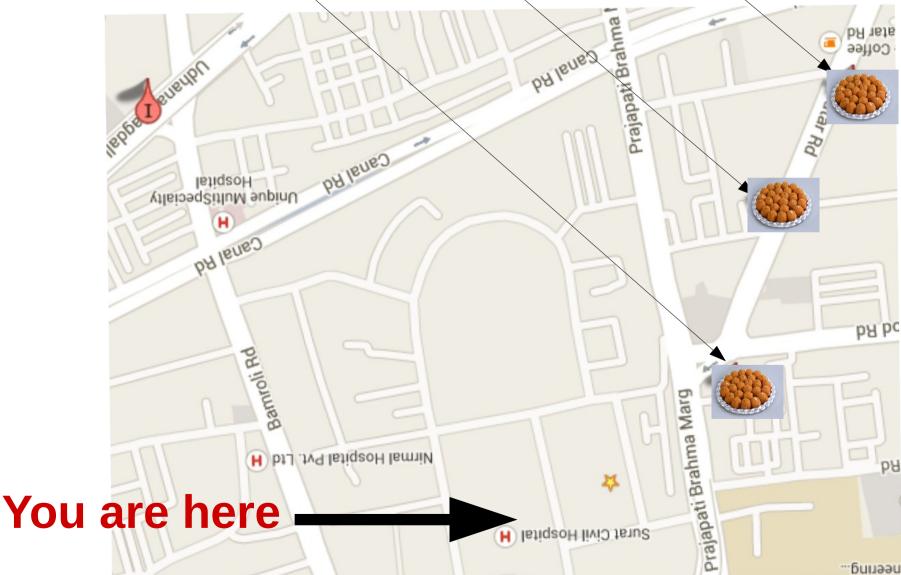
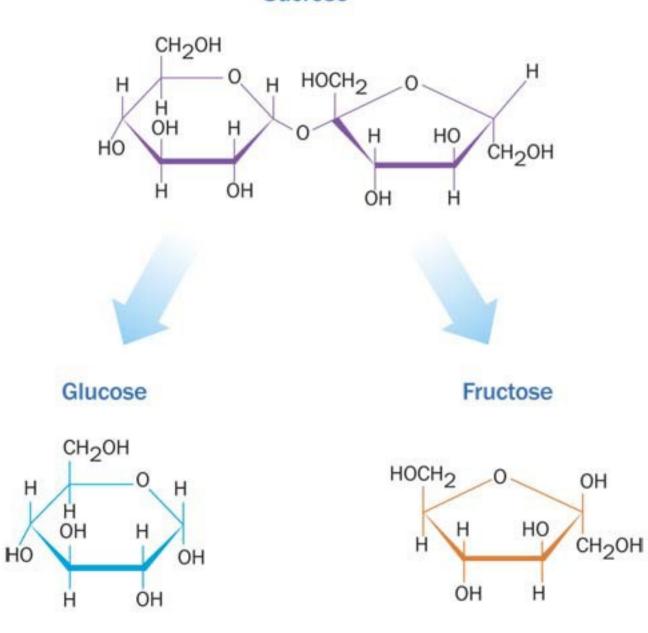
## Life cycle of Glucose in Humans

