

Effective Lifestyle Interventions For GPs To Recommend

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A non-profit organisation dedicated to informing and implementing healthy decisions.



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- 1) What are current healthy eating guidelines.
- 2) How can healthy eating guidelines be improved.
- 3) What could be a more effective solution.



Current Healthy Eating Guidelines From The NHS



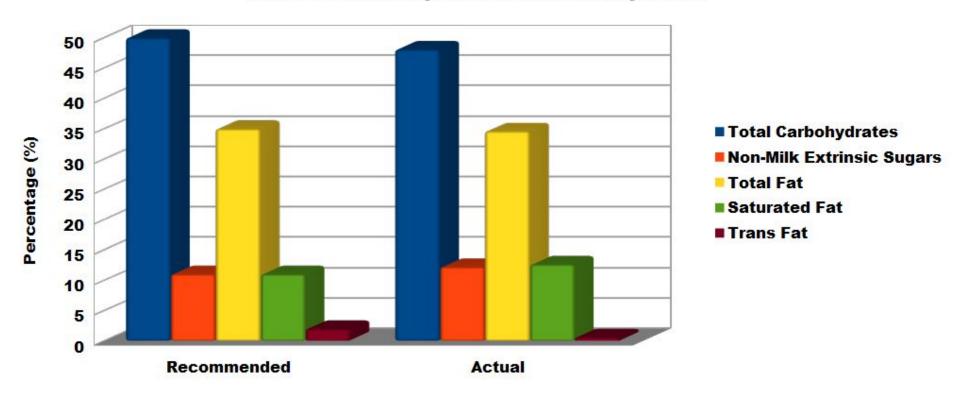




- 1) Eat at least 5 portions of a variety of fruit and vegetables every day.
- 2) Base meals on potatoes, bread, rice, pasta or other starchy carbohydrates; choosing wholegrain versions where possible.
- 3) Have some dairy or dairy alternatives (such as soya drinks); choosing lower fat and lower sugar options.
- 4) Eat some beans, pulses, fish, eggs, meat and other proteins (including 2 portions of fish every week, one of which should be oily).
- 5) Choose unsaturated oils and spreads and eat in small amounts.
- 6) Drink 6-8 cups/glasses of fluid a day.
- 7) If consuming foods and drinks high in fat, salt or sugar have these less often and in small amounts.

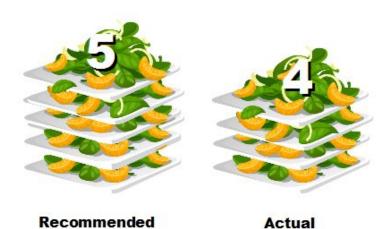


Recommended Dietary Intakes v Actual Dietary Intakes



National Diet and Nutrition Survey 2014

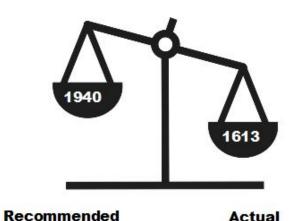
Fruit & Vegetable Intake



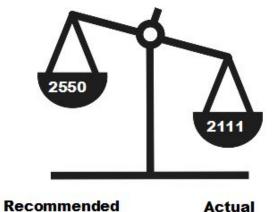
Red Meat Intake



Women's Total Calories



Men's Total Calories





Adult Obesity = 25%

Childhood Obesity = 12-25%

Pre-Diabetes = 35%

Type 2 Diabetes = 6%

Cost To NHS = £16 Billion Per Year



What on...



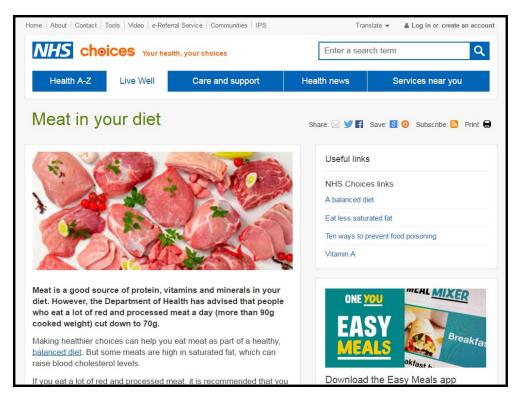
...is going on?





- 1) The avoidance of foods because of saturated fat content.
- 2) The dietary reference value of no more than 35% total fat.
- 3) The quality and quantity of carbohydrates.





"Eating a lot of saturated fat can raise cholesterol levels in the blood, and having high cholesterol raises your risk of heart disease."

NHS Choices





"These findings do not support associations between intake of total fat, cholesterol, or specific types of fat and risk of stroke in men."

BMJ, Harvard School of Public Health, July 2003 (N = 43,732)





"Intake of saturated fat was not associated with an increased risk of coronary heart disease, stroke, or cardiovascular disease."

