

A Toolkit for the Design, Implementation & Evaluation of Exercise Referral Schemes

Guidance for referring healthcare professionals

#### Introduction

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Welcome to the exercise referral toolkit - guidance for referring healthcare professionals.

Healthcare professionals have a crucial role to play in promoting physical activity with patients and ensuring that patients are offered the safest and most appropriate physical activity pathway to meet their healthcare needs and personal preferences.

The aim of this guide is to provide health professionals with background information about exercise referral schemes. It is an introduction and any health professionals involved in exercise referral schemes should ensure they obtain additional information about local scheme protocols before referring patients.

To accompany this resource, we have also developed:

- Guidance for exercise professionals a resource which outlines the roles and responsibilities of the exercise professional and includes some practical tips for working with referred patients.
- Guidance for exercise referral scheme coordinators a resource outlining the key steps to developing and coordinating a high quality exercise referral scheme.
- Guidance for exercise referral scheme commissioners this resource provides an overview of the national guidance and protocols for developing and commissioning local exercise referral schemes.
- A guide to evaluating exercise referral schemes this guide includes helpful hints on how to improve the evaluation of exercise referral schemes. It provides a checklist for evaluating schemes.
- A guide to qualifications and training includes guidance on qualifications and training for professionals involved in the delivery, coordination and commissioning of exercise referral schemes.

### Guidance for referring healthcare professionals

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#### Terms of Use

The aim of this toolkit is to provide an easy-to-read, practical guide for all those professionals involved in the delivery, coordination, commissioning and evaluation of exercise referral schemes. These professionals include general practitioners, practice nurses, community nurses, allied health professionals (physiotherapists, dieticians etc.), exercise professionals, health promotion/ public health specialists, commissioners and researchers. The toolkit has been developed in consultation and collaboration with a range of professionals involved with exercise referral schemes and key national stakeholders.

It draws upon current Government policy for the design and delivery of quality assured exercise referral schemes; it is NOT a replacement for such national policy. Furthermore it <u>should NOT</u> be used in isolation from the National Quality Assurance Framework for exercise referral schemes (NQAF).

It is a tool to aid the design, delivery and evaluation of exercise referral schemes, but is <u>NOT POLICY</u>. It uses the evidence base and local scheme practice to support schemes in meeting the guidelines set out within the National Quality Assurance Framework and to raise standards within schemes.

This resource was written and produced by the British Heart Foundation National Centre for Physical Activity and Health. It was last updated March 2010.



#### Using the toolkit

It is recognised that capacity, resources and funding vary across schemes and that some schemes are struggling to implement elements of the National Quality Assurance Framework and consequently may struggle to adopt some of the recommendations set out within the toolkit. The toolkit is not designed as a 'blueprint' for how exercise referral schemes must be designed, implemented and evaluated; it offers some best practice principles for all those involved in the delivery, management and commissioning of exercise referral schemes. It is for individual schemes to consider whether the implementation of these principles will improve the design, delivery and effectiveness of their scheme, given the capacity and resources available.

Many schemes may already be meeting the recommendations outlined within the toolkit, in which case the toolkit can be used as a resource for professionals to take a fresh look at their scheme or as a guide for on-going reflection.

Some local health boards and primary care trusts may have developed an integrated system for the promotion of physical activity, which offers a range of physical activity opportunities for the local population, such as led-walks, green-exercise, exercise referral schemes and/or specialist condition specific whole exercise classes. This toolkit is predominantly concerned with exercise referral schemes designed for low to medium risk patients which involve the transfer of medical information from a healthcare practitioner to an appropriately qualified level 3, exercise professional.

Whilst it is recommended that, where appropriate, primary care professionals should advise patients to increase their physical activity it should be noted that recommending or sign-posting patients to local physical activity opportunities such as lay-led walking schemes is quite

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distinct from referring an individual to a dedicated service and transferring relevant medical information about this individual to this service.

Where schemes offer specialist condition specific whole exercise classes for patients/clients with any conditions covered by the level 4 national occupations standards these schemes should ensure they comply with the relevant governance arrangements and quality assurance guidelines.

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#### **Supporting Partners**



## East of England Regional

**Physical Activity Alliance** 









Llywodraeth Cynulliad Cymru Welsh Assembly Government







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#### **Executive Summary**

Healthcare professionals have a crucial role to play in promoting physical activity with patients and ensuring that patients are offered the safest and most appropriate physical activity pathway to meet their healthcare needs and personal preferences.



The aim of this resource is to provide health professionals with background information to exercise referral schemes, it is an introduction and any health professionals involved in exercise referral schemes should ensure they obtain additional information about local scheme protocols before referring patients to exercise professionals.

It is good practice identify a member of the practice team who can take particular responsibility for the exercise referral scheme, specifically liaising with the scheme coordinator and other referring professionals about training opportunities, changes in protocols etc. It is recommended that referring healthcare professionals:

- Assist service providers and commissioners to:
  - determine scheme protocols & guidelines e.g. inclusion & exclusion criteria based on local priorities
  - o agree governance arrangements
- Engage in briefing sessions about the scheme and become acquainted with:
  - o their roles and responsibilities
  - o scheme documentation
  - their medico-legal responsibilities
- Adopt a more systematic approach for identifying patients suitable for referral.
  - Be proactive in identifying patients for example, via CVD screening, targeting.
  - Use a risk stratification tool to determine which patients would be most suited to the exercise referral scheme.
  - Assess readiness to change.

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- Work with commissioners and scheme providers to agree a mechanism for profiling the characteristics of those who decline the offer of a referral and methods for recording why this might be so.
- Agree scheme evaluation and monitoring procedures.

Primary care professionals should ensure that exercise referral schemes operate in conjunction with (or as part of) coordinated health promotion and disease prevention programme in primary care.

#### Guidance for referring healthcare professionals

The aim of this resource is to provide health professionals with background information to exercise referral schemes, it is an introduction and any health professionals involved in exercise referral schemes should ensure they obtain additional information about local scheme protocols before referring patients to exercise professionals.



There are clearly significant issues regarding the roles and responsibilities of all professionals involved in an Exercise Referral Scheme (ERS) and more detailed information on these can be found in the Department of Health (2001) Exercise Referral Systems: A National Quality Assurance Framework.<sup>1</sup> The health professional's responsibility is essentially the same 'duty of care' that he/she would expect to exercise as they would when referring a patient to any other third party for additional or further treatment. The GP remains responsible for the overall management of each patient's clinical care programme.

This section of the toolkit provides healthcare professionals with a brief overview of the health benefits of physical activity; a summary of the options for increasing physical activity and an outline of the distinction between recommendation and referral. Finally this section provides answers to a number of questions frequently raised by healthcare professionals about exercise referral schemes.

