Physical activity in the UK: a unique crossroad?

Richard Weiler,1,2 Emmanuel Stamatakis3

INTRODUCTION

Recent objective evidence from England and the USA suggests that low physical activity is the most prevalent chronic disease risk factor, with 95% of the adult population not meeting the modest physical activity guidelines.1 2 In the UK, the annual cost of physical inactivity has been estimated at £8.2 billion, whereas the annual cost of smoking has been estimated at £1.5 billion,3 alcohol at £3.0 billion4 and obesity at £4.2 billion.1

However, despite this enormous burden on our public health and finances, the relative importance of physical inactivity as a primary cause of many chronic diseases is largely neglected within modern medicine and by health strategy. Surrogate risk factors for disease, such as hypertension, type II diabetes, obesity and dyslipidaemia, receive ample attention in medical education, have incentivised interventions embedded within primary care and are routinely reviewed during visits to a general practitioner (GP). Yet, despite physical inactivity being the most prevalent modifiable affliction and possibly the greatest chronic disease risk factor,5 it is still not receiving the attention that scientific and clinical evidence would seem to merit.

PRIMARY CARE OPPORTUNITIES

There is a unique structure to general practice and primary care within the UK National Health Service (NHS). UK GPs, who are usually the first point of contact for patients, have a unique position and opportunity to combat physical inactivity and its numerous associated comorbidities. Through the Quality and Outcomes Framework (QOF), GPs are financially rewarded for achieving healthcare targets. Setting up a new QOF point is relatively very cheap, costing approximately £1 million across the UK, and GPs have proved adept at reaching QOF targets.6 GPs are not trained to give lifestyle modification advice, but last year QOF included physical activity for the first time under a ‘cardiovascular risk assessment and management’ indicator. Specifically, 40–70% of newly diagnosed hypertensive patients should be ‘given lifestyle advice in the last 15 months for: increasing physical activity, smoking cessation, safe alcohol consumption and healthy diet.’ Smoking and diet are already included elsewhere under QOF, and the lack of emphasis on physical activity as an individual indicator provides mixed messages, negating its fundamental importance and rendering its promotion an afterthought. As things stand, QOF will not change in 2010/2011 because of unique circumstances relating to swine flu cuts still predicted) with the intention of boosting sport participation in the 4 years preceding the 2012 games.15 16 Strategies aimed at promoting physical activity in the general population require close co-ordination and improvements in communication between the sports and health sectors, but in reality these two sectors compete for limited funds. Time is running out for plans to be coordinated and implemented.

REASONS FOR LOW LEVELS OF PHYSICAL ACTIVITY PROMOTION AND UPTAKE

To address these issues, we need to assess why physical activity promotion has been ‘all talk,’ even though a clear call to action was recognised almost three decades ago.17

First, current strategies for increasing physical activity levels may have been held back by an apparent lack of exercise medicine knowledge and training among healthcare professionals.18 Only 13% of US medical schools include physical activity in their curriculum, and the reality is probably not much better in the UK.19 Curriculum changes are certainly required with dedicated time spent on the fundamentals of preventive medicine and exercise medicine, health promotion and lifestyle modification skills. Until these learning needs are addressed, GPs may need to involve and refer patients to suitably trained allied healthcare professionals and ‘approved’ fitness professionals to maximise the chances of successful behaviour change.

Second, research has shown that doctors who exercise themselves are more likely to promote physical activity to their patients.20 However, if physical activity levels are in reality as pandemically and dangerously low in healthcare professionals as the public, it is hardly surprising that physical activity promotion is neglected. Improved physical activity and health in NHS staff will generate considerable expectation that publicity and Olympic medal successes will inspire the nation to increase physical activity levels.12–14

Leading British politicians have even claimed that the London 2012 Olympics will make the nation healthier and combat the obesity epidemic.12

Despite the lack of evidence, a staggering £480 million of government and lottery funds were originally earmarked for investment in grass roots sport (these funds have since been reported to have been significantly reduced to help pay for Olympic delivery with further budget cuts still predicted) with the intention of boosting sport participation in the years preceding the 2012 games.15 16 Strategies aimed at promoting physical activity in the general population require close co-ordination and improvements in communication between the sports and health sectors, but in reality these two sectors compete for limited funds. Time is running out for plans to be coordinated and implemented.

