Exercise prescription and referral tool to facilitate brief advice to adults in primary care

Pierre Frémont MD PhD FCFP DipSportMed Michelle Fortier PhD Renata J. Frankovich MD FCFP DipSportMed

The evidence showing that physical activity improves population health is substantial, but initiating physical activity (PA) behaviour changes remains a challenge. Physical activity is as powerful as most drugs in treating most chronic illnesses1 and brief advice in primary care is a cost-effective intervention.2 But as Joy et al point out in their seminal paper, "To succeed, physicians need clinical tools."3

The mission of Exercise is Medicine Canada (EIMC; www.exerciseismedicine.ca) is to provide national leadership in promoting PA as a chronic disease prevention and management strategy to improve the health of Canadians. The EIMC Advisory Council is composed of members representing several Canadian health and exercise science organizations. One specific goal of EIMC is to increase the number of health care professionals who are assessing and advising patients about PA.

Canadian guidelines for PA have been developed and are freely accessible (www.csep.ca/guidelines). Also, asking patients about PA and counseling them about PA are recommended in the Preventive Care Checklist Form.4 Therefore, EIMC mandated a multidisciplinary group to design a tool that would support both primary care providers and patients through the PA advice and prescription process.

Design and use of the tool

The exercise prescription and referral (EPR) tool was designed through consultation and consensus with experts from the following fields: clinical exercise sciences, behavioural science, nutrition, rehabilitation, sports medicine, and family medicine. The process included a face-to-face consensus session and subsequent consultation with samples of members from the sponsoring organizations (N=30 members overall). Consensus was achieved after 5 iterations. The EPR tool is meant to be a formal advice and prescription tool based on the notion that, if a drug or any intervention had an efficacy and safety profile comparable to



This article is eligible for Mainpro-M1 credits. To earn credits, go to www.cfp.ca and click on the Mainpro link.

La traduction en français de cet article se trouve à www.cfp.ca dans la table des matières du numéro de décembre 2014 à la page e591.

the effect of PA, clinicians would be expected to prescribe it. It was designed to guide both clinicians and patients through the prototypical FITT (frequency, intensity, type, and time) format. The tool is also meant to assist with the referral process. Referral to a qualified exercise professional such as a kinesiologist is a costeffective approach to improving PA for most patients.5

The EPR tool and an explanation of its key components are available as CFPlus.* This tool supports prescription of PA that is safe for healthy adults and those with 1 mild and stable chronic condition. A more extensive Guide for Prescribing Exercise can be found at www.exerciseismedicine.ca under "Professional Resources." This guide can help each primary care provider to use the EPR tool in more complex situations. Further information about the qualifications of exercise professionals can also be found on the EIMC website.

Discussion

Physical inactivity costs Canada 6.8 billion dollars annually.6 Primary care providers such as family physicians have a prime role in influencing population levels of PA by advising and prescribing PA.² The EPR is a detailed and evidence-based tool for them to use to do so.

The essential premise of using the EPR tool in primary care is to promote the routine assessment and careful consideration of PA at each physician-patient encounter. Moreover, PA should be assessed as the "exercise vital sign" and should be prescribed at the periodic health evaluation and at every opportunity. The purpose of the tool is to kick-start the patient's PA behaviour change process. It should be repeatedly used to personalize advice according to the patient's stage of behaviour change. For example, it can help initially target the reduction in sedentary behaviour in an inactive person and progress through several steps toward meeting PA guidelines. In most cases, referral to an exercise professional for help with behaviour change will be a desirable and synergistic cointervention.

Achieving behaviour change through primary care providers in clinical practice is a challenge in itself. Primary care providers might believe they do not have the knowledge or the time to advise about PA. The

^{*}The exercise prescription and referral tool is available at www.cfp.ca. Go to the full text of the article online and click on CFPlus in the menu at the top right-hand side of the page.