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#### 1.0 Promoting physical activity in primary care

### 1.1 The relationship between physical activity and health

There is strong scientific evidence that physical activity is essential for good health. Regular moderate intensity physical activity can substantially reduce the risk of developing or dying prematurely from heart disease, diabetes, several forms of cancer and high blood pressure.<sup>2</sup> For example, regular physical activity can reduce the risk of developing coronary heart disease, stroke and type II diabetes by up to 50% and reduce the risk of premature mortality by about 20-30%.

Individuals who are active are almost two times less likely to die prematurely from a heart attack than their inactive contemporaries. Regular physical activity can also modify the classical cardiovascular risk factors, such as high blood pressure and adverse lipid profiles.<sup>3</sup>

Regular physical activity is important to the health and wellbeing of people of all ages; it offers direct protection against the risk of developing more than 20 different diseases and long-term medical conditions.<sup>2</sup> One in three people in the UK is currently living with a long-term condition.<sup>4</sup> Long- term conditions are now the most common cause of death in most industrialised nations and in many developing countries.<sup>5</sup> The role physical activity can play in the treatment and management of longterm conditions is significant given the prevalence of these conditions in society today.

Regular moderate intensity physical activity:

- Is important in preventing weight gain and essential to weight management for individuals who have lost weight.<sup>6</sup>
- Can produce metabolic benefits that contribute to the management of type Ildiabetes.<sup>6</sup>
- Can delay the progression of osteoporosis and osteoarthritis.
- Is effective in the treatment of mild-to-moderate depression and can help in the treatment of anxiety.<sup>6</sup>
- Is important in the prevention and management of osteoporosis.<sup>6</sup>
- Can help in the treatment and management of lower back pain, arthritis, chronic obstructive pulmonary disease, stroke, hypertension and many more long term medical conditions.<sup>6</sup>

Furthermore, the improvements in mobility associated with moderate physical activity are essential in maintaining functional independence in later life.<sup>6</sup>

In spite of the well documented benefits of regular moderate intensity physical activity the majority of the adult population in the United Kingdom fail to meet the current physical activity guidelines to confer health benefits. It is recognised globally that there is a need to promote healthier lifestyles and improve physical activity levels in order to reduce premature mortality and morbidity from chronic diseases.<sup>2,7</sup>

A study examining the burden of physical activity related ill-health in the UK found that in 2003-2004 over 35.000 deaths could have been avoided if the population were physically active at the levels recommended by the UK government. Physical inactivity was directly responsible for 3% of mortality and morbidity in the UK and accounted for an estimated £1.06 billion of direct costs to the NHS.<sup>8</sup> On average an inactive person has 5.5% more family physician visits, 13% more specialist service visits and 12% more nurse visits than an active individual.<sup>9</sup>



#### 1.2 The role of primary care

Primary care has been recognised as an important setting for the promotion of physical activity. Primary care professionals come into frequent contact with the general public, indeed it is estimated that 85% of the population visit their GP surgery on an annual basis.<sup>10</sup> Every consultation provides an opportunity to promote behaviour change or to refer to relevant support services.<sup>11</sup> Furthermore there is strong clinical and cost- effectiveness evidence to demonstrate the importance and the potential of using health professionals to promote physical activity.<sup>12</sup>

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### 1.3 Options to increase physical activity

There are a range of interventions which can be used by primary care practitioners to promote physical activity for disease prevention, these include:

- Routine advice to increase physical activity.
- Physical activity counselling or brief interventions.
- Recommending activities, facilities or services such as:
- Self-directed, unsupervised activities, e.g. swimming, gardening, cycling, walking, activities of daily living.
- Lay-led activities e.g. health walks, green gyms.
- Supervised, structured activities
   e.g. dance, tai-chi, and aerobics.
- Referring into a specific structured system with a specialist exercise professional such as an exercise referral scheme, condition-specific class (cardiac rehabilitation, falls prevention).





Exercise referral schemes represent only one type of intervention that can be used by primary care professionals to promote physical activity for health gain, such schemes should operate as part of a coordinated health promotion and disease prevention programme.

#### 1.4 Recommendation versus Referral

Recommending a patient increase their physical activity or signposting a patient to any of the broader physical activity opportunities, i.e. walking scheme, is quite distinct from referring an individual to a dedicated service for the development of a tailored physical activity programme i.e. an exercise referral scheme. With the former the responsibility for taking part in any of these activities is up to the patient who is also responsible to act within the boundaries of the health professional's recommendation. The latter, exercise referral, requires the transfer of relevant medical information about an individual in order for an exercise professional to develop a tailored physical activity programme. Furthermore the exercise professional takes responsibility for the safe and effective design, delivery and management of this individual's physical activity programme.

It is important to adopt an approach which best suits the characteristics and expressed needs of the individual patient. Some inactive people may find community-based physical activity programmes, such as a led walking group more accessible and more appealing than formal exercise programmes, such as an exercise referral scheme.

Making a decision about whether a patient is suitable for exercise referral or which physical activity option is best for an individual patient relies on the health professionals' clinical judgement and is based on a number of factors (see FAQ).

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# 2.0 Frequently asked questions about exercise referral schemes

These questions have been identified following consultation and discussion with a number of healthcare professionals engaged in exercise referral schemes. Questions have been grouped under three headings: The exercise referral pathway, clinical governance and scheme governance arrangements (specifically focusing on issues relating to scheme management).

The questions are listed below and answers are provided on the respective pages.

#### 2.1 Exercise Referral Pathway

- 2.1.1 How does exercise referral work?
- 2.1.2 Who can refer into a scheme?
- 2.1.3 How much paperwork will this involve?
- 2.1.4 Will referring patients for exercise be time consuming?
- 2.1.5 What information do I need to provide about the patient?
- 2.1.6 How is the information about my patient transferred to the exercise professional?
- 2.1.7 Is the patients consent needed to transfer their medical information?
- 2.1.8 Are there any guidelines about who not to, and who to refer?

- 2.1.9 How do I decide which patients are suitable for referral?
- 2.1.10 What should I do about those patients who would benefit from being more physically active, but not suitable for the exercise referral scheme?

#### 2.2 Clinical Governance

- 2.2.1 Is there any evidence that physical activity is beneficial to my patient's health?
- 2.2.2 Are physical activity/exercise referral schemes effective?
- 2.2.3 Is it safe for me to refer my patients to an ERS?
- 2.2.4 What relevant qualifications do the exercise professionals need to have to ensure they can safely develop an exercise programme for my patients?
- 2.2.5 Why should I refer my patients- is this an effective use of my time and resources?
- 2.2.6 How will I know whether the scheme has been beneficial to my patient and who is responsible for patient followup and feedback?
- 2.2.7 Do I need to pass on information about any relevant changes in the health of my patient?

