



Modelling Healthy Eating and Weight Management Advice

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Agenda

- Diabetes Nutritional Guidelines
- Weight Management
- Healthy Eating
- Carbohydrates
- Physical Activity

Questions





Evidence Based Guidance

Information for healthy eating has been quite recently updated.

 May 2011 – Evidence based nutritional guidelines for the prevention and management of type 2 diabetes – Diabetes UK.



Glycaemic Control and Type 2 Diabetes

- Weight Management should be the primary nutritional strategy in management glucose control for people who are overweight or obese.
- Regular moderate physical activity can reduce HbA1C by 4-7mmol/mol (0.45-0.65%)
- Total amount of carbohydrate consumed is a strong predictor of glycaemic repsonse.
- Low GI diets may reduce HbA1C by 5-6mmol/mol (0.5%)





Weight Management

Weight loss improves insulin sensitivity

Weight gain associated with diabetes mediations –

 Weight loss is associated with a 25% reduction in mortality in Type 2 Diabetes



How to lose weight

- Based on guidance from DOM UK and NICE.
- NICE CG43 Obesity Dec 2006
- Dietary changes should be individualised, tailored to food preferences and allow for flexible approaches to reducing calorie intake.

 Unduly restrictive and nutritionally unbalanced diets should not be used, because they are ineffective in the long term and can be harmful.



NICE Guidance

- Diets that have a 600 kcal/day deficit (that is, they contain 600 kcal less than the person needs to stay the same weight) or that reduce calories by lowering the fat content (low-fat diets), in combination with expert support and intensive follow-up, are recommended for sustainable weight loss.
- Low-calorie diets (1000–1600 kcal/day) may also be considered, but are less likely to be nutritionally complete.



 A dietary approach alone is not recommended. It is essential that any dietary recommendations are part of a multicomponent intervention.

DOM UK Guidance

- DOM UK Oct 2007
- Stabilisation of eating
- If an erratic eating pattern has been identified during the assessment process the first stage in management is to help the client develop a regular structured eating pattern
- Erratic eating may range from skipped meals and long periods of fasting, grazing, frequent snacking or binge eating.
- Guidance on meal planning, shopping, food labelling and portion sizes can be an important aspect of this process.



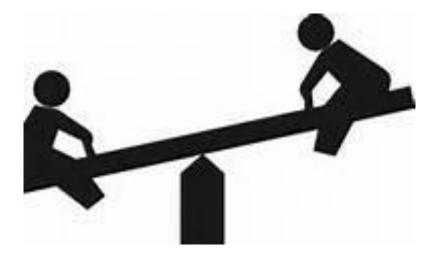
The 600kcal deficit approach

- The 600kcal deficit approach has been demonstrated to be an effective strategy for some individuals with a review of 13 randomised controlled trials showing a weight loss of -5.32kg compared with usual care at 12 months
- These diets are in line with the dietary recommendations for good health.



Putting this into practice.

Discuss energy balance.