**SMPatel** 

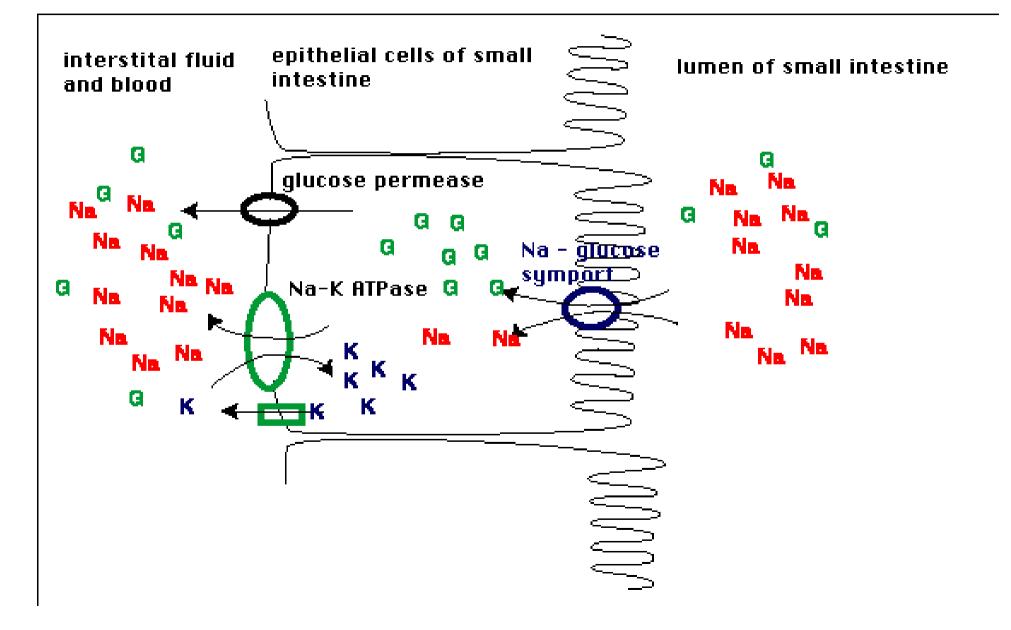
#### Sources of Glucose Makkhan Bhog Agra Sweets Milk Palace



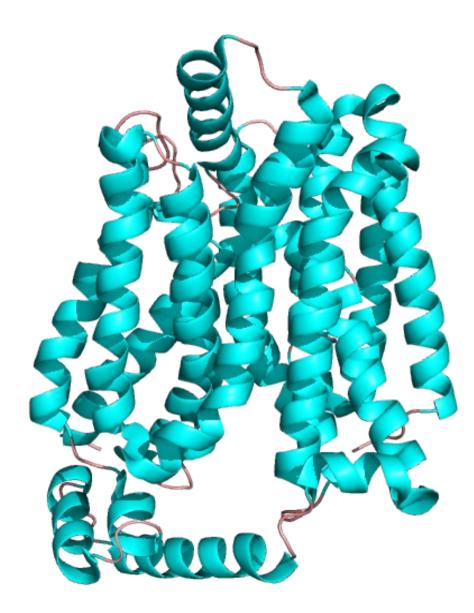
# Sucrase, Instestinal Mucosa



### **Na+ Glucose Co-transporter**



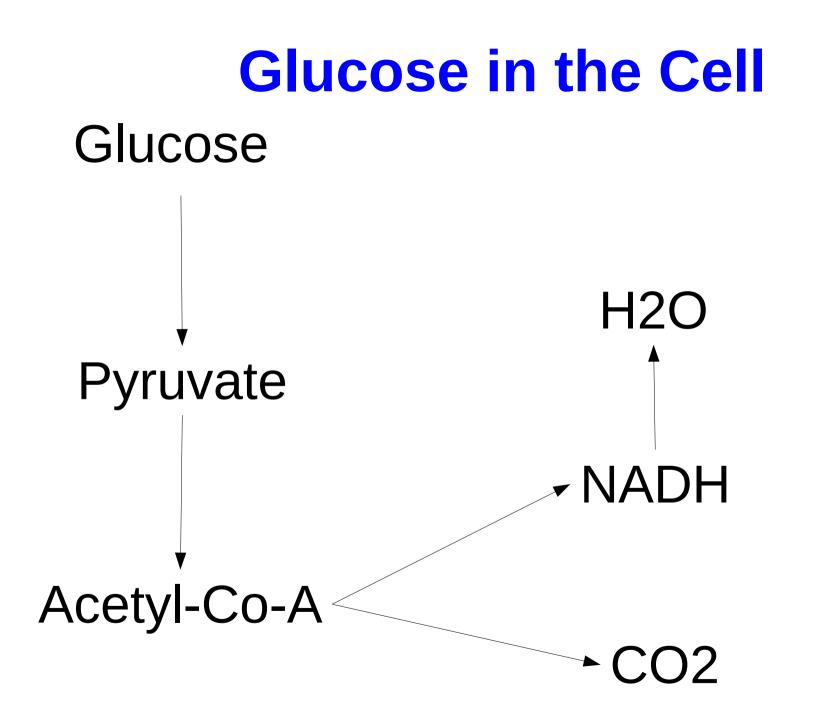
#### **Glucose enter the cell**



## GLUT

Glucose Transporter

Uniport



#### Glucose -> H2O + CO2

H2O: How it leave Body?

