

PETOWNER **ARDOLINO** SPECIES: Canine BREED: GENDER: Female AGE: 10 Years PATIENTID: 27651 PASCO Veterinary Med. Ctr 4575 Pet Lane Lutz, FL 33549 813-973-2929 ACCOUNT #: 12599 ATTENDING VET: Alyssa Siegel 
 LAB ID:
 4404270668

 ORDER ID:
 172860954

 COLLECTION DATE
 3/24/22

 DATE OF RECEIPIE
 3/26/22

 DATE OF RESULT:
 3/26/22

### IDEXX Services: Urinalysis Completion

Urinalysis			
3/26/22 (Order Received) 3/26/22 4:30 AM (Last Up	odated)		3/16/22
TEST	RESULT	REFERENCE VALUE	
Collection	FREECATCH		CYSTOCE
Color	Yellow		
Clarity	CLEAR		
Specific Gravity	1.025		
рН	7.0		
Urine Protein	NEGATIVE		
Glucose	NEGATIVE		
Ketones	NEGATIVE		
Blood / Hemoglobin	NEGATIVE		
Bilirubin	NEGATIVE		
Urobilinogen	NORMAL		
White Blood Cells	NONE SEEN	0 - 5 HPF	
Red Blood Cells	NONE SEEN	HPF	
Bacteria	NONE SEEN		
Epithelial Cells	1+ (1-2)/HPF		
Mucus	NONE SEEN		
Casts	NONE SEEN		
Crystals	NONE SEEN		



PET OWNER:	ARDOLINO
SPECIES:	Canine
BREED:	Doberman Pinscher
GENDER:	Female
AGE:	10 Years
PATIENT ID:	

PASCO Veterinary Med. Ctr 4575 Pet Lane Lutz, FL 33549 813-973-2929 ACCOUNT #: 12599 ATTENDING VET: NOT GIVEN

LAB ID: 4404273714 TR2036981684900034 ORDER ID: COLLECTION DATE: 3/17/22 DATE OF RECEIPT: **3/18/22** DATE OF RESULT: **3/24/22** 

### IDEXX Services: Complex Biopsy

Pathology		
3/18/22 (Order Received 3/24/22 7:41 AM (Last		
Images		
	IDEXX	
	* Download	Download
	1 Download	Download
Biopsy Source:	R arm amputation. Source as indicated	d on diagram.
Clinical History:	21 months tumor has been growing. X-1	rays show total bone destruction.
Pathologist's	MICROSCOPIC DESCRIPTION: The periosteum, cortical bone and med	dullary bone of the distal 2/3 of the radius and lesser the distal
Report	cells are polygonal and arranged in c	ded and effaced by a highly cellular mesenchymal neoplasm. Neoplas lense, highly cellular bundles and sheets, admixed with dense
	Neoplastic cells have moderate amount	brightly eosinophilic material (osteoid) and mineralized bone. s of eosinophilic cytoplasm. Their nuclei are irregularly oval to matin and distinct nucleoli. Anisocytosis and anisokaryosis are
		altinucleated neoplastic cells. Multifocal areas of necrosis and
	MICROSCOPIC INTERPRETATION: Right distal radius: Osteosarcoma	
	Mitotic count: 33 mitoses per ten HPP Margins: Excision is complete with 90	
	-	consistent with osteosarcoma, which is an aggressive, osteolytic,
	malignant neoplasm.	

Neoplastic



#### PET OWNER: ARDOLINO

DATE OF RESULT: **3/24/22** 

LAB ID: 4404273714

### Pathology (continued)

Appendicular osteosarcomas (OSA) have very strong site preferences. The forelimbs are affected approximately twice as often as the hindlimbs. The majority occur within the distal radius, proximal humerus, proximal tibia and distal femur. Metastasis is very common and arises early in the course of the disease, although usually subclinically. Although less than 15% of dogs have radiographically detectable pulmonary or osseous metastasis at presentation, approximately 90% will die with metastatic disease, usually to the lungs, within one year when amputation is the only treatment. Metastasis via the hematogenous route is most common. OSA arising from the digits, metatarsal and metacarpal bones in dogs is rare and may carry a better prognosis compared with other appendicular locations, according to one study of 15 cases. Although the lung is the most commonly reported site for metastasis, tumor spread to bones or other soft tissue sites occurs with some frequency. Elevated serum alkaline phosphatase (ALP) has been associated with a poorer prognosis for dogs with appendicular OSA. A preoperative elevation of ALP is associated with a shorter disease-free interval and survival. Additionally, dogs that have elevated preoperative ALP values that do not return to normal within 40 days following surgical removal of the primary lesion also fail earlier from metastasis.