The American Journal of Clinical Nutrition, Harvard School of Public Health, March 2010 (N = 347,747)







"observational evidence does not support the hypothesis that dairy fat or high-fat dairy foods contribute to obesity or cardiometabolic risk, and suggests that high-fat dairy consumption within typical dietary patterns is inversely associated with obesity risk."

> European Journal of Nutrition, Fred Hutchinson Cancer Research Center, July 2012 (N = 74,071)

Annals of Internal Medicine Established in 1927 by the American College of Physicians



"Current evidence does not clearly support cardiovascular guidelines that encourage high consumption of polyunsaturated fatty acids and low consumption of total saturated fats."

Annals of Internal Medicine, University of Cambridge, March 2014 (N = 643,226)





"Saturated fats are not associated with all cause mortality, cardiovascular disease, coronary heart disease, ischemic stroke, or type 2 diabetes"

BMJ, University of Toronto, August 2015 (N = 339,090)



openheart



"Dietary recommendations were introduced for 220 million US and 56 million UK citizens by 1983, in the absence of supporting evidence from randomised controlled trials."

BMJ OpenHeart, University of West Scotland, February 2015 (N = 2,467)



"In light of this scientific evidence the Public Health Collaboration suggests that the UK stops recommending the avoidance of foods because of saturated fat content in order to focus on the consumption of food in its natural form, however much saturated fat it contains."

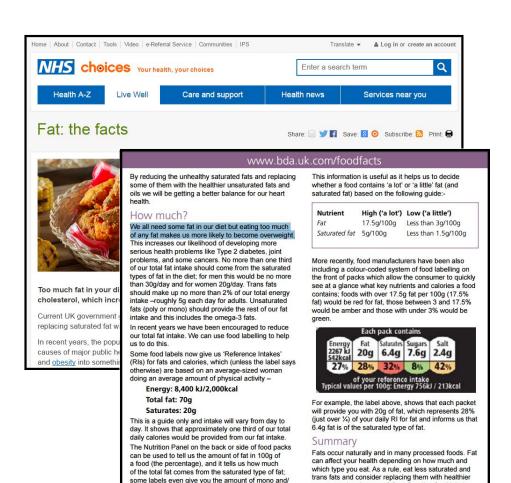
Public Health Collaboration, May 2016





"Too much fat in your diet, especially saturated fats, can raise your cholesterol, which increases the risk of heart disease."

NHS Choices



or polyunsaturated fat present. As you see from the

example below, the total fat is listed first, and on many

unsaturated and omega-3 fats. Reading food labels

will help you to make healthier choices and to get the

balance of fats right in your diet.

"We all need some fat in our diet but eating too much of any fat makes us more likely to become overweight."

Food Fact Sheet by British Dietetic Association (BDA)







"Compared with subjects on low-fat diets, subjects on low-carbohydrate diets [that are approximately 65% fat] experienced significantly greater weight loss, greater triglycerides reduction and greater increase in HDL-cholesterol after 6 months to 2 years of intervention."

British Journal of Nutrition, University of Oslo, February 2016 (N=1,369)

NICE National Institute for Health and Care Excellence

"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."

NICE Guidelines [CG189]

Findings of 54 RCTs comparing LF to LC (N=4,298)

- LF; 50% CHO, 30% Fat & 20% PRO, calorie counting.
- LF lost more weight in 5, with 0 being statistically significant.

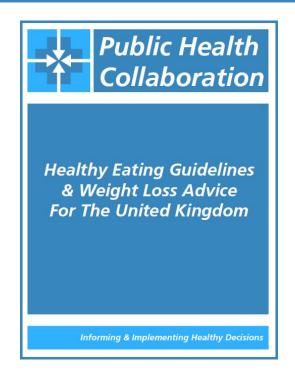
- LC; 10% CHO, 65% Fat & 25%
 PRO, ad libitum.
- LC lost more weight in 47, with 27 being statistically significant.

- 2 of the trials showed equal weight loss.
- Both arms are the same amount of calories.
- Low-carb dieters showed 3 times more statistically significant health outcomes other than weight loss compared to the low-fat dieters.



Why aren't we primarily recommending low-carb diets for patients who want and need to lose weight and become healthier?

