

Precocious puberty

Definition: Girl who exhibit 2° sexual characteristics before the age of 8 or ~~menstruate~~ menstruate before the age of 10.

most Etiology:

- idiopathic
- GnRH dependent
 - constitutional - (m.c)
 - Juvenile hypothyroidism
- Premature ~~to~~ thelarche
- Premature puberche
- GnRH independent (Excess estrogen or androgen)
 - ✓ Tumour - granulosa cell tumour, theca cell tumour
 - ✓ Macune - Albright Syndrome
 - ✓ Adrenal hyperplasia.

Types:

1. Central precocious puberty:

- premature activation of HPO axis

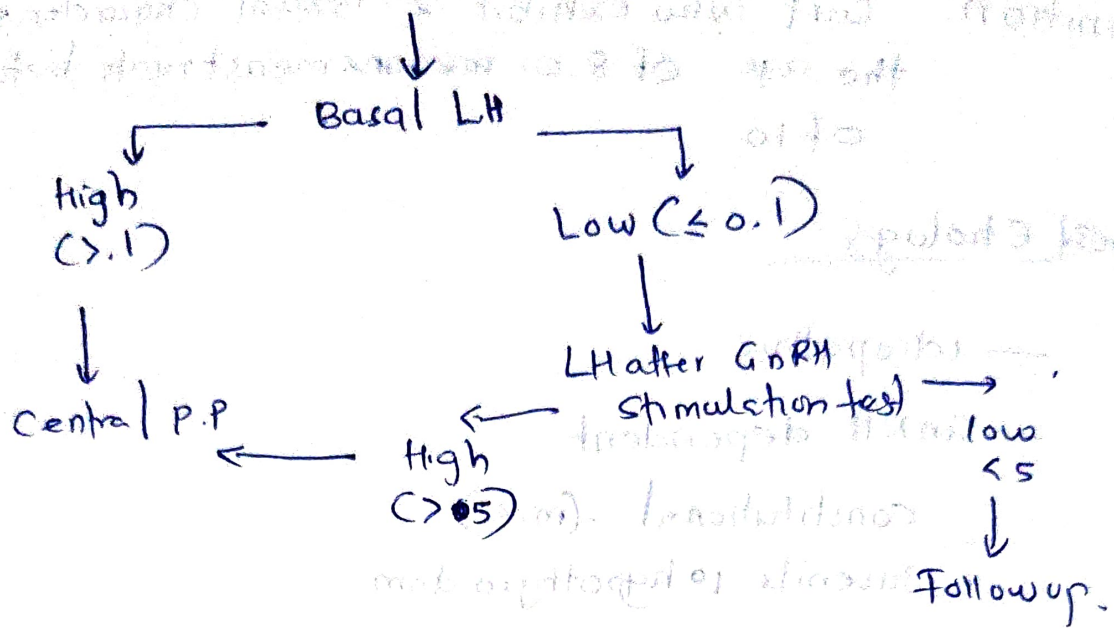
2. Peripheral precocious puberty

- no activation of HPO axis, but excess sex hormones

Evaluation of P.P

- clinical - McCune - Albright
 - ↳ cystic bone lesion
 - café-au-lait spot in skin

Suspected pubertal
sign in girl < 8yr



Treatment.

- * GnRH agonist eg: ~~leuprolide~~ (Buserelin, Nafarelin) (feed back inhibition)
→ for central P.P.
- * Any tumour → radiotherapy, surgery
- * Cushing's → Adrenal Hyperplasia