

California Avian Laboratory- Reference Ranges

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Hematology

For: African Grey Congo

	Mean	Range	
WBC	12.03	8 - 15	K/ μ l
PCV	46.06	42 - 52	%
Het	60.27	46 - 74	%
Neut		-	%
Lymph	36.61	20 - 54	%
Mono	1.6	1 - 3	%
Eos	1.34	1 - 2	%
Baso	0.71	0 - 1	%
Chemistry			
SGOT (AST)	161.09	81 - 369	IU/L
UricAcid	5.65	2.47 - 9.98	mg/dl
LDH	243.14	144 - 390	IU/L
Glucose	279.21	252 - 345	IU/L
Calcium	9.10	8 - 12	mg/dl
CPK	306.06	135 - 410	IU/L
Cholest	221	139 - 264	mg/dl
Albumin	1.72	1.2 - 2.2	g/dl
Total Prot	3.30	2.8 - 3.7	g/dl
Globulin	1.64	1.2 - 2.2	g/dl
A/G Ratio	1.20	0.89 - 1.85	
Amylase	283.25	200 - 384	IU/L
BileAcid	52.96	12 - 96	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	7.250481	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	4.404183	K/ μ l
MonoAbsolute	.19248	K/ μ l
EosAbsolute	.161202	K/ μ l
BasoAbsolute	.085413	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

For Further Clinical Support/Consultation, please call California Avian Lab at (877) 521-6004 or (916) 933-0898; fax (916) 405-3376 with the Accession#(s)

California Avian Laboratory
PO Box 5647
El Dorado Hills, CA 95762

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Hematology

For: African Grey Genus

	Mean	Range	
WBC	10.33	6 - 13	K/ μ l
PCV	48.23	45 - 53	%
Het	58.9	45 - 73	%
Neut		-	%
Lymph	37.98	19 - 50	%
Mono	0.03	0 - 2	%
Eos	0.24	0 - 1	%
Baso	0.08	0 - 1	%
Chemistry			
SGOT (AST)	173.81	110 - 340	IU/L
UricAcid	5.55	1.98 - 10.9	mg/dl
LDH	248.17	154 - 378	IU/L
Glucose	281.08	256 - 360	IU/L
Calcium	9.29	8 - 14	mg/dl
CPK	302.95	140 - 411	IU/L
Cholest	193.21	100 - 250	mg/dl
Albumin	1.71	0.2 - 2.4	g/dl
Total Prot	3.51	2.7 - 4.4	g/dl
Globulin	1.89	1.2 - 3.6	g/dl
A/G Ratio	1.2	0.42 - 3	
Amylase	510.93	415 - 626	IU/L
BileAcid	55.84	12 - 96	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	6.08437	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	3.923334	K/ μ l
MonoAbsolute	.003099	K/ μ l
EosAbsolute	.024792	K/ μ l
BasoAbsolute	.008264	K/ μ l

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- 3) Was the patient clinically normal, excited, stressed, clinically ill?
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Hematology

For: African Grey Timneh

	Mean	Range	
WBC	11.27	9 - 13	K/ μ l
PCV	47.80	45 - 50	%
Het	57.38	45 - 70	%
Neut		-	%
Lymph	33.84	19 - 48	%
Mono	0.04	0 - 1	%
Eos	0.63	0 - 2	%
Baso	0.07	0 - 1	%
Chemistry			
SGOT (AST)	191.42	120 - 342	IU/L
UricAcid	5.50	1.74 - 10.17	mg/dl
LDH	238.45	144 - 402	IU/L
Glucose	295.60	274 - 372	IU/L
Calcium	9.15	7.5 - 14.4	mg/dl
CPK	286.34	126 - 420	IU/L
Cholest	203.94	96 - 268	mg/dl
Albumin	1.44	1 - 1.8	g/dl
Total Prot	3.45	2.4 - 4.4	g/dl
Globulin	1.71	1.3 - 2.2	g/dl
A/G Ratio	1.76	1 - 3.14	
Amylase	304.50	170 - 436	IU/L
BileAcid	60.82	23 - 97	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	6.466726	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	3.813768	K/ μ l
MonoAbsolute	.004508	K/ μ l
EosAbsolute	.071001	K/ μ l
BasoAbsolute	.007889	K/ μ l

