* Numbering Chole SH10) a



1) the size of oth (Cz) z) where the fail begin. (22-27) 3) 4 Finals (3 Six membered rings 4) the site of touble bond * based on this system the enzymes took their numes

Steroidogenesis



* The type of enzymes * The onecrions -The 1st step (remove the four) ~> the four isocarboaldelyphe

- 17 x rychro milase - bychro milare C 17.

Me

Comes

-3 beror phyclic an steroid defuldrogenase (prechuerolane -> progestion) Concel 10100 of Cz instruments isometrization of clouds bound -progestation can act independently * CONVERT Progestrum to cortisol => 1) iz & hydroaulase must be transported to untochandling - [b] 11 - depany cornisal - hydromylate CII - a) Corrico Steron - mito chovalial enzyme. D) Corrisol (glucocornicoid) * Aldosteron synthesis Corricosteron Aldosteron synthese end with Machyole 1) hydroxyldiion of (18 2) anyddiion of (18 * Contrisol and aldostration and Neaderral. det ivelependlenning in liver. * Development of sea hormous Dure need two progestron (17 x hydroan progestrong dual 17 x hydroan progestrong dual 17 x hydroan 2) 17-20 lucise use the obligroup on City to remove the Keton group attached to the City (this enzyme has arrivity like to undromytaise) to produce DNEA and androstenicione) the 1st two androgens.

Steroidogenesis



- **CYP11A1** = Cholesterol side-chain cleavage enzyme
- CYP17A1 = 17α-hydroxylase/17,20lyase
- CYP21A2 = 21-hydroxylase
- CYP11B2 = 11β-hydroxylase
- **CYP18B2/18-HSD** = Aldosterone Synthase
- CYP19A1 = Aromatase
- Some steroids such as cholesterol, DHEA, and estrone can be sulfated at the 3β by PAPS-dependent sulfotransferases.

* In progestion -> Freton tail on C12, In androyeus -> No !!

3) 3 B MSD which will origize ND HEA into androsterictions 2) androsteridion into testerteron

N)/7 BUD 1) and to stenichion e for testesteron z) OHEA for andisenichal

5) 5 x reductore testesteron reduction Dimphotostesteron

How Co Viennering of (=) most potent <-How Co Viennering of (=) omorrowen M

this process increase the potent

* EStrogen Suprithesis (hydronylation of /mards HAVE Cz, CONVENT A vivor to Avonatic









