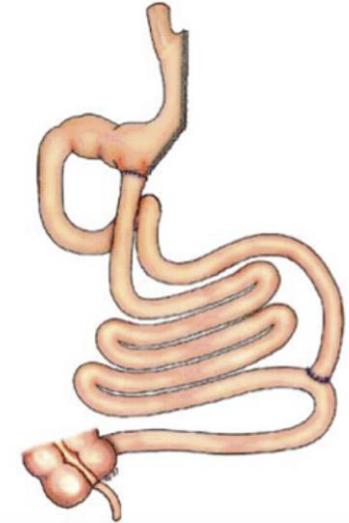


Transit bipartition and intestinal glc absorption



François Pattou

Department of Endocrine and Metabolic Surgery , CHRU Lille

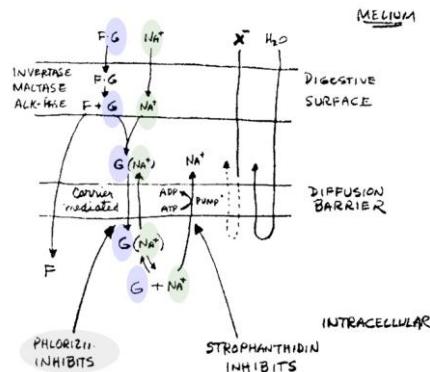
UMR1190 Translational Research in Diabetes , INSERM - Univ Lille

European Genomic Institute for Diabetes, Lille, France

Intestinal glucose absorption

oral Fluorodeoxyglucose / TEP

Sodium-glucose co-transporter 1



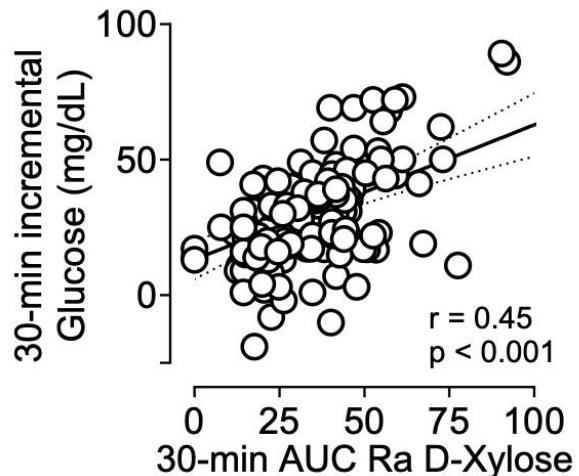
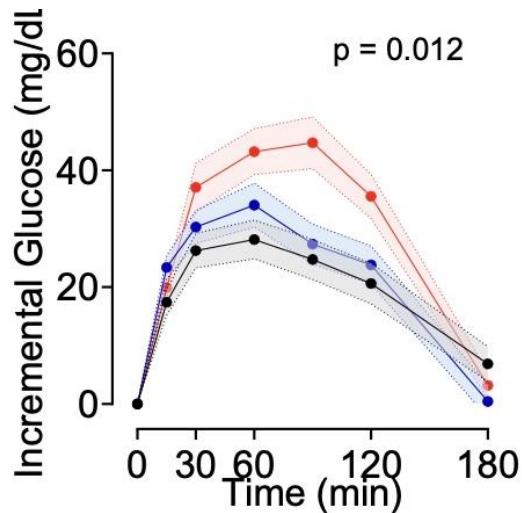
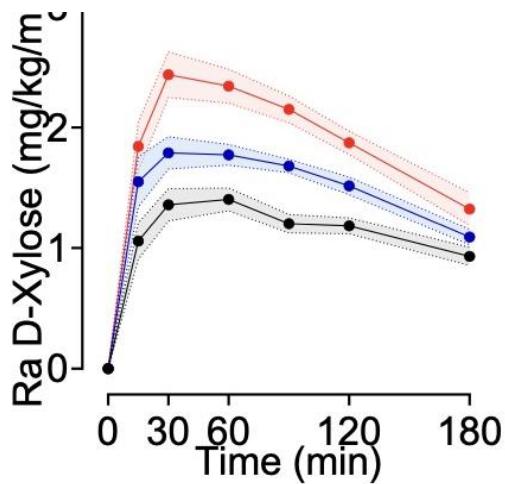
Bob Crane 1960