#### 2.3 Governance Arrangements

- 2.3.1 Who is responsible for developing and managing an ERS?
- 2.3.2 Do I play a role in scheme design or only refer when schemes are established?
- 2.3.3 How will I obtain information about the ERS protocol?
- 2.3.4 Will I be legally responsible if my patient has an adverse event as a consequence of me referring them for exercise?
- 2.3.5 Who is responsible for ensuring confidentiality of my patient's records?
- 2.3.6 Who is responsible for risk assessing the ERS?

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### 2.1 The Exercise Referral Pathway

2.1.1 How does exercise referral work?

Exercise referral schemes operate in various ways; typically schemes involve a partnership between primary care trusts and local leisure services. In the main schemes involve a member of the primary care team, or another health professional, referring a patient to a suitably gualified exercise professional for an assessment of the patient's need, the development of a tailored exercise programme, monitoring of progress and a follow-up. The exercise programme usually takes place in a leisure centre, swimming pool or gym; however some schemes offer a range of community- based activities, such as tai-chi, cycling, led-walks, greengyms, and conservation work. Eligible participants are normally recruited during routine consultations or in some circumstances after searching the practice database for patients at risk of coronary heart disease or other long term conditions.

2.1.2 Who can refer into a scheme?

Health professionals are the primary gatekeeper for patients entering the exercise referral process and hence play a pivotal role in current scheme design. Historically the majority of referrals have been initiated by a General Practitioner or practice nurse, however more recently a range of other health professionals are now referring into schemes, these include physiotherapists, diabetes specialist nurses, dieticians, mental health teams. <u>At the present time</u> only registered healthcare professionals can refer into an exercise referral scheme.



Where a referral is initiated by another allied health professional, working with delegated authority, the scheme organisers should issue guidance outlining the procedures for referral. This should include information about informing the patient's GP regarding the intended referral as well as the boundaries within which the referral can be made. For example, if the allied healthcare professional is unable to provide basic information about the patient's health status, e.g. current blood pressure, heart rate reading and details of medication it is recommended that the patient seeks a referral from their GP. GPs should not be placed in a position whereby

they have to accept somebody else's referral and then endorse it without having the opportunity to discuss this with the patient.<sup>1</sup>

2.1.3 How much paperwork will this involve?

Most exercise referral schemes have referral documentation in place, such as a referral letter or patient transfer form. The referring practitioner is required to complete the relevant transfer letter or form, and to obtain the patient's consent to transfer all of the relevant clinical information to the exercise professional. Patient consent to transfer the relevant clinical information to the exercise professional is required as their personal information is being transferred to a non-medically qualified professional.

Referral letters or forms should be no more than two sides of A4. In an attempt to simplify the referral process some schemes accept a print out of the patient's drug and/or medical history as an attachment to the referral form. If the referral form is considered too lengthy it is recommended that GPs discuss this option with the exercise referral scheme coordinator to explore how this approach might work. An example of a referral form based on SIGN good

<sup>i</sup> Recommendation from the Royal College of General Practitioners (2009)

practice guidelines for referral documentation can be found in Appendix 1.

2.1.4 Will referring patients for exercise be time consuming?

No, once a GP, practice nurse or allied healthcare professional has decided to make an exercise referral, all relevant clinical information is transferred to the exercise professional, via the referral form. It generally takes between 2 to 3 minutes to complete the referral form.



2.1.5 What information do I need to provide about my patient?

It is the referring practitioner's responsibility to ensure that all relevant clinical information about

the patient's health status is disclosed to the exercise professional to enable them to develop a safe and effective exercise programme that will meet the needs and ability of the patient. The NQAF for Exercise Referral Systems states:

"There must be meaningful transfer of relevant information to the person who will be conducting the exercise intervention."

#### p29 NQAF (2001)<sup>1</sup>

NQAF recommends that referral forms should include the following information:

- Relevant current and past health problems.
- Details of any medications being taken and known impact on everyday functional ability.
- If known, the possible effects of diagnoses and medications on activities of daily living and on physical activity.
- Standard measures, such as blood pressure, heart rate, body mass index and lifestyle factors, for example, smoker, heavy drinker.
- Any special considerations or advice given to the patient, for example, a patient with osteoarthritis should be advised to recognise and respect an increase in pain, stiffness or swelling.
- Information about any exercise already being undertaken or for which the patient or referrer has expressed a preference should also be included.
  - p29 NQAF (2001)<sup>1</sup>

However, it is recognised that it may be too time consuming for GPs, practice nurses and allied healthcare professionals to provide details such as known impact of medications on functional ability or physical activity and the patient's current exercise status.

It is therefore recommended, <u>as a</u> <u>minimum the referral documentation</u> <u>must state clearly the reason for</u> <u>referral and provide information</u> <u>about the patient's current health</u> <u>status, medication and relevant</u> <u>medical history.</u> It is also good practice to indicate on the referral form how long the referral is valid for.

"Referral letters or forms without this information or containing only blanket phrases such as "I know of no reason why Mrs X should not engage in exercise" are not acceptable as part of a quality referral system."

"Exercise professionals are advised not to accept responsibility for a referred patient until all relevant clinical information is available."

# 2.1.6 How is the information about my patient transferred to the exercise professional?

A protocol for processing referrals should be agreed between the commissioners and service providers after consultation with the referring practitioners. Typically paperwork is transferred via telephone, post and email or presented in person by the referred patient. Some schemes are also in the process of developing electronic referral systems. If electronic referral forms are the preferred option for transferring information this should be discussed with the commissioners and service coordinator or provider to consider how this could be developed and implemented.

2.1.7 Is the patient's consent needed to transfer their medical information?

Yes, under common law, a healthcare professional wishing to disclose a patient's personal information to anyone outside of the team providing care should first seek the consent of that patient. Generally an exercise referral form will have a section for patient consent.

2.1.8 Are there any guidelines about who not to, and who to, refer?

Guideline 2 of the National Quality Assurance Framework recommends:

"Each scheme should develop its own medically led selection criteria which is tailored to the health needs of the patient population, the competencies and qualifications of the exercise professionals and the exercise facilities and services available." <u>p18 NQAF</u> (2001)<sup>1</sup>

Patient referrals should be made on the basis of these agreed criteria. Generally, exercise referral schemes have been set up to cover a range of low to medium risk populations with specific medical conditions or health risk factors.

The NQAF<sup>1</sup> defines low risk populations as 'people with minor, stable physical limitations or two or less CHD risk factors' and medium risk populations as 'people with significant physical limitation related to chronic disease or disability'.

In the absence of a national standardised risk stratification tool, the risk tool developed by Irwin and Morgan<sup>13</sup> provides straightforward referral guidelines for healthcare professionals which can be used to categorise patients during a clinical consultation (see appendix 2).

According to the NQAF people with current severe disease or disability (high risk) are <u>not considered suitable</u> for a general exercise referral scheme and should only be referred to medically supervised, and/or specialist physical activity/exercise sessions with a clinical exercise lead.<sup>1</sup> There are also several absolute contraindications to exercise which referring health professionals should be familiar with, see list opposite.<sup>2</sup>

Patients with any of these absolute contraindications should not exercise until such conditions are stabilised or adequately treated.