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- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
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- 3) Was the patient clinically normal, excited, stressed, clinically ill?
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Hematology

For: Amazon Blue Front

	Mean	Range	
WBC	10.38	6 - 13	K/ μ l
PCV	47.72	42 - 53	%
Het	52.74	33 - 72	%
Neut		-	%
Lymph	43.52	22 - 65	%
Mono	0.02	0 - 1	%
Eos	0.04	0 - 1	%
Baso	0.27	0 - 1	%
Chemistry			
SGOT (AST)	231.46	146 - 408	IU/L
UricAcid	5.03	2.31 - 10.16	mg/dl
LDH	228.33	158 - 366	IU/L
Glucose	287.48	246 - 389	IU/L
Calcium	9.90	8.2 - 13.8	mg/dl
CPK	252.46	130 - 417	IU/L
Cholest	200	100 - 270	mg/dl
Albumin	1.42	0.40 - 1.7	g/dl
Total Prot	4.50	3.5 - 6.48	g/dl
Globulin	2.56	2 - 3.8	g/dl
A/G Ratio	1.04	0.71 - 1.56	
Amylase		-	IU/L
BileAcid	86.95	34 - 140	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	5.474412	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	4.517376	K/ μ l
MonoAbsolute	.002076	K/ μ l
EosAbsolute	.004152	K/ μ l
BasoAbsolute	.028026	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
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Hematology

For: Amazon Double Yellow

	Mean	Range	
WBC	10.40	6 - 13	K/ μ l
PCV	47.54	40 - 53	%
Het	53.08	38 - 71	%
Neut		-	%
Lymph	44.30	20 - 65	%
Mono	0.33	0 - 1	%
Eos	0.05	0 - 1	%
Baso	0.35	0 - 1	%
Chemistry			
SGOT (AST)	210.39	152 - 400	IU/L
UricAcid	4.88	2.3 - 9.85	mg/dl
LDH	233.33	160 - 354	IU/L
Glucose	279.63	248 - 369	IU/L
Calcium	9.76	8.4 - 13.1	mg/dl
CPK	260.93	128 - 420	IU/L
Cholest	194.24	100 - 252	mg/dl
Albumin	1.72	1.2 - 2.0	g/dl
Total Prot	3.66	2.4 - 4.37	g/dl
Globulin	2.75	2.3 - 3.6	g/dl
A/G Ratio	0.99	0.56 - 1.85	
Amylase	410.25	327 - 474	IU/L
BileAcid	86.45	32 - 148	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	5.52032	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	4.6072	K/ μ l
MonoAbsolute	.03432	K/ μ l
EosAbsolute	.0052	K/ μ l
BasoAbsolute	.0364	K/ μ l

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- 2) Consider effect of pre-sampling therapy on the blood values
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Hematology

For: Amazon Genus

	Mean	Range	
WBC	12.34	5 - 17	K/ μ l
PCV	47.59	41 - 53	%
Het	51.00	31 - 71	%
Neut		-	%
Lymph	43.83	20 - 67	%
Mono	0.05	0.00 - 2	%
Eos	0.00	0.00 - 0.00	%
Baso	0.47	0.00 - 2	%
Chemistry			
SGOT (AST)	221.02	150 - 344	IU/L
UricAcid	5.10	2.22 - 10.39	mg/dl
LDH	230.36	160 - 368	IU/L
Glucose	286.57	246 - 378	IU/L
Calcium	9.83	8 - 13.86	mg/dl
CPK	257.11	117 - 425	IU/L
Cholest	190.58	148 - 228	mg/dl
Albumin	1.81	0.3 - 2.4	g/dl
Total Prot	3.68	2.6 - 4.5	g/dl
Globulin	2.26	1.6 - 3.7	g/dl
A/G Ratio	1.10	0.69 - 1.75	
Amylase	330.08	184 - 478	IU/L
BileAcid	88.97	33 - 154	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	6.2934	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	5.408622	K/ μ l
MonoAbsolute	.00617	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	.057998	K/ μ l

