dual energy x-ray digital	Jul 2023	June 2023	Ongoing (June 2025)	Declare and participate.

Osteoporosis: risk assessment, treatment and prevention of fragility fractures (update)

– interests register

			tomosynthesis. July 2023 – June 2025				Rationale: Interest is non-specific to the scope of the guideline.
Prof Karen Knapp	Diagnostic Radiographer	Direct financial interest	Three conference workshops presented as an invited speaker and funding for ROS conference, including hotel.	13/09/23	12/10/23	14/09/23	Declare and participate. Rationale: Interest is non-specific to the scope of the guideline.
Prof Karen Knapp	Diagnostic Radiographer	Direct, non-financial professional and personal interests	Senate member elected to Council for the University of Exeter.	11/10/23	12/10/23	Sept 2026	Declare and participate. Rationale: Interest is non-specific to the scope of the guideline.
Prof Karen Knapp	Diagnostic Radiographer	Direct financial interest	Presentations on emerging technologies for the diagnosis of osteoporosis and on scatter correction software in projection radiography at the 2 nd Radiology Conference of the Ministry of Health and Population, Cairo, Egypt. Flights and accommodation funded by conference.	01/11/23	22/11/23	02/11/23	Declare and participate. Rationale: Interest is non-specific to the scope of the guideline.

Prof Karen Knapp	Diagnostic Radiographer	Direct financial interest	Co-editor of Person-Centered care in Radiology	Mar 2023	22/11/23	Ongoing	Declare and participate. Rationale: Interest is financial interest but non-specific to the scope of the guideline.
Prof Karen Knapp	Diagnostic Radiographer	Direct non-financial professional and personal interests	Book chapter on Person-centred care in DXA and secondary fracture prevention – co-author with Jill Griffin in Person-centred care in Radiology: International Perspectives on High Quality Care CRS Press	Feb 2024	26/03/24	Ongoing	Declare and participate. Rationale: This is non-specific to the scope of the guideline.
Prof Karen Knapp	Diagnostic Radiographer	Direct financial interest	Part funded to attend the European Congress of Radiology in Vienna Feb / Mar 2024 (conference fees plus partial expenses) as an invited speaker for a talk on the complex interventions framework.	Feb 2024	26/03/24	Mar 2024	Declare and participate. Rationale: This is a financial interest covering reasonable travel, accommodation and attendance costs and topic is non-specific to the scope of the guideline.

Prof Karen Knapp	Diagnostic Radiographer	Direct financial interest	In contract as co-editor of a textbook on Artificial Intelligence for Radiographers. Christina Malamateniou, Aarthi Ramlaul, Karen Knapp and Maryann Hardy. Primarily radiography but may contain some information on vertebral fracture prediction. Karen Knapp is not the author of the chapter, which could include this. Update 2025: This is a genetic AI in radiography book and not focused on osteoporosis and has a single case study relating to vertebral fracture assessment in CT, which is based on cervical spine fractures.	Oct 2023 – publication date due in 2025	12/6/24	Ongoing	Declare and participate. Rationale: At the time of public consultation, this material was not in the public domain as it had not yet been published. Additionally, the subject that will be covered in the textbook does not present a conflict with the scope of the guideline.
Prof Karen Knapp	Diagnostic Radiographer	Direct financial interest	DXA reporting radiographer for InHealth	Feb 2021	26/03/25	August 2024	Declare and participate. Rationale: Salaried employment in a commercial organisation providing NHS services.
Prof Karen Knapp	Diagnostic Radiographer	Direct financial interest	Partial funding to attend European Congress of Radiology as an invited speaker. Travel and	Feb 2025	26/03/25	March 2025	Declare and participate.

			<p>accommodation paid for in line with NICE policy. Sessions:</p> <p>We've travelled the road before: ask me anything about my successful research career (moderator)</p> <p>Promoting compassionate care education and training in radiography (invited presentation)</p> <p>Effective writing and publishing in Radiography (invited presentation)</p> <p>Advancing radiography: impact, innovation and integrated healthcare (moderator)</p>				<p>Rationale: This is a financial interest covering reasonable travel, accommodation and attendance costs and topic is non-specific to the scope of the guideline.</p>
Prof Karen Knapp	Diagnostic Radiographer	Direct, non-Financial	Currently supervising a PhD student researching vertebral fractures.	Sept 2025	30/09/25	Ongoing	<p>Declare and participate</p> <p>Rationale: interest is non-specific to the scope of the guideline.</p>
Dr Iain MacLeod	Radiologist	Direct financial interest	Employed as consultant radiologist, Nottingham University Hospitals NHS Trust	Sept 2018	12/10/23	Ongoing	<p>Declare and participate.</p> <p>Rationale: Salaried employment in the NHS.</p>