If clinically appropriate for your patient: DNA sequencing of the tumor tissue through FidoCure may provide additional treatment guidance (specifically mutations in DMD gene; and/or genes related the MAPK and PI3K/mTOR signaling pathways) and/or prognostic information (specifically mutations in TP53 tumor suppressor gene) for canine patients with osteosarcoma. Please visit www.fidocure.com to learn more. You can order FidoCure testing by contacting Customer Support.

#### Reference:

Withrow and MacEwen's Small Animal Clinical Oncology, 5th Ed., 2013, pp 463-503; Thompson KG, Pool RR. Tumors in Domestic Animals, 4th Ed., 2002, pp 266-283. Tremolada G., et al. Biologic behavior of primary osteosarcoma of the digits, metacarpal and metatarsal bones in dogs. Vet Comp Oncol. 2020.

Internal Interpretation ID: IXD21.1

For lab use only: Fidocure testing, block A, US code 8978; Canada code FIDO

PATHOLOGIST:

Danielle R. Desjardins, DVM, MS Diplomate, American College of Veterinary Pathologists Direct: 916-267-2550 1-800-551-0998, option 1; x72550 E-mail: Danielle-Desjardins@idexx.com The patient clinical history provided on the submitted requisition was reported. Veterinarians, please contact the pathologist with any questions. Pet owners need to contact their veterinarian for case advice.



PET OWNER: **ARDOLINO** SPECIES: Canine BREED: GENDER: Female AGE: 10 Years PATIENT ID: 27651 
 PASCO Veterinary Med. Ctr

 4575 Pet Lane

 Lutz, FL 33549

 813-973-2929

 ACCOUNT #:
 12599

 ATTENDING VET:
 Alyssa Siegel

 LAB ID:
 4404267052

 ORDER ID:
 172128148

 COLLECTION DATE
 3/14/22

 DATE OF RECEIPE:
 3/16/22

IDEXX Services: Senior Profile with Mg, Osmolality, Triglycerides, and Heartworm, SAMPLE/TEST INFO NEEDED

# Hematology

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3/16/22 (Order Receiver 3/16/22 5:37 AM (Last		ed)		
TEST		RESULT	REFERENCE VALUE	
RBC		7.05	5.39 - 8.70 M/µL	
Hematocrit		50.9	38.3 - 56.5 %	
Hemoglobin		16.5	13.4 - 20.7 g/dL	
MCV		72	59 - 76 fL	
MCH		23.4	21.9 - 26.1 pg	
МСНС		32.4	32.6 - 39.2 g/dL	L
% Reticulocyte		2.1	%	
Reticulocytes	а	148	10 - 110 K/µL	H
Reticulocyte Hemoglobin		23.7	24.5 - 31.8 pg	L
WBC		6.5	4.9 - 17.6 K/μL	
% Neutrophils		68.9	%	
% Lymphocytes		14.3	%	
% Monocytes		7.4	%	
% Eosinophils		9.4	%	
% Basophils		0.0	%	
Neutrophils		4.479	2.94 - 12.67 K/µL	
Lymphocytes		0.93	1.06 - 4.95 K/μL	
Monocytes		0.481	0.13 - 1.15 K/µL	
Eosinophils		0.611	0.07 - 1.49 K/µL	
Basophils	b	0	0 - 0.1 K/µL	
Platelets		366	143 - 448 K/µL	

a The appropriateness of the regenerative response should be evaluated considering the degree of anemia and reticulocytosis (see guidelines below).

Degree of bone marrow response (reticulocytes K/uL): Mild 110-150 Moderate 150-300 Marked >300



PET OWNER: ARDOLINO

DATE OF RESULT: **3/16/22** 

LAB ID: 4404267052

# Hematology (continued)

View the VetConnect Plus Differentials for additional information.

