

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

Guideline Committee Interests Register

Register last updated: July 2024

Name	Role with NICE	Type of interest	Description of interest	Interest arose	Interest declared	Interest ceased	Comments
Dr Alison Tedstone	Chair		Nil				
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. Agreed by the GL and chair in February 2023. 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	April 2024	24/01/24		Declare and participate. Agreed by the GL and chair in February 2024. Rationale: interest is non-specific to the scope of the

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			clinical work I undertake. This will be on a voluntary basis and there will be no remuneration.				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. Agreed by the GL and chair in February 2023. 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. Agreed by the GL and chair in February 2023. Rationale: This is a financial interest but DXA reporting and interpretation of case studies are

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							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. Agreed by the GL and chair in February 2023. 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. Agreed by the GL and chair in February 2023. Rationale: interest is non-specific to the scope of the guideline.
Dr Nicola Peel	Topic advisor	Direct, non-financial	Trustee of the Royal Osteoporosis Society	Jul 2019	02/02/23	NA	Declare and participate.

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		professional and personal interests					Agreed by the GL and chair in February 2023. 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	NA	Declare and participate. Agreed by the GL and chair in February 2023. 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. Agreed by the GL and chair in February 2023. 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 pandemic. The analysis is ongoing.	2019	02/02/23	2022	Declare and participate. Agreed by the GL and chair in February 2023. Rationale: Specific. Person not involved in study analysis or 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. Agreed by the GL and chair in February 2023. 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	Peer Reviewer for National Osteoporosis Guideline Group (NOGG) Clinical Guideline (update) 2021	2021	02/02/23	2021	Declare and participate.

		and personal interests					Agreed by the GL and chair in February 2023. 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; Bone 2022 May;158:116347. doi: 10.1016/j.bone.2022.116347) I have previously contributed to research in this area for which colleagues in the academic unit (but not myself) have received funding	1998	08/06/23		Declare and participate. Agreed by the GL and chair in February 2023. Rationale: specific. Review of current evidence around bone turnover markers.
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	Declare and participate. Agreed by the GL and chair in November 2023.

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							Rationale: Salaried employment in the NHS.
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		Declare and participate. Agreed by the GL and chair in November 2023. Rationale: specific. Talk based on current evidence, guidelines and practice.
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		Declare and participate. Agreed by the GL and chair in November 2023. Rationale: specific. Talk based on current evidence, guidelines and practice.
Dr Nicola Peel	Topic advisor	Direct, non- financial professional	Delivered lecture / workshop related to osteoporosis on 'Bone health essentials: Understanding	Sep 2023	08/11/23		Declare and participate.

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		and personal interests	BMD and DXA measurements' at the Royal Osteoporosis Society Conference, September 2023.				Agreed by the GL and chair in November 2023. 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. Agreed by the GL and chair in November 2023. 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	October 2023	08/11/23		Declare and participate. Agreed by the GL and chair in November 2023. Rationale: interest is non-specific to the scope of the guideline. Advises on current evidence

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			current guidelines, evidence base and licensed indications. As part of this work I have attended and contributed to discussions with staff in NHSE and DHSC – providing clinical information and context.				and practice and does not make decisions about 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 Agreed by the GL and chair in May 2024 Committee member will withdraw from making recommendations related to monitoring for people receiving pharmacological treatment.
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: 10.1016/j.bone.2022.116347.	May 2022	20/05/24		Specific, partial exclusion Agreed by the GL and chair in May 2024 Committee member will withdraw from

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			Epub 2022 Feb 5. PMID: 35134571.				making recommendation s related to monitoring for people receiving pharmacological treatment.
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. Agreed by the GL and chair in February 2023. 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. Agreed by the GL and chair in February 2023. Rationale: interest is non-specific to the scope of the guideline.
Alison Ahmed	Pharmacist	Direct, non-financial	Ordinary member NW Osteoporosis Interest Group	2023	24/02/23	Ongoing	Declare and participate.

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		professional and personal interests					Agreed by the GL and chair in February 2023. 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. Agreed by the GL and chair in February 2023. 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. Agreed by the GL and chair in February 2023. 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. 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. Agreed by the GL and chair in February 2023. Rationale: interest 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.

							Agreed by the GL and chair in February 2023. 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. Agreed by the GL and chair in February 2023. 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. Agreed by the GL and chair in February 2023. 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	<p>Declare and participate.</p> <p>Agreed by the GL and chair in October 2023.</p> <p>Rationale: basic travel, accommodation and registration fees are acceptable within NICE's policy.</p>
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	<p>Declare and participate.</p> <p>Agreed by the GL and chair in October 2023.</p> <p>Rationale: salaried employment in medical education. This is a non-financial interest.</p>
Sherwin Criseno	Nurse Specialist	Direct financial interest	Invited speaker (UCB): Professional development pathway for nurses and allied	21/03/24	20/02/2024	21/03/24	Declare and participate.