Lorea Zubiaga et al. *iScience* 2023



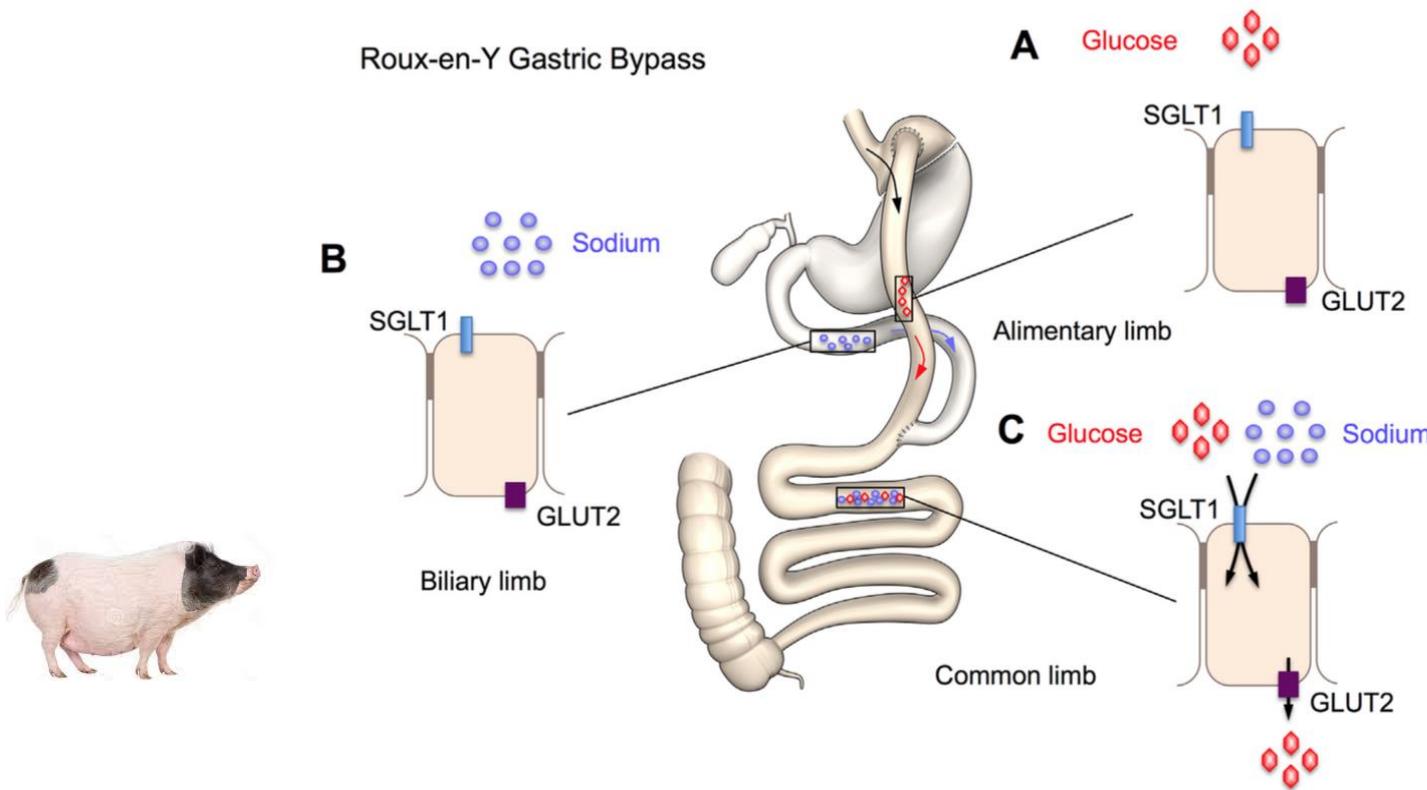
D-Xylose is a biomarker of glucose absorption

