

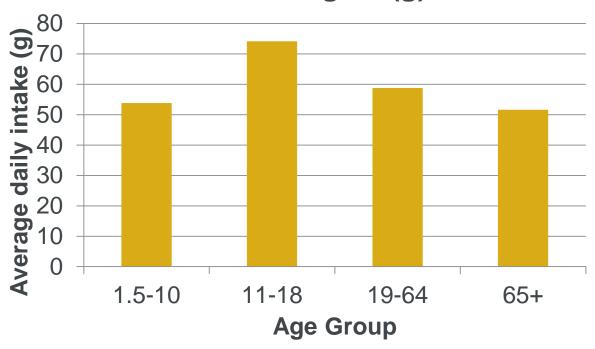
The Effect of Sugar on Health Jean Eu

Sugar is everywhere



Sugar is everywhere

Average Daily intake of Non-milk extrinsic sugars (g)

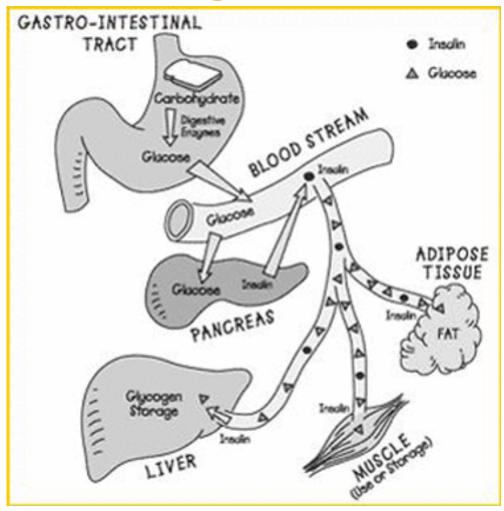


WHO 2015 draft guidelines:

 Reduce sugar to <5% of total energy intake (~25g) a day

Source: National Diet and Nutrition Survey, 2008/2009 – 2011/2012

The problem with sugar



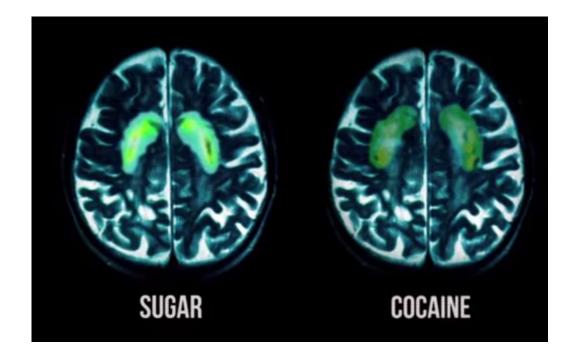
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Why we love sugar

Humans are designed to crave sugar

Sugar has a similar effect on our brains as any addictive

substance



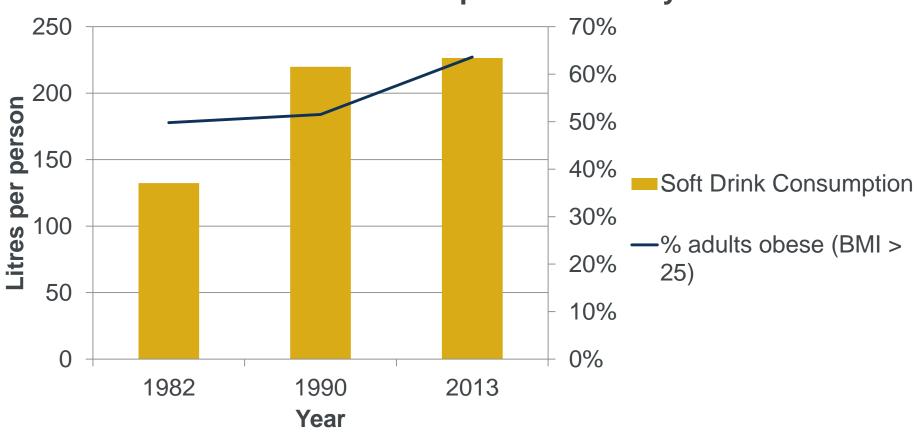
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Impact on health

- It can lead to tooth decay
- Stresses the liver => Non-Alcoholic Fatty Liver Disease
- Can lead to insulin resistance, a driver for metabolic syndrome, cardiovascular disease, obesity, Type 2 diabetes
- Increased risk of cancer, owing to elevated levels of insulin and increased inflammation
- Leads to increased cholesterol, raised insulin and blood sugar, and abdominal obesity => major risk factors for heart disease.

Impact on health

UK soft drinks consumption vs obesity levels



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Considerations for life / health insurance

- Sugar consumption as a rating factor?
- Current rating factors measure risks which have already occurred
- What if we could predict someone's health risk by measuring sugar consumption?
- Sugar consumption not too distant a possibility:
 - Continuous Glucose Monitor, developed 4-5 years ago
 - Journal of Nutrition, June 2013: Scientists have identified a biomarker for dietary sugar
 - Non-invasive blood glucose measures, e.g. Gluco-Wise developed in 2014

Considerations for life / health insurance







Questions Comments

Expressions of individual views by members of the Institute and Faculty of Actuaries and its staff are encouraged.

The views expressed in this presentation are those of the presenter.