

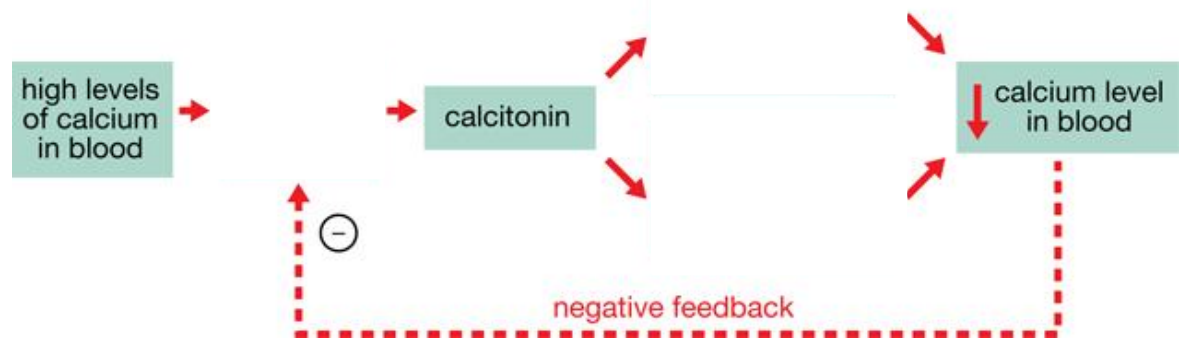
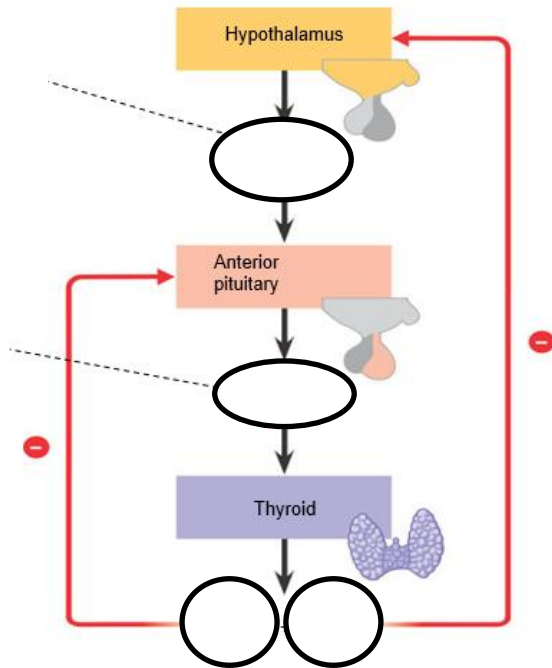
Hormones that Affect Metabolism



Thyroid Hormones:

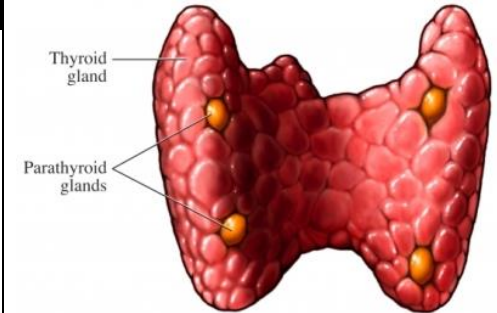
Hormone	Effect on Metabolism	Target Cells/Location

Feedback Loops:



Parathyroid Gland:

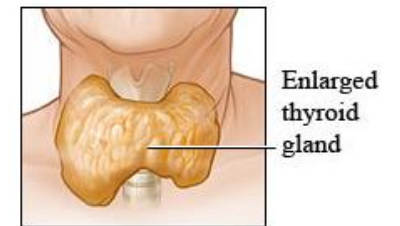
Hormone	Effect on Metabolism	Target Cells/Location



Feedback Loop:



Goiter:




Goiter

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Hyperthyroidism:

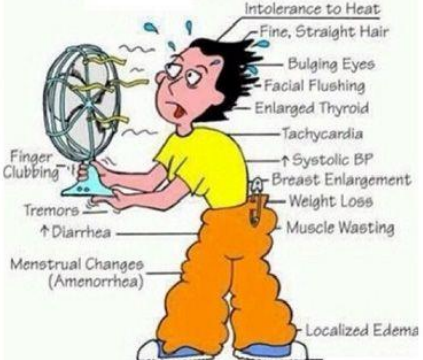
Hypothyroidism:

HYPOTHYROIDISM



- Intolerance to Cold
- Receding Hairline
- Facial & Eyelid Edema
- Dull-Blank Expression
- Extreme Fatigue
- Thick Tongue - Slow Speech
- Anorexia
- Brittle Nails & Hair
- Menstrual Disturbances
- Late Clinical Manifestations
 - Subnormal Temp
 - Bradycardia
 - Weight Gain
 - ↓ LOC
 - Thickened Skin
 - Cardiac Complications

HYPERTHYROIDISM



- Intolerance to Heat
- Fine, Straight Hair
- Bulging Eyes
- Facial Flushing
- Enlarged Thyroid
- Tachycardia
- ↑ Systolic BP
- Breast Enlargement
- Weight Loss
- Muscle Wasting
- Localized Edema
- Menstrual Changes (Amenorrhea)
- Finger Clubbing
- Tremors
- ↑ Diarrhea