North Central London Adult Obesity Care Pathway and Resource Pack for the Management of Overweight and Obesity





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Prevalence of overweight and obesity has trebled since the 1980s, and over half of all adults are either overweight or obese



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### Introduction



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The obesity care pathway is the recommended care pathway for the management of overweight or obese adult patients. It has been developed to act as an appropriate tool to help guide health professionals who come into contact with patients of varying levels of overweight and obesity. It is related to the referral criteria specific to each Primary Care Trust and is in line with the latest evidence based practice published by The National Institute for Health and Clinical Excellence (NICE) in December 2006.

The pathway is supported by an electronic obesity template, which will be sent to each general practice for uploading onto their database. The Obesity Care Pathway is the recommended care pathway for the management of overweight or obese adults



### Pathway

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# **IDENTIFICATION**

- 1. **Opportunistic**
- 2. Existing Disease
- 3. Health Screening
- 4. Seeking Advice

## **Health Professional**

GP, Practice Nurse, Dietitian, Health Visitor, Pharmacist, Health Care Assistant

Consider using electronic obesity template

## ASSESSMENT

- BMI= weight (kg) / height (m<sup>2</sup>) Height & Weight - BMI ÷
- For Asian adults, risk factors may be of concern at lower BMI.
  - Waist Circumference
    - 3. Patient History
- 4. Raise the issue of weight (DH)
- 5. Assess readiness and motivation to change

	(kg/m²)			present
		Low Men < 94cm Women < 80cm	High Men > 94cm Women > 80cm	Type 2 diabetes Hypertension Cardiovascular Disease Dyslipidaemia Osteoarthritis Sleep Apnoea
Healthy weight	18.5-24.9			
Overweight	25.0-29.9			
Obesity I	30.0-34.9			
Obesity II	35.0-39.9			
Obesity III	> 40.0			
General Advice of	n losing wei	General Advice on losing weight, healthy eating and physical	General Advice on losing weight, healthy eating and physical activity	vity











# **1ST LINE ADVICE**

professional to increase physical activity and healthy eating using behavioural change techniques. Lifestyle Assessment by health

### ASSESS

Discuss current lifestyle, diet and levels of physical activity.

### ADVISE

**Co-morbidities** 

Waist Circumference

BM

Classification

Advise on dietary, physical activity vour Weight, Your Health booklet Ind lifestyle modifications ΉD

### GREE

ealistic weight management plan stablish individual goals and a 5-10% weight loss)

nethod of managing weight loss/ legotiate the most effective naintenance.

# **ASSIST/ARRANGE**

ignpost to local physical activity

Adult Obesity Care

### Pathway

	3 and 6 months, or	suggested minimum is	Monitor weight loss:	FOLLOW UP
-		S.		P

wanting active support. more often if is patient Unsuccessful

< 5% at 3 months weight loss

Repeat 1st Line at 6 months Advice and reassess

> 5% at 3 months > 10% at 6 months Successful weight loss

Maintenance phase with 3/12 monthly reassessments

Haringey MHS

### Unsuccessful weight loss 2ND LINE ADVICE **GP** Assessment

**3RD LINE ADVICE** 

motivated to change. after 6 months but

Pharmacotherapy

**Dietitian Assessment** Provide a comprehensive

> >30kg/m<sup>2</sup> Orlistat

- Use referral forms if Monitor weight loss assessment.
- pharmacotherapy. loss and recommending unsuccessful weight

Advise patient to register with

Proactive Support (MAP) the Motivation Advice, Continue treatment if 5%

plus co-morbidity >28kg/m<sup>2</sup>

weight loss at 3 months.

### programme.

- >30kg/m<sup>2</sup> Sibutramine
- plus co-morbidity >27kg/m<sup>2</sup>
- All patients should have Continue treatment if 5% weight loss at 3 months. controlled blood pressure
- congestive heart failure or disease, arrhythmias, no history of coronary artery (145/95 or below) and have
- Advise patient to register with the online support stroke.
- programme 'Change for Life'

(not assessed by NICE) Rimonabant

- A newer drug and much less is known about its
- effectiveness.
- Problems with adherence due to side effects.

# 4TH LINE ADVICE MAINTENANCE

(main provider -**Bariatric Surgery** Whittington Hospital)

- For patients:  $> 40 kg/m^{2}$ 35-40 kg/m<sup>2</sup> plus co-morbidity
- Further assessment in hospital including a assessment psychology

Ongoing monitoring of weight should take place to ensure weight management referred back into the supported and that patients are pathway should they have a relapse in



### Identification

Obesity is a complex disease and there are increasing demands being placed on primary care to identify and treat patients This stage can be undertaken by a number of different health professionals: GP, practice nurse, health care assistant, health visitor, dietitian or pharmacist.

Prevalence of overweight and obesity has trebled since the 1980s, and over half of all adults are either overweight or obese (Health Survey for England, 1995-2003). This equates to approximately 24 million adults, a high proportion of these will not have been identified and classified as overweight or obese.

Obesity is a complex disease and there are increasing demands being placed on primary care to identify and treat patients. General practice is however, where most obese and overweight individuals will come into contact with health services and it is therefore, the ideal opportunity to identify and manage obesity. In addition, general practices are encouraged to maintain an obesity database of all patients recorded as obese. Collecting data on the heights and weights (BMI) of patients within a practice allows the magnitude of the problem of obesity to be assessed within individual practices.

