The Muslim Jewish Forum of Greater Manchester Eating and Our Health

Reducing your weight

Mohammed Amin MBE FRSA Co-Chair, The Muslim Jewish Forum of Greater Manchester 20 November 2016

Synopsis

- About the speaker
- Mohammed Amin's weight history
- The science behind body weight
- Advice on reducing your weight

Mohammed Amin MBE FRSA



Mohammed Amin studied mathematics, physics and chemistry at A Level.

He graduated in mathematics from Cambridge University.

Since 2008 he has subscribed to "Scientific American" magazine.

Professionally he is a Chartered Accountant and Chartered Tax Adviser and before retirement was a tax partner in PricewaterhouseCoopers.

Amin is Co-Chair of the Muslim Jewish Forum of Greater Manchester.

www.mohammedamin.com

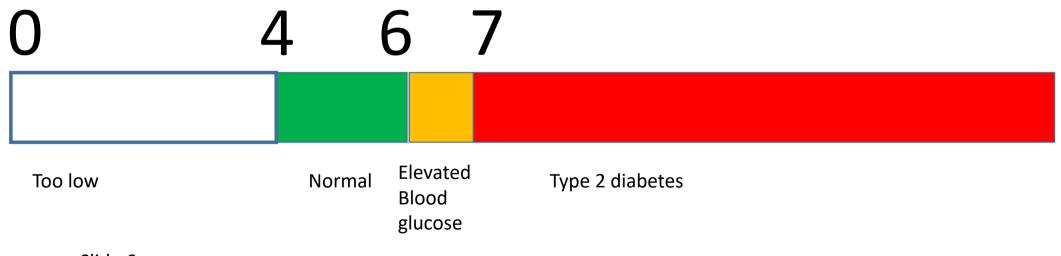
Speaker's weight history

A weighty lifetime

- Mother doted on me
- Always chubby
- Age 16, 12 stone = 76 kg
- 24-27 "super fit", 90 minutes of squash
- 32 inch waist when got married.
 - Estimate 10 stone = 63.5 kg
- Age 62, 87 kg
- Annual medical

Annual medical 2013

- Fasting blood glucose 7 mmol / L (millimoles per litre)
- Remeasured two weeks later, 7.2 mmol / L

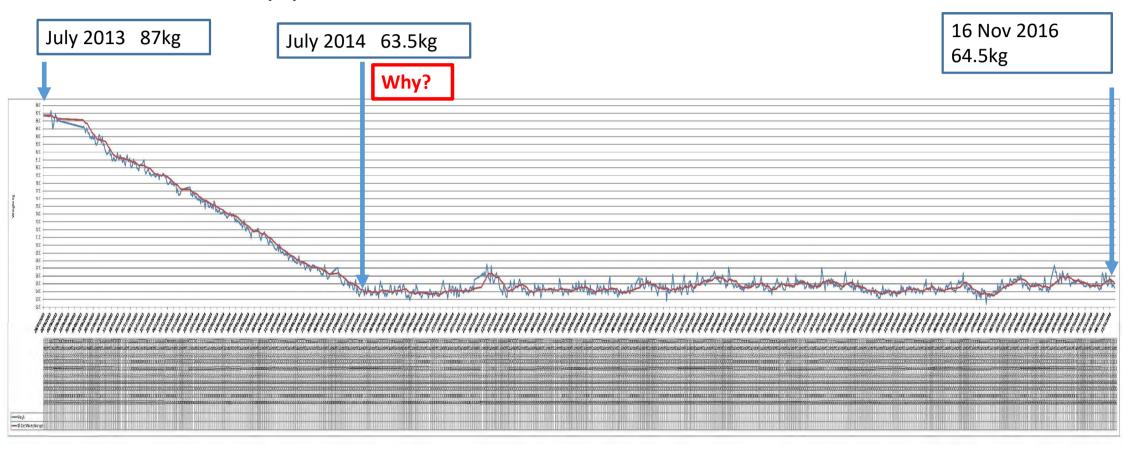


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Two things help your blood sugar