<sup>4</sup>Absolute contra-indications to exercise:

- A recent significant change in a resting ECG, recent myocardial infarction or other acute cardiac event.<sup>3</sup>
- Symptomatic severe aortic stenosis.
- Acute pulmonary embolus or pulmonary infarction.
- Acute myocarditis or pericarditis.
- Suspected or known dissecting aneurysm.
- Resting Systolic Blood Pressure ≥ 180mmHg / Diastolic Blood Pressure ≥ 100mmHg.
- Uncontrolled / unstable angina.
- Acute uncontrolled psychiatric illness.
- Unstable or acute heart failure.
- New or uncontrolled arrhythmias.
- Other rapidly progressing terminal illness.

- Experiences significant drop in BP during exercise.
- Uncontrolled resting tachycardia ≥ 100 bpm.
- Febrile illness.
- Experiences pain, dizziness or excessive breathlessness during exertion.
- Any unstable, uncontrolled condition.<sup>4</sup>

The decision to refer is for the individual health professional when faced with the individual patient. <u>A health professional is under no obligation to make a referral.</u>

### 2.1.9 How do I decide which patients are suitable for referral?

As previously mentioned each scheme will have an agreed set of inclusion and exclusion criteria that specifies which patients are suitable for referral. Some schemes may only include individuals who are insufficiently active with existing medical conditions; other schemes may include individuals who are inactive, with no underlying medical problems.

<sup>&</sup>lt;sup>2</sup> Absolute contraindications taken from BACR (2006) Phase IV Exercise Instructor Training Manual & ACSM (2006) Guidelines for Exercise Testing and Prescription

<sup>&</sup>lt;sup>3</sup> Appropriate guidance on this should be provided either by the patient's cardiologist or cardiac rehabilitation team

<sup>&</sup>lt;sup>4</sup> Diabetes may be an exception here as exercise can help individuals in the management of controlled diabetes

Generally referrals for exercise are most suitable for patients who are insufficiently active and are likely to need help with motivation, exercise programming, supervision and monitoring and/or need assistance in selecting the appropriate type, intensity, frequency and duration of activity, directed at a specific health outcome.

Health professionals can use different tools to identify which patients would benefit from being more physically active and would be appropriate for referral. NICE recommends primary care professionals should use a validated tool, such as the General Practice Physical Activity Questionnaire (GPPAQ), to identify inactive individuals (see appendix 3).<sup>12</sup>

In addition, as part of NHS Health Checks health professionals can screen practice registers to identify suitable patients for exercise referral, for example patients at increased risk of CVD.UK guidelines recommend that all people aged 40 or over should have a routine cardiovascular risk assessment.

Patients with a moderate-to-high predicted CVD risk may benefit from lifestyle interventions to increase physical activity; such patients may be ideal candidates for an exercise referral scheme. It is also recommended that the referring healthcare professional should assess the patient's readiness to change behaviour as this may screen out patients who are unlikely to attend the initial assessment or likely to drop-out before the end of the exercise referral programme.<sup>1</sup>

Typically, patients who are regularly active would not be considered for a referral scheme. However, there may be exceptions to this rule, for instance when an active patient is newly diagnosed with a medical condition, e.g. diabetes, a referral

might be judged as necessary in order to increase the likelihood of a safer and more effective exercise experience.

Making a decision about whether a patient is suitable for exercise referral or which physical activity pathway is best for an individual patient relies on the health professionals' clinical judgement and is based on a number of factors.

The table below provides a quick guide to determining which physical activity pathway (referral or recommendation) is best for an individual patient.

patient's physical activity							
	Favours exercise	Favours					
Factor	referral	recommendation					
General health status	Fair/poor	Good					
Ready to change behaviour	No/Ambivalent	Yes					
Requires activity for specific health outcomes	Yes	No					
Requires tailored exercise programming	Yes	No					
Able to safely exercise alone	No	Yes					
Needs motivational support	Yes	No					
Social circumstances	Living alone/ not coping	Good					

In summary, referral to a qualified exercise professional for the development of a tailored exercise programme may be favoured for some patients who: are inactive; living with a medical condition which will benefit from being more active; and need help with motivation, exercise programming and supervision.

2.1.10 What should I do about those patients who would benefit from being more physically active, but not suitable for the physical activity/exercise referral scheme?

Given that only a third of the adult population meet the current physical activity recommendations for health<sup>14</sup> the majority of the general population would benefit from becoming more active. However, the bulk of the population who are inactive do not necessarily require supervised exercise in the guise of an exercise referral scheme. For the majority of the population recommendations to try to become more physically active in order to gain health benefits may be suffice.



Recent NICE guidance recommends that:

"Primary care professionals should take the opportunity whenever possible, to identify inactive adults and to advise them to aim for 30 minutes of moderate activity on 5 days of the week or more."

#### NICE (2006)<sup>12</sup>

The National Quality Assurance Framework<sup>1</sup> makes the distinction between recommending a patient to become more active and specifically referring a patient to a third party where a tailored exercise programme can be devised and delivered. A recommendation to become more active may be made as part of general lifestyle advice and would be no different to any other recommendation, for example to stop smoking. However, when making the decision to recommend a patient becomes more habitually active, the

healthcare professional should ensure there are no underlying medical conditions which would make this recommendation a particular risk.<sup>5</sup> Healthcare professionals should also consider whether the person is receptive to and capable of carrying out this recommendation safely.

The presence of a severe disease or disability, such as cardiovascular disease, stroke, osteoporosis, depression, dementia, chronic pulmonary disease, chronic renal failure, peripheral vascular disease, or arthritis (which may all be present within a single individual) should not preclude individuals from being active. While patients who are classified as 'high risk' may not be suitable for a general exercise referral scheme, regular clinically supervised exercise and/or physical activity is likely to be extremely beneficial to the treatment and management of their condition.



High risk populations who would benefit from being more physically active are likely to require medically supervised physical activity and/or specialist exercise sessions in secondary and/or tertiary health care

<sup>&</sup>lt;sup>5</sup> The medico-legal issues regarding specifically referring patients to a third party are discussed later in this section. With regards to general lifestyle advice to become more physically active NICE do not think practitioners would be liable if they had taken responsible steps to ensure there weren't any underlying medical conditions making exercise a particular risk, i.e. take a proper history and do basic tests such as check blood pressure to exclude underlying disease. Given the evidence of the important therapeutic benefit of exercise, if practitioners are not advising patients about exercise they might to considered not to be practicing medicine to the benefit of the patient and liable to challenge. Personal communication with NICE 16/06/2008

settings, for example, phase III or phase IV cardiac rehabilitation, phase III osteoporosis, falls services, stroke rehabilitation, COPD rehabilitation clinics. Information about these opportunities should be available from the Primary Care Trust, Community Health Partnership or Local Health Board.