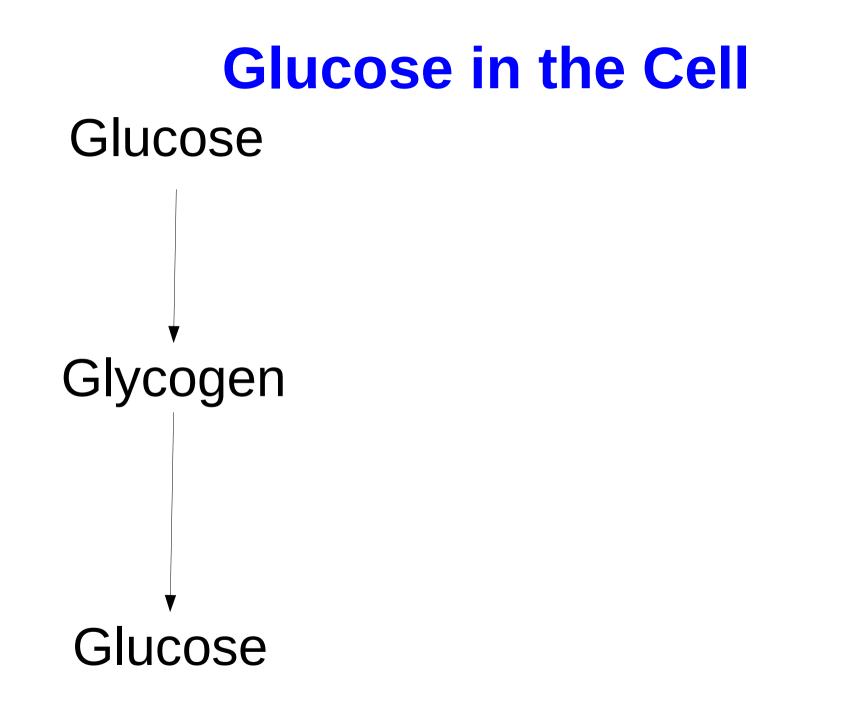
CO2: How it leave body?

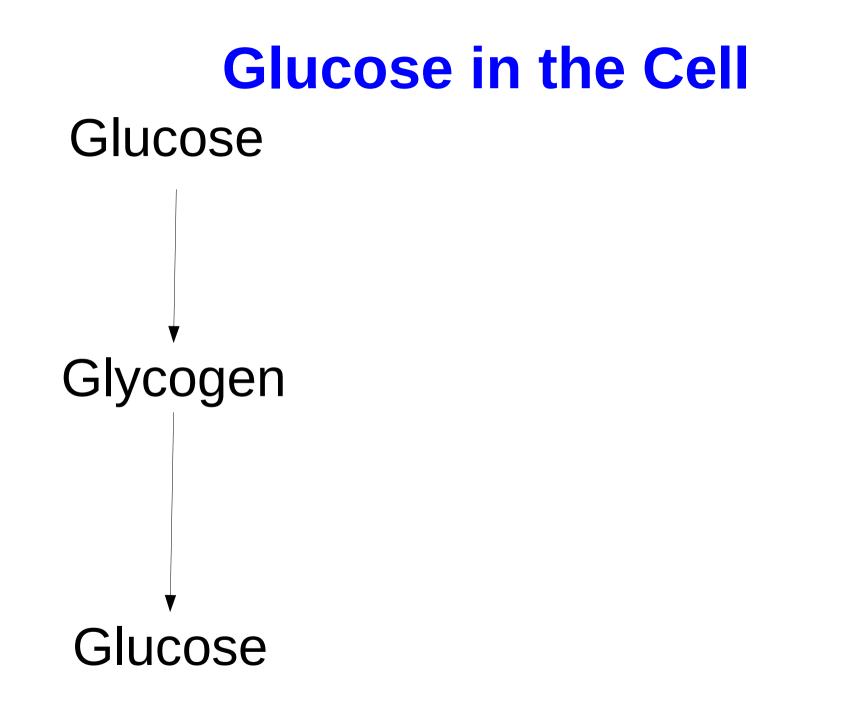
# How much water produced per day?

