

Calcium Feedback Loop (Low) (cont)

Effectors	Osteoclasts, kidneys, intestines
Responses	Osteoclasts degrade bone matrix which releases calcium into blood, kidney (reabsorb Ca) targets liver which releases Vit. D. Vit D to intestines absorb more calcium
Result	Calcium blood return to normal range

Calcium Feedback Loop (Low)

Stimulus	Decreased blood Ca^{2+}
Sensor/Integrator	Parathyroid glands
Hormone released	PTH
Effectors	Osteoclasts, kidneys, intestines
Responses	Osteoclasts degrade bone matrix which releases calcium into blood, kidney (reabsorb Ca) targets liver which releases Vit. D. Vit D to intestines absorb more calcium
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Metabolism Feedback Loop

Stimulus	Decrease in T3 and T4 concentrations
Sensor/Integrator	Chemo and temp receptors, Hypothalamus
Hormone Released	Hypothalamus releases TRH
Target	Anterior pituitary
Hormone released	TSH
Target	Thyroid gland (follicular cells)
Hormone released	Thyroid gland released T3 and T4
Effector	Body tissues
Response	Increased metabolic activity
Result	Return to homeostatic body temperature, increase in energy

Lymphatic System

What are characteristics of the lymphatic system?	Vessels, nodes, and accessory organs filled with water like fluid
What is the purpose of the lymphatic system?	To return free fluid in the body back to the blood, houses and matures the WBC

Function of Lymphatic sys. & Accessory

Vessels	Vessels, trunks, ducts	Absorption of interstitial fluid and transportation of lymph
Nodes	Structures that house and allow for storage of an maturation of lymphocytes	Monitor lymph fluid for pathogens
Thymus	where T cells mature	
Spleen	Where we send red blood cells to be recycled, storage of WBC	
Lacteals	in the intestine microvilli fat absorption	
MALT	nodules to monitor incoming solutes for pathogens, in mucosa	

Right lymphatic duct

Right lymphatic duct	right lymphatic vessels of the right facde, right neck, right arm, right axillary and cervical lymph nodes
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Published 18th February, 2022.

Last updated 18th February, 2022.

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