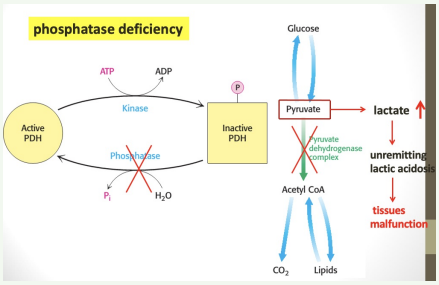
## Disruption of TCA cycle may cause health issue




## phosphatase deficiency

pyruvate dehydrogenase is always phosph-orylated 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-Ket-oglutarate dehydrogenase**

The Citric Acid Cycle Is a Source of Biosyn-thetic Precursors

**Citrate, alpha-ketoglutarate, succinyl CoA, oxaloacetate**

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