Mixed meal Xylose test in 130 patients



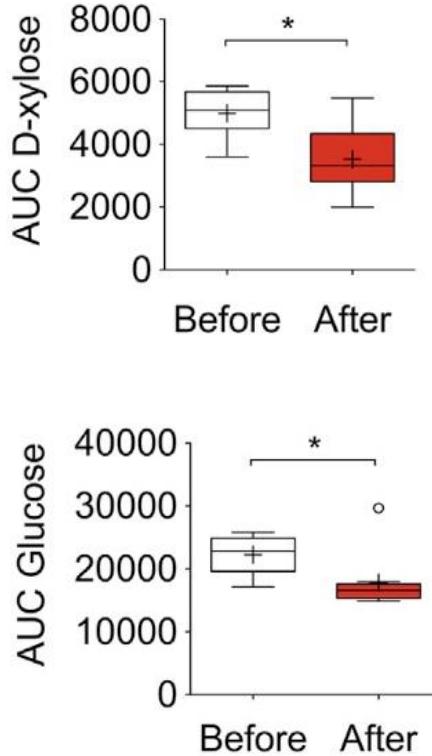
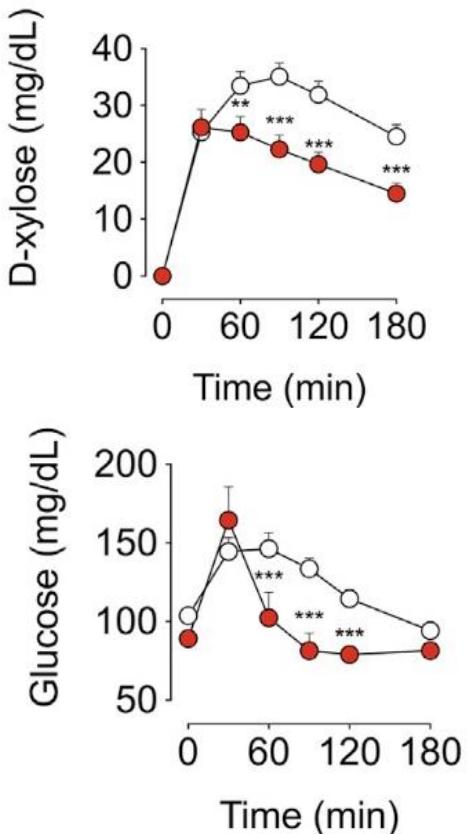
(Goutchtag et al (submitted))

Glc is only absorbed in the Common limb



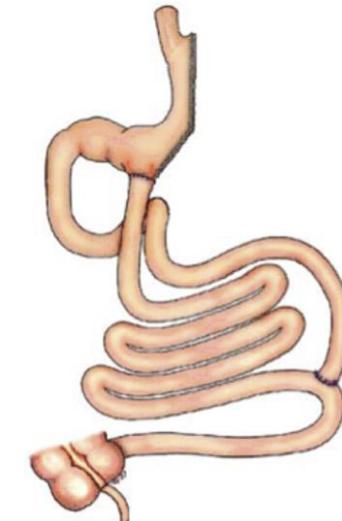
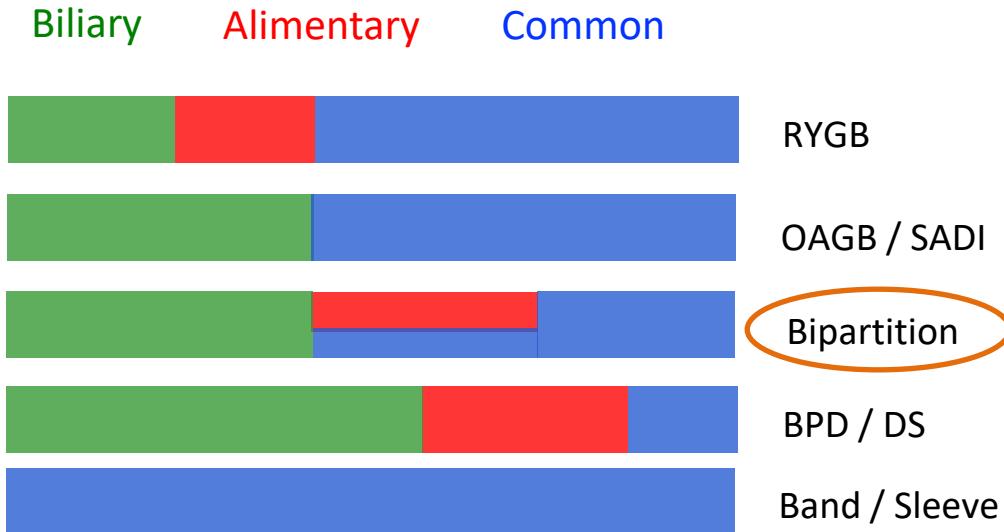
RYGB reduces intestinal glc absorption