Dr Iain MacLeod	Radiologist	Direct financial interest	Registration, travel and accommodation funded by GE Healthcare to speak as a panel member at a session at the Radiological Society of North America annual meeting	26/11/23	12/10/23	30/11/23	Declare and participate. Rationale: Interest is non-specific to the scope of the guideline.
Dr Kay Morgan	AHP	Direct financial interest	Paid employment for Primary Care Physio as a Lead First Contact Practitioner/ Advanced Physiotherapist. Working clinically in GP practices in Stalybridge Dukinfield and Mossley Primary Care Network. This role involves screening, investigation and management of patients with osteoporosis as well as education on preventative measures and staff training on the subject.	Oct 2021	02/02/23	18/10/23	Declare and participate. Rationale: Salaried employment in the NHS.
Dr Kay Morgan	AHP	Direct financial interest	Advanced clinical practitioner at Stalybridge Dukinfield and Mossley Primary Care Network.	19/10/23	06/10/23	03/05/24	Declare and participate. Rationale: Salaried employment in the NHS.
Dr Kay Morgan	AHP	Direct financial interest	Full-time employment Advanced Clinical Practitioner Manchester University NHS Foundation Trust – Community	06/05/24	10/05/24		Declare and participate. Rationale: Salaried

			Hospital at Home/ Crisis Response				employment in the NHS.
Dr Kay Morgan	AHP	Direct financial interest	Part time work (1 or 2 Saturdays per month) Advanced Clinical Practitioner Hyde Primary Care Network	April 2024	10/05/24		Declare and participate. Rationale: Salaried employment in the NHS.
Dr Kay Morgan	AHP	Direct financial interest	Greater Manchester Federation – Teaching role paid on frailty. Providing frailty teaching to care home nurses and nursing associates.	March 2024	10/05/24		Declare and participate. Rationale: This is a financial interest but teaching about frailty is non-specific to the scope of the guideline.
Dr Rachel Muir	Physician for Elderly	Direct financial interest	Employed as Specialty Doctor by NHS Tayside as part of the Orthogeriatric Liaison Service	2017	On app	Ongoing	Declare and participate. Rationale: Salaried employment in the NHS.
Dr Rachel Muir	Physician for Elderly	Direct, non-financial professional	Co-author of local NHS osteoporosis guidelines	2019	On app	Ongoing	Declare and participate. Rationale: Interest is non-

		and personal interests					specific to the scope of the guideline.
Nicholas Pipkin	Lay member		nil				
Prof Stuart Ralston	Medical Practitioner – Bone Density	Direct financial interest	Professor of Rheumatology, University of Edinburgh, UK	2005	On app	Ongoing	Declare and participate. Rationale: Salaried employment in higher education.
Prof Stuart Ralston	Medical Practitioner – Bone Density	Direct financial interest	Honorary Consultant Rheumatologist, NHS Lothian Clinical Lead Osteoporosis service NHS Lothian	2005	On app	Ongoing	Declare and participate. Rationale: Salaried employment in the NHS.
Prof Stuart Ralston	Medical Practitioner – Bone Density	Direct financial interest	Clinical Director of Rheumatology NHS Lothian.	2012	On app	Ongoing	Declare and participate. Rationale: Salaried employment in the NHS.

Prof Stuart Ralston	Medical Practitioner – Bone Density	Indirect, financial interest	Chair of SIGN 142 guideline on osteoporosis	2013	On app	2015	Declare and participate. Rationale: guidance developed in accordance with international criteria.
Prof Stuart Ralston	Medical Practitioner – Bone Density	Indirect, financial interest	Chair of SIGN 142 guideline on osteoporosis update	2019	On app	2020	Declare and participate. Rationale: guidance developed in accordance with international criteria.
Prof Stuart Ralston	Medical Practitioner – Bone Density	Indirect, financial interest	Donation to institution of Teriparatide as IMP for clinical trial in osteogenesis imperfecta. Eli Lilly. The donation was specifically for the clinical trial. I am chief investigation on the trial as well as local PI. Expected to end date 30 th of April 2025. The donation will cease in Nov 2024 when the treatment phase completes.	Jul 2018	On app	Ongoing	Declare and participate. Rationale: Drug donated to institution as part of a clinical trial only. There is no direct financial gain to the member.