Identification may occur under one of four categories:

- Opportunistic
- Existing Disease (e.g. type 2 diabetes, coronary heart disease, hypertension)
- Health Screening
- Patient Seeking Advice



### Assessment

This stage needs to be handled carefully because many patients who are overweight or obese are sensitive about their weight.

### Classification

The best way to assess obesity and overweight and associated health risks in a patient is to use a combination of Body Mass Index, waist circumference, and patient history (co-morbidities). Table 1 assists with the accurate classification of patients and can be completed once BMI and waist circumference have been measured and patient history/comorbidities have been assessed.

 Body Mass Index (BMI) is used to measure the degree of overweight and obesity. The BMI is calculated by dividing a patient's weight in kilograms by the square of their height in metres.

### BMI = weight (kg) height (m2)

- Classification of Body Mass Index is outlined in Table 1.
- All patients should have their BMI recorded and changes monitored over time.
- Increasing weight in Asian adults is associated with a higher risk. Risk factors, therefore, may be of concern at lower BMIs.
- Clinical judgment is required when classifying muscular patients because BMI may overestimate the degree of fatness in these patients.



#### 2. Waist Circumference

The World Health Organisation guidance recommends that waist circumference be measured using the midpoint between the lowest rib and top of the right iliac crest. The tape measure should sit snugly but not compress the skin. This is categorised as either high or low and different cutoff values are used for men and women.

### LOW Men <94cm Women <80cm

HIGH Men >94cm Women >80cm

### Assessment

There are a number of other methods for identifying patients who are overweight and obese, for example, bioimpedance, densitometry and waist to hip ratio. Bioimpedance estimates total body water crudely, as a component of lean body mass. Therefore, estimation of fat mass using this technique is relatively weak. Densitometry measures total body fat using principles of water displacement. This technique requires underwater weighing facilities, takes time, is expensive, cannot be used routinely and is unable to indicate body fat distribution. Waist to hip ratio was initially introduced because it was believed to predict fat distribution more accurately than waist

circumference. This, however, has been disproved and waist circumference is the preferred anthropometric measurement. Therefore, the three methods discussed above are not recommended for assessing overweight and obesity; health professionals are advised to use BMI and waist circumference which are well validated and relatively easy for health professionals to complete.

3. Patient History and Co-morbidities A patient history (including family history) is required to assess whether any co-morbidities are currently present or whether further tests may be required for diagnosis in certain patients. NICE

BMI (kg/m <sup>2</sup> )	Waist Circumference		Co-morbidities present	
	Low Men < 94cm Women < 80cm	High Men > 94cm Women > 80cm	Type 2 diabetes Hypertension Cardiovascular Disease Dyslipidaemia Osteoarthritis Sleep Apnoea	
18.5-24.9				
25.0-29.9				
30.0-34.9				
35.0-39.9				
> 40.0				
	(kg/m²) (kg/m²) 18.5-24.9 25.0-29.9 30.0-34.9 35.0-39.9	(kg/m²)         Low Men < 94cm Women < 80cm           18.5-24.9	(kg/m²)         Low         High           Men < 94cm	

#### **Table 1: Classification of Adults**

(DH - Why Weight Matters card). Offer follow-up appointment.

Diet and physical activity

Diet and physical activity; consider drugs

Diet and physical activity; consider drugs; consider surgery



### Assessment

states that the following co-morbidities should be recorded:

- type 2 diabetes
- hypertension
- cardiovascular disease
- dyslipidaemia
- osteoarthritis
- sleep apnoea

The electronic obesity template is a helpful tool when completing the assessment stage with a patient.

### Raising the Issue of Weight

Consider using the 'Raising the Issue of Weight in Adults' card from the *Your Weight, Your Health series, DH 2006* (Appendix 1) which provides helpful samples of dialogue for initiating a conversation about the patient's weight.

### Assess Readiness and Motivation to Change

The Transtheoretical (Stages of Change) Model (Prochaska and DiClemente, 1982) attempts to describe readiness to change and suggests that people move through a series of stages when attempting to change their behaviour. The stages are outlined below:

### PRECONTEMPLATION

### Not intending to make any changes (patient not interested in losing weight)

#### CONTEMPLATION

**Considering a change** (patient is thinking about trying to lose weight)

### PREPARATION

Making small changes (patient is making small changes/ developed a plan of action)

#### ACTION

Actively engaging in change (patient is making changes to their lifestyle to try and lose weight)

### MAINTENANCE

**Sustaining change over time** (patient has lost weight and is maintaining this)

The model has gained widespread popularity and has intuitive appeal to many practitioners. However, although it provides a useful framework for thinking about behaviour change, it has been criticised for being deficient in providing insight into how to negotiate/influence behaviour change.

Readiness can be understood and roughly assessed by enquiring about the importance of change to the patient and the degree of confidence the patient has in his/her ability to do so.



### Assessment

A useful strategy to do this is to use the *'Ruler'* to:-

- Clarify and enhance importance
- Increase confidence



On a scale of 0-10, how important is it to you to become more physically active?

On a scale of 0-10, how confident are you that you could make a change if you wanted to?

#### **Clarify and Enhance Importance**

- What makes it that important?
- What would have to happen for it to become much more important for you to change?
- Why are you at a X (e.g. 4) and not at a Y (e.g. 3) (lower number)?
- What would it take to raise your score to a Z (e.g. 5)?
- What concerns do you have about ... (current behaviour)?
- What are the good things and not so good things about ... (current behaviour)?