The National Quality Assurance Framework provides a contextual diagram for matching patients medical characteristics with professional expertise (see Appendix 4).

#### 2.2 Clinical Governance

2.2.1 Is there any evidence that physical activity is beneficial to my patient's health?

There is a wealth of scientific and epidemiological evidence documenting the health benefits of regular moderate to vigorous physical activity across the life course. In a report summarising the evidence on the impact of physical activity and its relationship to health the Chief Medical Officer concluded the scientific evidence is compelling.<sup>2</sup>

Regular physical activity is important to the health and well-being of people of all ages; it offers direct protection against the risk of developing more than 20 different diseases and long-term medical conditions.<sup>2</sup>

Several Cochrane systematic reviews have found that physical activity/ exercise interventions have therapeutic benefits with respect to several major chronic diseases, for example:

- Exercise significantly improves blood glucose control, reduces visceral adipose tissue and plasma triglycerides, but not plasma cholesterol in people with type 2 diabetes, even without weight loss.<sup>15</sup>
- In people with asthma, physical training can improve cardiopulmonary fitness without changing lung function. It does not have an adverse effect on lung function and wheeze in patients with asthma.<sup>16</sup>
- Exercise forms an important component of the management of Chronic Obstructive Pulmonary Disease. Exercise rehabilitation relieves dyspnoea, fatigue, improves emotional function and enhances patients' sense of control over their condition. These improvements are moderately large and clinically significant.<sup>17</sup>
- Therapeutic exercise is used as one modality to treat people with osteoarthritis. Both high intensity and low intensity aerobic exercise

appear to be equally effective in improving a patient's functional status, gait, pain and aerobic capacity in people with osteoarthritis of the knee.<sup>18</sup>

- Some patients with chronic fatigue syndrome may benefit from exercise therapy and no evidence that exercise therapy may worsen clinical outcome on average.<sup>19</sup>
- In adults living with HIV/AIDS aerobic exercise appears to be safe, the main results indicated that performing constant or interval aerobic exercise may improve cardiopulmonary fitness and psychological well-being.<sup>20</sup>

Further review level evidence documents the therapeutic benefits of exercise interventions for people with a range of long-term medical conditions such as fibromyalgia syndrome, rheumatoid arthritis, intermittent claudication, nonspecific low back pain, depression and breast cancer.<sup>21-26</sup>

2.2.2 Are physical activity/exercise referral schemes effective?

Exercise referral schemes are a popular intervention used to encourage patients with long-term medical conditions, such as diabetes, obesity, mental health problems, osteoarthritis, chronic fatigue syndrome etc., to become more physically active. At a local level such schemes are often considered very successful and perceived to have a positive impact on a range of functional and social-psychological parameters of the people referred. For patients who are initially anxious about exercise, the individually tailored exercise prescriptions and close supervision are seen as particularly important factors.<sup>27</sup>

Despite their popularity a recent NICE review of the effectiveness of four commonly used methods to increase physical activity found that exercise referral schemes can have positive effects on physical activity levels in the short-term (6 to 12 weeks), however the evidence of the effectiveness of exercise referral over the longer term (over 12 weeks) was equivocal.<sup>12</sup>

NICE concluded that there <u>is</u> <u>insufficient RCT</u> level evidence to recommend the use of exercise referral schemes where their primary purpose is to increase physical activity. However, research conducted by Riddoch and colleagues examined several case studies and revealed that exercise referral schemes had other benefits, which the controlled trials of effectiveness had so far missed. <sup>27</sup>

Creating an active nation

Following the publication of the NICE guidance the Department of Health released a statement urging commissioners, practitioners and policy makers to continue to provide high quality exercise referral schemes for their local population where these address:

- a) The medical management of conditions, for example mildmoderate hypertension, type 2 diabetes, obesity, osteoarthritis and osteoporosis.
- b) Approaches specific to preventing or improving individual health conditions (e.g. falls prevention), which fall outside the overarching advice to achieve 30 minutes moderate activity on at least 5 days a week.<sup>28</sup>

The DH statement endorsed the NICE recommendation that use of exercise referral schemes solely for the purpose of increasing physical activity are recommended only when they are as part of a properly designed and controlled research study to determine their effectiveness.

It is recognised that there is a need to build the evidence base with respect to the long- term effectiveness of exercise referral schemes for increasing physical activity participation and their costeffectiveness relative to other physical activity or lifestyle interventions.

2.2.3 Is it safe for me to refer my patients to an exercise referral scheme?

There will always be an element of risk associated with referring patients for exercise; however the risks need to be put into context. Thousands of patients have participated in exercise referral schemes, in spite of this there remain very few reported serious adverse reactions. Exercise referral schemes provide an opportunity for people with long-term medical conditions to increase their physical activity in a safe environment under the appropriate guidance of a suitably qualified and insured exercise professional.

All professionals involved in exercise referral have a duty of care, where a healthcare professional is concerned; the law would expect reasonable care and skill to be shown in undertaking an assessment of the risks and benefits of the patient exercising. This assessment should take account of past and present medical history, family history and medication. To comply with duty of care the referring healthcare professional must ensure there is a meaningful transfer of all relevant information to the exercise professional who will be responsible for designing and supervising the exercise programme.

Where the exercise professional and the service provider are concerned the law would expect reasonable care and skill to be shown in minimising any potential risks involved in participation in the exercise programme. The Register of Exercise Professionals<sup>29</sup> (REPS) Code of Ethical Practice requires its members to confine themselves to practice those activities for which their training and competence is recognised by the Register.

Therefore exercise professionals working with referred clients should have the relevant knowledge, skills and competencies to design, agree, adapt and review a physical activity programme appropriate to the referred patients medical condition and physical limitations (for further information on qualifications and training of exercise professionals see the toolkit Guide to Qualifications and Training).

2.2.4 What relevant qualifications do the exercise professionals need to have to ensure they can safely develop an exercise programme for my patients?

The National Quality Assurance Framework recommends that patients are referred to exercise professionals who are members of the Register of Exercise Professionals and registered as a Level 3 exercise referral instructor or where service delivery necessitates registered Level 4 specialist instructor. REPS registration signifies that the exercise professional meets the National Occupational Standards for practice, including continuing education and insurance.

As part of the service level agreement commissioners should specify the qualifications for exercise professionals working with referred patients. Furthermore, service providers are responsible for ensuring that all exercise instructors working with referred patients hold the appropriate qualifications, registration and insurance.

2.2.5 Why should I refer my patients - is this an effective use of my time and resources?

Data on the benefits of exercise referral schemes for referring healthcare professionals are not routinely collected. However, evidence extracted from studies which have used exercise as an alternative or adjunctive treatment for patients with a range of long-term medical conditions have shown positive benefits for primary care practice.