- Exercise
- Losing weight

What happened next

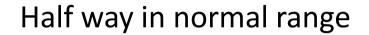


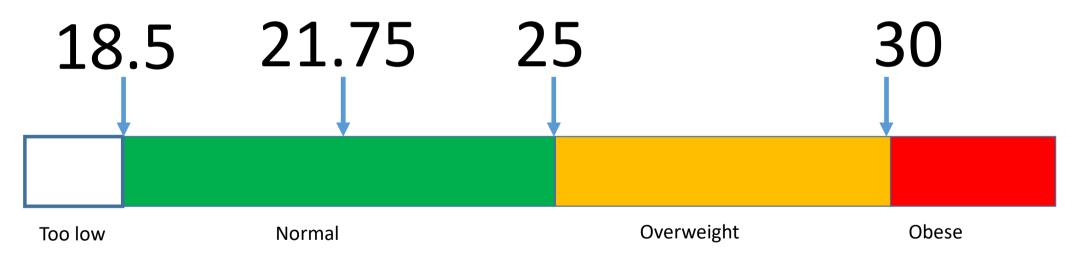
Body mass index (BMI)

BMI = Weight (kg)

Height squared (m)

BMI ranges





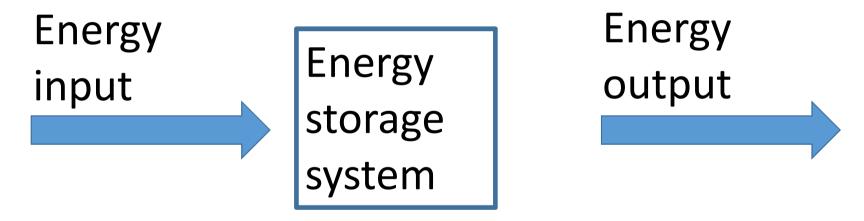
My target weight

The science behind weight

Energy

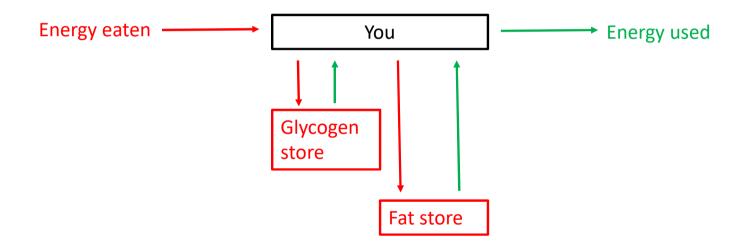
- "The power to do work"
- 1 joule = A force of 1 newton acting for a distance of 1 metre
 - 1 newton = force that gives 1kg mass an acceleration of 1 metre per second per second
- 1 calorie = amount of heat energy that will raise the temperature of 1g of water by 1 degree Celsius.
- calorie is very small, so normally work in 1,000 calorie units, kilocalories abbreviated as kcal.

Energy is conserved

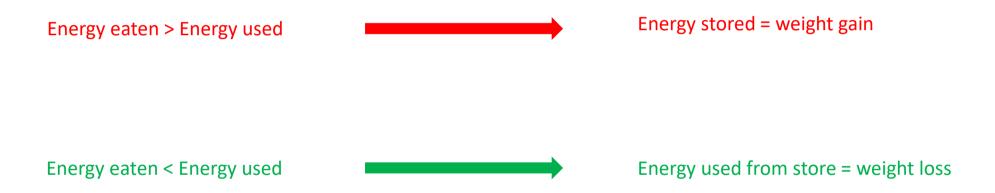


input – output = energy stored

Human energy storage



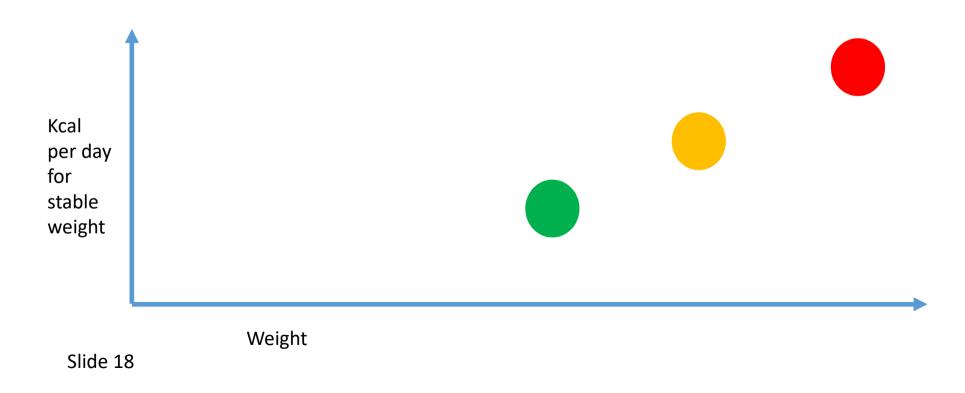
Adding or reducing weight



How many kcal per day?

