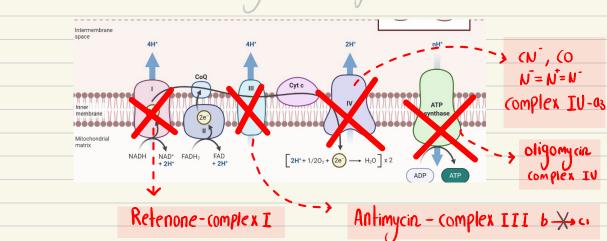
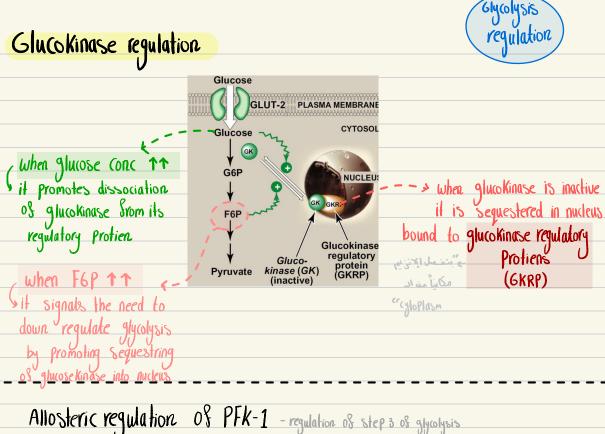
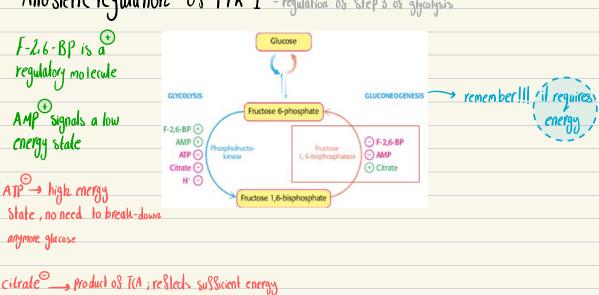


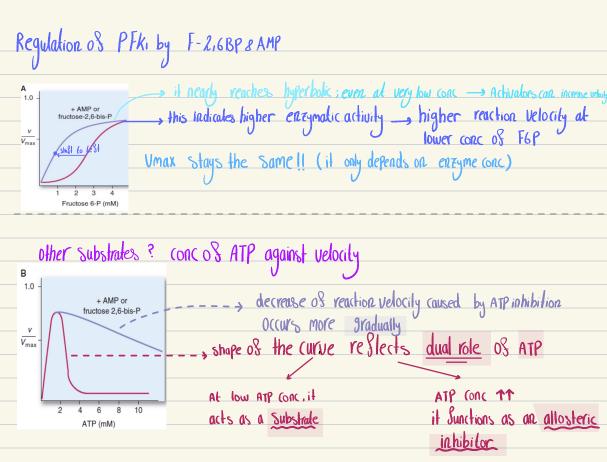
> FTC inhibitors - to verily correct arrangement of ETC components