Prof Stuart Ralston	Medical Practitioner – Bone Density	Indirect financial interest	Payment to Institution for lectures relating to the management of severe osteoporosis (UCB/ Amgen). The lecture content was general relating to my own experience but also drawing on findings from clinical trials and SIGN 142 guidelines.	Sept 2021	On app	Sept 2022	Declare and participate. Rationale: Interest is non-specific to the scope of the guideline.
Prof Stuart Ralston	Medical Practitioner – Bone Density	Direct, non-financial professional and personal interests	Payment to institution for recruitment into clinical trial and registry study for hypophosphataemic rickets (Kyowa Kirin)	Oct 2016	On app	Ongoing	Declare and participate. Rationale: Interest is non-specific to the scope of the guideline.
Prof Stuart Ralston	Medical Practitioner – Bone Density	Direct, non-financial professional and personal interests	Chairman of the Paget's Association (a charity focused on Paget's disease of bone)	Sept 2018	On app	Ongoing	Declare and participate. Rationale: Interest is non-specific to the scope of the guideline.
Prof Stuart Ralston	Medical Practitioner – Bone Density	Indirect, financial interest	Payment to institution from Kyowa Kirin for lecture and consultancy on the management or hypophosphataemic rickets.	Apr 2022	26/4/23	April 2023	Declare and participate. Rationale: Interest is non-specific to the scope of the guideline.

Prof Stuart Ralston	Medical Practitioner – Bone Density	Indirect financial interest	Donation of zoledronic acid to institution as IMP for clinical trial in Paget's disease of bone.	Dec 2008	26/4/23	May 2023	Declare and participate. Rationale: Interest is non-specific to the scope of the guideline.
Prof Stuart Ralston	Medical Practitioner – Bone Density	Direct, non-financial professional and personal interests	<p>Tsourdi E, Zillikens MC, Meier C, Body JJ, Gonzalez Rodriguez E, Anastasilakis AD, Abrahamsen B, McCloskey E, Hofbauer LC, Guanabens N, Obermayer-Pietsch B, Ralston SH, Eastell R, Pepe J, Palermo A, Langdahl BL. Fracture risk and management of discontinuation of denosumab therapy: a systematic review and position statement by ECTS. J Clin Endocrinol Metab 2020; 106:264-281.</p> <p>Tsourdi E, Langdahl B, Cohen-Solal M, Aubry-Rozier B, Eriksen EF, Gueñabens N, Obermayer-Pietsch B, Ralston SH, Eastell R, Zillikens MC. Discontinuation of Denosumab therapy for osteoporosis: A systematic review and position statement by ECTS. Bone. 2017 Dec;105:11-17. doi: 10.1016/j.bone.2017.08.003.</p>	2020	9/9/24		Declare and participate. Rationale: guidance developed in accordance with international criteria.

Prof Stuart Ralston	Medical Practitioner – Bone Density	Direct, non-financial professional and personal interests	Gooding T. Pregnancy associated osteoporosis: NHS is “failing women” with rare but serious condition BMJ 2024; 385 :q1046 doi:10.1136/bmj.q1046. Committee member quoted in article in relation to management of pregnancy associated osteoporosis. .	2024	9/9/24		Declare and participate. Rationale: interest is non-specific to scope of guideline.
Prof Stuart Ralston	Medical Practitioner – Bone Density	Direct, non-financial professional and personal interests	Leading on Pregnancy Associated Osteoporosis (PAO) research study into risk factors for PAO funded by the Royal Osteoporosis Society. https://www.ed.ac.uk/centre-genomic-medicine/research-groups/ralston-group/pao-study .	2024	9/9/24		Declare and participate. Rationale: interest is non-specific to scope of guideline.
Prof Stuart Ralston	Medical Practitioner – Bone Density	Direct, non-financial professional and personal interests	Orhadje E, Berg K, Hauser B, Ralston SH. Clinical features, incidence and treatment outcome in pregnancy-associated osteoporosis: a single-centre experience over two decades. Calcif Tissue Int 2023;113:591-6. doi:10.1007/s00223-023-01139-3	2023	9/9/24		Declare and participate. Rationale: interest is non-specific to scope of guideline.
Prof Stuart Ralston	Medical Practitioner – Bone Density	Direct, non-financial professional and personal interests	Ralston KAP, Hauser B, Paskins Z, Ralston SH. Effective Communication and the Osteoporosis Care Gap. J Bone Miner Res. 2022	2022	9/9/24		Declare and participate. Rationale: interest is non-

