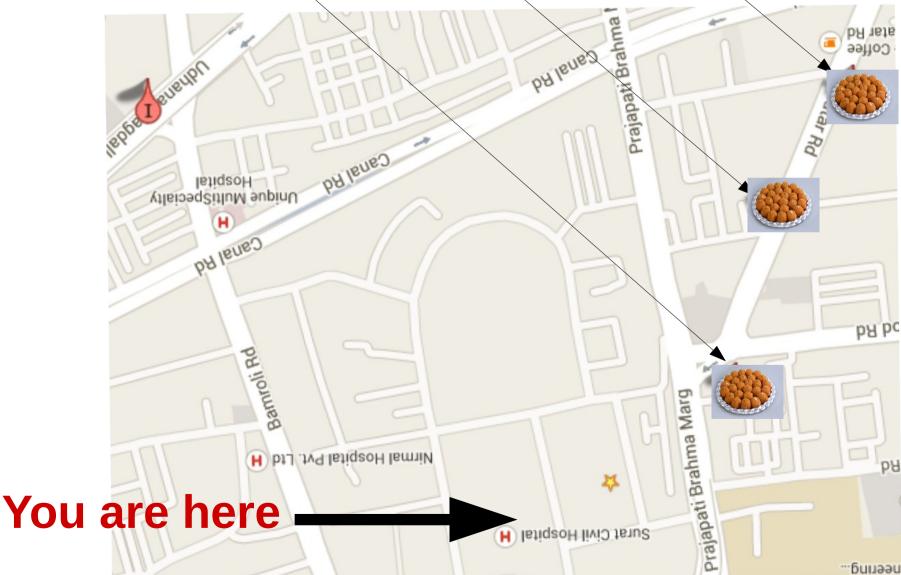
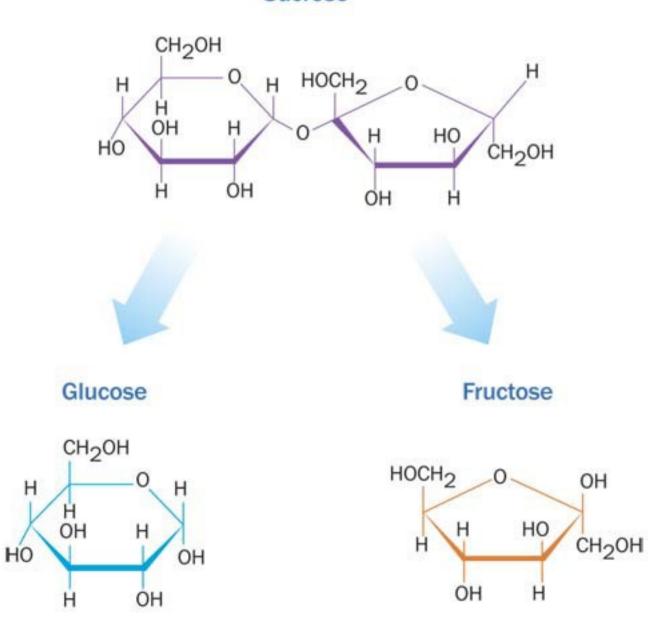
Life cycle of Glucose in Humans