A randomised controlled trial of exercise training in primary care patients with persistent, unexplained physical symptoms found that primary care consultations rates and prescriptions were significantly reduced in the six months after training. In addition, the number of secondary care contacts and the number of patients who were newly referred to secondary care significantly declined from the start of the programme to six month follow-up.<sup>30</sup>

The 'Diabetes Prevention Programme' found that those at high risk of developing type II diabetes can delay and possibly prevent the disease by lifestyle modification. The trial showed that diet and exercise were significantly more effective than metformin in the prevention of diabetes in glucose intolerant patients. The lifestyle intervention group reduced incidence of diabetes by 58% as compared to the placebo group, metformin reduced incidence by 31%. This study indicated that professionals would need to treat seven people for three years with lifestyle intervention to prevent one new case of diabetes compared to 14 people for three years with metformin.<sup>31</sup>

Other NNT studies have compared exercise with clinical and/or pharmacological intervention and found that the numbers needed to treat are much lower than more invasive and pharmacological interventions.

For an average practice of 20,000 patients (made up equally of men and women) each year there are 68 new cases of CHD and 38 new cases of stroke that could be mitigated by promoting physical activity effectively in primary care (using QOF data; statistics are relevant for the year of the study).<sup>32</sup>

It has been calculated that 9% of CHD could be avoided if all those who are sedentary and lightly active became more moderately active33 and that regular moderate physical activity has the potential to reduce half the incidence of hip fractures in over 45 year olds.<sup>34</sup>

Physical inactivity is a public health burden in the UK; it is estimated to directly cost the NHS around £1.6 billion per year. For a practice population of 10,000 patients the cost of five conditions attributable to physical inactivity averages £50,000 per year.<sup>35</sup>

2.2.6 How will I know whether the scheme has been beneficial to my patient and who is responsible for patient follow-up and feedback?

It is the responsibility of the exercise professional (service provider) to provide the referring healthcare professional with information about the patient's progress and benefits to their patient.

Most schemes will have a protocol in place for providing feedback to referring practitioners either for individual patients or for the practice population. The referring healthcare professional needs to agree with service providers how information about their patient's progress or lack of it, is to be fed back to them.

2.2.7 Do I need to pass on information about any relevant changes in the health of my patient?

Whilst NQAF states that the GP is responsible for the overall management of each patient's care programme and should therefore pass on any information about any relevant changes in the health of the patient to the exercise professional. It is recognised that this might present practical problems. As an alternative to the GP being responsible for passing on this information, it is advised that some responsibility should be put on the patient to disclose any changes in circumstances and GPs are advised to give patients examples of such things, e.g. changes in medication, shortness of breath, dizziness. In these circumstances the exercise professional may seek further information from the patients GP. According NQAF the GP has a duty of care to respond in an appropriate and timely manner to enquiries about the patient from the exercise professional.





### 2.3 Governance Arrangements

2.3.1 Who is responsible for developing and managing the exercise referral scheme?

The planning of each exercise referral scheme should be undertaken locally by a multi- disciplinary steering group. It is good practice for the steering group to involve representatives from the local health board, (primary care trust or community health partnership), leisure services, referring healthcare team and an exercise professional.

The planning group should determine the protocols and guidelines for the scheme, including:

- Who can be referred into the scheme (inclusion/exclusion criteria).
- Who can initiate a referral.
- Who can receive referrals (Level 3 advanced exercise professionals).
- What physical activity referral opportunities will be available.
- Who is responsible for running the scheme.
- The administrative processes in place.
- The organisations involved and
- The monitoring and evaluation procedures.

It is recommended that the scope of a scheme is determined by the

demographic and health needs of the local population and the competencies and qualifications of the exercise professionals at the point of delivery, the exercise facilities and services available.

Generally the scheme will be managed by an exercise referral coordinator employed either by the local health board (primary care trust or community health partnership) or leisure service.

2.3.2 Do I play a role in scheme design or only refer when schemes are established?

As mentioned above it is good practice for a representative of the referring healthcare team to be a member of the scheme steering/planning group, however where schemes are already established this might not be feasible.

2.3.3 How will I obtain information about the exercise referral scheme protocol?

Most schemes will offer a briefing session for healthcare professionals engaged in a local exercise referral scheme. It is good practice and important that all referring healthcare professionals involved in new or established schemes are fully briefed regarding the scheme protocols and guidelines. Referring healthcare professionals also have a responsibility to read and familiarise themselves with all relevant scheme documentation and protocols to ensure they are clear about:

- Their roles and responsibilities;
- Which patients the scheme is intended to support and the criteria (medical or otherwise) that will guide exclusions from the scheme;
- The referral process;
- The feedback and evaluation mechanisms and
- Patient exit routes after the 'referral period'.

2.3.4 Will I be legally responsible if a patient has an adverse event as a consequence of me referring them for exercise?

NO, the referring healthcare professional does not develop the exercise programme. The referrers role is to decide whether the patient is eligible for the scheme and make the referral into an exercise referral scheme which is quality assured. By making a referral to an appropriately qualified exercise professional the healthcare professional is not assuming responsibility for the design, delivery or supervision of the exercise programme. Indeed NQAF specifies that:

"...when an individual is specifically referred for exercise by a health

practitioner, once all of the relevant medical information has been transferred to the exercise professional, the responsibility for safe and effective management, design and delivery of the exercise programme passes to the exercise and leisure professionals."

### p13 NQAF (2001)<sup>1</sup>

Medical Defence Union members have guestioned whether they could be criticised or held to account by the General Medical Council for referring patients for exercise programmes, particularly when they do not know what the programmes involve, or where the exercise professionals are not registered with appropriate regulatory bodies. The GMC has indicated that it would have no concerns about a GP referring a patient to an exercise professional on the Register of Exercise Professionals since REPS is a recognised body by the Department of Health.

2.3.5 Who is responsible for ensuring confidentiality of my patient's records?

The scheme organisers will be responsible for ensuring that local protocols and structures are suitable for the purpose of ensuring that the patient's confidentiality is maintained throughout the referral process. Scheme organisers will be responsible for ensuring patients' health records are securely protected during their transportation between sites or organisations.

2.3.6 Who is responsible for risk assessing the exercise referral scheme?

The service provider has a duty of care which must be fully considered in establishing and running a quality assured exercise referral scheme. In meeting this duty of care, leisure managers and scheme coordinators will need to liaise with their insurance risk manager and undertake a risk assessment of all aspects of the exercise referral scheme and potential patient groups.

Regardless of where the exercise is taking place, i.e. public, private or voluntary health and fitness facility, community centre, swimming pool or local park, there must be evidence that the exercise environment has been risk assessed. This should demonstrate the environment is fit for the purpose, all health safety legislation is complied with and appropriate insurance is in place (p16 NQAF).