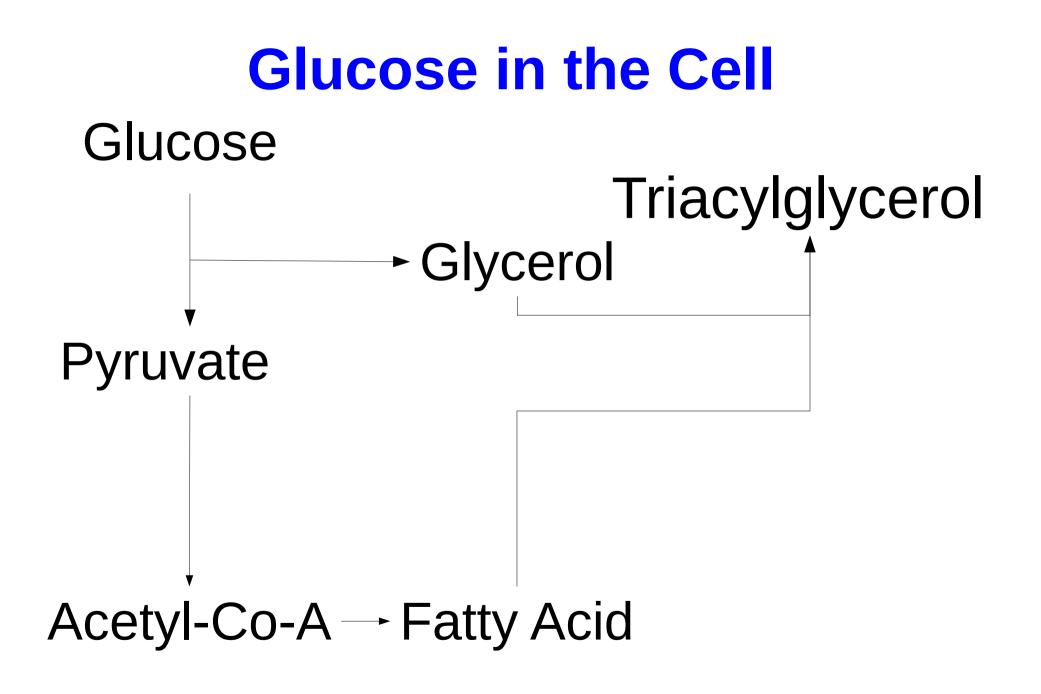
- Requirement of energy kCal/day
- gm of Glucose required
- Glucose MW
- mol of Glucose required
- Glucose->6CO2 + 6H2O
- mol Water required
- H2O MW
- gm of H2O required

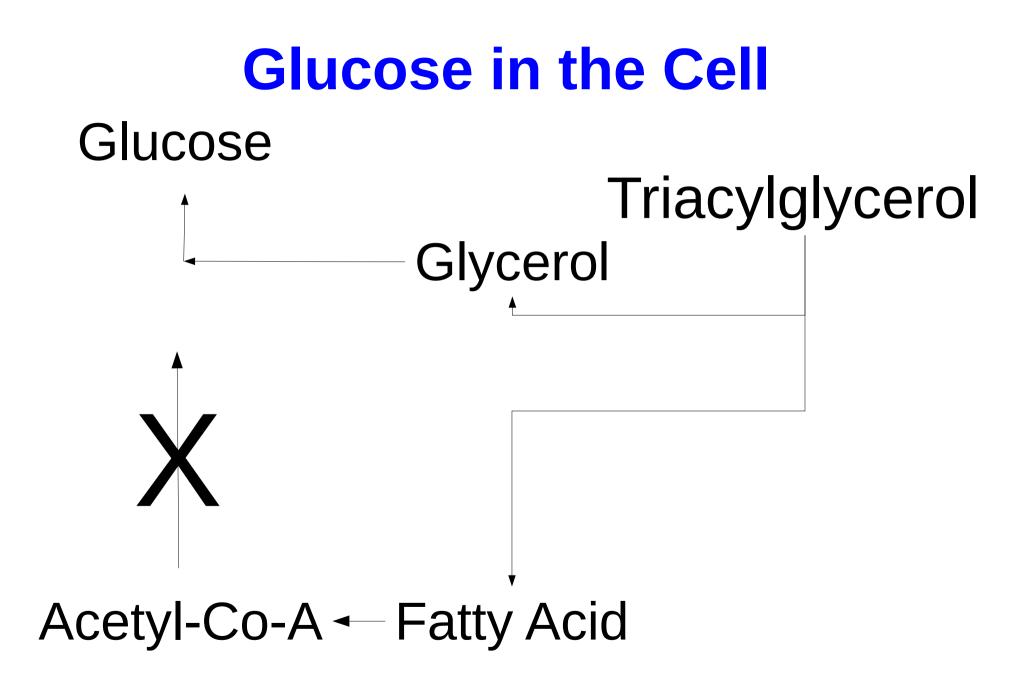
# How much water produced per day?