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Hematology

For: Amazon Lilac Crown

	Mean	Range	
WBC	10.98	7 - 13	K/ μ l
PCV	47.15	44 - 52	%
Het	50.56	29 - 73	%
Neut		-	%
Lymph	42.60	19 - 67	%
Mono	0.03	0 - 1	%
Eos	0.04	0 - 1	%
Baso	0.29	0 - 1	%
Chemistry			
SGOT (AST)	227.54	150 - 382	IU/L
UricAcid	5.65	2.61 - 10.30	mg/dl
LDH	225.67	160 - 332	IU/L
Glucose	292.08	245 - 353	IU/L
Calcium	9.63	8.4 - 12.86	mg/dl
CPK	248.32	153 - 376	IU/L
Cholest	201.38	160 - 232	mg/dl
Albumin	2.06	1.5 - 2.8	g/dl
Total Prot	3.47	2.61 - 4.4	g/dl
Globulin	1.6	0.7 - 2.8	g/dl
A/G Ratio	1.23	0.71 - 1.75	
Amylase	0	0 - 0	IU/L
BileAcid	84.07	33 - 144	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	5.551488	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	4.67748	K/ μ l
MonoAbsolute	.003294	K/ μ l
EosAbsolute	.004392	K/ μ l
BasoAbsolute	.031842	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
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Hematology

For: Amazon Mealy

	Mean	Range	
WBC	13.19	9 - 16	K/ μ l
PCV	49.69	42 - 55	%
Het	56.69	38 - 76	%
Neut		-	%
Lymph	45.03	23 - 65	%
Mono	0.02	0 - 1	%
Eos	0	0 - 0	%
Baso	0.12	0 - 1	%
Chemistry			
SGOT (AST)	225.77	138 - 377	IU/L
UricAcid	5.27	2.33 - 11.76	mg/dl
LDH	228.75	159 - 381	IU/L
Glucose	263.95	201 - 337	IU/L
Calcium	10.34	8.6 - 12.9	mg/dl
CPK	278.45	208 - 348	IU/L
Cholest	184.36	111 - 249	mg/dl
Albumin	2.05	1.4 - 2.6	g/dl
Total Prot	3.47	2.4 - 4.2	g/dl
Globulin	2.41	1 - 3.2	g/dl
A/G Ratio	0.86	0.66 - 1	
Amylase	305	36 - 574	IU/L
BileAcid	68	31 - 145	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	7.477411	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	5.939457	K/ μ l
MonoAbsolute	.002638	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	.015828	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
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Hematology

For: Amazon Mexican Red

	Mean	Range	
WBC	11.83	6 - 16	K/ μ l
PCV	46.51	40 - 51	%
Het	51.38	33 - 70	%
Neut		-	%
Lymph	41.42	21 - 65	%
Mono	0.06	0 - 1	%
Eos	0	0 - 0	%
Baso	0.66	0 - 2	%
Chemistry			
SGOT (AST)	210.57	150 - 328	IU/L
UricAcid	5.51	2.20 - 10.51	mg/dl
LDH	246.12	145 - 388	IU/L
Glucose	286.62	248 - 370	IU/L
Calcium	9.77	8.31 - 15.00	mg/dl
CPK	245.35	123 - 429	IU/L
Cholest	188.53	144 - 230	mg/dl
Albumin	1.62	0.81 - 1.9	g/dl
Total Prot	3.42	2.1 - 4.4	g/dl
Globulin	1.93	1.6 - 2.7	g/dl
A/G Ratio	1.05	0.63 - 1.25	
Amylase	0	0 - 0	IU/L
BileAcid	88.16	36 - 154	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	6.078254	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	4.899986	K/ μ l
MonoAbsolute	.007098	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	.078078	K/ μ l

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Hematology

For: Amazon Orange Wing

	Mean	Range	
WBC	12.16	7 - 16	K/ μ l
PCV	47.10	40 - 52	%
Het	52.29	31 - 73	%
Neut		-	%
Lymph	43.10	20 - 64	%
Mono	0.02	0 - 1	%
Eos	0	0 - 0	%
Baso	0.32	0 - 2	%
Chemistry			
SGOT (AST)	205.84	114 - 389	IU/L
UricAcid	5.32	2.30 - 10.50	mg/dl
LDH	251.63	148 - 451	IU/L
Glucose	295.34	249 - 482	IU/L
Calcium	9.52	8 - 14.5	mg/dl
CPK	278.18	120 - 455	IU/L
Cholest	215.20	180 - 254	mg/dl
Albumin	1.95	1.6 - 2.2	g/dl
Total Prot	3.81	2.7 - 4.9	g/dl
Globulin	1.66	0.8 - 2.7	g/dl
A/G Ratio	1.1	0.81 - 1.45	
Amylase	0	0 - 0	IU/L
BileAcid	93.62	29 - 157	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	6.358464	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	5.24096	K/ μ l
MonoAbsolute	.002432	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	.038912	K/ μ l