b AUTOMATED CBC

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# Chemistry

3/16/22 (Order Received) 3/16/22 5:37 AM (Last Updated)

	or option	54)		
TEST		RESULT	REFERENCE VALUE	
Glucose		125	63 - 114 mg/dL	H
IDEXX SDMA	а	8	0 - 14 µg/dL	
Creatinine		0.8	0.5 - 1.5 mg/dL	
BUN		17	9 - 31 mg/dL	
BUN: Creatinine Ratio		21.3		
Phosphorus		3.5	2.5 - 6.1 mg/dL	
Calcium		9.5	8.4 - 11.8 mg/dL	
Magnesium		2.6	1.8 - 2.4 mg/dL	H
Sodium		152	142 - 152 mmol/L	
Potassium		4.0	4.0 - 5.4 mmol/L	
Na: K Ratio		38	28 - 37	H
Chloride		116	108 - 119 mmol/L	
TCO2 (Bicarbonate)		17	13 - 27 mmol/L	
Anion Gap		23	11 - 26 mmol/L	
Total Protein		6.5	5.5 - 7.5 g/dL	
Albumin		2.9	2.7 - 3.9 g/dL	
Globulin		3.6	2.4 - 4.0 g/dL	
Albumin: Globulin Ratio		0.8	0.7 - 1.5	
ALT		16	18 - 121 U/L	L
AST		26	16 - 55 U/L	
ALP		168	5 - 160 U/L	H
GGT		3	0 - 13 U/L	
Bilirubin - Total		0.1	0.0 - 0.3 mg/dL	
Bilirubin - Unconjugated		0.0	0.0 - 0.2 mg/dL	



MINA ARDOLINO		PET OWNER: ARDOLIN	PET OWNER: ARDOLINO DATE OF RESULT: 3/16/22		
Chemistry (cor	ntinue	d)			-
TEST		RESULT	REFERENCE VALUE		
Bilirubin - Conjugated		<0.1	0.0 - 0.1 mg/dL		]
Cholesterol		205	131 - 345 mg/dL		]
Triglyceride		115	20 - 150 mg/dL		]
Amylase		1,464	337 - 1,469 U/L		]
Lipase	b	509	0 - 250 U/L	H	]
Creatine Kinase		133	10 - 200 U/L		]
Osmolality		325	302 - 330 mmol/	«g	]
Hemolysis Index	с	Ν			
Lipemia Index	d	1+			
	a			reference interval: impairment of GFR i aluate complete urinalysis.	- .S

- b Please note: the canine and feline reference intervals for lipase have been updated effective May 26, 2020 to reflect current IDEXX testing.
- ${\tt C}$   $% {\tt Index}$  of N, 1+, 2+ exhibits no significant effect on chemistry values.
- d \$ Index of N, 1+, 2+ exhibits no significant effect on chemistry values.

# Urinalysis Image: Conder Received) 3/16/22 5:37 AM (Last Updated) TEST RESULT Collection CYSTOCENTESIS Color Clarity Specific Gravity Image: Conder Section Sectio

Ketones



PET OWNER: ARDOLINO

DATE OF RESULT: 3/16/22

AB ID: 4404267052

	RDOLINO		PETOWNER: ARDOLINO	D	ATE OF RESULT:	5/10/22	LAB ID: 440420703
Urinalysis (a	continued)						_
TEST	RESULT						
Blood / Hemoglobin							
Bilirubin							
Urobilinogen							
White Blood Cells							
Red Blood Cells							
Bacteria							
Epithelial Cells							
Mucus							
Casts							
Crystals							
Endocrinolo	gy 🔄						
3/16/22 (Order Reco 3/16/22 5:37 AM (							_
TEST	RESULT		REFERENCE VALUE				
Total T4	<sup>a</sup> 1.0		1.0 - 4.0 μg/dL				]
	refer have these suppl was d	ence interv a low norma dogs by ad ement, reco rawn 4-6 ho	nical signs of hypothy ral are likely euthyroi ll T4 (1-2 ug/dL). Hypo dding a free T4 and car momended therapeutic le uurs post-pill in a dog late supplementation.	id. Occasio othyroidism nine TSH. evels are 2	nally, hypot may be furt For dogs on .1-5.4 ug/dL	hyroid dogs c her assessed thyroid . If this sam	in ple

 Serology
 Image: Constraint of the second second



MINA ARDOLII	NO PET OWNER: ARDOLINO	DATE OF RESULT: 3/16/22	LAB ID: 4404267052
Serology (continued)			
а	The American Heartworm Society recommends all positive antigen test results prior to positive test result is unexpected. Confir accomplished when combining the results of with results from the Lab 4DX Plus (test of SNAP 4Dx Plus performed on a separate samp	therapy, especially when a mation of a positive test result the Heartworm Antigen by ELISA ode 7244), SNAP Heartworm RT, or	is
Other			
3/16/22 (Order Received) 3/16/22 5:37 AM (Last Update	ed)		
TEST	RESULT		

More Information A urine sample was not received. The remainder of requested testing has been performed. Thank you. Needed