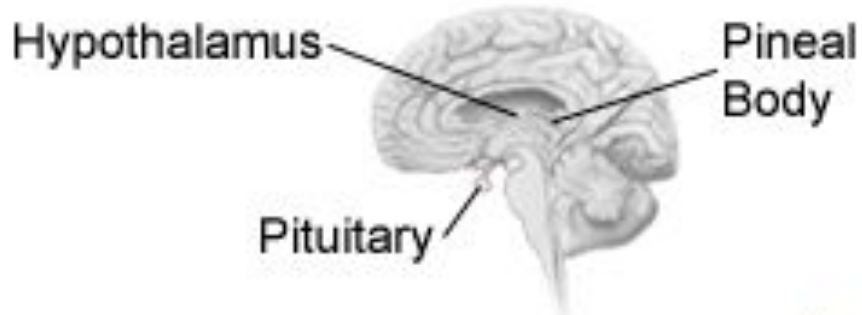
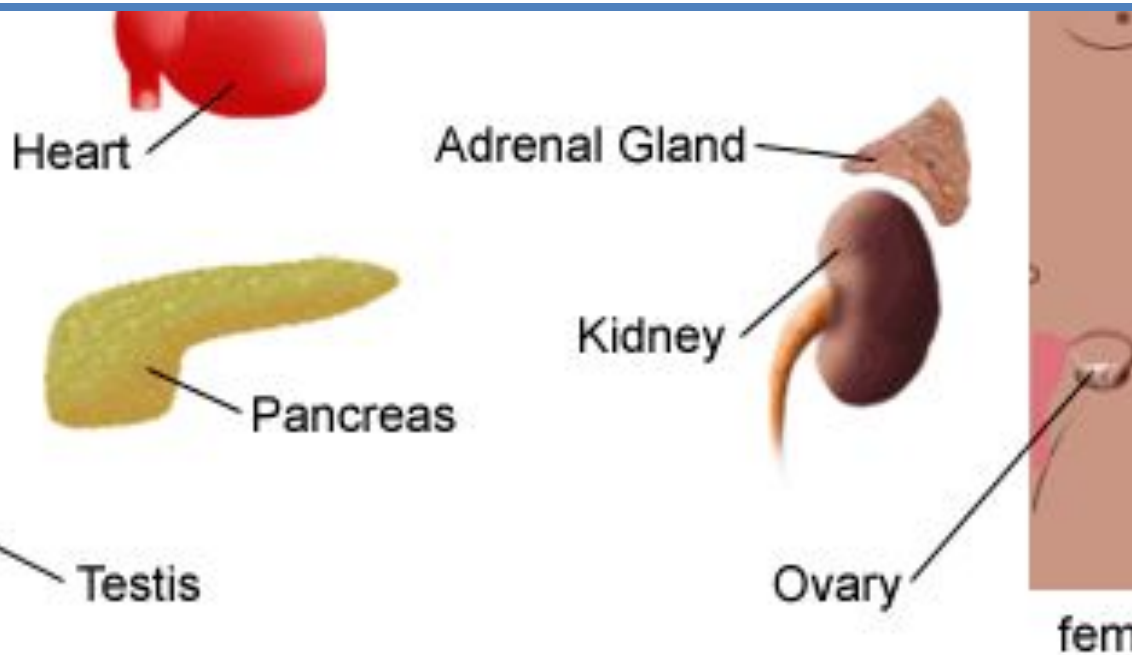


# Endocrine System



## ENDOCRINE GLANDS DISORDERS



# Endocrine system disorders

- Hyperfunction – overproduction of the hormone
- Hypofunction – there is not enough hormone

# Growth hormone

- Deficiency in childhood – dwarfism
- Excess amount in childhood – gigantism
- Oversecretion in adulthood – acromegaly





# Hypothyroidism

- It is called myxedema in adulthood
- The face swells and bagginess under eyes
- In childhood – cretinism.
- They are short and stocky



*Волосы сухие,  
грубые, редкие*

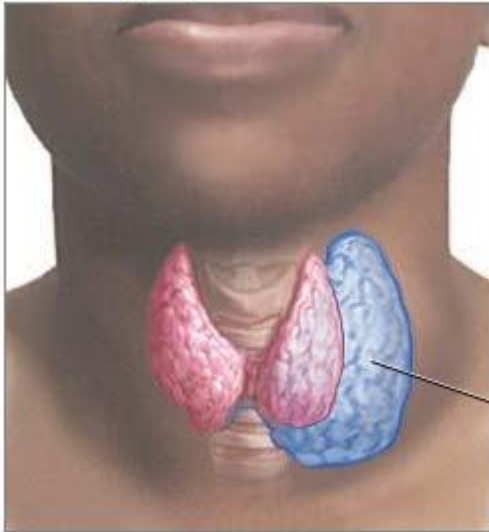
*Поредение на-  
ружной поло-  
вины бровей*