#### **Increase Confidence**

- What makes you that confident?
- If you decided to change your current behaviour (e.g. increase your levels of physical activity), what options might you consider?

- Is there anything you found helpful in any previous attempts to change your current behaviour?
- Why are you at a X (e.g. 4) and not at a Y (e.g. 3) (lower number)?
- What would it take to raise your score to a Z (e.g. 5)?
- How can I help you get there?

#### 4 Combinations

#### (Miller and Rollnick, 2002)

- Low importance, low confidence: Least ready to change, see change as unimportant, and have little confidence they could successfully make the change if they tried.
- 2. Low importance, high confidence: Not ready to change and see change as relatively unimportant. Believe they could make the change if they tried.
- 3. *High importance, low confidence:* High degree of importance, making them more ready and willing to change than people in groups 1 & 2 but low confidence gets in the way of them making the change.
- High importance, high confidence: Most ready to change, view change as very important, high degree of confidence that they can successfully make the change if they tried.

The above can help you to assess where you need to focus your work, i.e. increasing confidence, importance or both.



### First Line Advice

The aim of first-line advice is to help a patient to:

- reduce calorie intake
- increase physical activity while reducing sedentary behaviours; and
- increase self-awareness about day-today behaviours that affect intake and activity levels.

(DH, Your Weight, Your Health, 2006)

### Assess

- 1. Assess dietary consumption using a record of the patient's food and fluid intake. This can be done in any form which is easy for the patient to report back and discuss with you their food and fluid intake (see Appendix 2).
- Assess physical activity levels using the General Practice Physical Activity Questionnaire (GP PAQ) (see Appendix 3).

### The GP Physical Activity Questionnaire (GP PAQ)

- The GP PAQ is used to measure a patients (aged 16+) physical activity levels.
- It takes 30 seconds for a patient to complete
- It takes between 1-2 minutes for the health practitioner to input data into an excel sheet and analyse result
- It should be recorded and updated:
- Every year for patients at risk of CVD
- Every five years for all other patients

The questionnaire looks at how active the patient's daily life is (see appendix 3 for the questionnaire). An algorithm is then used to create a score from their answers.

#### Essentially it classifies patients as:

Sedentary	0 hours per week
Moderately Inactive	Less than 1 hour per week
Moderately Active	More than 1 hour per week, less than 3
Active	3 or more hours per week

Please note, walking, housework, childcare, gardening and DIY are in the questionnaire. However, it is very important to note that these are **not** included in the result.

If your patient does not score an "active" rating but has answered the walking, housework, childcare, gardening and DIY category, please talk to them about whether this activity is **moderate** (in minimum of 10 minute blocks). Use your training to judge whether this level of activity is sufficient.

If you are convinced that their activity does classify as moderate, add this to the notes in your EMIS template so that you can refer back to it on your next appointment. If someone does not score an active rating (after you have talked to them about walking), you should discuss their activity levels using behavioural change techniques.

The GP PAQ and excel spreadsheet can be downloaded at the Department of Health website www.dh.gov.uk



### First Line Advice

### Advise

 Discuss general healthy eating recommendations taking into consideration what they are eating and drinking at present. Consider using The Eat Well Plate model (below).



- Discuss physical activity promote 5 X 30mins (to gradually build up to accumulate 30mins of moderate physical activity on 5 or more days a week).
- 3. Providing Your Weight, Your Health booklet (DH) which combines information on healthy eating and physical activity. Consider providing relevant leaflets from the British Heart Foundation range e.g. physical activity for weight loss.

### Agree

Agree **SMART** goals in *partnership* with your patient:

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Specific	"I will partake in 30 minutes of brisk walking 3 times a week".
Measurable	"I will eat 3 portions of fruit/vegetables every day".
Achievable	Negotiate goals that can be accomplished, e.g. losing 0.5kg per week.
<b>R</b> elevant	Goals should meet the patient's expectations, e.g. if the patient enjoys walking, a goal based around walking would be relevant.
Timely	Negotiate a time-frame for achieving the goal that is specific and realistic. This could be an interim goal working towards a achieving a main goal.

The goals may be specific to healthy eating and/or physical activity.

Agree a target weight loss. Very small levels of weight loss produce health benefits but significant changes result after a 5-10% weight loss. This can be achieved over 3 to 6 months, representing a loss of 0.5-1.0kg per week.



### First Line Advice

### Assist/Arrange

- 1. Signpost to local physical activity and healthy eating initiatives.
- 2. Provide information on electronic and paper resources.
- Arrange referrals to other health professionals (e.g. dietician) and other programmes (e.g. 'Active for Life' physical activity referral scheme).

### 'Active for Life' Physical Activity Referral Scheme

See Appendix 4.This scheme is currently running in some wards but will be extended gradually across the Borough from April 2008.

Suitable for patients who:

 Lead sedentary lifestyles and are not physically active but indicate a desire to increase activity levels



- Do NOT require continuous one-to-one attention
- Have **NOT** been on the scheme before
- Live in Haringey or registered with a Haringey GP

Must be classified as inactive/moderately inactively using the GP PAQ and have one of the following conditions:

- Type II diabetes
- Hypertension
- Obesity (BMI >30)
- Cerebrovascular accident
- Peripheral Vascular Disease
- Established CHD
- Severe mental illness eg. bi-polar, schizophrenia

### Group Health Walks Programme - 'Walk Your Way to Health'

Short walks in local parks and neighbourhoods lead by trained volunteer Walk Leaders. All walks are free and all abilities are catered for.