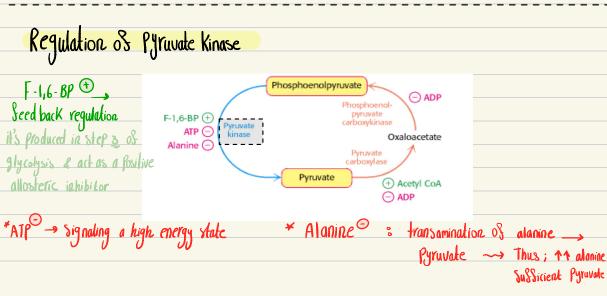


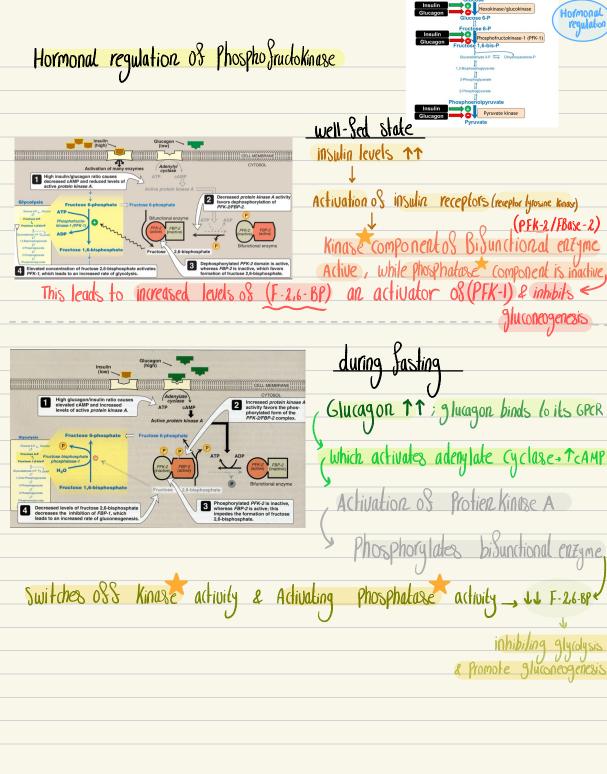
| | | | | 40 | 2 |
|-------------------------------------|--|--------------------------|---|--|------|
| | Inhibitor | Target Complex/Component | Mechanism of Action | Effect on ETC | Dars |
| | Rotenone, Amytal | Complex I | Blocks electron transfer from NADH to Coenzyme Q (ubiquinone) | Stops the NADH pathway, but the FADH₂ pathway (via Complex II) remains functional. | |
| l ofe: ome iahibifors | Antimycin A | Complex III | Blocks electron transfer from cytochrome b to cytochrome c ₁ | Prevents both NADH and FADH ₂ pathways, stopping electron flow past Complex III. | |
| ion be used Sor Concer Treatment | Cyanide, Azide, and Carbon Monoxide | Complex IV | Inhibit cytochrome a ₃ , preventing oxygen reduction | Completely halts the ETC by blocking oxygen as the final electron acceptor, stopping all electron flow. | |
| z iyanoglycosides | Oligomycin | Complex V | Inhibits ATP synthase, preventing proton flow through the enzyme | Halts ATP synthesis by preventing proton gradient utilization, indirectly slowing the ETC. | |
| | ins (misonomer B17) | | | | |
| s in Oxida | tive Phosphorylali | on , Most | important Sactor in | r determing rate - | → AD |
| 5 Respir | atory control or | acceptor con | frol | | |

