Exercise prescription: bridging the gap to clinical practice

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Exercise works, exercise is medicine—this is something most readers will attest to. Exercise is the first line of intervention for many clinical presentations and has been repeatedly shown to outstrip pharmacological and surgical approaches to the management of a wide range of medical, musculoskeletal and psychological conditions. Whether we are physiotherapists, physicians, sports scientists or other sport and exercise medicine practitioners, we regularly prescribe exercise programmes to patients with a host of different symptoms.

GETTING THE RIGHT PRESCRIPTION

While not a panacea, exercise is an intervention that has a role to play in every aspect of sport and exercise medicine. In a sense our first question when considering treatment options should be, ‘What type of exercise should I prescribe?’ rather than ‘Should I prescribe exercise?’ But what guides our decision-making in determining the nature, type and volume of exercise for our patients? As with anything we prescribe, we should seek to ensure that we prescribe for the greatest therapeutic benefit and tailor it to the needs of each individual. What is the best dose?

This issue of BJSIM provides us with some great material encouraging us to consider some of these questions as well as providing some challenging answers that help bridge the gap from research to clinical practice.

ASSISTING OPTIMAL LOADING

It is incongruous that we should promote the idea of adding permanent external support to an injured area without attempting to increase the strength of the local system. Yet this is what McKeon and colleagues suggest is often done in the management of foot injuries (see page 290). They challenge us to consider the muscular support system of the foot, the so-called, foot core, to focus on improving both the static and dynamic properties of these muscles. Orthotics may then be viewed as a temporary-assistive device that can be used to facilitate effective strengthening of the foot core rather than a permanent treatment. It is reasonable to conclude that specific exercises to strengthen local tissues are preferable to the use of passive external supports in other parts of the body. This concept can be extrapolated to the use of supports, braces and assistive devices to facilitate optimal loading rather than a way of minimising loading.

NOT JUST ‘THE WHAT’ BUT ‘THE HOW’

The message is clear—exercise works, whether it is specific or general. Beaudreuil and colleagues describe how a specific exercise programme focusing on dynamic humeral centring can positively influence pain and range of motion in patients with subacromial impingement (see page 343). The authors highlight that the outcome of the exercise intervention was not related to radiographic findings but to key functional and clinical measures; the old adage, ‘treat the patient not the scan’ springs to mind.

As with any intervention, specific exercises may be more effective for particular subgroups. One such group is the adolescent athlete—the theme for the ACPEM (Physios in Sport) biennial conference in 2015. The programme brings together international and national experts to consider effective management and exercise prescription in this unique population. The conference will be held on 9–10 October 2015 in Brighton, England. For more details please visit http://www.physiosinsport.org.

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