			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.				Agreed by the GL and chair in March 2024. 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 and personal interests	Trustee for the Society for Endocrinology	04/04/24	20/02/2024	Ongoing	Declare and participate. Agreed by the GL and chair in March 2024. Rationale: interest is non-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. Agreed by the GL and chair during recruitment. 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. Agreed by the chair and GL at recruitment. 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. Agreed by the chair and GL at recruitment. Rationale: Interest is non-specific to the scope of the guideline.
Prof Elaine Dennison	Epidemiologist	Direct, non-financial professional and personal interests	Member Versus Arthritis research committee	Nov 2022	On app	Ongoing	Declare and participate. Agreed by the chair and GL at recruitment.

							Rationale: Interest is non-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. Agreed by the chair and GL at recruitment. 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. Agreed by the chair and GL at recruitment. Rationale: Interest is non-specific to the scope of the guideline.
Prof Elaine Dennison	Epidemiologist	Direct, non-financial professional	Attendance at sponsored non-promotional meeting to discuss local romosozumab pathway. I did not present data and was an	Sept 2023	22/11/23	Sept 2023	Declare and participate.

		and personal interests	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.				Agreed by the chair and GL November 2023. 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 health in inflammatory arthritis (expenses – travel and accommodation covered by ROS). This was a non-promotional talk and I did not receive an honorarium.	Sept 2023	22/11/23	Sept 2023	Declare and participate. Agreed by the chair and GL November 2023. 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	2019	29/01/24	2022	Declare and participate. Agreed by the chair and GL February 2024. Rationale: EchoLight technology is

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			published in peer reviewed journals.				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. Agreed by the chair and GL at recruitment. 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. Agreed by the chair and GL at recruitment. Rationale: Salaried employment in medical education.
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	Feb 2021	On app	Ongoing	Declare and participate. Agreed by the chair and GL at recruitment.

			role, but is a clinical service delivery and not an advisory role				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. Agreed by the chair and GL at recruitment. 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. Agreed by the chair and GL at recruitment. Rationale: Interest is non-specific to the scope of the guideline.
Prof Karen Knapp	Diagnostic Radiographer	Direct, non-financial	Chair of the Education and Career Framework V4.0 Steering	Mar 2020	On app	Nov 2022	Declare and participate.

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		professional and personal interests	group for the College of Radiographers. Leading the group, commissioning a Delphi study, developing and publishing the new guidelines				Agreed by the chair and GL at recruitment. 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. Agreed by the chair and GL at recruitment. 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 action treatment or monitoring as appropriate.	Jan 2020	On app	Ongoing	Declare and participate. Agreed by the chair and GL at recruitment. Rationale: Interest is non-specific to the scope of the guideline.

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. Agreed by the chair and GL at recruitment. 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. Agreed by the chair and GL at recruitment. 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	Oct 2022	On app		Declare and participate. Agreed by the chair and GL at recruitment.

			panel. Standard accommodation 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.				Rationale: Interest is non-specific to the 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. Agreed by the chair and GL April 2023. 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. Agreed by the chair and GL April 2023. Rationale: Interest is non-specific to the scope of the guideline.
Prof Karen Knapp	Diagnostic Radiographer	Direct, non-financial	Clinical committee member, Royal Osteoporosis Society	Feb 2020	April 2023	Ongoing	Declare and participate.

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		professional and personal interests					Agreed by the chair and GL April 2023. 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 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. Agreed by the chair and GL April 2023. 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. Agreed by the chair and GL April 2023. 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	<p>Declare and participate.</p> <p>Agreed by the chair and GL April 2023.</p> <p>Rationale: This is non-specific, GSK does not produce osteoporosis medicines.</p>
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	<p>Declare and participate.</p> <p>Agreed by the chair and GL April 2023.</p> <p>Rationale: Interest is non-specific to the scope of the guideline.</p>
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	<p>Declare and participate.</p> <p>Agreed by the chair and GL April 2023.</p> <p>Rationale: Interest is non-specific to the</p>

							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. Agreed by the chair and GL April 2023. 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. Agreed by the chair and GL April 2023. 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 on advanced and consultant practice in osteoporosis care.	Sept 2023	April 2023	Sept 2023	Declare and participate. Agreed by the chair and GL April 2023.

