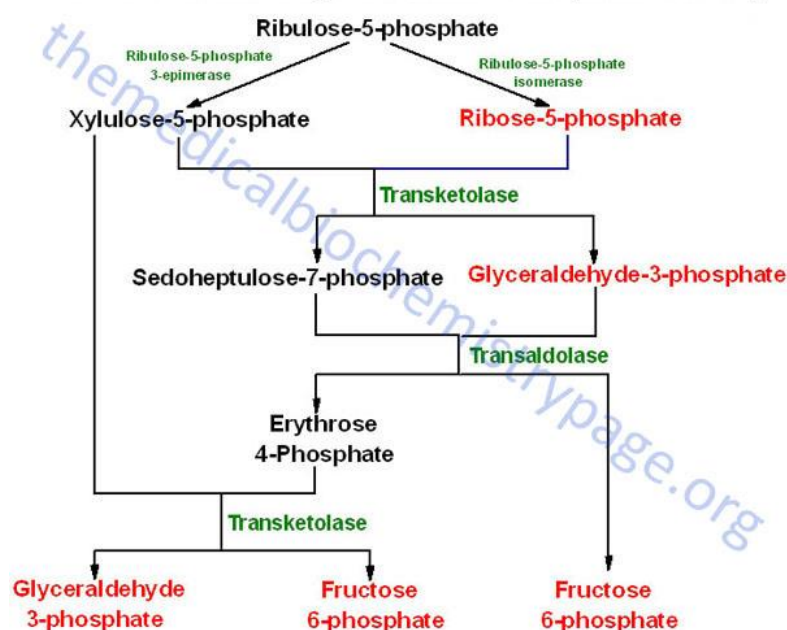


Non-Oxidative Stage of Pentose Phosphate Pathway



Regulation of Pentose Phosphate Pathway

- The entry of glucose-6-phosphate into the pentose phosphate pathway is **controlled by the cellular concentration of NADPH**
- NADPH is a strong inhibitor of glucose 6-phosphate dehydrogenase
- As NADPH is used in various pathways, inhibition is relieved, and the enzyme is accelerated to produce more NADPH
- The synthesis of G6PD is induced by increased insulin/glucagon ratio after a high carb meal.