For more information about the 'Active for Life' and 'Walk Your Way to Health' programmes contact the Team Administrator on 020 8442 6786.



### Follow Up

Weight loss needs to be monitored and recorded over time: the suggested minimum is 3-6 months but more often if the patient wants or requires active support.

### 3-month Review

>5% = successful weight loss -Continue with the ongoing treatment and support.

<5% = unsuccessful weight loss -Reassess motivation and readiness to change, and identify any problems which may have impacted on the lack of success so far. Repeat first line support if the patient is still ready to change.

- Repeat first line advice explore information and support the patient to increase their own knowledge around diet and physical activity.
- 2. Identify any problem areas explore and work through them in partnership with the patient, moving towards a balanced healthier lifestyle.
- 3. Revise SMART goals.

### Weight loss needs to be monitored and recorded over time

6-month Review Repeat as at 3 months.

>5% = successful weight loss –
Action as at 3 months or consider moving patient to maintenance phase.

<5% = unsuccessful weight loss – Reassess patient's motivation to change and consider referral to a dietitian for a more comprehensive assessment.

(See Appendix 6 Dietetic Referral Form)







### 16 Second Line Advice

### Dietitian Assessment

- The dietitian will provide a more comprehensive lifestyle assessment.
- All patients must have seen a dietitian prior to being prescribed pharmacotherapy or being referred for bariatric surgery.
- Dietitians should follow the care package of dietetic care.

For more information regarding accessing the Nutrition and Dietetic Service contact the Administration Manager on 020 8442 6476.



### Third Line Advice

### GP Assessment

The GP acts as the gatekeeper for further treatment for patients if they have been unsuccessful in their attempts to lose weight and need additional assistance with weight loss as directed by the dietitian. For example, certain patients may be referred by the dietician to the GP for consideration for pharmacotherapy/ bariatric surgery.

### Pharmacotherapy

- Patients should be encouraged to attempt diet, physical activity and behaviour change before prescribing drugs.
- Drug therapy should always be considered as an addition, rather than an alternative, to lifestyle intervention.

Orlistat, Sibutramine and Rimonabant are all licensed for use in England.

Patients should be encouraged to attempt diet, physical activity and behaviour change before prescribing drugs

### Orlistat

Orlistat inhibits the action of pancreatic lipase enzyme in the gastrointestinal system and must therefore be taken in conjunction with a low-fat eating plan.

**1**7

Confirm patient meets the specified criteria prior to prescribing the pharmacotherapy:

- Aged between 18-75 years.
- Have a BMI of >30kg/m2 or >28kg/m2 plus comorbidity.
- Monitor weight loss and continue treatment if 5% weight loss at 3-months.

Advise a patient to register with Motivation, Advice, Proactive Support (MAP) programme: 0800 731 7138 www.xenicalmap.co.uk

### Sibutramine

Sibutramine is a satiety enhancer and should be taken in conjunction with healthy eating.

Confirm patient meets the specified criteria prior to prescribing the pharmacotherapy:

- Aged between 18-65 years.
- Have a BMI of >30kg/m2 or >27kg/m2 plus comorbidity.
- All patients should have controlled blood pressure (145/95 or below) and have no history or coronary artery disease, arrhythmias, congestive heart failure or stroke.
- Monitor weight loss and continue treatment if 5% weight loss at 3-months.



### Third Line Advice

Advise a patient to register with the online support 'Change for Life' programme: www.changeforlifeonline.com

Patients are eligible for the 'Change for Life' programme pack. Health professionals can obtain copies of the pack from Abbott Laboratories (01628 644 9392).

Monitoring requirements for Sibutramine:

- Check the patient's blood pressure every 2 weeks for the first 3 months.
- After 12 weeks on Sibutramine, patients should only continue taking the drug if they have lost at least 5% of their body weight since the start of the treatment.
- Patients should show a 2kg weight loss after 4 weeks on Sibutramine. If they do not, you can increase the dosage from 10mg a day to 15mg a day.
- The Sibutramine licence recommends that treatment should not continue beyond 12 months.

### Rimonabant

Unlike Orlistat and Sibutramine, NICE have not yet reported on Rimonabant.

- A newer drug and much less is known about its effectiveness.
- Problems with adherence due to side effects have been reported.



### Fourth Line Advice

### Bariatric Surgery

Bariatric surgery is generally only considered for patients who have tried all other interventions, for example, healthy eating and physical activity, and pharmacotherapy.

Bariatric surgery reduces gastric size and thus may result in malabsorption of ingested food. Patients will need to make lifestyle changes after surgery and will therefore continue to require dietetic support.

Surgery can be considered for patients who meet the following criteria:

- Have a BMI >40kg/m2 or a BMI of 35-40kg/m2 plus comorbidity
- Have been assessed by a multidisciplinary team
- Are well-informed and motivated
- Have an acceptable level of surgical risk.

The Whittington Hospital is our main provider for bariatric surgery. Applications for bariatric surgery will be assessed on an individual basis.





