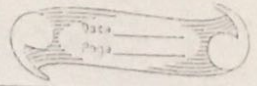


ALP



Function

it is not @ly in liver, bone, intestine, placenta.

- Calcification on Bone
- Lipid transport in intestine

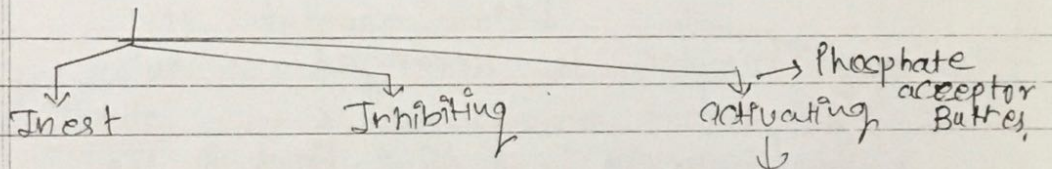
⇒ 4 loci → 4 Isoenzyme → Many Isoform
diffusing in carbohydrate structure

→ Zn → tightly bound constituent metal
 Mg²⁺ → required for binding \bar{c} phosphate

→ IF Zn²⁺ in higher amount → it displace Mg²⁺ ion → so inhibitor.

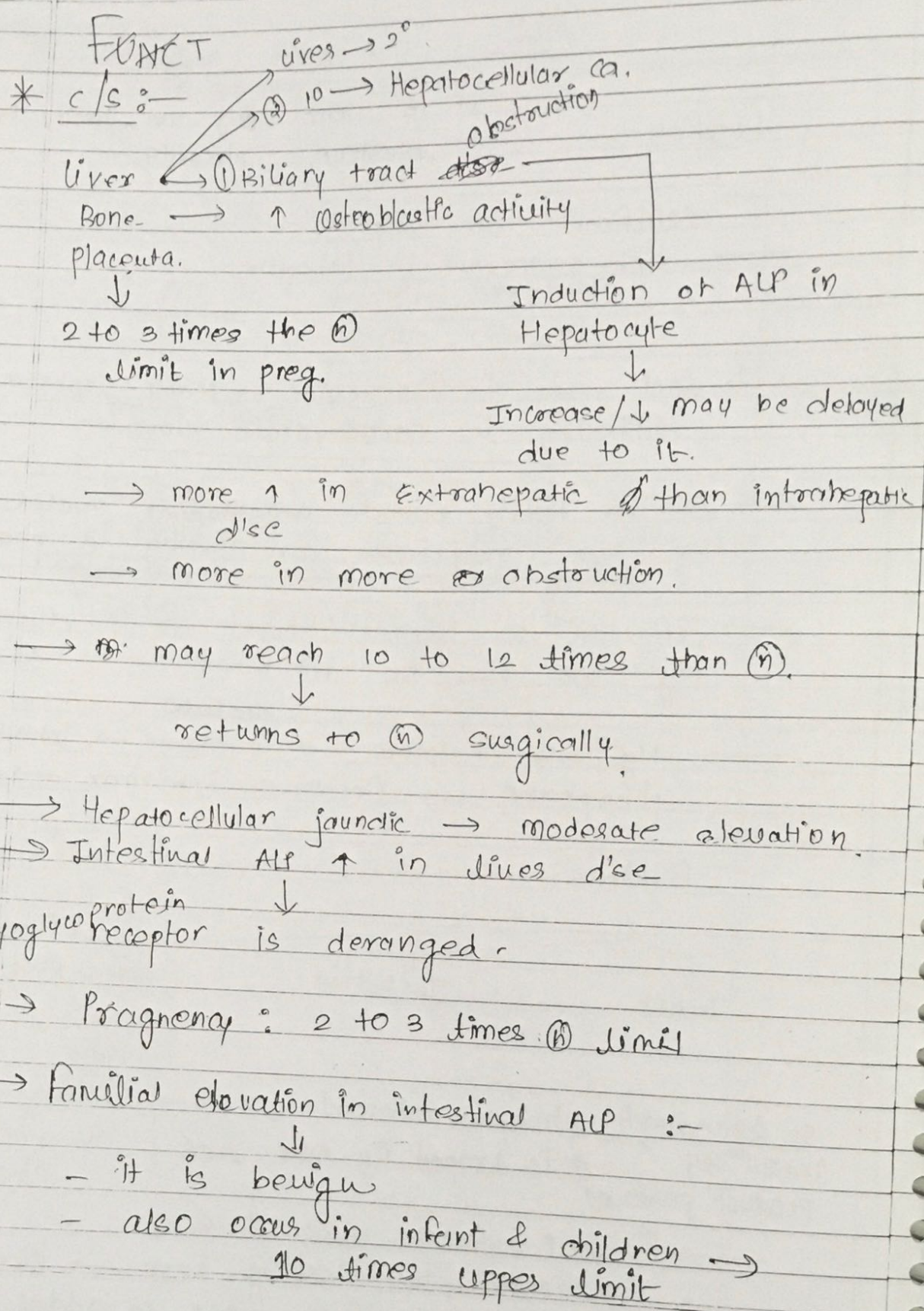
→ Mg²⁺ → chelators → oxalate → inhibitor
 phosphate → feedback inhibition → ALP