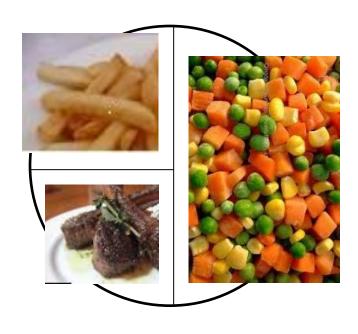


Aim for a 600kcal deficit



Portion Sizes for Weight Loss





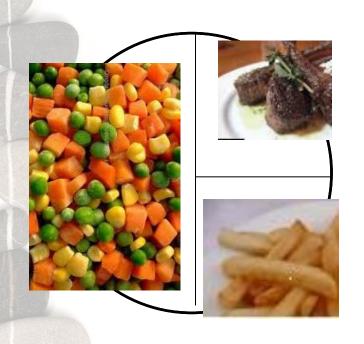
This meal contains 676kcal

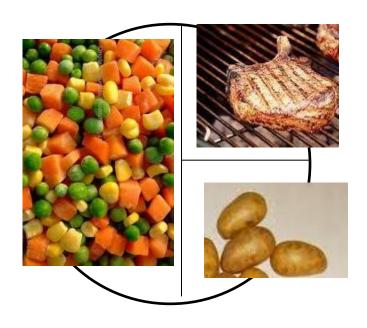
This meal contains 476kcal

NHS Foundation Trust

Overall saving = 200kcal
York Teaching Hospital NHS

Low Fat





This meal contains 476kcal

This meal contains 365kcal

Overall saving = 111 kcal



Snacking

 Choosing healthier snacks can help reduce calories.



Fruit loaf - 130 kcal

Apple – 46 kcal



Veg sticks and low fat



Increasing Activity

Activity	Calories used (per hour) for an 82kg person	Calories used (per hour) for an 120kg person
Walking 3.5 miles/hour	353	516
Aerobics class	598	876
Swimming	394	576
Exercise bike (moderate)	557	816





Behavioural support

- Keep Track
- Set goals
- Be positive
- Support
- Rewards (non-food based)



Hints and Tips

- Only eat at planned times and stick to similar times each day
- Plan meals ahead for yourself and the whole family
- Chew slowly and take your time over food
- Don't shop for food when you're hungry. Keep to your shopping list
- Sit down at the table to eat and do nothing else while eating
- Set aside regular times for activities or classes.
 Make it a habit by planning to attend come rain or shine



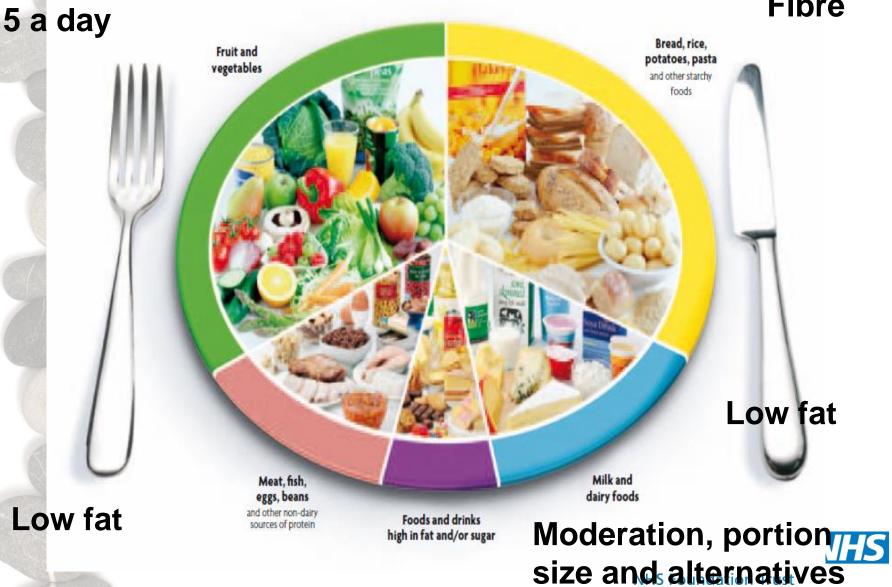
Healthy Eating

 Helping patients begin to move towards the general recommendations for a healthier diet can be a useful starting point from which other dietary changes can eventually be incorporated. (DOM UK)