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### Maintenance

Ongoing monitoring of weight should take place and this will ensure that patients are referred back into the pathway should they have a relapse in weight maintenance. Consider setting goals to help them adhere to changes made in the weight loss phase.



### Resources

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### Resources

- Your Weight, Your Health Raising the Issue of Weight in Adults (DH)
   A card to assist health professionals with raising the issue of weight with patients.
- Your Weight, Your Health How to Take Control of Your Weight (DH) A booklet for patients who are ready to think about losing weight.
- Your Weight, Your Health Why Weight Matters card (DH)
   For patients who are not yet committed to losing weight. This card discusses the risks associated with overweight, the benefits of modest weight loss, and practical tips for people to consider.

### The Your Weight, Your Health series can be ordered from DH publications.

The DH 'Your Weight, Your Health' publications are available free of charge: you can place an order by post, telephone, fax or email (quote the title and reference number).

### Write to:

DH Publications Order PO Box 777 London SE1 6XH Telephone: 0870 155 54 55 Fax: 0162 372 45 24 Email: dh@prolog.uk.com

### **Publications:**

- Raising the Issue of Weight in Adults ordering code 274543
- Why Weight Matters card ordering code 274538
- Your Weight Your Health: how to take control of your weight – ordering code 274537

#### www.bdaweightwise.com

A website by registered dietitians giving advice on healthy eating.

### British Heart Foundation (BHF) Physical Activity Leaflets

The BHF have produced a series of patient physical activity leaflets for specific conditions.

- Physical activity and weight loss (G99)
- Physical activity and high blood pressure (G101)
- Physical activity and angina (G98)
- Physical activity after a heart attack (G100)
- Physical activity and diabetes (G102)

They can be ordered from the BHF:-BHF order line: 0870 600 6566 or online at www.bhf.org.uk

www.bdaweightwise.com A website by registered dietitians giving advice on healthy eating.



### References

### **Useful PCT Contacts**

Haringey Nutrition and Dietetics Department General Number: 020 8442 6476

Haringey Public Health Directorate General Number: 020 8442 6786

### References

- National Institute for Health and Clinical Excellence (2006). Obesity: the prevention, identification, assessment and management of overweight and obesity in adults and children.
- 2. National Institute for Health and Clinical Excellence (2006). Four commonly used methods to increase physical activity: brief interventions in primary care, exercise referral schemes, pedometers and community-based exercise programmes for walking and cycling.

### Appendix

- 1. Raise issue of weight (DH)
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### Part of the YOUR WEIGHT, YOUR HEALTH Series

### Raising the Issue of Weight in Adults

#### **1 RAISE THE ISSUE OF WEIGHT**

If BMI is  $\geq$ 25 and there are no contraindications to raising the issue of weight, initiate a dialogue:

'We have your weight and height measurements here. We can look at whether you are overweight. Can we have a chat about this?'

#### 2 IS THE PATIENT OVERWEIGHT/OBESE?

BMI (kg/m <sup>2</sup> )	Weight classification
<18.5	Underweight
18.5-24.9	Healthy weight
<u>≥</u> 25–29.9	Overweight
<u>≥</u> 30	Obese

Using the patient's current weight and height measurements, plot their BMI with them and use this to tell them what category of weight status they are.

'We use a measure called BMI to assess whether people are the right weight for their height. Using your measurements, we can see that your BMI is in the [overweight or obese] category [show the patient where they lie on a BMI chart]. When weight goes into the [overweight or obese] category, this can seriously affect your health.'

WAIST CIRC	UMFERENCE			
Increased disease risk				
Men	Women			
≥40 inches (≥102cm)	≥35 inches (≥88cm)			
Asian men	Asian women			
<u>≥</u> 90 cm	<u>≥</u> 80 cm			

Waist circumference can be used in cases where BMI, in isolation, may be inappropriate (eg in some ethnic groups) and to give feedback on central adiposity. In Asians, it is estimated that there is increased disease risk at  $\geq$ 90cm for males and  $\geq$ 80cm for females.

Measure midway between the lowest rib and the top of the right iliac crest. The tape measure should sit snugly around the waist but not compress the skin.

#### 3 EXPLAIN WHY EXCESS WEIGHT COULD BE A PROBLEM

If patient has a BMI  $\geq$ 25 and obesity-related condition(s):

'Your weight is likely to be affecting your [co-morbidity/condition]. The extra weight is also putting you at greater risk of diabetes, heart disease and cancer.'

If patient has BMI  $\geq$ 30 and no co-morbidities: 'Your weight is likely to affect your health in the future. You will be at greater risk of developing diabetes, heart disease and cancer.'

If patient has BMI  $\geq$ 25 and no co-morbidities:

'Any increase in weight is likely to affect your health in the future.'

#### 4 EXPLAIN THAT FURTHER WEIGHT GAIN IS UNDESIRABLE

'It will be good for your health if you do not put on any more weight. Gaining more weight will put your health at greater risk.'

#### 5 MAKE PATIENT AWARE OF THE BENEFITS OF MODEST WEIGHT/WAIST LOSS

'Losing 5–10% of weight [calculate this for the patient in kilos or pounds] at a rate of around 1–2lb (0.5–1kg) per week should improve your health. This could be your initial goal.'

If patient has co-morbidities:

'Losing weight will also improve your [co-morbidity].'

Note that reductions in waist circumference can lower disease risk. This may be a more sensitive measure of lifestyle change than BMI.