*Периорбиталь-  
ный отёк*

*Одутловатое  
нев्यразитель-  
ное лицо с сухой  
кожей*



Hyperthyroidism caused  
by thyroid adenoma



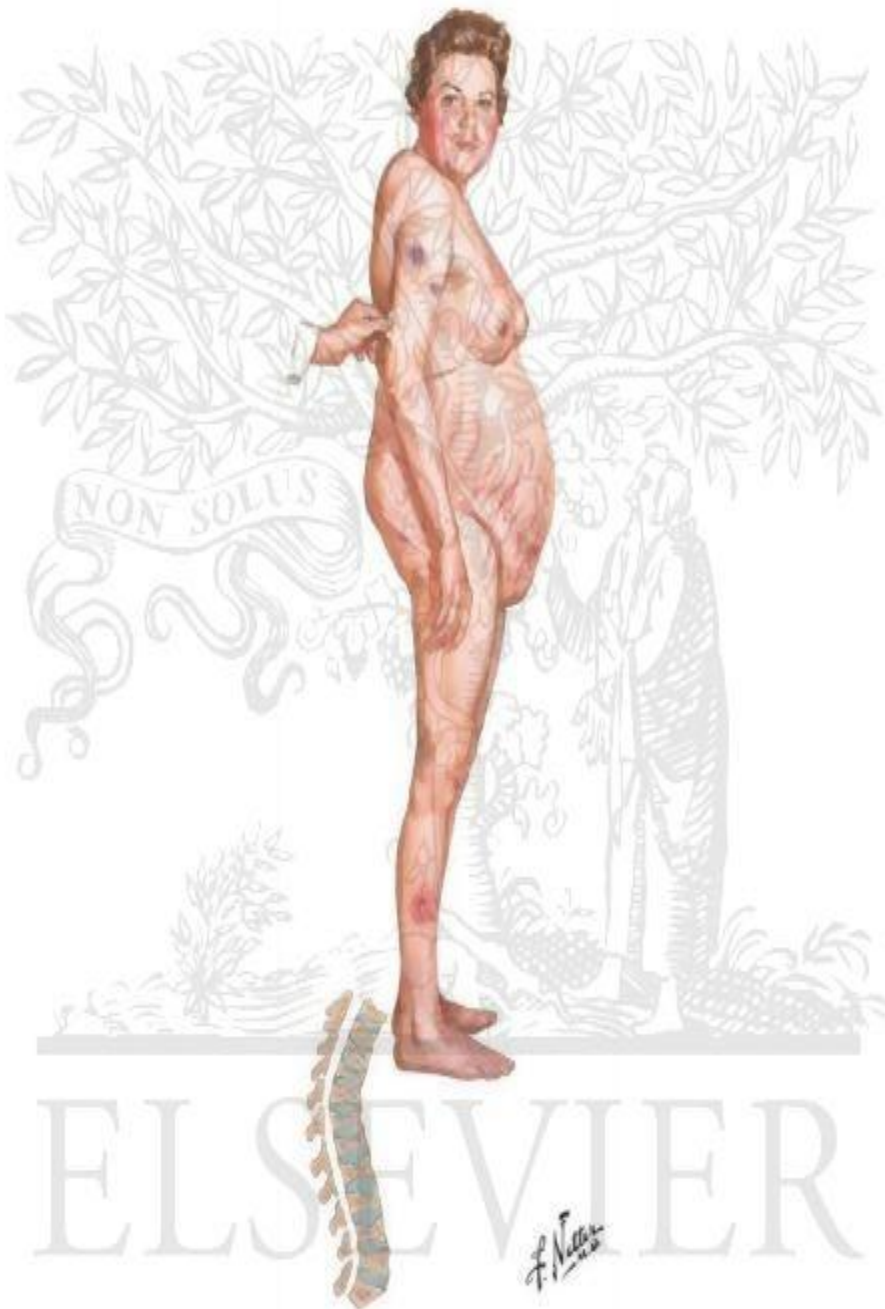
Hyperfunctioning  
thyroid (goiter)

ADAM.

# Hyperthyroidism

- Most pronounced symptoms are enlargement of gland (GOITER –food is insufficient for iodine) and bulging of eyeballs (EXOPHTHALMOS)





- If there is high level of cortisol – *CUSHING syndrome*
- Obese trunk and moon face



## ADDISON'S DISEASE

- Hypofunction of adrenal cortex
- Symps – bronzing of skin, hypoglycemia, etc.



# Diabetes mellitus

- There is not enough insulin.
- Normal glucose level – 80-100 mg