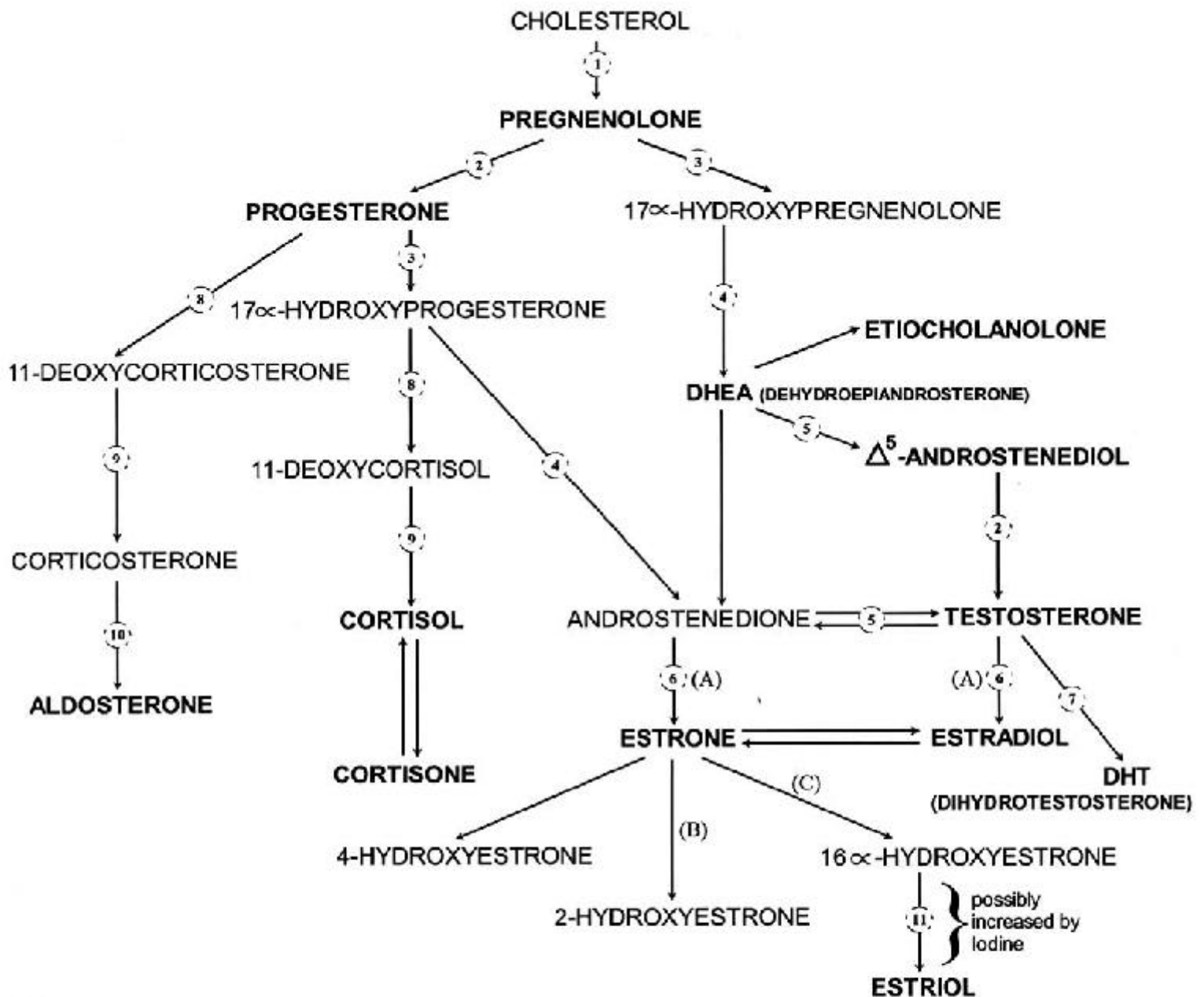


STEROID HORMONE METABOLISM



ENZYMES

- 1 Cholesterol side chain cleavage (CSCC)
- 2 3 β -Hydroxysteroid Dehydrogenase (3 β -OHD) AND $\Delta^{5,4}$ Isomerase (reside on same protein)
- 3 17 α -Hydroxylase **
- 4 C17,20 - Lysase **
- 5 17 β -Hydroxysteroid Dehydrogenase (17 β -OHD)
- 6 Aromatase
- 7 5 α -Reductase AND NADPH
- 8 21-Hydrolase
- 9 11 β -Hydroxylase
- 10 18-Hydroxylase AND 18-Hydroxydehydrogenase
- 11 16 α -Hydroxylase

**** NOTE:** 17 α -Hydroxylase and C17,20 - Lysase activities reside on a single protein (designated P450_{C17})

(A) Inhibited by Chrysin

(B) Increased by cruciferous vegetables (Indole-3-Carbinol) and flaxseed

(C) Decreased by cruciferous vegetables (Indole-3-Carbinol) and flaxseed

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