- Depends on your lifestyle
- Traditional answer ~2,000 kcal per day
- The more you weigh, the more kcal per day you need to sustain your weight

Kcal per day for a stable weight



Advice on reducing weight

Losing weight is simple

- Need energy input < energy output
- So either:
 - Reduce input
 - Increase output, or
 - Both
- 1 kg of body fat = 7,700 kcal
- If (daily output daily input) = 500 kcal, in 15 days the shortage = 7,500 kcal = approximately 1kg off your weight

Increasing output is hard

- http://www.freedieting.com/tools/calories_burned.htm
- My age and weight
- 60 minutes walking at 2.5 mph = 161 kcal
- 60 minutes walking at 5 mph = 444 kcal
- 60 minutes recreational backstroke swimming = 284 kcal

161 kcal = approximately 2 biscuits

Reducing input is easier

- Property values: "location, location"
- Weight: "kcal, kcal, kcal"
- Count daily kcal input
- Reduce it
- You will feel hungry
- Some things you can eat lots of, if low in calories
 - 400g broccoli (1 big head) = ~100 kcal
- Become an expert on kcals

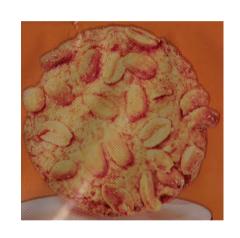
Most foods are packaged



Read the nutritional label

Crunchy biscuits with roasted peanuts For best before date: see back of pack. Store in a cool, dry place. Once opened, store in an airtight container for best quality.	Nutrition Typical values Energy kJ Energy kcal	per 100g 2207 528	per cookie 368 88	% adult RI per cookie 4%	adult RI 8400 2000
Our ingredients Wheat Flour, Peanuts (25%), Sugar, Vegetable Oil (Palm Oil, Rapeseed Oil, Coconut Oil, Palm Kernel Oil), Egg, Milk Proteins (Cows' Milk), Raising Agents: Sodium Carbonate, Glucono-delta-lactone; Salt, Invert Sugar Syrup, Dextrose, Hawouring, Sunflower Oil. Allergy advice: For allergens, including cereals containing gluten, see ingredients in bold. Also, not suitable for customers with an allergy to other nuts, rye, barley, oats, spelt or soya due to manufacturing methods.	Fat of which saturate - mono-unsatura	ates 15.4g	4.7g 1.5g 2.6g	7%) 8%	70g 20g - - 260g 90g
	 polyunsaturate Carbohydrate of which sugars starch 	2.9g 57.3g 27.2g 30.1q	0.5g 9.6g 4.6g 5.0q	4% 5%	
	Fibre Protein Salt	1.9g 10.2g 0.40g	<0.5g 1.7g 0.07g	- 3% 1%	50g 6g
	RI = Reference Intakes of an average adult (8400kJ/2000kcal)				

Comparison



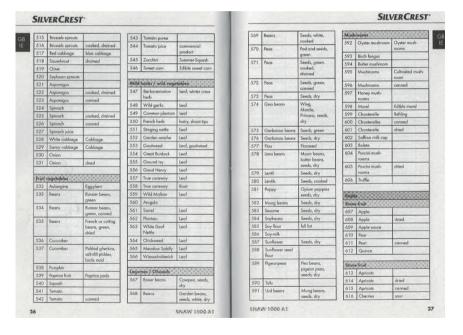


OR

1 hour of walking at 2.5 mph

Nutritional scale





- Calculating calories in home cooking + nonpackaged food
- Use a few times then just remember calorie amounts e.g. 1 bowl chicken soup!

Weighing yourself

- "What gets measured gets done"
- Good quality digital scale
- Consistency
 - Same time of day
 - Wearing same clothes
 - Same stage in routine. E.g. after breakfast and bathroom.
- Weigh daily
- Write it down. Memory is unreliable.

Coping with lapses

- Perfection is impossible
- Weddings, other celebrations, etc.
- Make selections that control calorie intake
- Don't try to compensate for lapses:
 - If you stick to controlling calories, weight will go back down.

Q & A