## Summary

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Healthcare professionals have a crucial role to play in promoting physical activity with patients and ensuring that patients are offered the most appropriate physical activity pathway to meet their healthcare needs and personal preferences.

Healthcare professionals tend to have knowledge of the local health priorities and health issues and exercise referral schemes should be designed around the needs of the local population. To ensure this happens, it is recommended that a representative healthcare professional engages with other relevant stakeholders to design the local exercise referral service.

It is also good practice to identify a member of the practice team who can take particular responsibility for the exercise referral scheme, specifically liaising with the scheme coordinator and other referring healthcare professionals about briefing sessions, scheme protocols and documentation

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# Appendices

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- 1. Physical Activity/Exercise Referral Transfer Form
- 2. Irwin and Morgan Sample Risk Stratification Tool.
- 3. General Practice Physical Activity Questionnaire (GPPAQ)
- 4. NQAF Patient Characteristics & Exercise Professional Expertise Pyramid.

### Appendix 1 Physical activity/exercise referral transfer form

Physical activity referral is one way of increasing physical activity levels of patients with specific medical conditions.

It may not be the most appropriate route for patients where there is no underlying medical condition or risk. A general recommendation to increase physical activity levels in order to gain health benefits may be all that is required if you consider the patient has reasonable motivation and resources to safely increase their physical activity levels.

Refer to the <u>scheme inclusion criteria</u> and use your professional judgement to determine whether the exercise referral scheme is the most appropriate route for the patient.

#### PLEASE COMPLETE THIS FORM IF THE PATIENT IS BEING REFERRED To be completed by Referring Practitioner ONLY

Please <u>complete all sections of the form</u>, incomplete forms may be returned and your patient may be temporarily deferred until all relevant medical information is obtained.

PATIE	INT DETAILS	REFERRING PRA	CTITIONERS DETAILS
Surname:		Name:	
Forename:		Position:	
Male/Female:		Address:	
Date of Birth:			
Address:		Postcode:	
		Tel. No:	
Postcode:		Fax. No:	
Contact Tel. No:		Email Address:	
NHS No:	the second s	Referral No:	
REGISTERED GP DETA	ILS (if different from referri	ng practitioner)	
Name:		Address:	
Practice:			
Tel. No:			
Fax. No:			
Email Address:		Postcode:	
REASON FOR REFERR	AL: Please check against sch	neme inclusion/exclusion criteria	
	cluded in the scheme if prefer	nt information about the patient's	s health status.
	Systolic BP:	Diastolic BP:	BMI:
Resting HR:			
	: Please give details of all rel	levant current and past health	problems.

MEDICATION: Please provide a list of <u>any medications being taken.</u>	PHYSICAL LIMITATIONS: Please provide details <u>any physical limitations</u>
i.e. Beta blockers	e.g. Arthritis of the hip
ADDITIONAL RELEVANT INFORMATION: Please included in other parts of the form.	de any additional relevant information which has not been
e.g. awaiting further investigations	
AUTHORISATION	
I can confirm that the details given are a true reflection of patient to the physical activity scheme under the terms & a	
Name of Referring Practitioner (PLEASE PRINT)	
Signature of Referring Practitioner	
Contact Telephone No.	

#### PATIENT CONSENT<sup>VII</sup>

The Exercise Referral Scheme has been fully explained to me. I am prepared to participate and I give permission for this information to be passed to staff on the physical activity referral scheme.

PLEASE PRINT YOUR NAME	
Signature of Patient	
Date	

#### **IMPORTANT:**

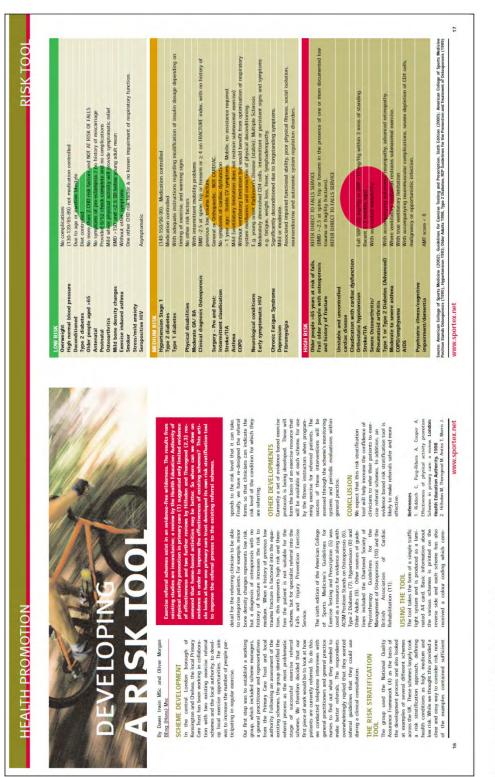
This referral is valid for <u>3 months</u>. If the patient fails to attend the initial consultation within 3 months of the date of referral and still wishes to participate in the referral scheme, the patient <u>must</u> see their Referring Practitioner in order to be re-referred.

Physical Activity Referral Officers are advised <u>NOT TO ACCEPT</u> responsibility for a referred patient until all relevant clinical information is confirmed and signed.

Referral letters or forms without this information or containing only blanket phrases such as 'I know of no reason why Mrs X should not engage in exercise' <u>are not acceptable as part of a quality referral system.</u>

vii All information in this form will be treated in the strictest confidence and stored securely according to the Data Protection Act 1998.

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### Appendix 2 Irwin and Morgan sample risk stratification tool

## **HEALTH PROMOTION**

#### EXERCISE REFERRAL SCHEME - RISK STRATIFICATION

Definition:		People with minor, stable physical limit	ations or 2 or less CHD risk factors (see below)
Exercise Set	tting:	Exercise Referral Schemes or other com	
			,
MEDIUM R	ISK POPULATIONS		
Definition:			ions related to chronic disease or disability.
Setting:		Exercise Referral Schemes or other com	munity leisure setting.
HIGH RISK	POPULATIONS		
Definition:		People with current severe disease or d Referral Schemes.	isability. Not suitable for Exercise
Setting:		Secondary and Tertiary Health Care sett	ings ONLY
		EXERCISE REFERRAL SCHEMES	
Low	Medium	Kensington Leisure Centre	Walmer Road, W11 4PQ
			Tel: 020 7727 9747
Low	Medium	Chelsea Sports Centre	Chelsea Manor St. SW7 5PL
			Tel: 020 7352 6985
Low	Medium	Portobello Green Fitness Centre	3-5 Thorpe Close W10 5XL
			Tel: 020 8960 2221
		REHABILITATION AND TERTIARY EXERCISE	SERVICES
High Risk		Cardiac Rehabilitation*	Kensington & Chelsea PCT
		Established Osteoporosis **	Tel: 020 8237 2535
		Falls Risk ***	
		CHD RISK FACTORS	
Family histo		<55 male; <65 female	
Cigarette sn		Current or given up within past 6/12	
Hypertensio		≥ 140/≥ 90	
Hypercholes		Total > 5.2 mmol/L OR HDL <0.9 mmol/	
Sedentary li	ifestyle		≥ 30 mins moderate physical activity every day
Obesity		BMI $\geq$ 30 kg/m2 or waist girth > 100 c	m
Impaired Fa	sting Glucose	$\geq$ 6.1 mmol/L	
	CONL	DITIONS INDICATING CARDIAC REHABILITAT	
Angina		Stable and controlled with no pain at r	
CABG		If successful operation and has been di	
Arrhythmias		Provided full cardiologist screening and	
Valvular He	art anotabo	Provided full cardiac screen and approva	
Congestive	Cardiac Failure		olute contraindications (particularly obstruction
		to left ventricular outflow, decompensation	ted CHF or threatening arrhythmias and have ar

