

Diabetes in childhood

Basically : Loss of insulin!

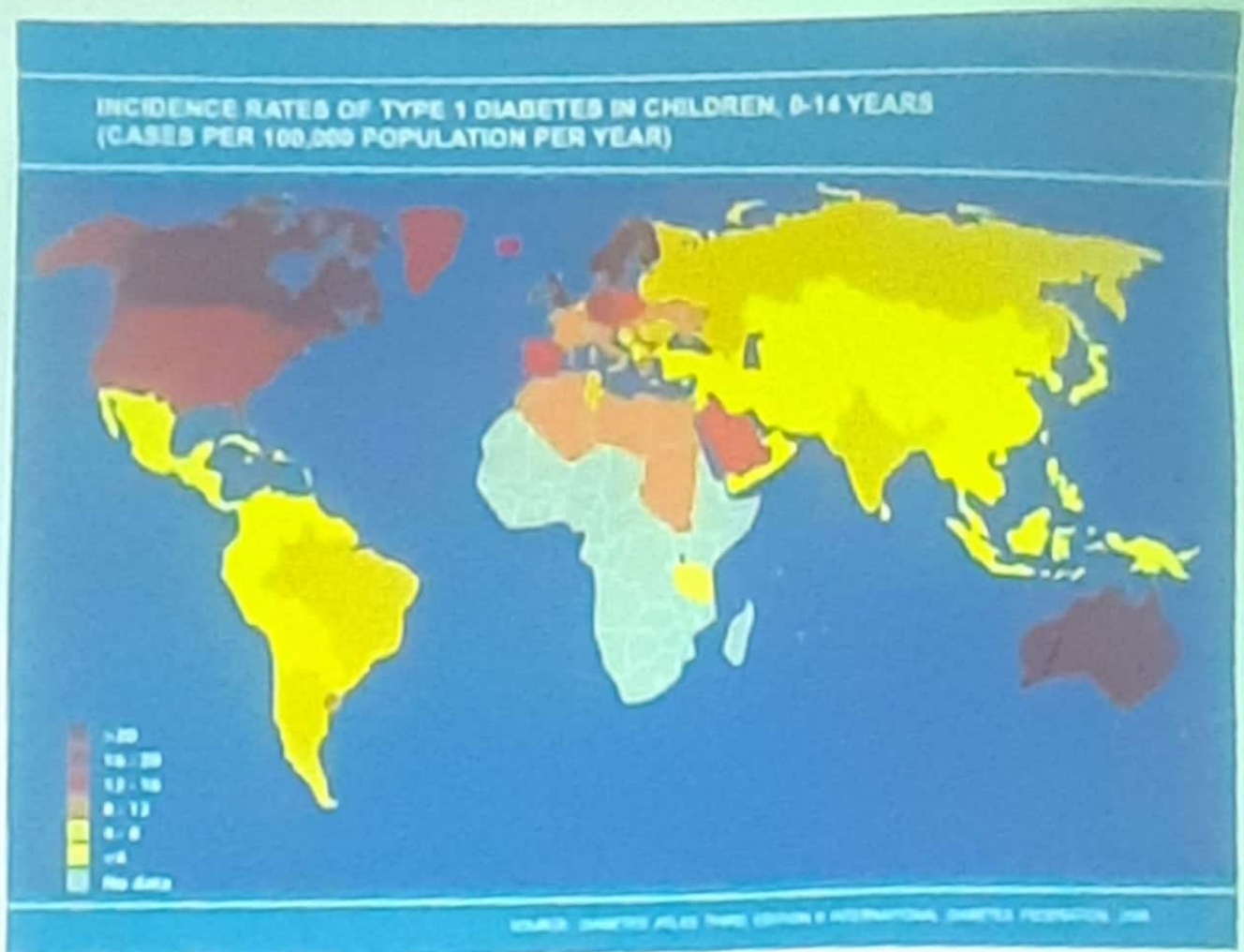
Due to an autoimmune damage of the pancreas!

INCIDENCE RATES OF TYPE 1 DIABETES IN CHILDREN, 0-14 YEARS
(CASES PER 100,000 POPULATION PER YEAR)



SOURCE: DIABETES ATLAS THIRD EDITION & INTERNATIONAL DIABETES FEDERATION 2006

EPIDEMIOLOGY



Insulin is our most important anabolic hormone!