Praxis

development of tools that can efficiently support brief advice about PA, such as the one presented in this paper, is therefore important³ and can potentially help overcome these perceptions. However, primary care providers might not be sufficiently motivated to use the tool or still find it takes too long.

The EPR tool was initially presented at Family Medicine Forum in November 2013. It was subsequently tested with a limited sample of 20 attendees who registered to be surveyed following a 2-month period of use. The response rate was 25% by responders who had been in practice for 7 years or more. Using the tool was reported to take between 1 and 3 minutes. All responders agreed or strongly agreed that the tool was applicable to their patient population, the tool was easy to use in their practices, the tool was easy for their patients to understand, using the tool was an effective use of their clinical time with patients, and that they would recommend the tool to their colleagues. After using this tool on a regular basis for 6 months in the context of family practice, one author of this article (P.F.) came to the same conclusions and found that patients were receptive to the tool and that it could be used within 2 to 4 minutes in encounters where no acute or unstable condition had to be managed.

Conclusion

The scientific rationale for providing brief PA advice in primary care is well established and the EPR tool can facilitate that objective. The EPR tool can support both the clinician and the patient in a format that is achievable within the time constraints of a patient visit. However, implementation research data tell us that the challenge of achieving targeted changes for both

the primary care provider's and the patient's behaviour should not be underestimated. These issues will be the next steps addressed by the EIMC Advisory Council.

Dr Frémont is Associate Professor in the Department of Rehabilitation at Laval University in Quebec city, Que. Dr Fortier is Professor in the School of Human Kinetics at the University of Ottawa in Ontario. Dr Frankovich is Assistant Professor in the Department of Family Medicine at the University of Ottawa.

Acknowledgment

The exercise prescription and referral tool was developed with the financial support of the Canadian Academy of Sport and Exercise Medicine, the Canadian Physiotherapy Association, the Canadian Society for Exercise Physiology, the College of Family Physicians of Canada, and the Royal College of Chiropractic Sports Sciences (Canada). We also thank the following people for their contribution to the exercise prescription and referral tool development process: Ms Vicki Wong of the Canadian Physiotherapy Association, Dr Chris deGraauw of the Royal College of Chiropractic Sports Sciences (Canada), Mr Patrick Beriault of the Canadian Kinesiology Alliance, Ms Susan Yungblut of Exercise is Medicine Canada, and Dr Mark Tremblay of the Canadian Society for Exercise Physiology.

Competing interests

None declared

References

- 1. Naci H, Ioannidis JP. Comparative effectiveness of exercise and drug interventions on mortality outcomes: metaepidemiological study. BMJ 2013;347:f5577.
- 2. Anokye NK, Lord J, Fox-Rushby J. Is brief advice in primary care a costeffective way to promote physical activity? Br J Sports Med 2014;48(3):202-6. Epub 2013 Dec 18.
- 3. Joy EL, Blair SN, McBride P, Sallis R. Physical activity counselling in sports medicine: a call to action. Br J Sports Med 2013;47(1):49-53. Epub 2012 Nov 13.
- 4. Duerksen A, Dubey V, Iglar K. Annual adult health checkup. Update on the Preventive Care Checklist Form. Can Fam Physician 2012;58:43-7 (Eng), e15-20 (Fr). Available from: www.cfp.ca/content/58/1/43.full.pdf+html. Accessed 2014 Oct 31.
- 5. Hogg WE, Zhao X, Angus D, Fortier M, Zhong J, O'Sullivan T, et al. The cost of integrating a physical activity counselor in the primary health care team. J Am Board Fam Med 2012;25(2):250-2.
- 6. Janssen I. Health care costs of physical inactivity in Canadian adults. Appl Physiol Nutr Metab 2012;37(4):803-6. Epub 2012 Jun 6.

We encourage readers to share some of their practice experience: the neat little tricks that solve difficult clinical situations. Praxis articles can be submitted online at http://mc.manuscript central. com/cfp or through the CFP website (www.cfp.ca) under "Authors and Reviewers."