							Rationale: Interest is non-specific to the 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. Agreed by the chair and GL April 2023. 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. Agreed by the chair and GL June 2023. Rationale: Interest is non-specific to the scope of the guideline.
Prof Karen Knapp	Diagnostic Radiographer	Direct, non-financial professional	Online presentation on DXA scans - best practice update on technical points on how to optimise scanning and how to	May 2023	June 2023		Declare and participate.

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		and personal interests	report results. MA Healthcare National Conference Osteoporosis 2023. No payment				Agreed by the chair and GL June 2023. 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 tomosynthesis. July 2023 – June 2025	Jul 2023	June 2023	Ongoing (June 2025)	Declare and participate. Agreed by the chair and GL June 2023. Rationale: Interest is non-specific to the scope of the guideline.
Prof Karen Knapp	Diagnostic Radiographer	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. Agreed by the GL and chair in October 2023. 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. Agreed by the GL and chair in October 2023. 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. Agreed by the GL and chair in November 2023. Rationale: Interest is non-specific to the scope of the guideline.
Prof Karen Knapp	Diagnostic Radiographer	Direct financial interest	Book chapter on patient care in DXA and co-editor of Person-Centered care in Radiology	Mar 2023	22/11/23	Ongoing	Declare and participate. Agreed by the GL and chair in November 2023. Rationale: Interest 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. Agreed by the chair and GL April 2024. 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 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.
Prof Karen Knapp	Diagnostic Radiographer	Direct financial interest	Co-Editor for Person-centred care in Radiology: International Perspectives on High Quality Care S Chau, E Hyde, K Knapp, C Hayre CRS Press	Feb 2024	26/03/24	Ongoing	Declare and participate.

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

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							<p>Agreed by the chair and GL April 2024.</p> <p>Rationale: This is a financial interest but topic is non-specific to the scope of the guideline.</p>
Prof Karen Knapp	Diagnostic Radiographer	Direct financial interest	In contract as co-editor of a text book 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 author of the chapter, which could include this.	Oct 2023 – publication date due in 2025	12/6/24	Ongoing	Declare and participate.
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>Agreed by the GL and chair in October 2023.</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	<p>Declare and participate.</p> <p>Agreed by the GL and chair in October 2023.</p> <p>Rationale: Interest is non-specific to the scope of the guideline.</p>
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	<p>Declare and participate.</p> <p>Agreed by the chair and GL February 2023.</p> <p>Rationale: Salaried employment in the NHS.</p>
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	<p>Declare and participate.</p> <p>Agreed by the GL and chair in October 2023.</p> <p>Rationale: Salaried</p>

							employment in the NHS.
Dr Kay Morgan	AHP	Direct financial interest	Full-time employment Advanced Clinical Practitioner Manchester University NHS Foundation Trust – Community Hospital at Home/ Crisis Response	06/05/24	10/05/24		Declare and participate. Agreed by the GL and chair in May 2024. Rationale: Salaried 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. Agreed by the GL and chair in May 2024. 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. Agreed by the GL and chair in May 2024. 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. Agreed by the chair and GL at recruitment. Rationale: Salaried employment in the NHS.
Dr Rachel Muir	Physician for Elderly	Direct, non-financial professional and personal interests	Co-author of local NHS osteoporosis guidelines	2019	On app	Ongoing	Declare and participate. Agreed by the chair and GL at recruitment. Rationale: Interest is non-specific to the scope of the guideline.
Prof Stuart Ralston	Medical Practitioner – Bone Density	Direct financial interest	Professor of Rheumatology, University of Edinburgh, UK	2005	On app	Ongoing	Declare and participate.

							<p>Agreed by the chair and GL at recruitment.</p> <p>Rationale: Salaried employment in higher education.</p>
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	<p>Declare and participate.</p> <p>Agreed by the chair and GL at recruitment.</p> <p>Rationale: Salaried employment in the NHS.</p>
Prof Stuart Ralston	Medical Practitioner – Bone Density	Direct financial interest	Clinical Director of Rheumatology NHS Lothian.	2012	On app	Ongoing	<p>Declare and participate.</p> <p>Agreed by the chair and GL at recruitment.</p> <p>Rationale: Salaried employment in the NHS.</p>

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. Agreed by the chair and GL at recruitment. 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. Agreed by the chair and GL at recruitment. 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.

