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Leading initiatives to provide practical guidance for engaging patients in health research, treatment guidelines and regulatory processes

Findings of an Expert Group of the World Health Organization (WHO) and European Society for Clinical and Economic Aspects of Osteoporosis, Osteoarthritis and Musculoskeletal Diseases (ESCEO)

To support the development, approval and reimbursement of medical interventions that best meet patients' needs, there is increasing emphasis on patient-centred research through the engagement of patients in identifying unmet needs,¹ the design and conduct of clinical studies² and subsequent regulatory assessments³ and post-marketing vigilance. However, despite the many ongoing pilots, there is currently little evidence-based practical guidance on how effective patient engagement may be facilitated. To this end, an expert group, representing a wide range of stakeholders and disciplines, was convened by the European Society for Clinical and Economic Aspects of Osteoporosis, Osteoarthritis and Musculoskeletal Diseases (ESCEO) and the World Health Organization (WHO). The group generated a set of practical recommendations for patient engagement in drug development, clinical research and regulatory decisions (see Panel). These principles are based on lessons learned within longitudinal research initiatives such as Outcome Measures in Rheumatology (OMERACT)^{2,4} and active patient engagement in regulatory processes by the European Medicines Agency (EMA) and the US Food and Drug Administration (FDA).^{5,6} The nine principles outlined here were developed after an extensive dialogue among the expert participants and an iterative consensus process, and form a starting point from which tailoring of the approach to suit different chronic diseases and other healthcare context needs may be undertaken.

Engaging with patients helps to bridge the gap between health research, policy and patient-centred practice, increases transparency, and will lead to more meaningful outcomes. Patient engagement should be initiated in a stepwise approach through which all parties can learn together and identify the format that works best for all involved. At all stages of engagement, provide support, define roles, manage expectations and give feedback, to ensure that engagement is mutually beneficial. In this way, ultimately everyone can benefit from knowledge sharing. Overarching principles for engaging patients include the recognition that the perspective of patients is pivotal, that earlier involvement of patients is always better and that involvement at all stages is necessary. Patients should be offered the possibility to consult each other on experience-based views, furthermore, to ensure proper representation, inviting at least two patient research partners (PRPs) is recommended.⁷ Lastly, acknowledgement of input and feedback to patients is essential, and integrated knowledge translation is desirable.⁸

Patient engagement is an evolving concept. We acknowledge that there are different levels of patient engagement, all equally valuable and complementary, and that the degree of patient participation and level of power or authority should not be mandatory but may be tailor-made to suit the individual research purpose. The

research agenda for future refinement of the process will include the development of new methodologies to assess the impact of patient engagement on both research process and outcomes and novel ways to enhance the significance of existing methods of engagement. The impact of patient engagement, in terms of added value, but also cost and potential downsides is currently poorly understood. Reasons for this include a lack of consensus on a validated methodology or tool to demonstrate impact, and a lack of consensus on important outcomes of patient engagement; people and stakeholder groups have different expectations and objectives regarding patient engagement, and thus require different methodologies and outcomes for evaluation. Another challenge is that we, as an expert group, all agree that principal investigators and stakeholders should invest in support, information, education and feedback to patient experts; however, there is a growing awareness that it does not make sense to train patients in the medicine development cycle without simultaneously preparing researchers for their role and the task of engaging patients in that process. Thus, there is a need to explore both the benefits and downsides of educating patient experts as well as exploring the needs of researchers for guidance, coaching and training.⁹ Ultimately, we hope that adoption of our best practice principles and other initiatives will pave the way for increased patient engagement that is optimised to meet the needs and expectations of all stakeholders, including researchers, clinicians, regulatory bodies, and patients, with clear, measurable outcomes.

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[Panel]

WHO-ESCEO Best practice principles for engaging patients in health research, treatment guidelines and regulatory processes

1. The perspective of patients is pivotal in health research, treatment guidelines and the decision-making process of medicine authorisation.
2. Capturing patients' perspectives requires multiple forms of engagement that are complementary and need to be tailored to suit different chronic diseases and contexts.
3. Transparency for all stakeholders about patients' roles in the process facilitates participation and manages expectations from all angles.
4. Broad representativeness of patients' perspectives in demography, geography, disease severity and numbers must be ensured.
5. Involvement of at least two patient experts throughout the research, assessment and deliberation processes ensures preservation of the patient perspective and increases the validity of the outcomes.
6. Providing adequate information, support and feedback to patient representatives is key to effective engagement.
7. Teaching researchers the expertise and skills to support public engagement should always be considered.
8. Fruitful participation always requires additional resources to be allocated to the process, with extra effort in time, money and energy.
9. Continuous monitoring and measuring of interactions are vital to refine procedures according to feedback received.

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WHO-ESCEO Working Group members: Maarten de Wit PhD, Cyrus Cooper FMedSci, Peter Tugwell MD, Nathalie Bere MSc, John Kirwan MD, Philip G. Conaghan MBBS, Charlotte Roberts MD, Isabelle Aujoulat PhD, Nasser Al-Daghri PhD, Islene Araujo de Carvalho MD, Mary Barker PhD, Nicola Bedlington BA Hons, Maria Luisa Brandi MD, Olivier Bruyère PhD, Nansa Burlet, MD, MPH, Philippe Halbout PhD, Mickaël Hilgsmann PhD, Famida Jiwa MHS, John A. Kanis MD, Andrea Laslop MD, Wendy Lawrence PhD, Daniel Pinto PhD, Concepción Prieto Yerro PhD, Véronique Rabenda MSc, René Rizzoli MD, Marieke Scholte-Voshaar MSc, Mila Vlaskovska MD, Jean-Yves Reginster MD

Declaration of interests

C. Cooper reports personal fees from Alliance for Better Bone Health, Amgen, Eli Lilly, GSK, Medtronic, Merck, Novartis, Pfizer, Roche, Servier, Takeda and UCB, outside of the submitted work.

M. de Wit has received fees for lectures or consultancy through Stichting Tools from Abbvie, BMS, Celgene, Eli Lilly, Janssen-Cilag, Novartis, Pfizer and Roche, outside of the submitted work.

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