			Nov;37(11):2049-2054. doi: 10.1002/jbmr.4701.				specific to scope of guideline.
Prof Stuart Ralston	Medical Practitioner – Bone Density	Direct, non-financial professional and personal interests	Ralston KAP, Phillips J, Krause A, Hauser B, Ralston SH. Communicating Absolute Fracture Risk Reduction and the Acceptance of Treatment for Osteoporosis. Calcif Tissue Int. 2022 Jun;110(6):698-702. doi: 10.1007/s00223-022-00948-2.	2022	9/9/24		Declare and participate. Rationale: interest is non-specific to scope of guideline.
Prof Stuart Ralston	Medical Practitioner – Bone Density	Direct, non-financial professional and personal interests	Hampson G, Stone M, Lindsay JR, Crowley RK, Ralston SH. Diagnosis and Management of Osteoporosis During COVID-19: Systematic Review and Practical Guidance. Calcif Tissue Int. 2021 Oct;109(4):351-362. doi: 10.1007/s00223-021-00858-9	2021	9/9/24		Declare and participate. Rationale: interest is non-specific to scope of guideline.
Prof Stuart Ralston	Medical Practitioner – Bone Density	Direct, non-financial professional and personal interests	Kovacs CS, Ralston SH. Presentation and management of osteoporosis presenting in association with pregnancy or lactation. Osteoporos Int. 2015 Sep;26(9):2223-41. doi: 10.1007/s00198-015-3149-3. Epub 2015 May 5. PMID: 25939309.	2015	9/9/24		Declare and participate. Rationale: interest is non-specific to scope of guideline.
Prof Stuart Ralston	Medical Practitioner – Bone Density	Direct, non-financial professional	Ralston SH, Fraser J. Diagnosis and management of osteoporosis. Practitioner. 2015	2015	9/9/24		Declare and participate.

Osteoporosis: risk assessment, treatment and prevention of fragility fractures (update)

– interests register

		and personal interests	Dec;259(1788):15-9, 2. https://www.thepractitioner.co.uk/docs/1788-Dec-2015/SympOsteopo-1788.pdf				Rationale: summarises evidence and practice based on 2015 SIGN clinical guidelines for osteoporosis.
Prof Stuart Ralston	Medical Practitioner – Bone Density	Direct, non-financial professional and personal interests	Oswald AJ, Berg J, Milne G, Ralston SH. Teriparatide treatment of severe osteoporosis reduces the risk of vertebral fractures compared with standard care in routine clinical practice. <i>Calcif Tissue Int.</i> 2014 Feb;94(2):176-82. doi: 10.1007/s00223-013-9788-5.	2014	9/9/24		Declare and participate. Rationale: observational evidence not included as part of guideline.
Prof Stuart Ralston	Medical Practitioner – Bone Density	Direct, non-financial professional and personal interests	Lekamwasam S, Adachi JD, Agnusdei D, Bilezikian J, Boonen S, Borgström F, Cooper C, Perez AD, Eastell R, Hofbauer LC, Kanis JA, Langdahl BL, Lesnyak O, Lorenc R, McCloskey E, Messina OD, Napoli N, Obermayer-Pietsch B, Ralston SH, Sambrook PN, Silverman S, Sosa M, Stepan J, Suppan G, Wahl DA, Compston JE; Joint IOF–ECTS GIO Guidelines Working Group. An appendix to the 2012 IOF-ECTS guidelines for the management of	2012	9/9/24		Declare and participate. Rationale: guidance developed in accordance with international criteria.