							<p>Agreed by the chair and GL at recruitment.</p> <p>Rationale: Interest is non-specific to the scope of the guideline.</p>
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	<p>Declare and participate.</p> <p>Agreed by the chair and GL at recruitment.</p> <p>Rationale: Interest is non-specific to the scope of the guideline.</p>
Prof Stuart Ralston	Medical Practitioner – Bone Density	Indirect, financial interest	Payment to institution Kyowa Kirin for lecture on hypophosphataemic rickets	Apr 2023	26/4/23	April 2023	<p>Declare and participate.</p> <p>Agreed by the chair and GL in April 2023.</p> <p>Rationale: Interest is non-specific to the scope of the guideline.</p>

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	<p>Declare and participate.</p> <p>Agreed by the chair and GL in April 2023.</p> <p>Rationale: Interest is non-specific to the scope of the guideline.</p>
Dr Rajesh Varma	GP	Direct financial interest	GP Partner, The Colne Practice, Rickmansworth	Sep 2021	On app	Ongoing	<p>Declare and participate.</p> <p>Agreed by the chair and GL at recruitment.</p> <p>Rationale: Employment in the NHS with no scope for direct financial gain from the guideline.</p>
Dr Rajesh Varma	GP	Direct financial interest	<p>BESINS HEALTHCARE UK</p> <p>Sponsored speaker talks on HRT and menopause, including oestrogen and utrogestan.</p> <p>This talk was regarding the symptoms of menopause (e.g. hot flushes, mood changes and joint</p>	08/03/24	24/05/24	08/03/24	<p>Declare and participate.</p> <p>Agreed by the chair and GL in May 2024.</p> <p>Rationale: Interest is non-</p>

			pains) and did not refer to HRT being used as a treatment for osteoporosis. Payment expenses were received.				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. Agreed by the chair and GL in May 2024. 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. Agreed by the chair and GL at recruitment. 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.

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

– interests register

							<p>Agreed by the chair and GL at recruitment.</p> <p>Rationale: Interest is non-specific to the scope of the guideline.</p>
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	<p>Declare and participate.</p> <p>Agreed by the chair and GL at recruitment.</p> <p>Rationale: Interest is non-specific to the scope of the guideline.</p>
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	<p>Declare and participate.</p> <p>Agreed by the chair and GL at recruitment.</p> <p>Rationale: Interest is non-specific to the scope of the guideline.</p>

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. Agreed by the chair and GL at recruitment. 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. Agreed by the chair and GL at recruitment. 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. Agreed by the chair and GL at recruitment. 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. Agreed by the chair and GL at recruitment. 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. Agreed by the chair and GL at recruitment. 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. Agreed by the chair and GL at recruitment.

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							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 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.	1990	12/10/23	Ongoing	Declare and participate. Agreed by the chair and GL at recruitment. Rationale: talking about personal 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. Agreed by the chair and GL at recruitment. Rationale: talking about personal experience of osteoporosis.
Karen Whitehead	Lay member	Direct, non- financial professional	Involvement in various osteoporosis research projects – patient centric research projects	2021	12/10/23	Ongoing	Declare and participate.

		and personal interests	funded by ROS – Radiate FLS (University of Oxford) and PAO (University of Edinburgh) and participant in RNOH PAO research.				Agreed by the chair and GL at recruitment. 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 won recognition in a National Poetry Day 2023 competition		12/10/23	Ongoing	Declare and participate. Agreed by the chair and GL at recruitment. Rationale: writing about personal 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	Jan 2024	12/02/24	Dec 2024	Declare and participate. Agreed by the chair and GL February 2024. Rationale: talking about

			osteoporosis) & once their new artwork is produced, I will then be presenting alongside them & attending events during 2024.				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	
Karen Whitehead	Lay member	Direct, non-financial professional and personal interests	Co-Author in various new articles about Pregnancy Associated Osteoporosis (PAO) for various 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.	2024	12/06/24	Ongoing	
Karen Whitehead	Lay member	Direct, non-financial	Listed as co-author new PAO research paper presented &	2024	12/06/24	2024	

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		professional and personal interests	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.				
Karen Whitehead	Lay member	Indirect financial interest	One of the volunteer co-ordinators of the Pregnancy Associated Osteoporosis (PAO) Group, which is progressing becoming a new UK Registered Charity (& I have volunteered as one of the founding trustees), along with setting up a new PAO Website & 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, which is why this is listed as indirect interests. All my work is completely voluntary. Relevant to NICE committee's work because PAO is a rare type of premenopausal osteoporosis.	2023	12/06/24	Ongoing	

GUIDANCE NOTES FOR COMPLETION OF THE INTERESTS REGISTER

Relevant dates: Detail here the date the interest arose, the date it was first declared and when it ceased, if applicable. For example, if an individual has ceased to hold shares or undertake relevant private practice.