SMPatel

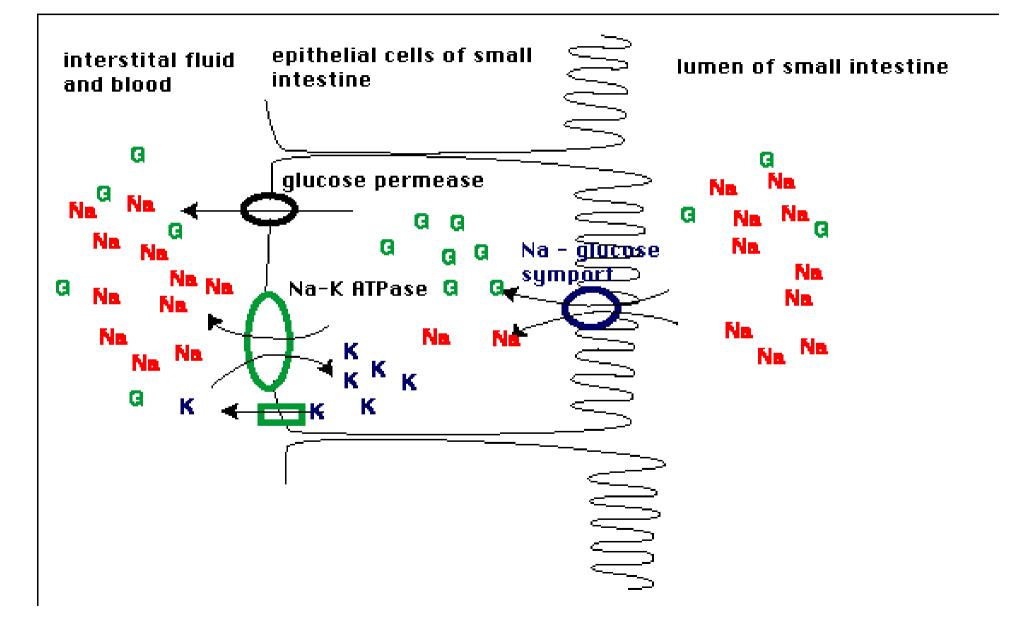
Sources of Glucose Makkhan Bhog Agra Sweets Milk Palace



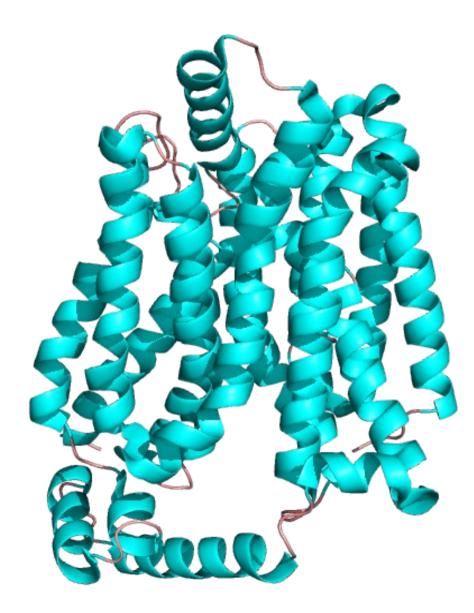
Sucrase, Instestinal Mucosa



Na+ Glucose Co-transporter



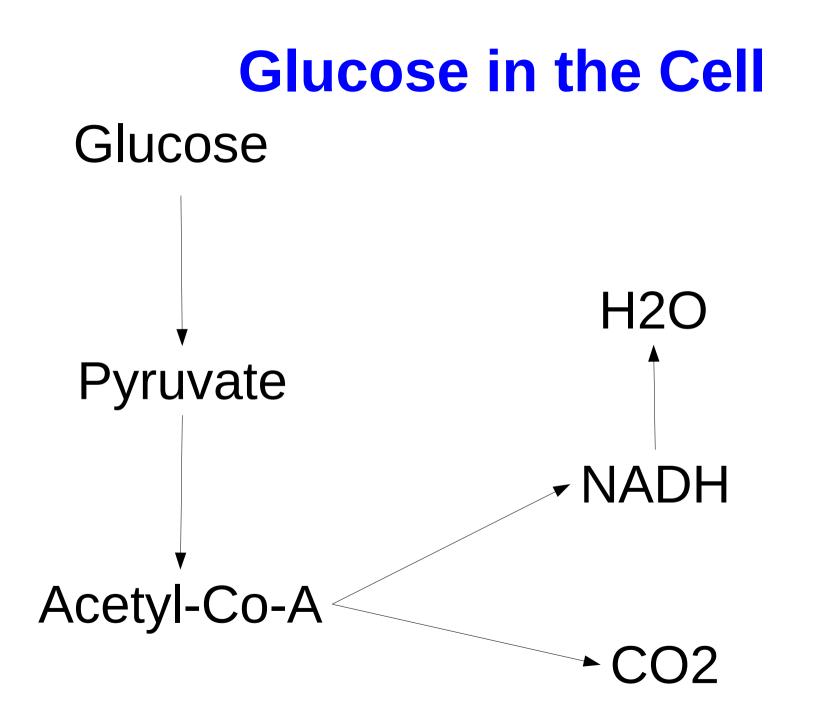
Glucose enter the cell



GLUT

Glucose Transporter

Uniport



Glucose -> H2O + CO2

H2O: How it leave Body?