OLYMPIC LEGACY

In 2012, the Olympic games will be hosted in London, and there has been the usual host city talk of the health benefits and a legacy strategy plan.10 11 One much hyped expected legacy has been to use the ‘trickle-down effect’ (also known as the ‘demonstration effect’), an unsubstantiated...
positive publicity for public health and prevention messages, will create numerous role models and has also been estimated to save the NHS £555 million a year in direct costs.21

Third, there has been minimal investment researching effective ways to increase physical activity in general practice and other contexts (eg, community, workplace, schools) and promote its numerous benefits. On the other hand, the pharmaceutical industry, for example, invests enormous amounts of funds on drugs research and marketing, on directly influencing medical practice in the form of consulting payments, research funding, sponsorship and gifts to professionals.22 23 and perhaps on even influencing the results of drugs research.24

Fourth, reductionist medical and political doctrine (‘target-culture’) influences healthcare practitioners to a simplistic understanding of the causation of illness and neglects health behaviours (ie, the actual causes) in favour of surrogate risk markers. Invariably, the first-line treatments for all these symptoms of poor lifestyles are pharmacological, perhaps to a large extent for the reasons outlined above. Increased physical activity can reduce mortality by as much as smoking cessation, even in later life, and yet smoking cessation is institutionally endorsed, and physical activity promotion is not.25

Fifth, the design of physical activity interventions makes their interpretation problematic; even more so when applied to public health policy. Changes to deeply rooted sedentary habits are often attempted in short-term interventions. Long-term follow-up of real-life individualised GP intervention to patients within established relationships, where the intervention and management plan are autonomously agreed and followed up, is fundamental and too easily forgotten.26 Most of the numerous collateral benefits of physical activity go unmeasured, and control groups enabling RCT studies are unethical (ie, for controls to remain inactive for long periods given the known health risks).27

Despite these inherent evidence limitations, the NHS National Institute for Health and Clinical Excellence (NICE) recommends physical activity promotion in primary care based on cost–benefit analysis.28 Both NICE and the Department for Health consider brief physical activity intervention in primary care ‘exceptional value for money’29 and may need to incentivise changes in practice rather than leave non-standardised initiatives, such as ‘lets get moving,’ optional.

A FEW SIMPLE FIRST STEPS

We propose that policymakers should simply introduce physical activity promotion into QOF at the earliest opportunity as its own individual indicator at an incomprehensibly modest cost close to £1 million6 (when compared with the enormous annual physical inactivity cost of £8.2 billion in 2002,1 which is likely to be much higher in 2010). This would quickly incorporate physical activity into computerised GP medical systems and motivate regular follow-up and national integration of physical activity promotion within primary care consultations. This could start with the introduction of the simple validated GP Physical Activity Questionnaire (GPPAQ) for patients aged 16–74 years without longstanding illness or disability. It can be completed in about 60 seconds without assistance and provides a simple, four-level Physical Activity Index of: active, moderately active, moderately inactive and inactive, which are correlated with cardiovascular disease risk and reflect the importance of a physical activity dose–response relationship (ie, more physical activity leads to greater health benefits).30

GPPAQ development started in 2002 and cost around £82 000 (2003 values) to develop and validate, excluding staff costs. It is currently largely unused, confirmed by a recent survey of the March 2010 General Practice Research Database, Gold database of 9,556,849 patients, where only 660 patients (0.007%) were found to have ever been coded for any of the GPPAQ read codes across 524 practices in the UK.

Introduction of GPPAQ will help identify those mostly in need (ie, 95% of the population1) and raise awareness of the numerous health benefits of physical activity. It will set the ball rolling and ensure that the primary care workforce becomes more aware and better educated about the enormous benefits of physical activity.

In addition to these first steps, there are more options available to facilitate this process. GPs (and all other healthcare professionals) should receive comprehensive training on exercise medicine and behaviour change during undergraduate and postgraduate training. Already qualified healthcare professionals should be offered opportunities and incentives for professional training on lifestyle medicine and particularly physical activity, which is the single most important modality for prevention and management of most chronic disease.

CONCLUSION

Given that physical inactivity has an adult population prevalence of 95%, placing a huge strain and financial burden on our NHS, there is an imperative need to facilitate all these health service-related, societal and cultural changes so that physical activity is increased.

The evolution of exercise medicine has reached a critical crossroad in the UK. Can we afford to leave physical activity promotion in primary care as the ‘would-be-nice’ preventive option, offered typically in the form of unstructured advice by inadequately trained professionals? Policymakers have an opportunity to address the current huge physical inactivity burden, make the most of the 2012 Olympic legacy and make the NHS a global leader in physical activity promotion.

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