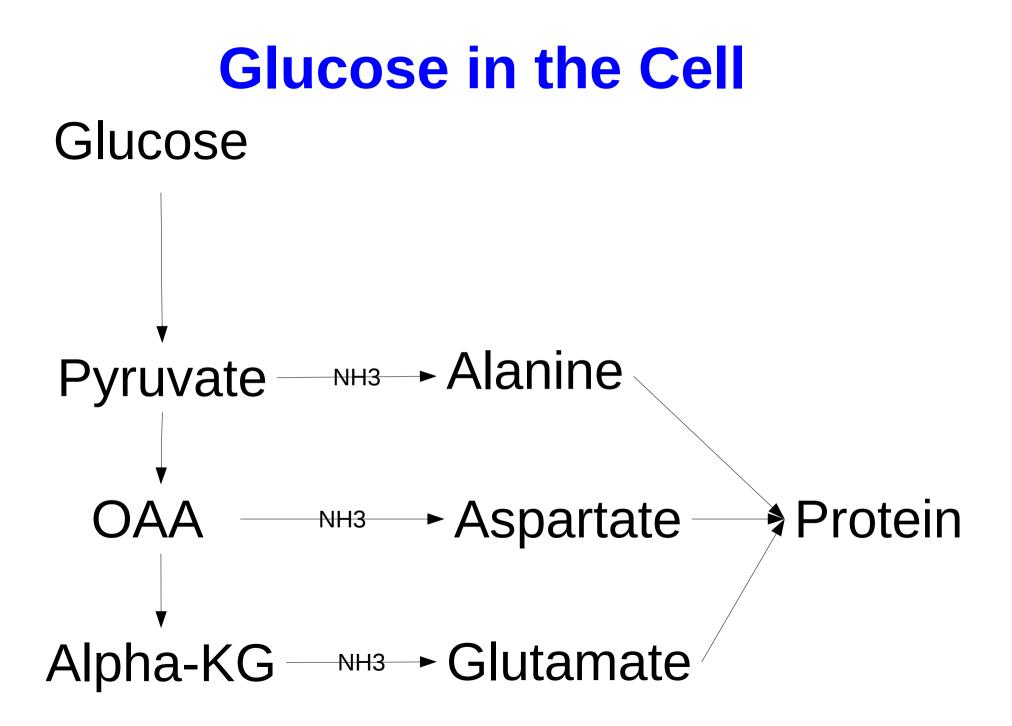
- 2000 kCal/day
- 2000/4=500 gm Glucose
- Glucose MW 180
- 500 gm = 2.8 mol
- Glucose->6CO2 + 6H2O
- 2.8 x 6 = 16.8 mol Water
- H2O MW 18
- 18 X 16.8 = 300 gm