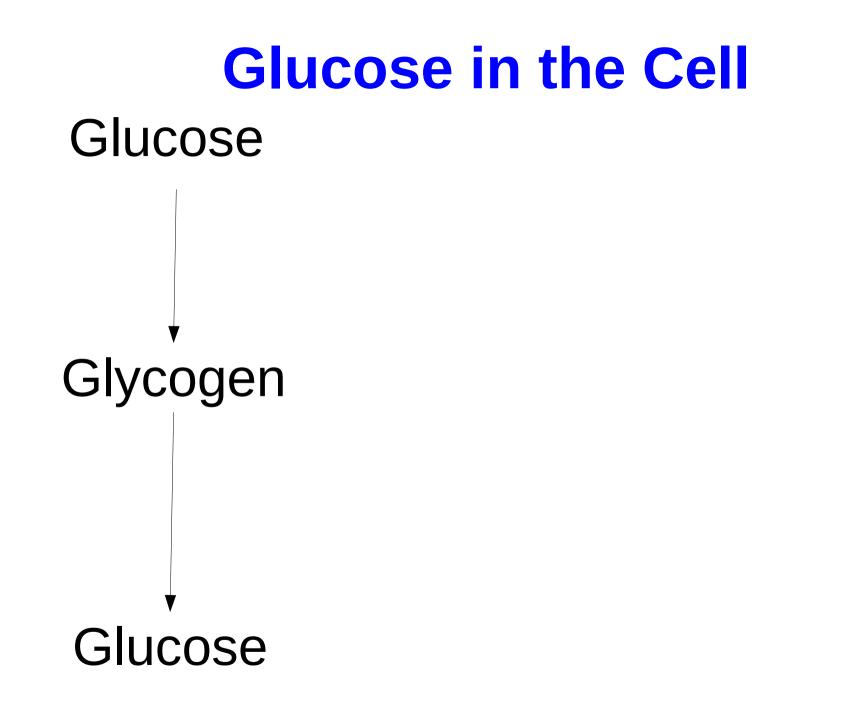
CO2: How it leave body?

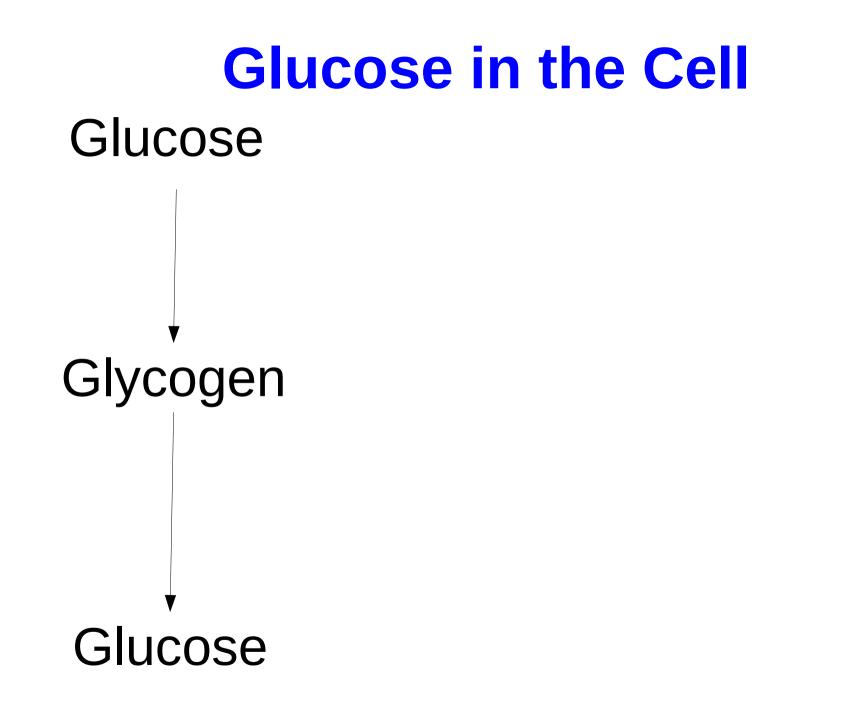
How much water produced per day?