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Hematology

For: Amazon Panama

	Mean	Range	
WBC	11.69	8 - 16	K/ μ l
PCV	49.4	46 - 54	%
Het	57.38	30 - 77	%
Neut		-	%
Lymph	42.86	23 - 70	%
Mono	0.00	0.00 - 1	%
Eos	0.00	0.00 - 1	%
Baso	0.09	0.00 - 1	%
Chemistry			
SGOT (AST)	208.73	154 - 394	IU/L
UricAcid	5.58	2.77 - 10.19	mg/dl
LDH	233.53	160 - 387	IU/L
Glucose	272.36	248 - 330	IU/L
Calcium	8.97	8 - 12	mg/dl
CPK	318.6	157 - 458	IU/L
Cholest	203.27	178 - 237	mg/dl
Albumin	1.86	1.2 - 2.4	g/dl
Total Prot	3.62	2.9 - 4.6	g/dl
Globulin	1.88	1.5 - 2.5	g/dl
A/G Ratio	1.15	0.78 - 1.85	
Amylase	381	200 - 645	IU/L
BileAcid	90.21	31 - 148	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	6.707722	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	5.010334	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	.010521	K/ μ l

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Hematology

For: Amazon Red-Lored

	Mean	Range	
WBC	12.26	6 - 16	K/ μ l
PCV	48.05	42 - 55	%
Het	50.82	33 - 73	%
Neut		-	%
Lymph	46.28	22 - 66	%
Mono	0.03	0.00 - 1	%
Eos	0.00	0.00 - 0.00	%
Baso	0.43	0.00 - 2	%
Chemistry			
SGOT (AST)	224.3	150 - 408	IU/L
UricAcid	5.23	2.20 - 9.87	mg/dl
LDH	229.16	150 - 412	IU/L
Glucose	285.85	250 - 388	IU/L
Calcium	9.51	8 - 13.2	mg/dl
CPK	262.49	136 - 420	IU/L
Cholest	201.13	150 - 228	mg/dl
Albumin	1.94	1 - 2.4	g/dl
Total Prot	3.90	2.3 - 4.44	g/dl
Globulin	2.12	1.9 - 2.3	g/dl
A/G Ratio	1.08	0.71 - 1.44	
Amylase	346.67	156 - 472	IU/L
BileAcid	68.65	24 - 120	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	6.230532	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	5.673928	K/ μ l
MonoAbsolute	.003678	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	.052718	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

For Further Clinical Support/Consultation, please call California Avian Lab at (877) 521-6004 or (916) 933-0898; fax (916) 405-3376 with the Accession#(s)

California Avian Laboratory
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El Dorado Hills, CA 95762

California Avian Laboratory- Reference Ranges

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Hematology

For: Amazon Yellow Nape

	Mean	Range	
WBC	12.43	6 - 17	K/ μ l
PCV	48.36	42 - 55	%
Het	52.28	31 - 73	%
Neut		-	%
Lymph	44.09	20 - 67	%
Mono	0.02	0.00 - 1	%
Eos	0.00	0.00 - 0.00	%
Baso	0.41	0.00 - 2	%
Chemistry			
SGOT (AST)	218.79	150 - 390	IU/L
UricAcid	5.07	2.31 - 10.70	mg/dl
LDH	228.53	160 - 360	IU/L
Glucose	284.07	249 - 377	IU/L
Calcium	9.85	8.4 - 13.2	mg/dl
CPK	252.51	132 - 402	IU/L
Cholest	188.81	100 - 256	mg/dl
Albumin	1.68	1.1 - 2	g/dl
Total Prot	3.76	2.8 - 4.7	g/dl
Globulin	2.50	2.8 - 5.9	g/dl
A/G Ratio	1.43	1 - 2.5	
Amylase	336.22	187 - 546	IU/L
BileAcid	85.13	36 - 144	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	6.498404	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	5.480387	K/ μ l
MonoAbsolute	.002486	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	.050963	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Amazon Yellow-Crowned

