

## *IHMM*

*CDGP*

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# Latest Version: 6.0

## Question: 1

- 1) Hypergonadotrophic hypogonadism
- 2) Hypogonadotrophic hypogonadism
  
- A. Normal variants of precocious puberty
- B. Role of lh in male puberty
- C. Categorisation of Precocious puberty
- D. Categorisation of delayed puberty

**Answer: D**

## Question: 2

Made in ovaries

IN girls:

- 1) Causes pubertal growth spurt
- 2) Matures epiphyses (limiting longitudinal growth)
- 3) Increases uterine growth (to get to a size where it could carry a pregnancy)
- 4) Increases BMD
  
- A. Role of testosterone in boys during puberty
- B. Role of oestrogen in girls during puberty
- C. Role of FSH in female puberty
- D. Role of testosterone in girls during puberty

**Answer: B**

## Question: 3

Testicular volume of less than 4mls in a boy of 14 or more

- A. of Precocious puberty in girls
- B. of Precocious puberty in boys
- C. of Delayed puberty in girls
- D. of delayed puberty in boys

**Answer: D**

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### Question: 4

Low FSH and Low LH

- Poor messaging
- This means that the gonads are not receiving any signals/ enough signals = pubertal growth will not occur

- A. Hyperthyroidism
- B. Hypogonadotrophic hypogonadism
- C. Menopause
- D. Anabolic steroid use

**Answer: B**

### Question: 5

Breast stage 2 in a girl under the age of 8

- Will have the development of breast bud, with elevation of papilla and enlargement of areolar diameter

- A. Role of Lh in female puberty
- B. of delayed puberty in boys
- C. of Precocious puberty in boys
- D. of Precocious puberty in girls

**Answer: C**

### Question: 6

- Adrenarche
- Secondary CPP
- Congenital Adrenal hyperplasia
- GIPP (More common in boys)

- A. Role of oestrogen in girls during puberty
- B. of delayed puberty in boys
- C. Aetiology of precocious puberty in boys
- D. Sequence of pubertal events in boys

**Answer: C**

### Question: 7

Long acting GnRH agonists (GnRH analogs - switch off gonadotrophins)

- Because initially will cause a surge in LH and FSH release
- However over time will downregulate their release

- A. Influence of timing of puberty with Bone mineral density
- B. Aetiology of precocious puberty in girls
- C. Other ways of assessing puberty (non-staging techniques)
- D. Treatment of Gonadotrophin dependent precocious puberty

**Answer: D**

### Question: 8

- Can be a normal variation in puberty
- = Cause of Constitutional Delay in growth and puberty (CDGP = normal puberty but just late)

- A. Permanent hypogonadotropic hypogonadism
- B. Transient hypogonadotrophic hypogonadism
- C. of Delayed puberty in girls
- D. Sequence of pubertal events in girls

**Answer: B**

### Question: 9

Only around 2-3%

- So menarche is a good signal in women that growth has more or less finished

- A. After Menarche how much more linear growth will a female expect to undergo
- B. Treatment of Gonadotrophin dependent precocious puberty
- C. How can we get permanent hypogonadotrophic hypogonadism to become transient?
- D. Therapeutic intervention for CDGP in boys and girls

**Answer: A**

### Question: 10

- Oestrogen is a mediator of pubertal growth in both sexes
- Oestrogen comes from ovary in girls and is aromatised from testicular testosterone in boys
- Oestrogen has a direct effect on epiphyseal growth plate
- Oestrogen also has an indirect effect to increase GH secretion

## Growth Spurt

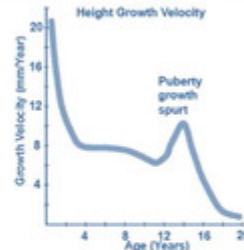
### *Complex interaction*

- Growth hormone
- Oestrogen (boys and girls)

*Earlier in girls - approx. 2 years*

### *Biphasic effect of oestrogen on epiphyseal growth*

- Low levels → linear growth & bone maturation
- High levels → epiphyseal fusion



- A. Role of oestrogen in girls during puberty
- B. Role of testosterone in boys during puberty
- C. Role of oestrogen in pubertal growth spurt
- D. Role of FSH in male puberty

**Answer: C**

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