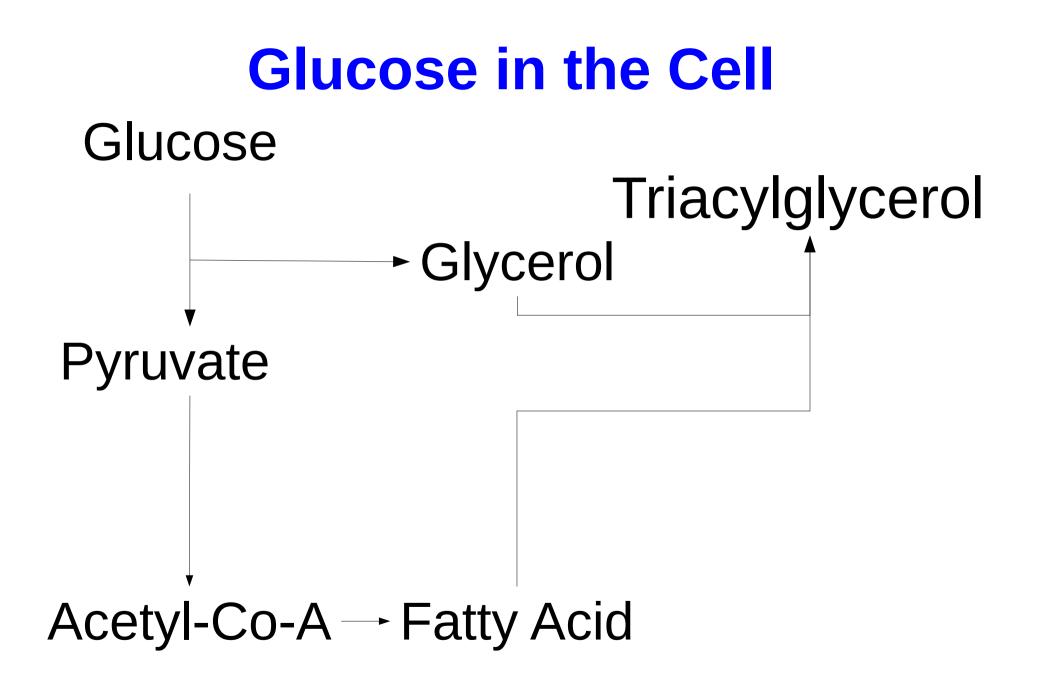
- Requirement of energy kCal/day
- gm of Glucose required
- Glucose MW
- mol of Glucose required
- Glucose->6CO2 + 6H2O
- mol Water required
- H2O MW
- gm of H2O required

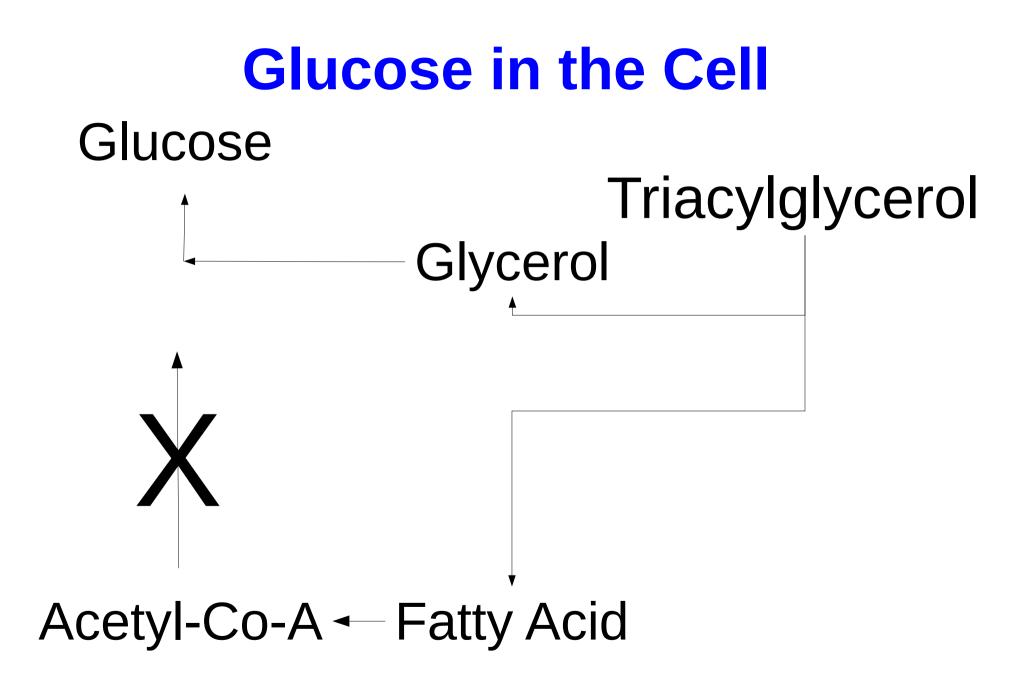
How much water produced per day?