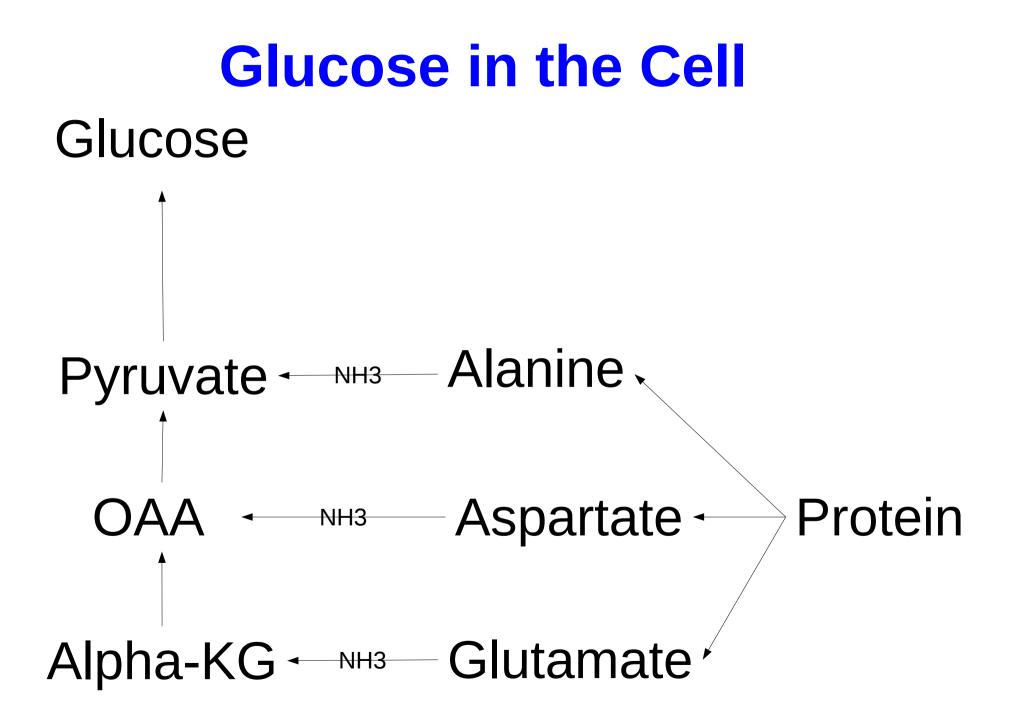


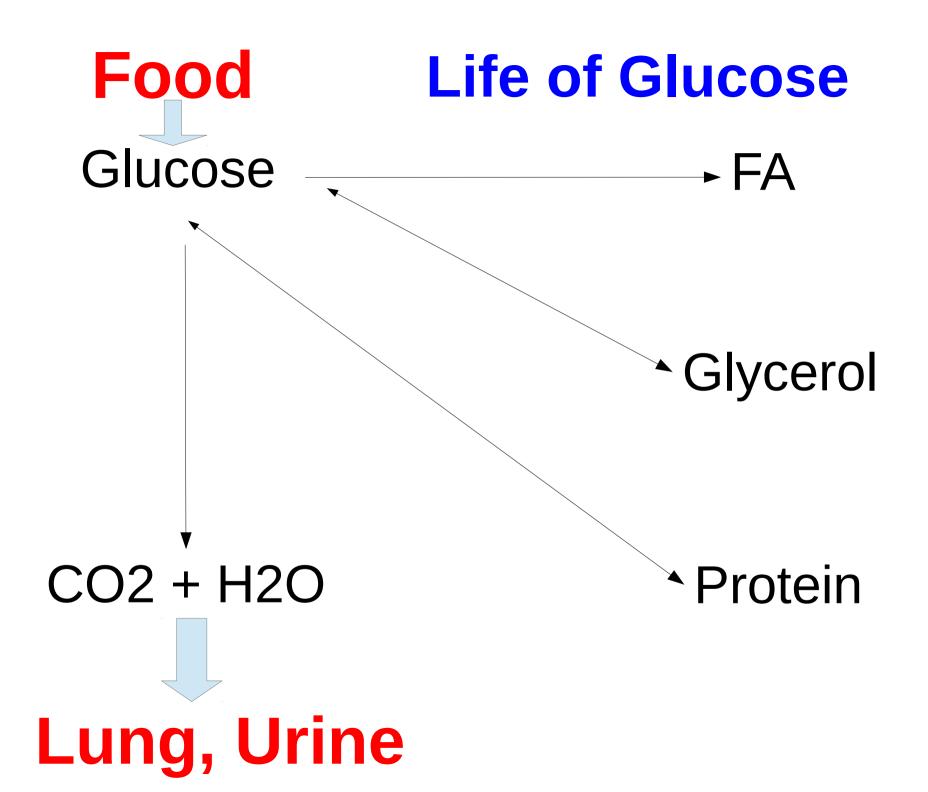




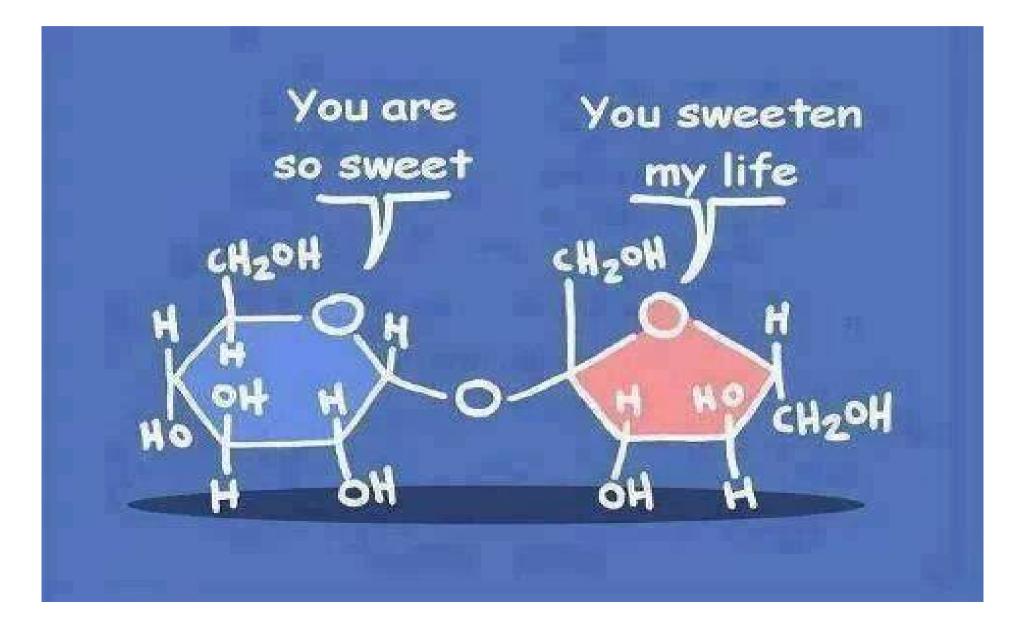