			glucocorticoid-induced osteoporosis. Arch Osteoporos. 2012;7:25-30. doi: 10.1007/s11657-012-0070-7.				
Prof Stuart Ralston	Medical Practitioner – Bone Density	Direct, non-financial professional and personal interests	Lekamwasam S, Adachi JD, Agnusdei D, Bilezikian J, Boonen S, Borgström F, Cooper C, Diez Perez A, Eastell R, Hofbauer LC, Kanis JA, Langdahl BL, Lesnyak O, Lorenc R, McCloskey E, Messina OD, Napoli N, Obermayer-Pietsch B, Ralston SH, Sambrook PN, Silverman S, Sosa M, Stepan J, Suppan G, Wahl DA, Compston JE; Joint IOF-ECTS GIO Guidelines Working Group. A framework for the development of guidelines for the management of glucocorticoid-induced osteoporosis. Osteoporos Int. 2012 Sep;23(9):2257-76. doi: 10.1007/s00198-012-1958-1.	2012	9/9/24		Declare and participate. Rationale: guidance developed in accordance with international criteria.
Prof Stuart Ralston	Medical Practitioner – Bone Density	Direct, non-financial professional and personal interests	Cummins NM, Poku EK, Towler MR, O'Driscoll OM, Ralston SH. clinical risk factors for osteoporosis in Ireland and the UK: a comparison of FRAX and QFractureScores. Calcif Tissue Int. 2011 Aug;89(2):172-7. doi: 10.1007/s00223-011-9504-2.	2011	9/9/24		Declare and participate. Rationale: study not included as part of guideline evidence.

Prof Stuart Ralston	Medical Practitioner – Bone Density	Direct, non-financial professional and personal interests	Ralston SH, de'Lara G, Farquhar DJ, Gallacher SJ, Hannan J, McLellan AR. NICE on osteoporosis. Women over 75 with fragility fractures should have DEXA. BMJ. 2009 Jun 9;338:b2340. doi: 10.1136/bmj.b2340. PMID: 19509045. https://www.bmj.com/content/338/bmj.b2340	2009	9/9/24		Declare and participate. Rationale: comment on the potential impact an old NICE guideline recommendation applied to population from author's practice area.
Prof Stuart Ralston	Medical Practitioner – Bone Density	Direct, non-financial professional and personal interests	Member of the Board of Trustees of the Charity Pregnancy-Associated Osteoporosis UK	Oct 2024	27/01/25	Ongoing	Declare and participate. Rationale: interest is non-specific to scope of guideline.
Prof Stuart Ralston	Medical Practitioner – Bone Density	Indirect	Co-applicant on a grant application to UCB to evaluate clinical outcomes of anabolic therapy in the treatment of osteoporosis	Oct 2022	27/01/25	Ongoing	Declare and participate. Rationale: interest is non-specific to scope of guideline.
Prof Stuart Ralston	Medical Practitioner – Bone Density	Direct, non-financial	Disclosed authorship of a paper related to pregnancy associated osteoporosis.	Sept 2025	30/09/25	Ongoing	Declare and participate. Rationale: interest is non-

							specific to scope of guideline.
Dr Rajesh Varma	GP	Direct financial interest	GP Partner, The Colne Practice, Rickmansworth	Sep 2021	On app	Ongoing	Declare and participate. Rationale: Employment in the NHS with no scope for direct financial gain from the guideline.
Dr Rajesh Varma	GP	Direct financial interest	BESINS HEALTHCARE UK Sponsored speaker talks on HRT and menopause, including oestrogel and utrogestan This talk was regarding the symptoms of menopause (e.g. hot flushes, mood changes and joint pains) and did not refer to HRT being used as a treatment for osteoporosis. Payment expenses were received.	08/03/24	24/05/24	08/03/24	Declare and participate. Rationale: Interest is non-specific to the scope of the guideline.
Dr Rajesh Varma	GP	Direct financial interest	DAIICHI SANKYO Sponsored speaker talks on Lipid lowering therapies, including bempedoic acid Payment expenses were received.	08/03/24	24/05/24	08/03/24	Declare and participate. Rationale: Interest is non-specific to the scope of the guideline.

Dr Rajesh Varma	GP	Direct financial interest	PFIZER Sponsored speaker talks on Rimegepant (migraine treatment drug)	08/03/24	24/05/24	08/03/24	Declare and participate. Rationale: Interest is non-specific to the scope of the guideline.
Karen Whitehead	Lay member	Direct, non-financial professional and personal interests	NICE voluntary honorarium role as a lay member on the Highly Specialised Technologies committee.	2019	On app	Feb 2023	Declare and participate. Rationale: Interest is non-specific to the scope of the guideline.
Karen Whitehead	Lay member	Direct, non-financial professional and personal interests	NICE voluntary honorarium role as a lay member on the Hip Fracture guideline update committee.	2022	On app	Jan 2023	Declare and participate. Rationale: Interest is non-specific to the scope of the guideline.
Karen Whitehead	Lay member	Direct, non-financial professional and personal interests	NICE voluntary honorarium role as lay member on the Delirium guideline update committee.	2022	On app	Jan 2023	Declare and participate. Rationale: Interest is non-specific to the scope of the guideline.