Saving , storing and building

- Carbohydrates

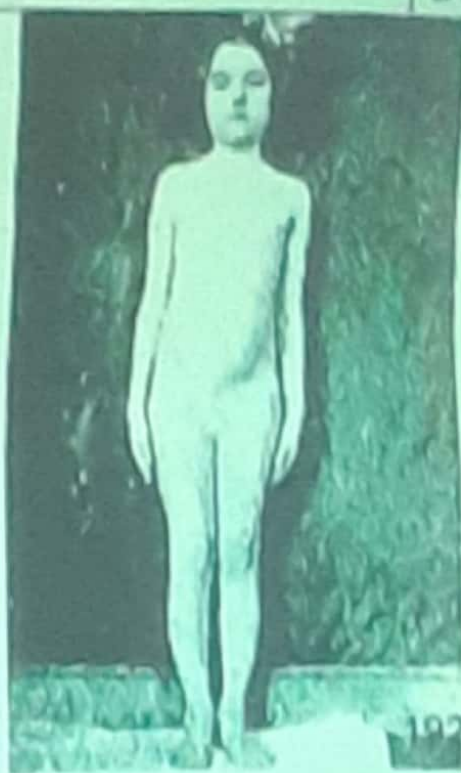
- Fat

- Proteins

Why is insulin so important?

Without insulin

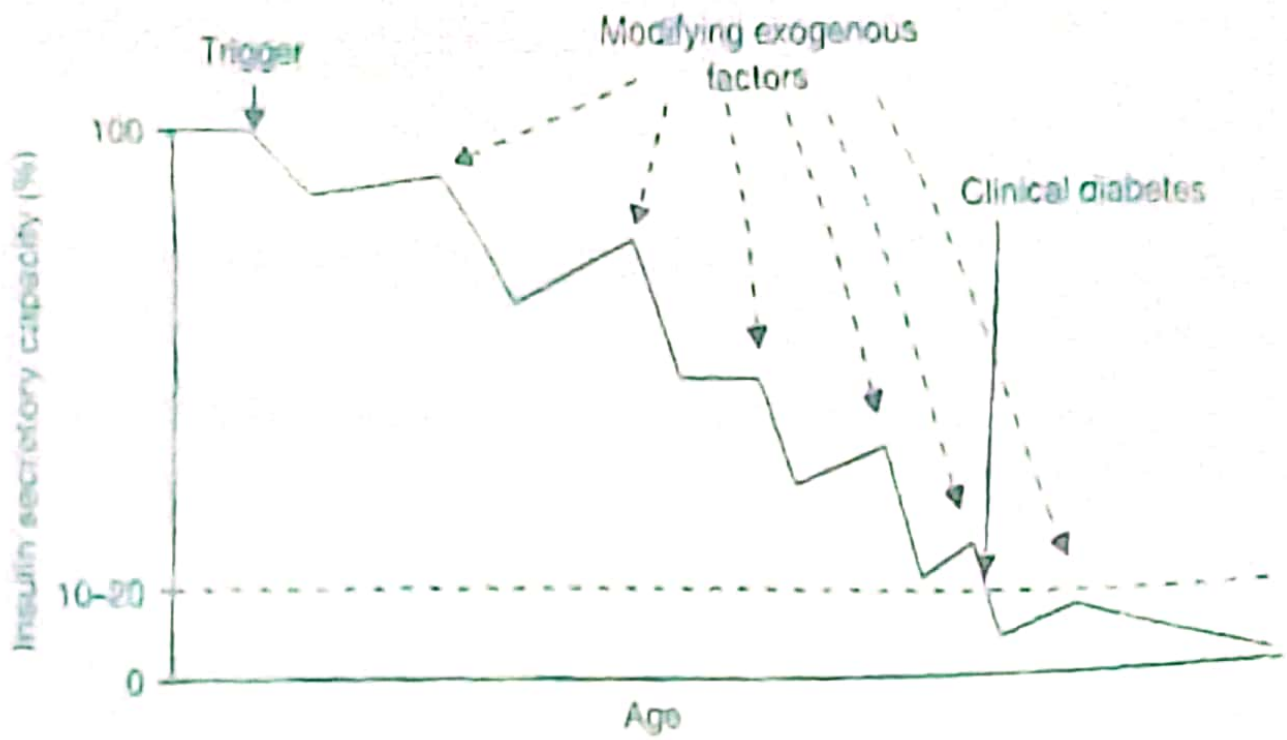
With insulin



Before and after pictures of a 1922 patient of Dr. H. B. Coe, Jr., showing the effect of insulin on the body of a diabetic.

1922!!

The same to-day



Driving antigen



β -Cell autoimmunity



Genetic susceptibility



