

hematology

hematology: study of blood and blood-forming tissues

includes: bone marrow, blood, spleen, and lymph system

hematologic system: supports ability to o₂, carbon dioxide co₂, nutrients, waste, and electrolytes

hematologic functions: maintain intravascular volume, coagulate blood, and combat infections

blood: type of connective tissue; mainly consisting of plasma and blood cells

functions of blood

protection: homeostasis of blood coagulation, and combats invasion of pathogens and foreign substances

regulation: fluid and electrolyte balance, acid-base balance, body temperature, and oncotic pressure

transportation: o₂ from lungs, nutrients from gi tract, hormones from endocrine glands, and metabolic waste from cells

blood production

bone marrow + hematopoiesis

hematopoiesis: blood cell production

blood cell production: occurs within bone marrow

bone marrow: soft material filling central core of bones; uses a negative feedback system

bone marrow types: adipose (yellow) + hematopoietic (red)

red marrow: actively makes blood cells; found mainly in flat and irregular bones



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