Uptake of Best Arthritis Practice in Primary Care — No Quick Fixes

Arthritis is one of the most common chronic conditions and is a leading cause of pain, physical disability, and use of healthcare resources¹. The Canadian Community Health Survey conducted in 2000 demonstrated that arthritis and other rheumatic conditions affect nearly 4 million Canadians aged 15 years and older². By 2026, it has been estimated that this figure will rise to over 6 million Canadians.

In the UK the National Institute for Health and Clinical Excellence developed recommendations for the management of rheumatoid arthritis³ and osteoarthritis (OA)^{4,5}. For primary care the first message that emerges from the reviews and guidelines, particularly for OA, is that there is a range of simple interventions for which there is evidence of efficacy. By contrast, evidence that these same interventions are being systematically and widely put into practice, and evidence about how to do this, is singularly lacking^{6,7,8}. There is increasing recognition that implementation of change for the better management of arthritis is very different from simply disseminating information^{9,10}.

Despite many published treatment guidelines there is often a gap between the care that is recommended and the care that such patients receive¹¹; therefore numerous studies have demonstrated the need for improved arthritis management within primary care^{12,13}. Unfortunately, their abundance can often make it difficult for healthcare professionals to determine which guidelines should be employed within clinical practice¹⁴. It has been shown that passive distribution of guidelines has limited impact¹⁵, and evidence of the implementation of health education interventions aiming to increase the uptake of arthritis guidelines in primary care is scarce¹⁶.

Lineker, *et al*¹⁷ suggested that the dissemination of treatment guidelines through a multifaceted intervention may be a method of changing provider behavior and thus improving arthritis management. As a result, the Getting a Grip on Arthritis® education program developed by Glazier, *et al*¹⁸, which consists of an accredited interprofessional workshop and 6 months of reinforcement activities, aims to improve

the diagnosis and treatment of arthritis in primary care in Canada.

The extensive work undertaken in the development and evaluation of this intervention, including surveys with primary care practitioners and qualitative work^{17,19,20}, is impressive. Pilot work of the intervention demonstrated clear changes in the management of arthritis in primary care¹⁸, and as a result the program received funding for national implementation through Health Canada's Primary Health Care Transition Fund.

In this issue of *The Journal*, Lineker, *et al*²¹ describe the evaluation of the national rollout of the Getting a Grip on Arthritis® program. In all, 553 primary healthcare professionals (30.9% nurses, 22.5% rehabilitation professionals, 22.5% physicians, 10.9% nurse practitioners, 13.1% other healthcare providers/nonclinical staff/students) from 254 sites took part. The influence of the program was evaluated by a previously validated survey to highlight self-report management of 3 case scenarios, with best-practice scores (number of recommended best practices a participant would undertake) calculated for each scenario at baseline and 6 months post-workshop. This survey also assessed perception of barriers to physiotherapy, occupational therapy, social work or rheumatology, confidence in the management of arthritis, and satisfaction with their ability to deliver arthritis care.

About one-half completed the followup survey. Overall best-practice scores improved for all scenarios at 6 months, but an analysis by discipline showed that only nurse practitioners and rehabilitation therapists (occupational therapists and physiotherapists) achieved a clinically significant improvement. Baseline scores were low for all 3 scenarios, with the best post-training score being achieved by nurse practitioners for the management of OA. Many best practices did not show any increase, but there was a noticeable increase in the recommendations for education for all scenarios, and weight management for OA. The latter (a notoriously difficult topic to address) more than tripled, although from a very low base. With regard to satisfaction and confi-

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dence, both improved significantly at 6 months, and perception of barriers to all services decreased significantly.

The authors acknowledge that the study had a number of limitations: there was no control group, there was a low response to the followup survey, and self-report behavior is an uncertain proxy measure of actual practice. So the improvements seen in this study may not have been due to the program or may not have been seen in all participants, nor followed through into day-to-day practice. However, the article illustrates the complexity of evaluating the effect of such initiatives and the difficulty of getting evidence into practice. Such educational programs often result in only small changes in professional behavior²², but the rigorous approach taken to the delivery and evaluation of this program ensures that lessons can be learned on how to improve subsequent initiatives. The authors conclude that such inter-professional education may be an effective method for improving the uptake of clinical guidelines, with potential to improve the management of arthritis in primary care.

Similar initiatives are being developed elsewhere. For example, in the UK the National Institute of Health and Clinical Research (NIHR) has funded a number of research initiatives to study the implementation of guidelines into primary care. This work is also supported by the leading arthritis charity in the UK, the Arthritis Research UK, and patient groups like Arthritis Care.

Our own group is studying how best to implement the National Institute for Health and Clinical Excellence (NICE) OA recommendations and optimize the consultation for OA in primary care with patients, general practitioners, practice nurses, and the broader multidisciplinary team. A whole-systems approach is needed, which engages with practitioners and service organizations as well as the patient. Similar to the Canadian approach, we have identified suitable models and theories to develop such training and implementation strategies, including the WISE model ("Whole system Informing Self-management Engagement")²³, implementation theory²⁴, and behavior change theories^{25,26}. A whole-systems approach envisages informed patients receiving support and guidance from those trained practitioners who are working within a healthcare system geared up to be responsive to patients' needs²³. To evaluate this approach we have adopted the toolkit (<http://www.normalizationprocess.org/>) proposed by the Normalisation Process Theory^{27,28} — a medium-range sociological theory concerned with understanding how complex interventions become embedded in routine clinical practice.

The Canadian model represents a major contribution to the mechanism by which evidence-based practice can be implemented in the real world. It highlights the complexities and challenges of delivering training to health professionals in order to change the way in which they consult with individuals with rheumatoid arthritis and OA, and in turn to support individuals in the uptake of best care.

The model is attractive because of its widespread adoption and influence; and while its limitations are acknowledged, the complexities of such research cannot be overlooked. We have much to learn from this work.

MARK PORCHERET, FRCGP, MPhil,

Arthritis Research UK Primary Care Centre,
Keele University;

EMMA HEALEY, BSc, PhD,

Arthritis Research Campaign National Primary Care Centre,
Keele University;

KRYSIA S. DZIEDZIC, PhD,

Arthritis Research UK Primary Care Centre,
Keele University,
Newcastle-under-Lyme,
Staffordshire, UK

Address correspondence to K.S. Dziedzic.

E-mail: k.s.dziedzic@keele.ac.uk

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J Rheumatol 2011;38:791–3; doi:10.3899/jrheum.110093