#### **6 AGREE NEXT STEPS**

Provide patient literature and:

- If overweight without co-morbidities: agree to monitor weight.
- If obese or overweight with co-morbidities: arrange follow-up consultation.
- If severely obese with co-morbidities: consider referral to secondary care.
- If patient is not ready to lose weight: agree to raise the issue again (eg in six months).

#### BACKGROUND INFORMATION

#### Raising the issue of weight

Many people are unaware of the extent of their weight problem. Around 30% of men and 10% of women who are overweight believe themselves to be a healthy weight.<sup>1</sup> There is evidence that people become more motivated to lose weight if advised to do so by a health professional.<sup>2</sup>

#### Health consequences of excess weight

The table below summarises the health risks of being overweight or obese.<sup>3</sup> In addition, obesity is estimated to reduce life expectancy by between 3 and 14 years. Many patients will be unaware of the impact of weight on health.

#### Greatly increased risk

- type 2 diabetes
- gall bladder disease
- dyslipidaemia
- insulin resistance
- breathlessness
- sleep apnoea

#### Moderately increased risk

- cardiovascular disease
- hypertension
- osteoarthritis (knees)
- hyperuricaemia and gout

#### Slightly increased risk

- some cancers (colon, prostate, postmenopausal breast and endometrial)
- reproductive hormone abnormalities
- polycystic ovary syndrome
- impaired fertility
- low back pain
- anaesthetic complications

Wardle J and Johnson F (2002) Weight and dieting: examining levels of weight concern in British adults. Int J Obes 26: 1144–9.

<sup>7</sup>Galuska DA et al (1999) Are health care professionals advising obese patients to lose weight? JAMA 282: 1576–8.

<sup>3</sup>Jebb S and Steer T (2003) Tackling the Weight of the Nation. Medical Research Council.

<sup>6</sup>Rollnick S et al (2005) Consultations about changing behaviour. BMJ 331: 961–3. <sup>7</sup>O'Neil PM and Brown JD (2005) Weighing the evidence: Benefits of regular weight monitoring for weight control. J Nutr Educ Behav 37: 319–22.

Lancaster T and Stead LF (2004) Physician advice for smoking cessation. Cochrane Database of Systematic Reviews, 4.

#### Benefits of modest weight loss

Patients may be unaware that a small amount of weight loss can improve their health.

Condition	Health benefits of modest (10%) weight loss		
Mortality	<ul> <li>20–25% fall in overall mortality</li> <li>30–40% fall in diabetes-related deaths</li> <li>40–50% fall in obesity- related cancer deaths</li> </ul>		
Diabetes	<ul> <li>up to a 50% fall in fasting blood glucose</li> <li>over 50% reduction in risk of developing diabetes</li> </ul>		
Lipids	10% fall in total cholesterol, 15% in LDL, and 30% in TG, 8% increase in HDL		
Blood pressure	• 10 mmHg fall in diastolic and systolic pressures		

### Realistic goals for modest weight/waist loss (adapted from Australian guidelines)<sup>5</sup>

Duration	Weight change	Waist circumference change
Short term	2–4kg a month	1–2cm a month
Medium term	5–10% of initial weight	5% after six weeks
Long term	10–20% of initial weight	aim to be <88cm (females) aim to be <102cm (males)

Patients may have unrealistic weight loss goals.

The need to offer support for behaviour change The success of smoking cessation interventions shows that, in addition to raising a health issue, health professionals need to offer practical advice and support. Rollnick et al suggest some ways to do this within the primary care setting. Providing a list of available options in the local area may also be helpful.<sup>6</sup>

**Importance of continued monitoring of weight** Weight monitoring can be a helpful way of maintaining motivation to lose weight. Patients should be encouraged to monitor their weight regularly.<sup>7</sup> Interventions for smoking cessation have found that behaviour change is more successful when follow-ups are included in the programme.<sup>8</sup>

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<sup>&</sup>lt;sup>5</sup>Department of Health (2002) Prodigy Guidance on Obesity. Crown Copyright. <sup>5</sup>NHMRC (2003) Clinical practice guidelines for the management of overweight and obesity in adults. Commonwealth of Australia.



# SEVEN – DAY

# FOOD RECORD DIARY



Name: ...... D.O.B: ..... Surgery: ..... Dietitian: ..... Please aim to complete the diary for 7 seven days before

your appointment with the dietitian.

- Please give an idea of how much you eat and drink. Use household measures such as А
  - teaspoors, tablespoons, mugs, cups Remember to include all food and drink consumed inside and outside of your home, A
- including snacks. Include details of how food was cooked and the name of any 'brand foods' used, e.g. A
- yoghurt, chicken with skin on, Flora proactive, Muller Light. Remember to bring this diary with you when you come and see the dietitian A



	AMOUNT						
Date:	FOOD / DRINK						
Date:	TIME	MORNING	MID AM	LUNCH	MA DIM	EVENING MEAL	SNACKS

### Appendix 2



#### **General Practice Physical Activity Questionnaire**

Date ..... Name. .....