	Mean	Range	
WBC	12.67	8 - 15	K/ μ l
PCV	47.76	42 - 55	%
Het	50.65	37 - 69	%
Neut		-	%
Lymph	43.64	18 - 63	%
Mono	0.00	0.00 - 1	%
Eos	0.00	0.00 - 1	%
Baso	0.27	0.00 - 1	%
Chemistry			
SGOT (AST)	214.22	150 - 380	IU/L
UricAcid	5.37	2.26 - 10.5	mg/dl
LDH	197.57	171 - 265	IU/L
Glucose	255.38	170 - 316	IU/L
Calcium	9.97	8.6 - 11.67	mg/dl
CPK	391.78	260 - 490	IU/L
Cholest	211.89	125 - 246	mg/dl
Albumin	2.2	2 - 2.4	g/dl
Total Prot	4.04	3.2 - 4.6	g/dl
Globulin	2.1	2 - 2.2	g/dl
A/G Ratio	1.05	1 - 1.1	
Amylase		-	IU/L
BileAcid	118.5	59 - 188	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	6.417355	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	5.529188	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	.034209	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Boa

	Mean	Range	
WBC	10.79	8 - 13	K/ μ l
PCV	31.23	25 - 38	%
Het	44.87	34 - 68	%
Neut		-	%
Lymph	51.53	28 - 78	%
Mono	6.18	1 - 13	%
Eos	3	1 - 6	%
Baso	3.21	1 - 9	%
Chemistry			
SGOT (AST)	20.67	6 - 45	IU/L
UricAcid	4.37	1.43 - 7.44	mg/dl
LDH	58.16	32 - 96	IU/L
Glucose	35.01	15 - 72	IU/L
Calcium	13.49	7 - 16.90	mg/dl
CPK	60	30 - 74	IU/L
Cholest		-	mg/dl
Albumin	3.51	2 - 4.5	g/dl
Total Prot	6.33	4.1 - 8.4	g/dl
Globulin	2.53	1.3 - 3.2	g/dl
A/G Ratio	1.44	0.61 - 2.17	
Amylase		-	IU/L
BileAcid	13.5	5 - 22	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	4.841473	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	5.560087	K/ μ l
MonoAbsolute	.666822	K/ μ l
EosAbsolute	.3237	K/ μ l
BasoAbsolute	.346359	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Budgerigar

	Mean	Range	
WBC	6.67	3 - 10	K/ μ l
PCV	51.53	44 - 58	%
Het	56.67	40 - 68	%
Neut		-	%
Lymph	37.70	22 - 60	%
Mono	0.11	0.00 - 2	%
Eos	0.00	0.00 - 0.00	%
Baso	0.48	0.00 - 2	%
Chemistry			
SGOT (AST)	262.34	156 - 375	IU/L
UricAcid	8.61	4.8 - 12.86	mg/dl
LDH	251.67	156 - 384	IU/L
Glucose	329.80	216 - 456	IU/L
Calcium	9.27	8 - 11.22	mg/dl
CPK	235.01	117 - 368	IU/L
Cholest	181.08	120 - 230	mg/dl
Albumin	1.11	0.9 - 1.2	g/dl
Total Prot	2.83	2.1 - 4.3	g/dl
Globulin	1.1	0.7 - 1.5	g/dl
A/G Ratio	1.31	1 - 1.75	
Amylase	437.33	302 - 560	IU/L
BileAcid	81.14	32 - 117	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	3.779889	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	2.51459	K/ μ l
MonoAbsolute	.007337	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	.032016	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Caique

