

**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-ketosteroids excretion are 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-ketosteroids excretion are 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?