1. Please tell us the type and amount of physical activity involved in your work.

		Please mark one box only
а	I am not in employment (e.g. retired, retired for health reasons, unemployed, full- time carer etc.)	
b	I spend most of my time at work sitting (such as in an office)	
с	I spend most of my time at work standing or walking. However, my work does not require much intense physical effort (e.g. shop assistant, hairdresser, security guard, childminder, etc.)	
d	My work involves definite physical effort including handling of heavy objects and use of tools (e.g. plumber, electrician, carpenter, cleaner, hospital nurse, 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 *last week*, how many hours did you spend on each of the following activities? *Please answer whether you are in employment or not* 

		Please mark one box only on each row			
		None	Some but less than 1 hour	1 hour but less than 3 hours	3 hours or more
а	Physical exercise such as swimming, jogging, aerobics, football, tennis, gym workout etc.				
b	Cycling, including cycling to work and during leisure time				
с	Walking, including walking to work, shopping, for pleasure etc.				
d	Housework/Childcare				
е	Gardening/DIY				

3. How would you describe your usual walking pace? Please mark one box only.

Slow pace (i.e. less than 3 mph)	Steady average pace
Brisk pace	Fast pace (i.e. over 4mph)



#### PHYSICAL ACTIVITY REFERRAL SCHEME REFERRAL FORM



<u>Please do not refer patients with the following contraindications:</u> B/P ≥ 180/100 \* Resting tachycardia ≥ 100 bpm Uncontrolled atrial/ventricular arrhythmias \* Unstable or acute heart failure \* Febrile illness \* Unstable angina Unstable/untreated congestive cardiac failure \* Chest pains/shortness of breath at low levels of activity\* uncontrolled pathologies Active pericarditis or myocarditis \* Uncontrolled acute systemic illness \* acute mental illness/in crisis

F	FOR PATIENTS WITH	ESTABLISHE	D CHD - USE CI	HD FOR	M TO REFER	
Patient's details: FULL NAME:			Referrers' details: (or practice stamp)	: GP	Practice N	Nurse
FULL NAME.			FULL NAME:			
ADDRESS:			ADDRESS:			
POSTCODE:			POSTCODE:			
TEL NO:			TEL NO: FAX:			
DATE OF BIRTH:		l <b>e / female</b> s applicable	EMAIL:			
GPPAQ INACTIVE	MODERATEL		Please tick which	c <i>h area your µ</i> Bruce Grove	patient lives in Northumberla	
-				Since Glove		
REFERRAL REASO	N:					
DIABETES TYPE II	HYPERTEN	ISION			HYPERLIPIDEMIA	
OBESE BMI > 30		ENTAL ILLNESS enia, please refer to m	anual for classification)		CVA	
Other medical cond	itions/additional informat	IION. Pleas	e mention any mobility is:	sues or exerc	ise limitations	
Current medication:	Please list all medications contin	ue on separate sheet i	f necessary			
Baseline measurem		•				
B/P	Height:	BMI:	د ا	Any planned procedures/tests:		
Pulse rate:	Weight:	Blood Sugar: HbA1c If diabetic				
Patient consent:		Language spoken:			Please return form to:	
Patient understands they a	re taking part in a	English				
physical activity scheme	Ale ain information areas of	Other:		Project Administrator Physical Activity Referral Scheme		
Patient has agreed to have on to the Active for Life Tea		Please give name and number of relative or friend		Physical Activity Referral Scheme Public Health Directorate, Block A1		
Patient has been informed		Please give name and number of relative or mend		St Ann's Hospital, St Ann's Road		
participate in a research pr		Name: Tel:		London, N15 3TH		
Patient's Signature:						
					Tel: 0208 442 6786	

Referrer's signature:

CHD GP EXERCISE I	CEFERRAL FURM
o be completed by the Referring Doctor or designated health partient Details	rofessional <u>Please print clearly</u> Referrer's Details
Name:Address: Postcode:D.O.BAge: Telephone Home: Telephone Work:	Name & Profession:
Cardiz	ac History
✓ if applicable       MI:     □ Date:       Angioplasty / Stent:     □ Date:       CABG:     □ Date:       Current Angina:     □ At Rest: □ On Exertion:     □ G	
<ul> <li>✓ if prescribed</li> <li>Aspirin</li> <li>□</li> <li>Beta blocker</li> <li>□</li> <li>Clopidogrel</li> <li>□</li> <li>Warfarin</li> <li>□</li> <li>Calcium channel blocker</li> </ul>	Iedication       (attach prescription list if availal         Ace Inhibitor       Statin         Diuretic       Nitrate         GTN       Other:
Investigatio           ETT: Yes □ No □ Date:           Result:	<b>ns</b> (if available) LV Function: Good
Current Status - C	HD Risk Factors
Resting BP     Resting Heart Rate       Raised Cholesterol     Physically Inactive I	BMI Stable Type 1/Type 2 Diabetes Smoker
Past Me	dical History
<ul> <li>✓ if applicable, please supply dates &amp; details as far as pr COAD / Asthma</li> <li>□ Epilepsy □ Hyperter</li> <li>CVA / Neuro. Problems</li> <li>□ Ortho/musc. skeletal pr</li> <li>Other considerations:</li> </ul>	
IMPORTANT NOTICE	PATIENT INFORMED CONSENT
The patient exhibits no contraindication to exercise (as indicated on the protocol) The patient is clinically stable The patient is compliant with medication The patient is awaiting / not awaiting further medical or surgical treatment (see protocol) EFERRER'S SIGNATURE:	I agree for the above information to be passed o the Exercise Instructor. I understand that I am responsible for monitoring my own responses du exercise and will inform the instructor of any new unusual symptoms. I will also inform the instruc- of any changes in my medication, the results of a investigations or treatment. PATIENT SIGNATURE:



