

Anemia	Character	Cause	Etiology			Clin Path
Regenerative	Polychromasia Anisocytosis Howell Jolly Macrocytes Hypochromic Basophilic	Hemolytic	Phagocytosis Parasites	Mycoplasma Babesia anaplasma cytauxoon Theileria		Elev TP Hyperferremia Leukocytosis Left shift
			IMHA Oxidant injury Microangiopathic Histiocytic disorder Membrane disorders Hypophosphatemia Copper poisoning Acute liver failure (horse) Envenomation infection Drugs		spherocytes agglutination eccentrocytes Heinz Bodies Keratocytes Keratocytes Schistocytes Acanthocytes Spherocytes	Low TP Low iron+-
		Hemorrhage	Trauma	Hemangiosarcoma DIC Malignant Histiocytosis reactive hemophagic syndromes Stomatocytosis Enzymopathies		coombs neg

Non-Regenerative	Normocytic	Too early to see response			
		Chronic renal failure	no EPO		
		Inflammation	IL-1, IL-6, IFN, TNF, IL-10 inhibition of EPO Decreased RBC life span		
		Hypothyroid			
		addisons			
		Red cell aplasia			
		NRIMA			
		Myelodysplasia			
		Neoplasia	Myelophthisis		
		Azathioprine			
	Phenobarbital				
	BM necrosis	parvo, panleuk			
	Macrocytic	B12, Folate deficiency	TMS		
		Myelodysplasia	Molybdenum		
		Inherited	FeLV		
			Poodles		
			Poll-herford		
		Diabetes			
		Hyperthyroidism			
	Microcytic	Physiologic	Puppies		
			calves		
			foals		
		Iron deficiency	Chronic blood loss		
			Young animals		
		Liver disease	Shunts		
		Pyridoxine deficiency			
		Copper deficiency			
		Fragmentation			
		Inherited	springer spaniel		

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