	Mean	Range	
WBC	11.76	8 - 15	K/ μ l
PCV	50.75	47 - 55	%
Het	56.38	39 - 72	%
Neut		-	%
Lymph	34.8	20 - 61	%
Mono	0.00	0.00 - 2	%
Eos	0.00	0.00 - 1	%
Baso	0.00	0.00 - 1	%
Chemistry			
SGOT (AST)	222.5	118 - 364	IU/L
UricAcid	5.13	2.52 - 10.62	mg/dl
LDH	192.33	147 - 270	IU/L
Glucose	267.19	170 - 372	IU/L
Calcium	9.25	8.29 - 11.1	mg/dl
CPK	249.29	124 - 384	IU/L
Cholest	174	126 - 220	mg/dl
Albumin	2.07	1.8 - 2.5	g/dl
Total Prot	3.08	2.5 - 3.5	g/dl
Globulin	1.45	0.9 - 1.7	g/dl
A/G Ratio	1.70	1.05 - 2.78	
Amylase	267	244 - 290	IU/L
BileAcid	67.43	12 - 112	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	6.630288	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	4.09248	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	0	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Canary

	Mean	Range	
WBC	6.96	3 - 10	K/ μ l
PCV	49.85	45 - 56	%
Het	36.75	21 - 60	%
Neut		-	%
Lymph	43.34	20 - 65	%
Mono	0.04	0.00 - 1	%
Eos	0.04	0.00 - 1	%
Baso	0.08	0.00 - 1	%
Chemistry			
SGOT (AST)	224.4	132 - 351	IU/L
UricAcid	8.68	4.14 - 12.61	mg/dl
LDH		-	IU/L
Glucose	297	160 - 360	IU/L
Calcium		-	mg/dl
CPK		-	IU/L
Cholest		-	mg/dl
Albumin		-	g/dl
Total Prot		-	g/dl
Globulin		-	g/dl
A/G Ratio		-	
Amylase		-	IU/L
BileAcid		-	μ m/L

Mean

HetAbsolute	2.5578	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	3.016464	K/ μ l
MonoAbsolute	.002784	K/ μ l
EosAbsolute	.002784	K/ μ l
BasoAbsolute	.005568	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

Phosphorus 4-8 mg/dl

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Hematology

For: Cockatiel

	Mean	Range	
WBC	8.03	5 - 11	K/ μ l
PCV	51.24	43 - 57	%
Het	59.39	46 - 72	%
Neut		-	%
Lymph	42.42	26 - 60	%
Mono	0.05	0.00 - 1	%
Eos	0.61	0.00 - 2	%
Baso	0.12	0.00 - 1	%
Chemistry			
SGOT (AST)	244.61	128 - 396	IU/L
UricAcid	7.05	3.4 - 10.90	mg/dl
LDH	255.04	122 - 378	IU/L
Glucose	326.06	228 - 440	IU/L
Calcium	9.20	8.2 - 10.88	mg/dl
CPK	269.05	160 - 420	IU/L
Cholest	151.65	90 - 200	mg/dl
Albumin	1.45	0.8 - 1.8	g/dl
Total Prot	2.90	2.1 - 4.79	g/dl
Globulin	2.78	2.1 - 3.8	g/dl
A/G Ratio	1.51	1 - 2.29	
Amylase	360.71	113 - 870	IU/L
BileAcid	75.75	44 - 108	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	4.769017	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	3.406326	K/ μ l
MonoAbsolute	.004015	K/ μ l
EosAbsolute	.048983	K/ μ l
BasoAbsolute	.009636	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Cockatiel Common Grey

	Mean	Range	
WBC	7.17	5 - 10	K/ μ l
PCV	53.41	46 - 60	%
Het	61.36	46 - 76	%
Neut		-	%
Lymph	43.16	27 - 64	%
Mono	0.00	0.00 - 1	%
Eos	0.74	0.00 - 2	%
Baso	0.14	0.00 - 1	%
Chemistry			
SGOT (AST)	265.04	130 - 430	IU/L
UricAcid	6.94	2.94 - 11.86	mg/dl
LDH	273.44	141 - 390	IU/L
Glucose	327.92	235 - 450	IU/L
Calcium	9.07	7.8 - 10.88	mg/dl
CPK	306.2	152 - 486	IU/L
Cholest	254.5	240 - 274	mg/dl
Albumin		-	g/dl
Total Prot		-	g/dl
Globulin		-	g/dl
A/G Ratio		-	
Amylase		-	IU/L
BileAcid	191.14	76 - 248	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	4.399512	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	3.094572	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	.053058	K/ μ l
BasoAbsolute	.010038	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Cockatiel Lutino