Karen Whitehead	Lay member	Direct, non-financial professional and personal interests	ROS Research Academy & other – Patient Advocate https://theros.org.uk/osteoporosis-research/osteoporosis-and-bone-research-academy/ & various other voluntary roles, including telephone helpline volunteer and support group member (PAO) – for some 30 years	2019	On app	2022	Declare and participate. Rationale: Interest is non-specific to the scope of the guideline.
Karen Whitehead	Lay member	Direct, non-financial professional and personal interests	Royal College of Physicians (RCP) Falls and Fragility Fracture Audit Programme (FFFAP) Patient & Carer Panel member https://www.rcplondon.ac.uk/projects/outputs/patient-carer-pane	2021	On app	2023	Declare and participate. Rationale: Interest is non-specific to the scope of the guideline.
Karen Whitehead	Lay member	Direct, non-financial professional and personal interests	Royal College of Surgeons (RCS) Patient & Public Group member https://www.rcseng.ac.uk/patient-care/patient-and-public-involvement/the-patient-and-public-group/	2022	On app	2023	Declare and participate. Rationale: Interest is non-specific to the scope of the guideline.
Karen Whitehead	Lay member	Direct, non-financial professional and personal interests	Various other voluntary patient member volunteering & roles with various organisations – Versus Arthritis, Asthma & Lung UK, Rare Disease UK, etc.	2022	On app	2023	Declare and participate. Rationale: Interest is non-specific to the

							scope of the guideline.
Karen Whitehead	Lay member	Direct, non-financial professional and personal interests	Research Volunteer in various projects (Radiate FLS, PAO, NICE Ethics, etc.)	2022	On app	2025	Declare and participate. Rationale: Interest is non-specific to the scope of the guideline.
Karen Whitehead	Lay member	Direct financial interest	Lydia Osteoporosis Symposium 20th October 2023 – Presenter re. Pregnancy Associated Osteoporosis – Expenses Paid	20/10/23	12/10/23	20/10/23	Declare and participate. Rationale: talking about personal experience of osteoporosis.
Karen Whitehead	Lay member	Direct financial interest	CamRare Rare Disease Network Project – NIHR funded £25 hour plus £5 IT & expenses paid (travel, meetings, etc.) – nb. To date have donated this money back to charity, but claimed expenses	Sept 2023	12/10/23	Ongoing	Declare and participate. Rationale: talking about personal experience of osteoporosis.
Karen Whitehead	Lay member	Direct, non-financial professional and personal interests	One of the volunteer patient co-ordinators of the Pregnancy Associated Osteoporosis (PAO) Patient Group UK – a volunteer patient support group for other PAO Mothers and families, raising	1990	12/10/23	Ongoing	Declare and participate. Rationale: talking about personal

Osteoporosis: risk assessment, treatment and prevention of fragility fractures (update)

– interests register

			awareness, varied activities, etc. Personally presenting at different events and for different organisations, manning exhibition stands, media & social media work telling my patient story, etc.				experience of osteoporosis.
Karen Whitehead	Lay member	Direct, non-financial professional and personal interests	Other involvement with various charities & organisations on a voluntary basis – CamRare, Rare Disease UK / UK Genetic Alliance, VA, ROS for 30 years until they ended in 2022, RCS, RCP FFFAP etc.	2015	12/10/23	Ongoing	Declare and participate. Rationale: talking about personal experience of osteoporosis.
Karen Whitehead	Lay member	Direct, non-financial professional and personal interests	Involvement in various osteoporosis research projects – patient centric research projects funded by ROS – Radiate FLS (University of Oxford) and PAO (University of Edinburgh) and participant in RNOH PAO research.	2021	12/10/23	Ongoing	Declare and participate. Rationale: talking about personal experience of osteoporosis. Patient member of research team (participating with a patient voice).
Karen Whitehead	Lay member	Direct, non-financial professional and personal interests	Writing a book about my life with PAO, along with other patient stories – a poem, originally written for my book “What If? The Wish for my Beautiful Baby” recently		12/10/23	Ongoing	Declare and participate. Rationale: writing about personal