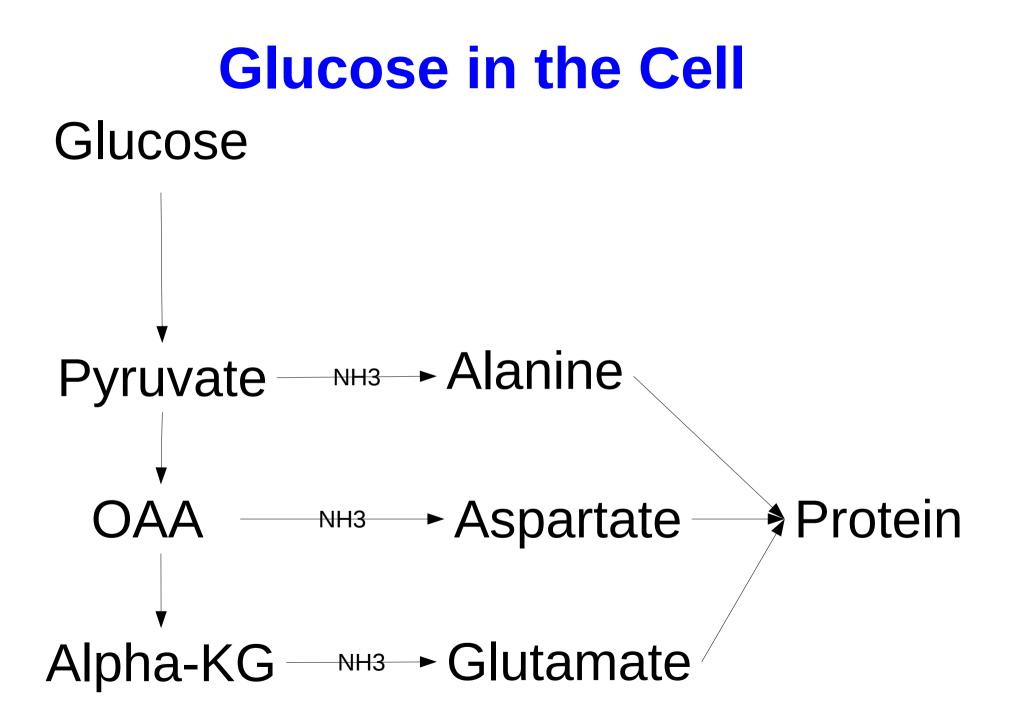
- 2000 kCal/day
- 2000/4=500 gm Glucose
- Glucose MW 180
- 500 gm = 2.8 mol
- Glucose->6CO2 + 6H2O
- 2.8 x 6 = 16.8 mol Water
- H2O MW 18
- 18 X 16.8 = 300 gm