	Mean	Range	
WBC	7.68	5 - 10	K/ μ l
PCV	50.91	42 - 56	%
Het	58.90	48 - 71	%
Neut		-	%
Lymph	50.76	29 - 74	%
Mono	0.07	0.00 - 1	%
Eos	0.35	0.00 - 1	%
Baso	0.14	0.00 - 1	%
Chemistry			
SGOT (AST)	230.88	136 - 432	IU/L
UricAcid	6.89	3.34 - 11.9	mg/dl
LDH	258.96	138 - 408	IU/L
Glucose	339.17	240 - 448	IU/L
Calcium	10.15	8.1 - 12.6	mg/dl
CPK	249.67	153 - 450	IU/L
Cholest	150	99 - 238	mg/dl
Albumin	1.08	0.3 - 1.5	g/dl
Total Prot	2.7	2.1 - 3.5	g/dl
Globulin	1.22	0.9 - 1.7	g/dl
A/G Ratio	0.93	0.43 - 1.33	
Amylase		-	IU/L
BileAcid	87	63 - 126	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	4.52352	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	3.898368	K/ μ l
MonoAbsolute	.005376	K/ μ l
EosAbsolute	.02688	K/ μ l
BasoAbsolute	.010752	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Cockatoo Bare-eyed

	Mean	Range	
WBC	10.57	6 - 14	K/ μ l
PCV	48.28	43 - 55	%
Het	61.29	41 - 77	%
Neut		-	%
Lymph	38.17	22 - 57	%
Mono	0.00	0.00 - 2	%
Eos	0.09	0.00 - 1	%
Baso	0.00	0.00 - 1	%
Chemistry			
SGOT (AST)	219.03	130 - 340	IU/L
UricAcid	5.95	2.96 - 10.73	mg/dl
LDH	314.17	256 - 415	IU/L
Glucose	265.54	220 - 378	IU/L
Calcium	9.78	8.1 - 11.87	mg/dl
CPK	279.69	155 - 420	IU/L
Cholest	195.2	174 - 223	mg/dl
Albumin	1.78	1.6 - 2	g/dl
Total Prot	3.05	2.6 - 3.8	g/dl
Globulin	1.24	1.1 - 1.4	g/dl
A/G Ratio	1.53	1.31 - 1.71	
Amylase		-	IU/L
BileAcid	55	26 - 96	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	6.478353	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	4.034569	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	.009513	K/ μ l
BasoAbsolute	0	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Cockatoo Goffin's

	Mean	Range	
WBC	10.76	7 - 13	K/ μ l
PCV	47.30	42 - 55	%
Het	59.04	45 - 72	%
Neut		-	%
Lymph	35.66	22 - 51	%
Mono	0.03	0.00 - 1	%
Eos	0.35	0.00 - 2	%
Baso	0.00	0.00 - 1	%
Chemistry			
SGOT (AST)	210.80	140 - 350	IU/L
UricAcid	6.85	3.50 - 10.75	mg/dl
LDH	329.93	198 - 452	IU/L
Glucose	274.20	220 - 412	IU/L
Calcium	9.07	8.0 - 11.4	mg/dl
CPK	281.75	144 - 439	IU/L
Cholest	169.87	114 - 214	mg/dl
Albumin	1.70	1.1 - 2	g/dl
Total Prot	3.40	2.4 - 4.3	g/dl
Globulin	1.77	0.80 - 3	g/dl
A/G Ratio	1.30	0.7 - 3.33	
Amylase	370.33	273 - 536	IU/L
BileAcid	56.04	15 - 96	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	6.352704	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	3.837016	K/ μ l
MonoAbsolute	.003228	K/ μ l
EosAbsolute	.03766	K/ μ l
BasoAbsolute	0	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Cockatoo Group

