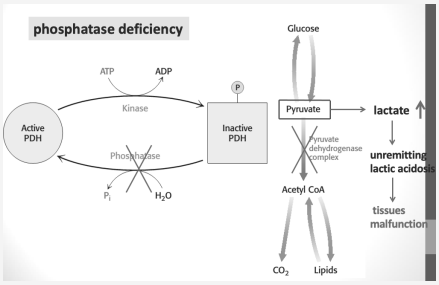
Disruption of TCA cycle may cause health issue



phosphatase deficiency

pyruvate dehydrogenase is always phosphorylated and thus inactive.

Consequently, glucose is processed to lactate rather than acetyl CoA.

This condition results in unremitting lactic acidosis—high blood levels of lactic acid.

. In such an acidic environment, many tissues malfunction, most notably the central nervous system.

Nausea,Vomiting,Abdominal pain,Anxiety...

Summary

Pyruvate Dehydrogenase Links Glycolysis to the Citric Acid Cycle

Oxidative decarboxylation, from pyruvate to acetyl CoA, Mt

The Citric Acid Cycle Oxidizes Two-Carbon Units

8 steps, 3 irreversible steps, 3 NADH, 1 FADH2, 1 ATP, 2 CO2

Entry to the Citric Acid Cycle and Metabolism Through It Are Controlled

PDH, isocitrate dehydrogenase, alpha-Ketoglutarate dehydrogenase

The Citric Acid Cycle Is a Source of Biosynthetic Precursors

Citrate, alpha-ketoglutarate, succinyl CoA, oxaloacetate

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