Buffers



so feedback Inhibⁿ By product prevented ← phosphate released @ is trapped By AMP, DEA
 AMP Tois
 DEA
 By removing phosphate

- (n) ALP from liver & bone
- measured in fasting sera → B'cz after meal intestinal ALP is added.



↓
This such benign elevation may be due
to alteration glycosylation.

→ Malignant dse

→ lives → 10
→ lives → 20

→ Bone → 1° & 2°

→ Cancers in general by
derepression of placental gene

nonplacental gene

* Methods :-

IFCC :- recommended method contains $Mg^{2+} + Zn^{2+}$

Hydroxyethyl AEDTA → binds loosely to Zn^{2+}

↓
if high Zn^{2+} it binds & if low
it release Zn^{2+}

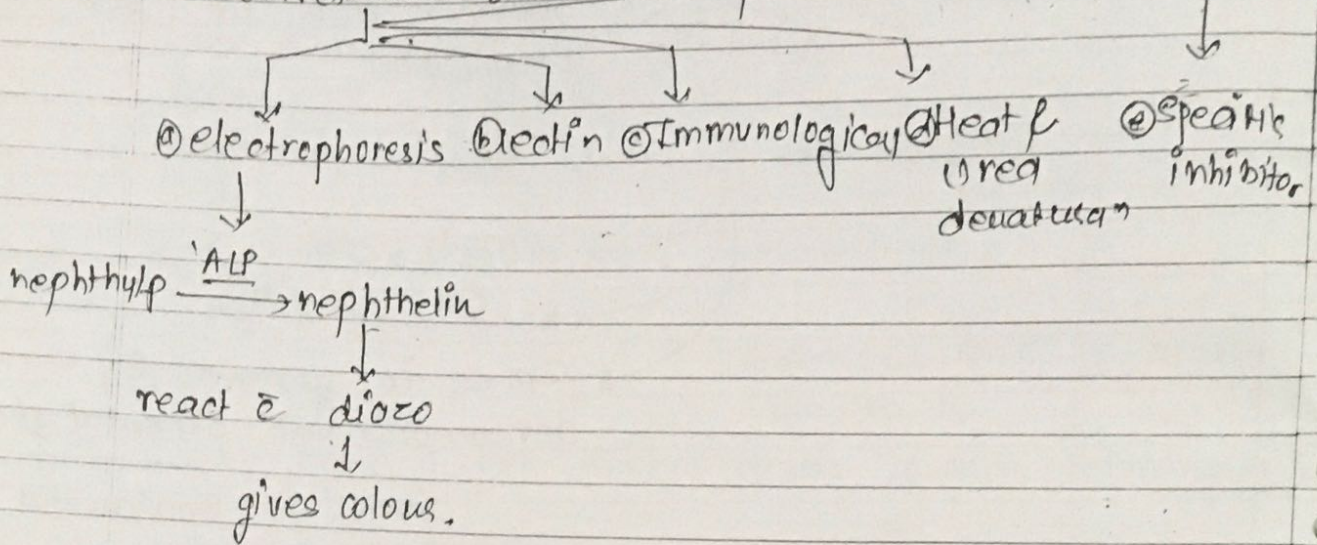
* Bld using Citrate

→ ~~the~~ citrate traps Mg^{2+} &
interfere measurement
↳ so ask about blood transfusion.

* frozen & lyophilized → kept for 1 day
before investigation.

* Isoenzyme :-

→ differentiation done by



* Bone isoform :-

→ Bone & liver → isoform → separation → difficult ↓

as they are structurally similar

→ Mass based method } are there
activity based method }

→ METHOD