\* At present there is no provision within K&C PCT for Phase IV Cardiac Rehabilitation Exercise Services. Patients who present with any of the conditions overleaf who have associated cardiac problems require special consideration.

\* \*\* See FRACTURE Index Screening Tool

\* \*\*\* See Falls Risk Assessment Screening Tool

Randomised controlled trials of physical activity promotion in free living populations: a review. Journal of Epidemiology Community Health 1995;49:448-453 3. Hillsdon M, Thorogood M. A systematic review of physical activity promotion strategies. Journal of Sports Medicine & Physical Fitness 1996; 30:84-89

4. Exercise Referral Schemes: A National Quality Assurance Framework. Department of Health 2001

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6. Osteoporosis and Exercise. American

College of Sports Medicine's Position Stand MSSE 1995;27(4):pp.i - vii 7. Exercise and Type 2 Diabetes. American College of Sports Medicine Position Stand 8. Physical Activity, Physical Fitness and Hypertension. American college of Sports Medicine Position Stand. MSSE 1993;25(10):ppi - x 9. Exercise and Physical Activity for Older Adults. American College of Sports Medicine Position Stand. MSSE 1998;30:6

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Dawn Irwin MSc and Oliver Morgan BEng (Hons) Msc

Dawn Invin is a senior clinical exercise practitioner and the falls prevention and exercise development co-ordinator for Kensington and Chelsea Primary Care Trust. Oliver Morgan is a multi-disciplinary public health specialist working in Kensington and Chelsea Primary Care Trust.

www.sportex.net

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## Appendix 3 General Practice Physical Activity Questionnaire

)ate.					
lame	2				
1.	Please tell us the type and amount of physica	al activity i	nvolved in yo	ur work.	
ñ					Please mark on
а	I am not in employment (e.g. retired, retired for time carer etc.)	or health r	easons, unen	nployed, full-	box only
b	I spend most of my time at work sitting (such	as in an o	ffice)		
с	I spend most of my time at work standing or v not require much intense physical effort (e.g. security guard, childminder, etc.)				
d	My work involves definite physical effort inclu use of tools (e.g. plumber, electrician, carpen gardener, postal delivery workers etc.)				
е	My work involves vigorous physical activity including handling of very heavy objects (e.g. scaffolder, construction worker, refuse collector, etc.)				
2.	During the <u>last week</u> , how many hours did yo Please answer whether you are in employme	ent or not			
2.		ent or not Pleas	e mark one b	ox only on e	ach row
2,		ent or not	e mark one b	ox only on e 1 hour but	ach row
2. a	Please answer whether you are in employme Physical exercise such as swimming, jogging, aerobics, football, tennis, gym workout etc.	ent or not Pleas	e mark one b Some but less than	ox only on e 1 hour but less than	ach row 3 hours o
	Please answer whether you are in employme Physical exercise such as swimming, jogging, aerobics, football, tennis, gym workout etc. Cycling, including cycling to work and during leisure time	ent or not Pleas	e mark one b Some but less than	ox only on e 1 hour but less than	ach row 3 hours o
a	Please answer whether you are in employme Physical exercise such as swimming, jogging, aerobics, football, tennis. gym workout etc. Cycling, including cycling to work and	ent or not Pleas	e mark one b Some but less than	ox only on e 1 hour but less than	ach row 3 hours o
a	Please answer whether you are in employme Physical exercise such as swimming, jogging, aerobics, football, tennis, gym workout etc. Cycling, including cycling to work and during leisure time Walking, including walking to work, shopping, for pleasure etc. Housework/Childcare	ent or not Pleas	e mark one b Some but less than	ox only on e 1 hour but less than	ach row 3 hours o
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a b c d e	Please answer whether you are in employmer Physical exercise such as swimming, jogging, aerobics, football, tennis, gym workout etc. Cycling, including cycling to work and during leisure time Walking, including walking to work, shopping, for pleasure etc. Housework/Childcare Gardening/DIY	Pleas None	e mark one b Some but less than 1 hour	ox only on e 1 hour but less than 3 hours	ach 3 h

### Appendix 4 NQAF Patient Characteristics & Exercise Professional Expertise Pyramid

### Figure 1. A contextual diagram for matching participant characteristics with exercise professional expertise within the UK National Occupational Standards (NOS)

*Note:* the expertise in this diagram can be determined for an individual instructor by matching with the Professional Register for Exercise and Fitness (England) described in Section C7 of this document, whose structure is illustrated in Appendix 11.

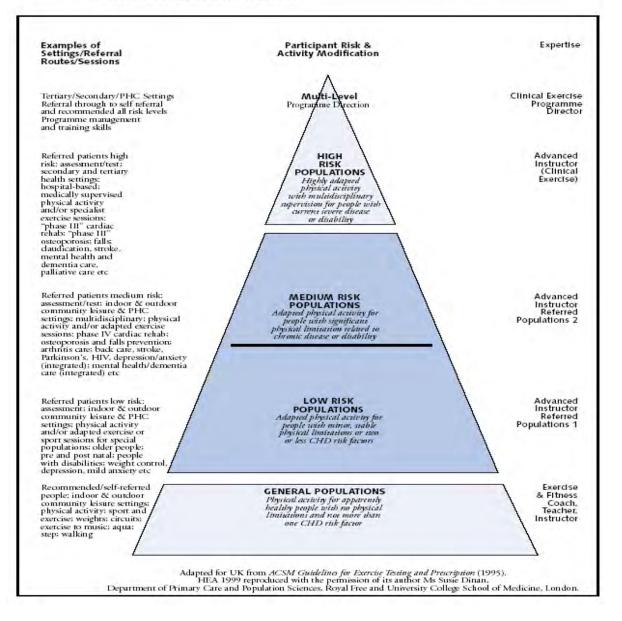


Diagram taken from Department of Health (2001) Exercise Referral Systems: A National Quality Assurance Framework. London: Department of Health