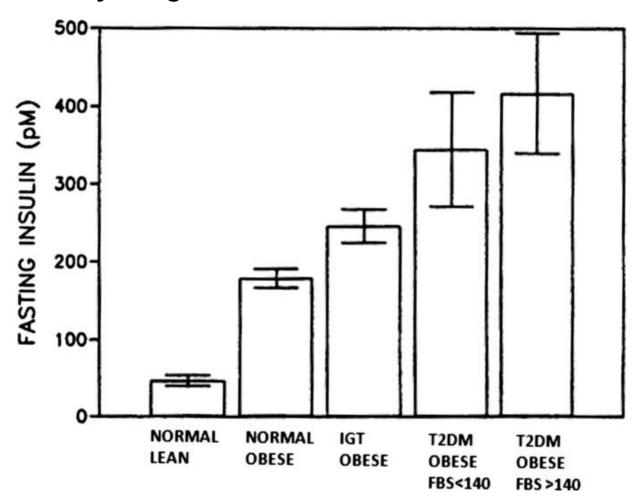




"In light of this scientific evidence the Public Health Collaboration suggests that the UK remove the recommendation to eat no more than 35% of total calorie intake from fat. Instead, recommendations should focus on the health benefits of eating food in its natural form, regardless of how much fat it contains."