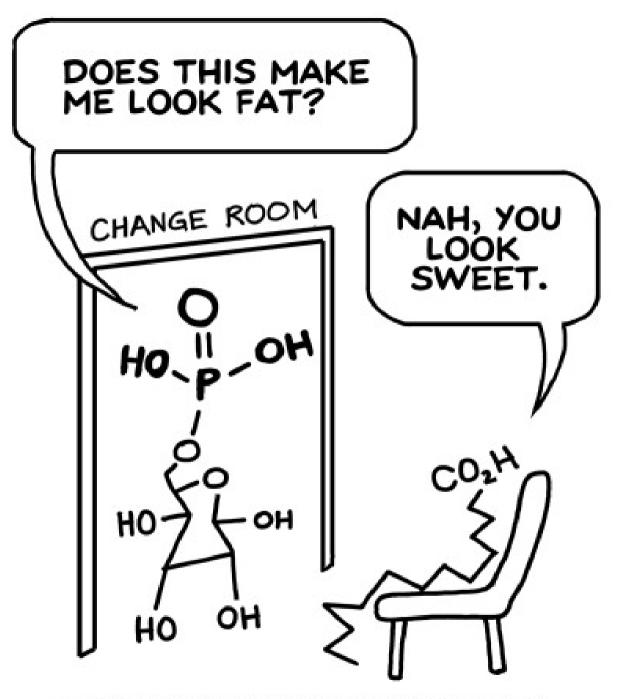






#### Sucrose is sweeter than Glucose





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