The Eatwell Plate

High Fibre



Carbohydrates

Portions

Timing

Types

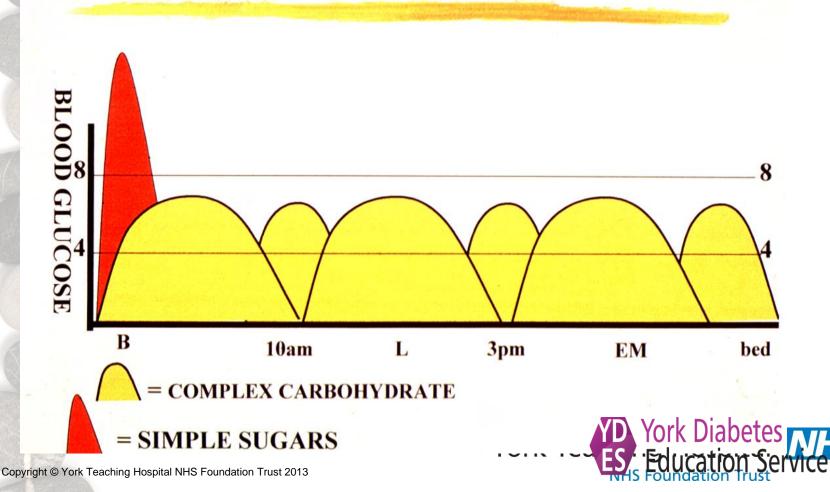






Carbohydrates

EFFECT OF CARBOHYDRATE ON BLOOD GLUCOSE











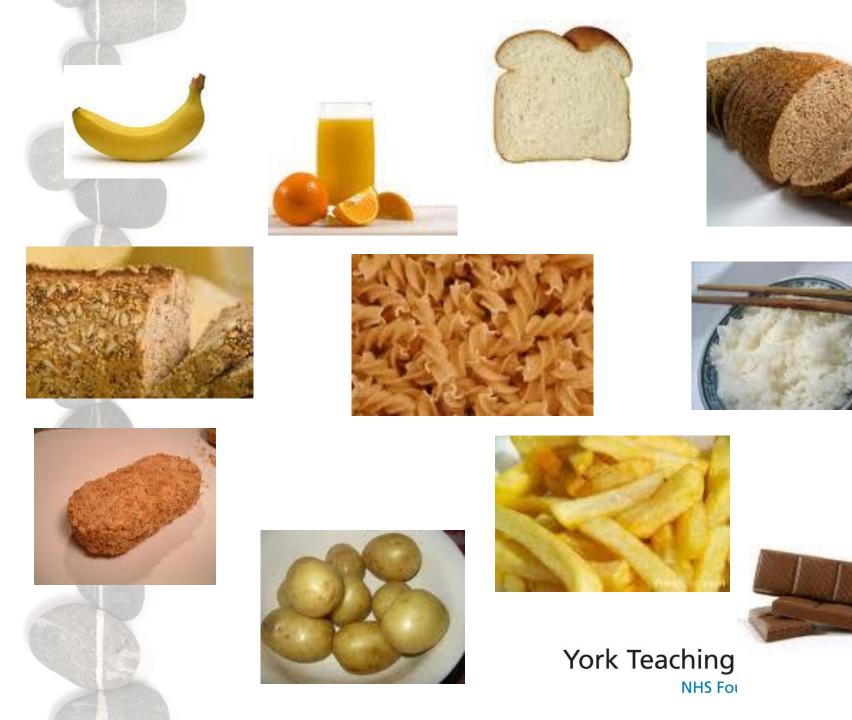
Glycaemic Index (G.I.)

 This tells us how quickly your blood glucose will rise when you eat carbohydrate.

 Low G.I. Foods make your blood sugars go up slowly and last you longer.

 High G.I. Foods make your blood sugars go up very quickly and don't last very long.





Factors Affecting GI

• **Fibre** - especially from oats, wheat, beans, peas, pulses, fruit and vegetables and salad.

• Fat - slows the emptying of your stomach.

 Structure of food - the more intact the food the longer it takes to digest, e.g. Granary bread.



Implications of GI

- High GI foods should be avoided on their own e.g. white toast, cornflakes, mash potato, jacket potato with butter, rice, fruit juice, jam, marmalades
- Adding fibre to foods means that these foods do not need to be avoided completely.



References

- Evidence based nutritional guidelines
- NICE obesity
- DOMUK obesity

