

MEDICAL QUIZ ON ENDOCRINOLOGY

Adesiyun OO, Adeboye MAN

Department of Paediatrics, University of Ilorin / University of Ilorin Teaching Hospital, Ilorin, Kwara State, Nigeria

Correspondences and reprint request to: Dr Adeboye MAN, Department of Paediatrics, University of Ilorin / University of Ilorin Teaching Hospital, Ilorin, Kwara State, Nigeria. Email; adeboyeman@gmail.com Phone; +2348033841268

CHOOSE THE BEST OPTION

- A 3-week old neonate is admitted on account of vomiting of 5 days duration. Physical examination revealed severe dehydration, heart rate of 180 beats/min and ambiguous genitalia. Serum electrolytes were Na: 120mmol/L, K: 7mmol/L, HCO₃: 12mmol/L and Urea: 18mg/dL. What is the most appropriate step to take first?

 - Administer intravenous normal saline
 - Give hydrocortisone
 - Commence potassium exchange resin
 - Give fludrocortisone
- Which of the following is not a cause of secondary diabetes mellitus?

 - Cystic Fibrosis
 - Marfan's syndrome
 - Acromegaly
 - Hyperthyroidism
- Which of the following statements concerning Gonadotropin- dependent precocious puberty is correct?

 - It only occurs in boys
 - It is always iso-sexual
 - It is associated with small gonads
 - It is usually incomplete
- Which of the following is associated with congenital hypothyroidism?

 - baldness
 - macrocephaly
 - Large fontanelles
 - micrognathia
- Which of the following insulin analogues can be given once in 24hours?

 - Lispro
 - Determir
 - Aspart
 - Glulisine
- The manifestations of Cushing syndrome include all of the following except

 - Hyperglycaemia
 - Emotional lability
 - Hypertension
 - Tall stature
- Which of the following drugs is not associated with primary adrenal insufficiency?

 - Lithium
 - Ketoconazole

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- C. Phenytoin
D. Rifampicin
8. Which of the following is associated with karyotype 45XO?
A. Hypogonadotropic hypogonadism
B. Hypergonadotropic hypogonadism
C. Polycystic ovarian syndrome
D. Complete androgen insensitivity syndrome
9. Side-effects of Growth hormone therapy include all of the following except
A. Pseudotumour cerebri
B. Scoliosis
C. Diabetes insipidus
D. Gynaecomastia
10. Which of the following is a cause of disproportionate short stature?
A. Turners syndrome
B. Silver-Russell syndrome
C. Down syndrome
D. Achondroplasia
11. Which of the following children has delayed puberty?
A. A 14 yearold girl who is yet to attain menarche
B. A 14-year old boy yet to attain pubarche
C. A 14-year old boy with testicular size of 6ml
D. A 14-year old girl with no breast bud
12. A pituitary adenoma occurring in childhood is most likely to secrete
A. Growth hormone
B. TSH
C. ADH
D. FSH
13. Which of the following parameters is not consistent with a diagnosis of diabetes insipidus?
A. Serum osmolality of 400 mOsm/L
B. Serum sodium of 150 mEq/L
C. Water intake of 2.5L/m²/24 hr
D. Urine osmolality of 600 mOsm/L
14. Causes of excessive growth in the fetus include all of the following except
A. Maternal diabetes
B. Congenital adrenal hyperplasia
C. Beckwith-Weidemann syndrome
D. Sotos syndrome
15. Which of the following statements regarding Grave's disease is correct?
A. The age group commonly affected are pre-pubertal children
B. The disease is 5 times commoner in males than in females
C. The first manifestation in many children is hyperactivity
D. The ophthalmopathy is corrected by appropriate anti-thyroid medications
16. Clinical manifestations of hypopituitarism in neonates include all of the following except
A. Seizures
B. Prolonged jaundice
C. Microphallus
D. Hyperglycaemia
17. Which of the following enzyme deficiencies is not a cause of 46 XY, Disorder of Sex Development?
A. 21-hydroxylase
B. 17-hydroxylase
C. 5 -reductase
D. 3 -dehydrogenase
18. The following are risk factors for developing cerebral oedema in diabetic ketoacidosis except
A. Children below the age of 5years



- B. Use of bicarbonate therapy
 C. Calcium supplements
 D. Severe dehydration
19. Which of the following is NOT a cause of advanced bone age?
 A. Hyperthyroidism
 B. Growth hormone deficiency
 C. Congenital adrenal hyperplasia
 D. Hypothalamic hamartomas
20. Common manifestations of rickets in a 1 year old child include all of the following except
 A. Craniosynostosis
 B. Increased risk of pneumonia
 C. Delayed eruption of teeth
 D. Delay in walking

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SOLUTION TO THE QUIZ

Number	Best option		
1	A	11	D
2	B	12	A
3	B	13	D
4	C	14	B
5	B	15	C
6	D	16	D
7	A	17	A
8	B	18	C
9	C	19	B
10	D	20	A

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