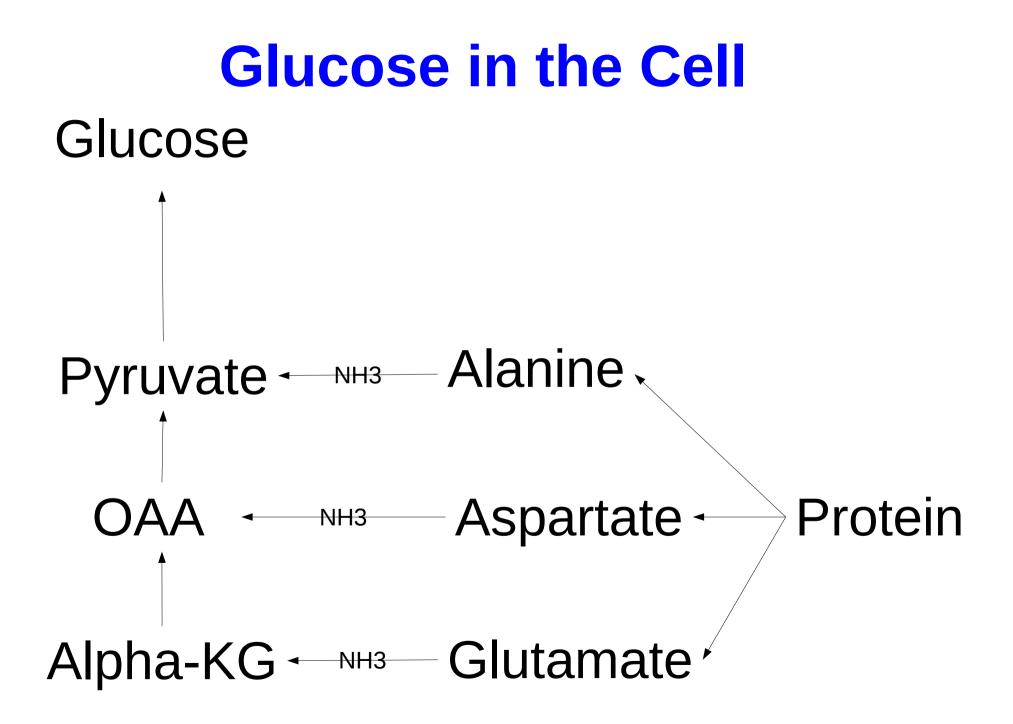


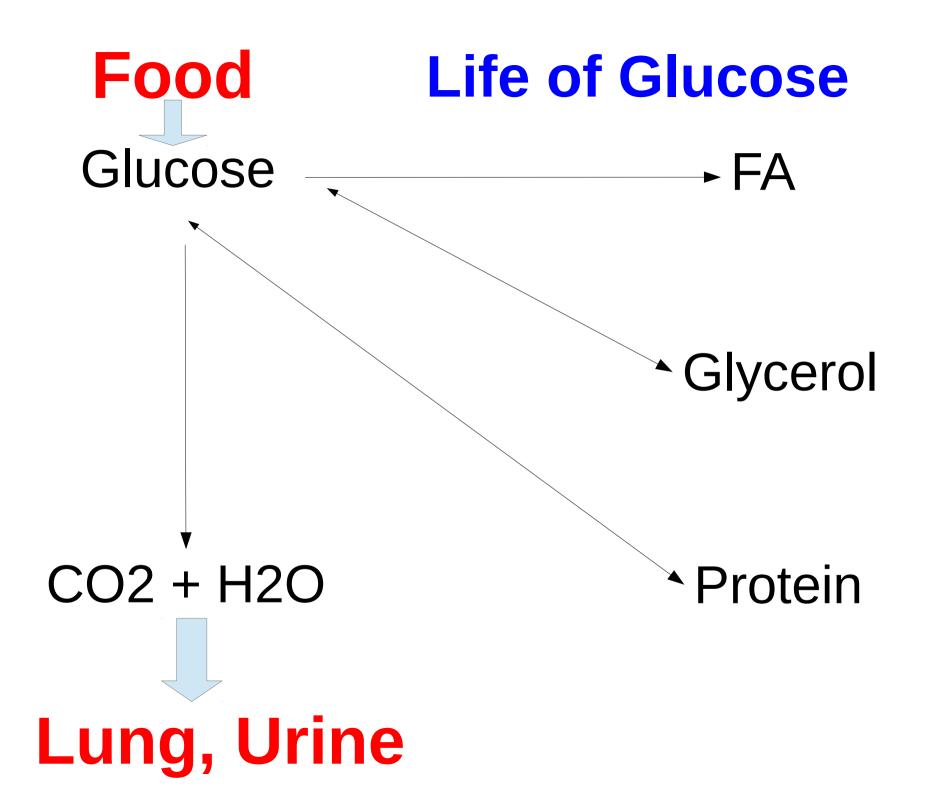




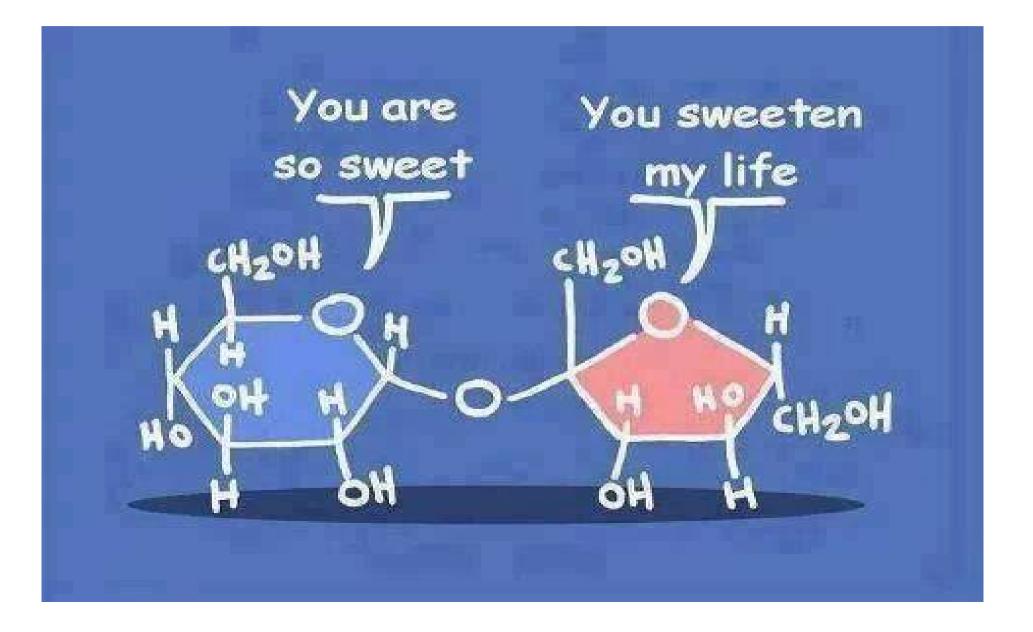


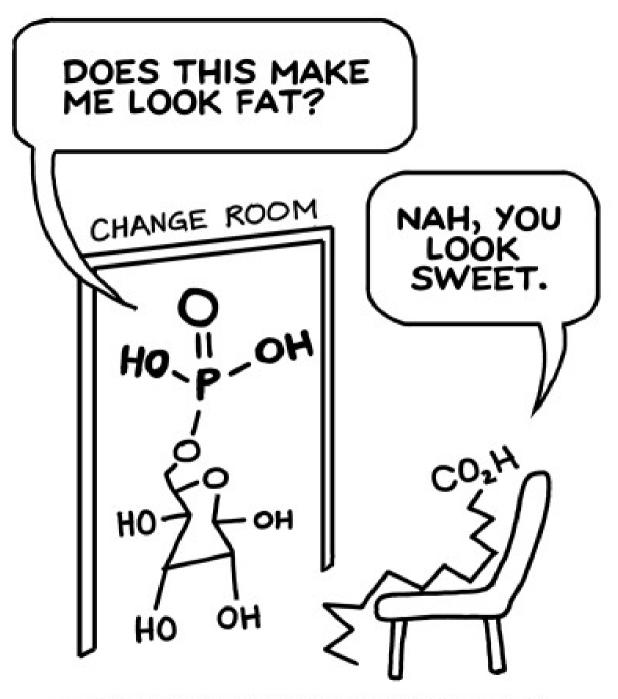






Sucrose is sweeter than Glucose





Copyright©2009 Debbie Ridpath Ohi & Kevin Duffy.



"You have Type 3 Diabetes. Too much artificial sweetener in your blood!"