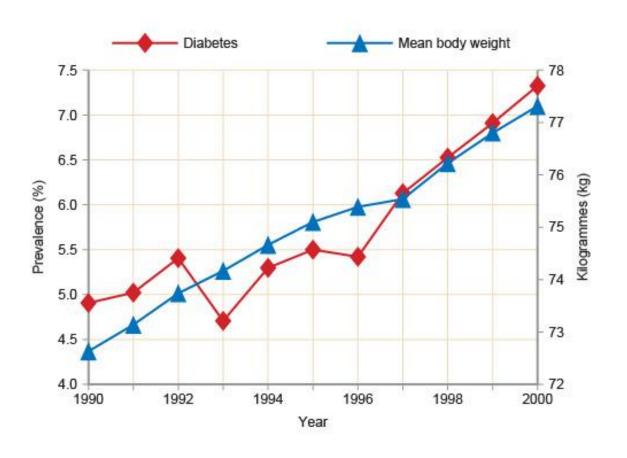


Body Weight Correlates With Insulin Levels





Type 2 Diabetes Rises With Mean Body Weight



The quality and quantity of carbohydrates



Macronutrient Breakdown

- 60% Carbohydrates
- 22% Fat
- 18% Protein



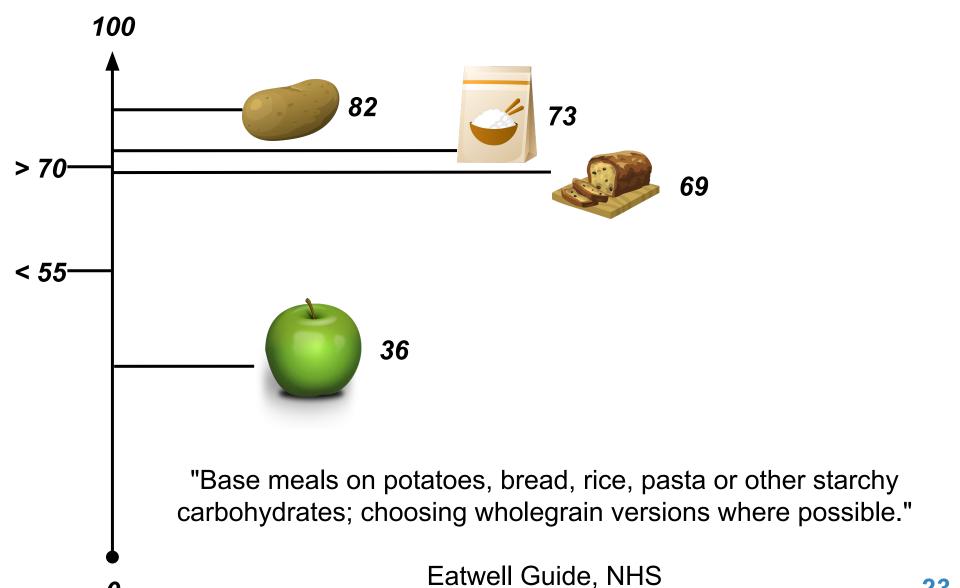
REAL FOOD

FAKE FOOD





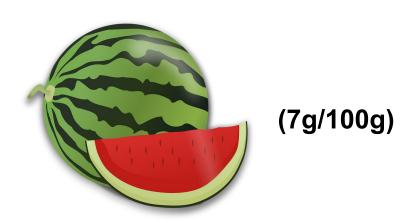






Glycaemic Index X Carbohydrate(g) / 100 = Glycaemic Load



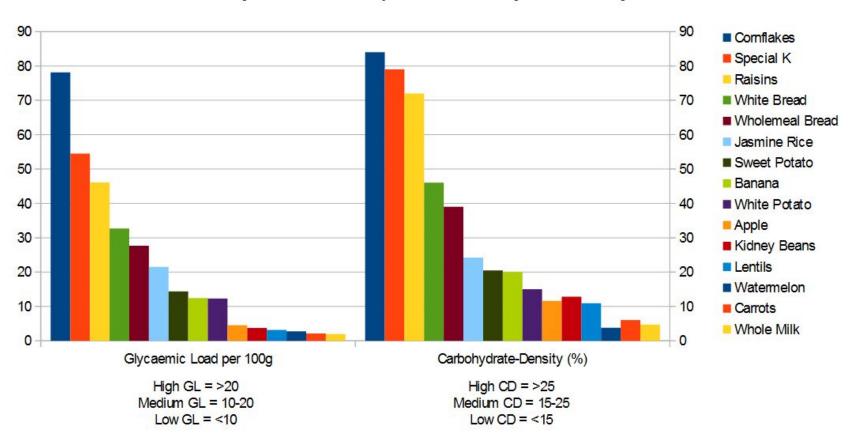


$$69(GI) \times 39(g) / 100 = 27 (GL)$$

$$72(GI) \times 7(g) / 100 = 5 (GL)$$

The quality and quantity of carbohydrates

Glycemic Load Compared To Carbohydrate-Density



Carbohydrate-Density (CD) = The amount of carbohydrate per 100g



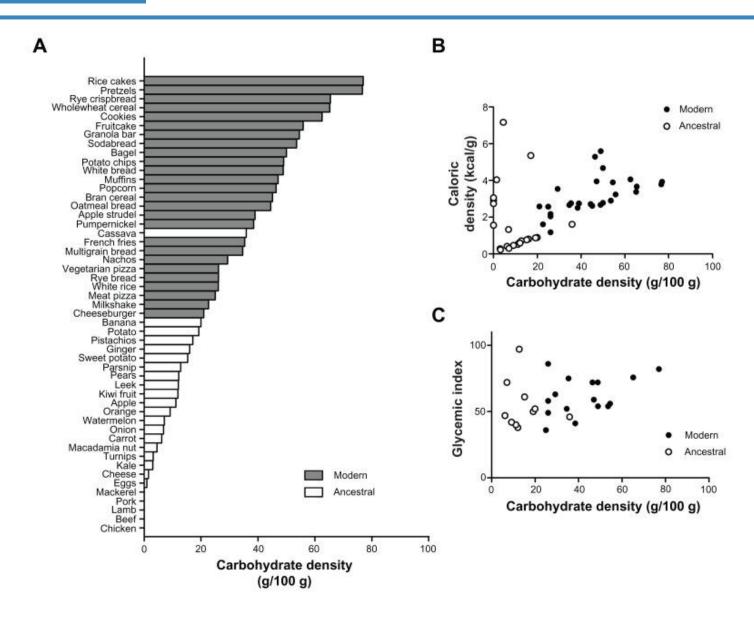


25g of carbohydrate per 100g = 25% (CD)



5g of carbohydrate per 100g = 5% (CD)

The quality and quantity of carbohydrates





The quality and quantity of carbohydrates

Eatwell Guide Breakfast	Glycaemic Load	Carbohydrate-Density
Orange Juice (160ml)	7	10
Shredded whole-wheat cereal biscuits (44g)	22.5	69
Semi-skimmed Milk (150ml)	2.4	4.8
Wholemeal toast (35g)	9.4	39
Low fat spread (5g)	0	2.8
Marmalade (5g)	1.4	67
Tea (160ml) with semi- skimmed milk (30ml)	0.5	4.8
TOTAL	43.2	N/A
PHC Breakfast	Glycaemic Load	Carbohydrate-Density
2 Eggs	0	0
2 Slices of Bacon	0	0
Tomatoes (100g)	0.54	3.6
Coffee (160ml) with whole milk (30ml)	0.4	4.7
TOTAL	0.94	N/A





"In light of this scientific evidence the Public Health Collaboration suggests that the UK should avoid foods that have a high carbohydrate-density in order to focus on the consumption of foods and drinks that have carbohydrate-density of less than 25%, as they are usually found in their natural form."







- 1. Waist circumference less than 90cm (35.5 inches) for men and less than 80cm (31.5 inches) for women.
- 2. Fasting blood glucose less than 5.6 mmol/L.
- 3. Blood pressure less than 140 mmHg for systolic and less than 90 mmHg for diastolic.
- 4. Fasting triglycerides less than 1.7 mmol/L.
- 5. Fasting HDL-cholesterol greater than 1.03 mmol/L for men and greater than 1.29 mmol/L for women.









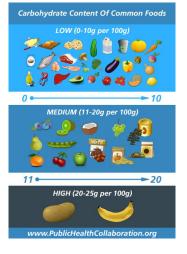
£45,000 X 9,400 Surgeries = £423 Million/Year













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