

Patient Info:

Name: Buddy
Chart No:
Owner: Lally
Doctor: Maqueda

Species: Canine
Breed: Labrador Retriever
Age: 6Y
Sex: CM

Hospital:

Bullville Animal Hospital
 PO Box 303
 Bullville, NY 10915
Antech ID: 200154

Lab:

Antech Diagnostics
 1111 Marcus Avenue
 Lake Success, NY 11042
Reported: 01/02/08 12:08 PM
Received: 01/01/08

Accession No.	Doctor	Owner	Pet Name
NYAA10552779	Maqueda	Lally	Buddy
Test	Results	Adult Reference Range	L Normal H
Superchem			
Glucose	87	70-138 mg/dL	
Urea Nitrogen	15	6-25 mg/dL	
Creatinine	1.0	0.5-1.6 mg/dL	
Total Protein	7.2	5.0-7.4 g/dL	
Albumin	2.5	2.7-4.4 g/dL	LOW
Total Bilirubin	0.2	0.1-0.3 mg/dL	
Alkaline Phosphatase	1407	5-131 U/L	HIGH
ALT (SGPT)	39	12-118 U/L	
AST (SGOT)	56	15-66 U/L	
Cholesterol	93	92-324 mg/dL	
Calcium	8.5	8.9-11.4 mg/dL	LOW
Phosphorus	4.5	2.5-6.0 mg/dL	
Sodium	153	139-154 mEq/L	
Potassium	5.4	3.6-5.5 mEq/L	
Chloride	121	102-120 mEq/L	HIGH
Albumin/Globulin Ratio	0.5	0.8-2.0 RATIO	LOW
BUN/Creatinine Ratio	15	4-27 RATIO	
Globulin	4.7	1.6-3.6 g/dL	HIGH
Lipase	104	77-695 U/L	
Amylase	765	290-1125 U/L	
Triglycerides	42	29-291 mg/dL	
CPK	59	59-895 U/L	
GGTP	<5	1-12 U/L	
Magnesium	1.4	1.5-2.5 mEq/L	LOW
Corrected Calcium	9.5		

Comment

Hemolysis 1+, the following results may be affected by this degree of hemolysis:

-INCREASE-

ALT may be increased by 15-20%

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Test	Results	Adult Reference Range	L	Normal	H
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AST may be increased up to 10%
 LDH may be increased up to 20%
 -DECREASED-
 Direct Bilirubin may be decreased up to 80%

Complete Blood Count

Hemoglobin	8.0	12.1-20.3 g/dL	LOW	
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Hematocrit	24.0	36-60 %	LOW	
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WBC	77.6	4.0-15.5 10³/μL	HIGH	
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Verified by repeat analysis.

RBC	3.99	4.8-9.3 10 ⁶ /μL	LOW	
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MCV	60	58-79 fl		
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MCH	20.1	19-28 pg		
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MCHC	33.3	30-38 g/dl		
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Platelet Count	65	170-400 10 ³ /μL	LOW	
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Verified by repeat analysis.

Platelet Estimate	Decreased	Adequate	LOW
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Differential

Differential	Absolute	%		
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Neutrophils	776	1	2060-10600	LOW	
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Bands	0	0	0-300		
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Lymphocytes	776	01	690-4500		
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Monocytes	0	0	0-840		
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Eosinophils	0	0	0-1200		
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Basophils	0	0	0-150		
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Blood Parasites None Seen

Remarks

Slide reviewed by pathologist. The WBC mass is markedly increased and the preliminary report has been altered to reflect a high blast percentage. The WBC differential includes 98% unclassified blasts, 1% small lymphocytes, and 1% neutrophils. The blasts are 13-15um in diameter with round to cerebriform-shaped nuclei, lacy to finely granular chromatin, distinct 1-2 large nucleoli, and scant dark blue cytoplasm that occasionally contains fine magenta granules. These blasts most resemble lymphoblasts, and may be granulated lymphoblasts, which are of T-cell or NK-cell origin. This population indicates either circulating neoplastic cells from multicentric lymphoma or potentially, a lymphocytic leukemia. Granulated lymphomas frequently arise from the spleen in dogs, and evaluation for hepatosplenomegaly, lymphadenopathy, and bone marrow aspiration are warranted. The non-regenerative anemia and thrombocytopenia may be a result of myelophthisis. Other causes for thrombocytopenia include ITP, decreased marrow production (secondary to drugs, viruses, rickettsial infection, myelofibrosis), increased sequestration (spleen), and/or increased utilization (DIC, hemorrhage).

Liz Little, VMD, DACVP

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Blasts 98 %

T4

T4 **0.6** **1.0-4.0 µg/dL** **LOW** 

The Total T4 result is less than 1.0 mcg/dl. A Free-T4 by equilibrium dialysis may be helpful in supporting the diagnosis of hypothyroidism in patients demonstrating clinical signs compatible with hypothyroidism. Please use test code 9816 for this additional testing.