Mixed meal
Xylose test
(n=9)



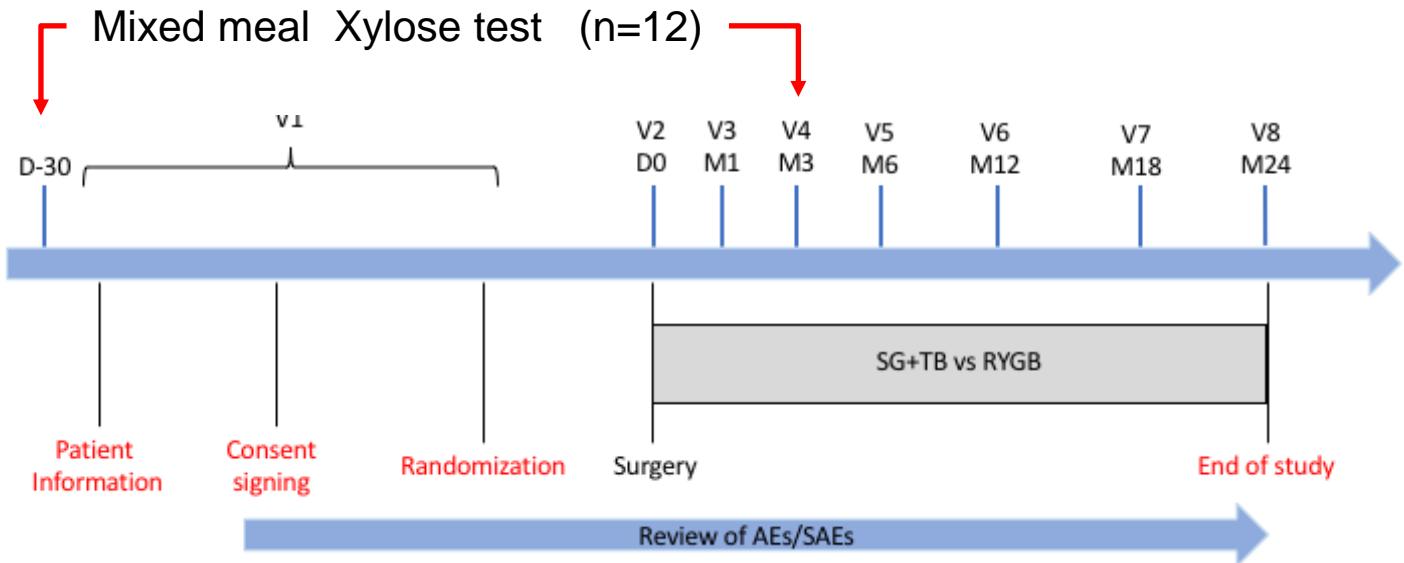
Gregory Baud et al.
Cell Metabolism 2016

Surgical gastrointestinal diversion(s)



BIPASS - Transit bipartition vs RYGBP (RCT)

Robert Caiazzo (PI)

