

Pathophysiology lab questions

Laboratory evaluation of the disorders of the reproductive organs

1. The laboratory parameters of a 42-year-old man are: plasma prolactin and cortisol decreased, urinary 17-ketosteroid excretion is decreased, plasma prolactin level is not influenced by TRH. The administration of hCG increased the urinary excretion of 17-ketosteroids.
What is the possible diagnosis?

2. The laboratory parameters of a 19-year-old man are: plasma testosterone decreased, FSH and LH are elevated, urinary 17-ketosteroid excretion is decreased. The administration of hCG did not increase plasma testosterone level or the urinary excretion of 17-ketosteroids.
What is the possible diagnosis?

3. The laboratory parameters of a 42-year-old man are: plasma testosterone increased significantly, FSH and LH are barely detectable, urinary excretion of androgens are increased. The right testis is enlarged.
What is the possible diagnosis?