Osteoporosis: risk assessment, treatment and prevention of fragility fractures (update)

– interests register

			won recognition in a National Poetry Day 2023 competition				experience of osteoporosis.
Karen Whitehead	Lay member	Direct, non-financial professional and personal interests	ART-TRANslations new art project – bringing new patient-centric/led research to life by artists – I’m involved as a patient working with researchers and an assigned artist to explain my lived experience of osteoporosis (& pregnancy associated osteoporosis) & once their new artwork is produced, I will then be presenting alongside them & attending events during 2024.	Jan 2024	12/02/24	Dec 2024	Declare and participate. Rationale: talking about personal experience of osteoporosis.
Karen Whitehead	Lay member	Direct financial interest	One of steering committee setting up a new Rare Disease Research Digital Platform – funded by NIHR & organized by CamRare Registered Charity – I am a committee member due to having Pregnancy Associated Osteoporosis (PAO) – a rare type of osteoporosis - & because of my work with the PAO UK Group & PAO research, etc. Relevant to NICE committee’s work because PAO is a rare type of premenopausal osteoporosis.	2023	12/06/24	Ongoing	Declare and participate. Rationale: lay member with personal experience of osteoporosis.
Karen Whitehead	Lay member	Direct, non-financial professional	Co-Author in various new articles about Pregnancy Associated Osteoporosis (PAO) for various	2024	12/06/24	Ongoing	Declare and participate.

Osteoporosis: risk assessment, treatment and prevention of fragility fractures (update)

– interests register

		and personal interests	front-line maternity healthcare professional publications, including the Practising Midwife eg. "Spotlight: How can Midwives help to Identify Pregnancy Associated Osteoporosis in pre- and post-natal women?" Relevant to NICE committee's work because PAO is a rare type of premenopausal osteoporosis.				Rationale: writing about personal experience of osteoporosis
Karen Whitehead	Lay member	Direct, non-financial professional and personal interests	Listed as co-author new PAO research paper presented & published: Orhadje E, Berg K, Whitehead K, Hauser B, Ralston S. The combination of height loss and back pain which severely limits normal activities are highly predictive of pregnancy associated osteoporosis. 28th May 2024, JBMR Plus Abstracts of the ECTS 2024 Congress (No. P275) Relevant to NICE committee's work because PAO is a rare type of premenopausal osteoporosis.	2024	12/06/24	2024	Declare and participate. Rationale: article is not included as of the guideline evidence.
Karen Whitehead	Lay member	Direct, non-financial professional and personal interests	One of the founding trustees of Pregnancy Associated Osteoporosis UK. (& I have volunteered as one of the founding trustees), along with setting up a new PAO Website &	2023	12/06/24	Ongoing	Declare and participate. Rationale: not directly covering pregnancy

Osteoporosis: risk assessment, treatment and prevention of fragility fractures (update)

– interests register

			a PAO Clinical Group, along with undertaking various new support and awareness raising activities, including a new campaign #measurethatmum I am sometimes, but not always directly personally publicly involved. All my work is completely voluntary. Relevant to NICE committee's work because PAO is a rare type of premenopausal osteoporosis.				associated osteoporosis in the guideline.
Karen Whitehead	Lay member	Direct, non-financial professional and personal interests	Patient story on the International osteoporosis foundation's (IOF) web site: Karen Whitehead MBE International Osteoporosis Foundation	2024	02/10/24	Ongoing	Declare and participate. Rationale: writing about personal experience of osteoporosis.
Karen Whitehead	Lay member	Direct, non-financial professional and personal interests	Pregnancy associated osteoporosis. The Practising Midwife, November 2024 published in the Practising Midwife and also on All4Maternity's Website.	2024	04/10/24	Ongoing	Declare and participate. Rationale: writing about personal experience of osteoporosis.
Karen Whitehead	Lay member	Direct, non-financial professional	Pregnancy and breastfeeding broke my back. The New Feminist, 18 October 2024	2024	23/10/24	Ongoing	Declare and participate. Rationale: writing about

Osteoporosis: risk assessment, treatment and prevention of fragility fractures (update)

– interests register

		and personal interests					personal experience of osteoporosis.
Karen Whitehead	Lay member	Direct Non- Financial	Disclosed authorship of a paper related to pregnancy-associated osteoporosis.	Sept 2025	30/09/25	Ongoing	Declare and participate Rationale: interest is non- specific to the scope of the guideline.