Haringey NHS

REFERRAL FORM TO THE Teaching Primary Care Trust

#### SPECIALIST PRIMARY CARE DIETITIANS

Please note that if this form is not completed in full it will be sent back to the referrer, as this will be deemed as a clinical risk

DATE OF REFERRAL	
PATIENTS NAME	
NHS NUMBER-This must be completed	
ADDRESS AND POSTCODE	
PATIENTS TELEPHONE NUMBER	
DATE OF BIRTH	
DOES THIS PATIENT REQUIRE A HOME VISIT	Yes 1 No 1 If yes, why is it <b>clinically</b> essential?
MEDICAL CONDITION(S) REQUIRING REFERRAL	
OTHER RELEVANT AND PAST MEDICAL HISTORY	
RELEVANT BIOCHEMISTRY (Written or attached to referral)	
CURRENT MEDICATION (Written or attached to referral)	
IS AN INTERPRETOR NEEDED?	Yes 1 No 1 PLEASE STATE LANGUAGE
DO YOU THINK THIS PATIENT WOULD BE SUITABLE FOR A GROUP SESSION?	Yes 1 No 1
NAME OF REFERRER-In bold -please state healthcare profession employed by Haringey TPCT	
G.P NAME AND ADDRESS (Practice stamp may be used)	
G.P SIGNATURE	
COLLABORATIVE: SE 1 SW 1 NE 1 NW1	

If you only have one clinic a month or do not currently have direct access to a Dietitian in Primary Care please send this referral to: Nutrition and Dietetic Service, H Block, St. Anns Hospital, St Anns Road, Tottenham N15 3TH

Tel: 020 8442 6476 / Fax: 020 8442 6476

Please leave all other referrals at the surgery to be triaged by the Dietitian.

### Haringey NHS

#### SPECIALIST PRIMARY CARE DIETETIC SERVICE REFERRAL PROTOCOL

#### How to access our service:

#### WE DO NOT ACCEPT SELF REFERRALS FROM PATIENTS

#### CLINICAL REFERRALS IN WRITING TO

- The Dietitian at your own surgery (Dietitian to triage referrals)
- For practices who only have 1 clinic per month or for those who do not currently have direct access to Primary Care Dietetic service to send referrals to Nutrition and Dietetic Service, St. Anns, H Block, St Anns Road, Tottenham N15 3TH Tel: 020 8 442 6476 / Fax: 020 8 442 6476
- Computer referrals will be accepted at present but cannot be appropriately triaged.

#### OTHER REQUEST, QUERIES AND ASSISTANCE

By phone, in writing or in person initially at address given above

Please note that if this form is not completed in full it will be sent back to the referrer, as this will be deemed as a clinical risk, a good referral will ensure that patients are triaged appropriately.

#### LIPID LOWERING

- a. Patients with persistent raised fasting cholesterol of >5mmol/l or LDL >3.0 mmol/l who have **not** responded to advice from other members of the Primary Healthcare Team
- b. Patients with a raised fasting triglyceride level > 2.0mmol/l

#### DIABETES

- a. Patients with persistent raised fasting glucose > 6.0 mmol/l or HbAlc% >6.5% who have not responded to initial first line advice
- b. Patients who have poorly controlled diabetes who also have complications such as renal impairment, leg ulcers, CVD and/or hypoglycaemia.

#### WEIGHT REDUCTION

a. Patients with a BMI greater than 30 who has a comorbidity such as CHD, hypertension, endocrine disorders including PCOS. The patient will be offered one appointment for the specialist assessment and triaged by the Dietitian into the appropriate care pathway, e.g., behaviour change programme, weight management/physical activity groups or 1:1 intensive dietary counselling focussing on motivation, drug intervention, suitability for bariatric surgery. The patient may not automatically be seen for treatment following assessment. In this situation they will be referred back to the G.P with an explanation if they were not appropriate.

#### CHILDREN/ADOLESCENTS

a. We can only provide specialist assessment and triaging for children who have complex health needs which include faltering growth, obesity, allergies and intolerance. Where appropriate treatment will be offered or patient will the referred on as necessary.

#### NUTRTIONAL SUPPORT

#### Any patients with the following should be given a priority referral

- a. Recent unplanned weight loss
- b. Post surgery, e.g., post gastrectomy, bowel resection
- c. Cancer cachexia, weight loss, poor appetite
- d. Swallowing difficulties, e.g., post CVA, dysphagia
- e. Home Enteral Feeding
- f. Disease related malnutrition, e.g., degenerative neurological disorders
- g. Please note patients requiring nutritional support for cosmetic reasons will not be accepted.

#### DIGESTIVE DISORDERS

a. Bowel disorders/bowel disease. Priority will be given to those patients who are rapidly losing weight and/or require symptom relief from pain, diarrhoea or severe constipation.

#### OTHER

- a. Patients who have mental health (CPA or risk assessment must be attached as appropriate) or learning difficulties (please ensure that the key worker or carer attends with the patient) can still access Primary Care services if they fit any of the above criteria.
- b. **Domiciliary visits** can be arranged with your Dietitian for house-bound patients who have complex health needs and are at risk of hospital readmission

Nutrition and Dietetic Department, March 2007