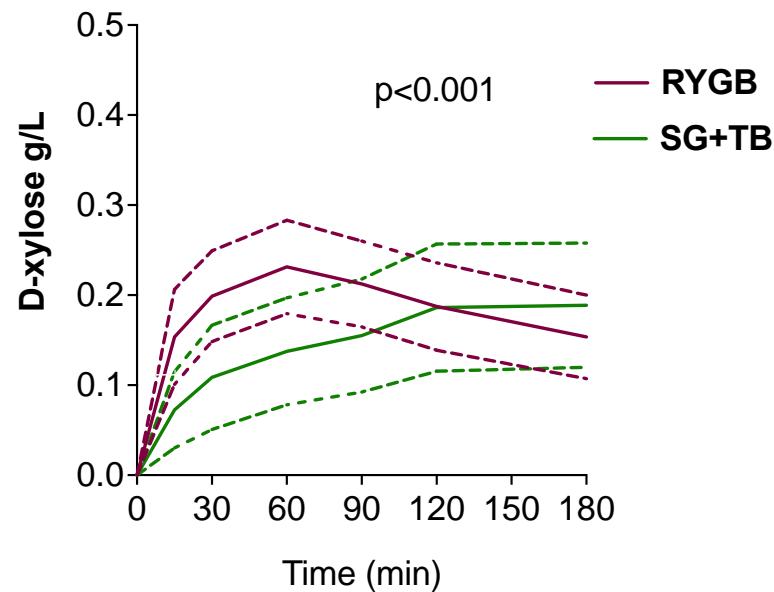
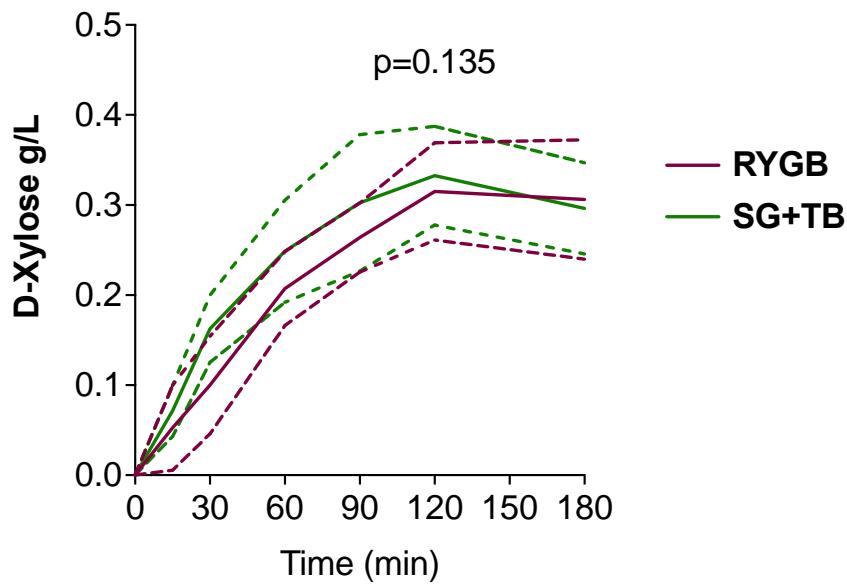


Mixed meal test : Xylose

Before surgery

(n=6 per group)

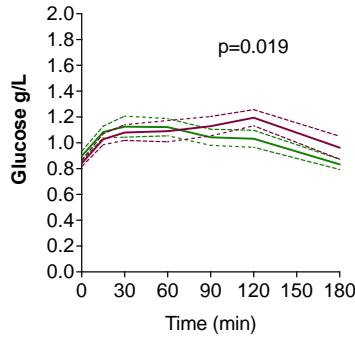
After surgery



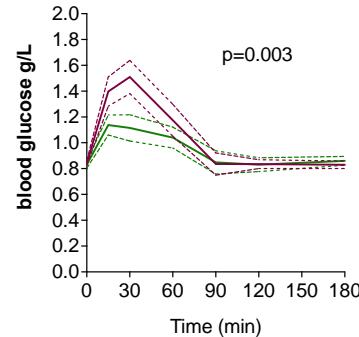
Mixed meal test : Glc response

Blood glucose

Before surgery

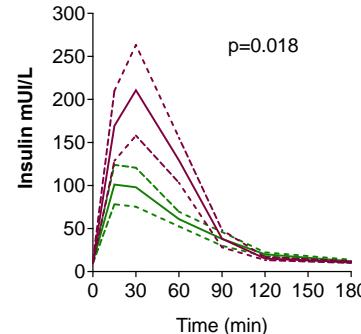
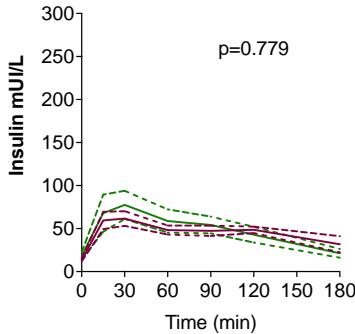


After surgery



— RYGB
— SG+TB

Plasma insulin



Transit bipartition reduces intestinal glucose absorption