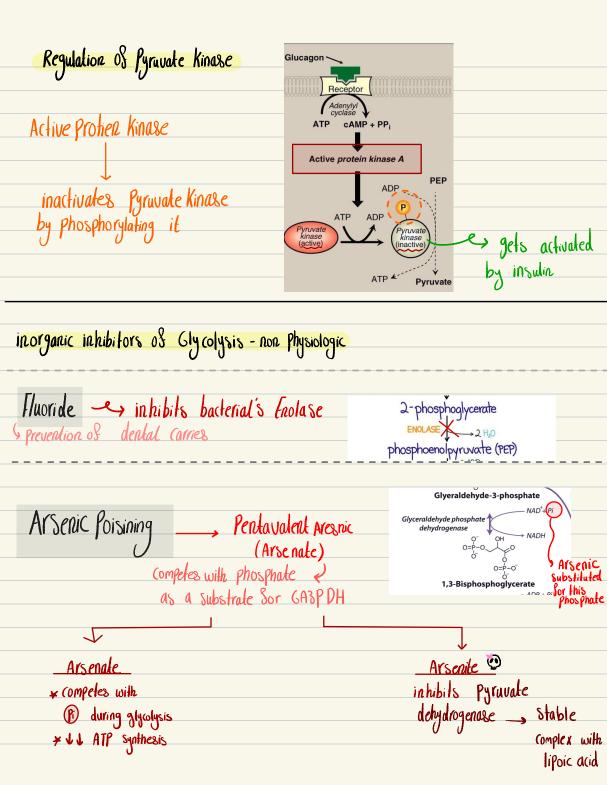


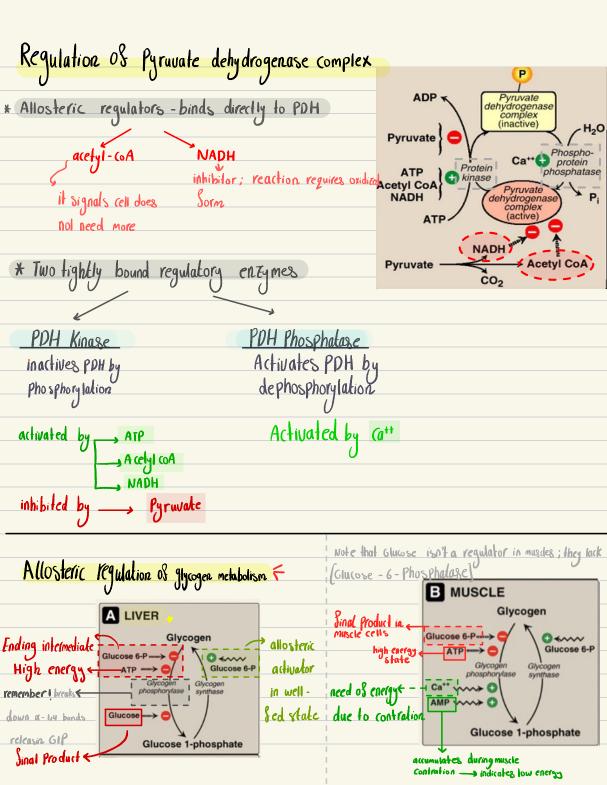


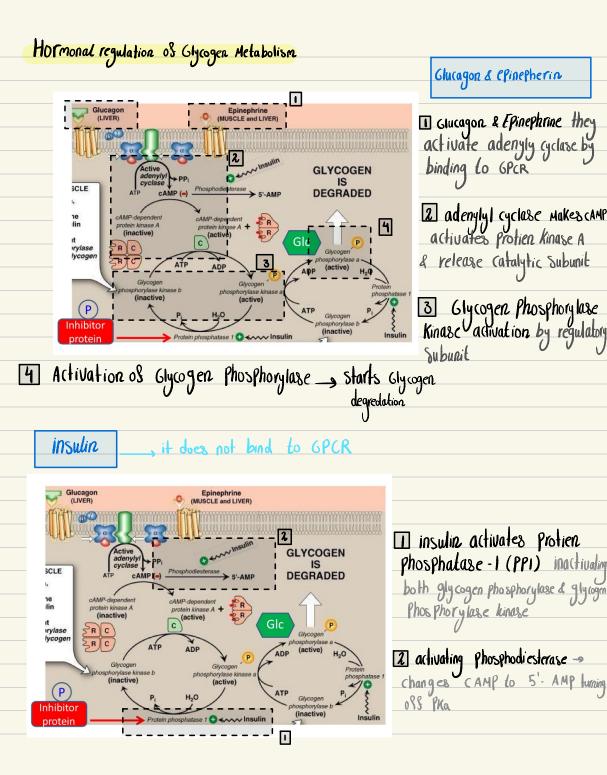


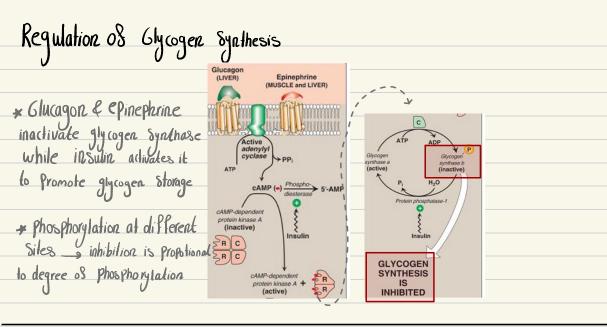




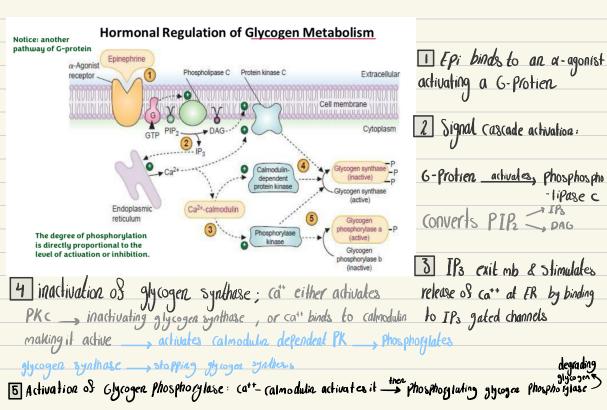


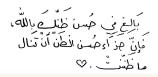


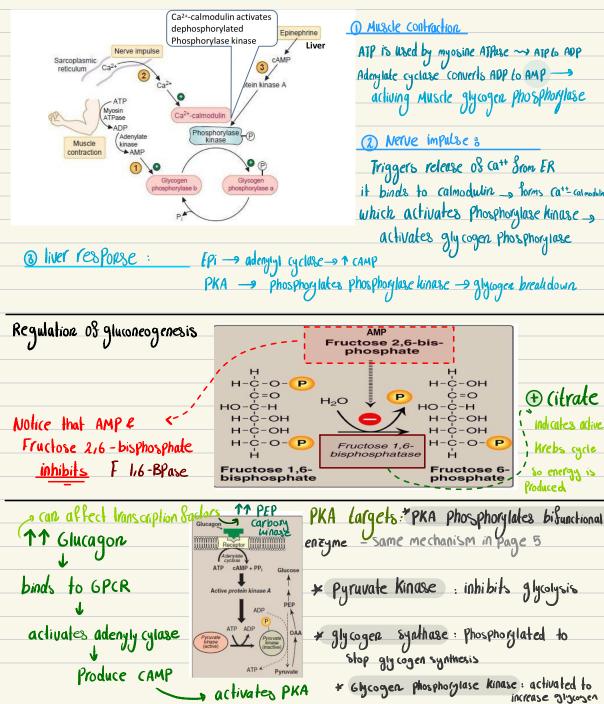




E Pine Phrine







Regulation of gluconeogenesis - 2.1-* availability of Glucogenic Substrates * Synthesis 08 enzymes, increasing their conc & decreasing their degredation all assect gluconeogenesis & regulates it Pyruvate Carboxylase & PEP Carboxykinase regulation Phosphoenolpyruvate O ADP F-1,6-BP (+) ATP (-) Pyruvate kinase Oxaloacetate Pyruvate Omes from degrading fatty acids

ادعولي): ۷ ا ن*عسي و* لمن حولي بالا