	Mean	Range	
WBC	10.42	5 - 13	K/ μ l
PCV	45.40	40 - 54	%
Het	59.60	45 - 72	%
Neut		-	%
Lymph	34.17	20 - 50	%
Mono	0.03	0.00 - 2	%
Eos	0.33	0.00 - 2	%
Baso	0.00	0.00 - 1	%
Chemistry			
SGOT (AST)	204.38	140 - 360	IU/L
UricAcid	6.69	3.8 - 11	mg/dl
LDH	302.83	208 - 414	IU/L
Glucose	267.84	206 - 418	IU/L
Calcium	9.42	8.2 - 11.45	mg/dl
CPK	266.35	147 - 418	IU/L
Cholest	165.48	96 - 212	mg/dl
Albumin	1.77	1.2 - 2.4	g/dl
Total Prot	3.62	2.6 - 4.83	g/dl
Globulin	2.46	2.00 - 3.4	g/dl
A/G Ratio	1.37	1 - 2.36	
Amylase	557.87	228 - 876	IU/L
BileAcid	70.03	34 - 112	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	6.21032	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	3.560514	K/ μ l
MonoAbsolute	.003126	K/ μ l
EosAbsolute	.034386	K/ μ l
BasoAbsolute	0	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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California Avian Laboratory- Reference Ranges

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Hematology

For: Cockatoo Lesser Sulfur-

	Mean	Range	
WBC	12.25	9 - 16	K/ μ l
PCV	49.33	45 - 56	%
Het	68	44 - 79	%
Neut		-	%
Lymph	32	21 - 56	%
Mono		0 - 2	%
Eos		0 - 2	%
Baso		0 - 1	%
Chemistry			
SGOT (AST)	191.38	134 - 276	IU/L
UricAcid	6.76	2.08 - 10.73	mg/dl
LDH	285.55	173 - 398	IU/L
Glucose	245.18	138 - 304	IU/L
Calcium	9.16	8.1 - 10.3	mg/dl
CPK	281.11	157 - 408	IU/L
Cholest	138.8	113 - 206	mg/dl
Albumin	1.78	1.4 - 2.4	g/dl
Total Prot	3.48	2.8 - 4.6	g/dl
Globulin	1.95	1 - 3.3	g/dl
A/G Ratio	0.97	0.33 - 1.46	
Amylase	414.33	236 - 750	IU/L
BileAcid	59.33	24 - 95	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	8.33	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	3.92	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	0	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
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Hematology

For: **Cockatoo Major Mitchell**

	Mean	Range	
WBC	10	6 - 13	K/ μ l
PCV	47.90	42 - 53	%
Het	60.33	37 - 78	%
Neut		-	%
Lymph	37.4	20 - 62	%
Mono	0.00	0.00 - 2	%
Eos	0.00	0.00 - 1	%
Baso	0.00	0.00 - 1	%
Chemistry			
SGOT (AST)	182.2	165 - 210	IU/L
UricAcid	7.40	2.20 - 11.30	mg/dl
LDH	303.74	240 - 390	IU/L
Glucose	301.91	242 - 392	IU/L
Calcium	9.26	8.4 - 11.6	mg/dl
CPK	247.75	132 - 376	IU/L
Cholest	202	152 - 252	mg/dl
Albumin		-	g/dl
Total Prot	3.48	3 - 3.9	g/dl
Globulin	1.53	1 - 2.3	g/dl
A/G Ratio	1.77	1.54 - 2	
Amylase		-	IU/L
BileAcid	166.33	142 - 189	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	6.033	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	3.74	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	0	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Cockatoo Moluccan

	Mean	Range	
WBC	10.59	8 - 12	K/ μ l
PCV	45.33	41 - 54	%
Het	58.53	44 - 71	%
Neut		-	%
Lymph	34.15	19 - 50	%
Mono	0.02	0.00 - 1	%
Eos	0.28	0.00 - 2	%
Baso	0.00	0.00 - 1	%
Chemistry			
SGOT (AST)	189.25	136 -366	IU/L
UricAcid	6.05	3.2-10.64	mg/dl
LDH	304.58	192 -456	IU/L
Glucose	258.98	198 -424	IU/L
Calcium	9.39	8 -11.69	mg/dl
CPK	272.09	148 -404	IU/L
Cholest	171.92	104 -224	mg/dl
Albumin	1.74	0.9-2.6	g/dl
Total Prot	3.61	2.5-4.8	g/dl
Globulin	2.36	1.9-4.2	g/dl
A/G Ratio	1.31	0.9-2.8	
Amylase	542.9	228 -780	IU/L
BileAcid	66.89	30 -110	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	6.198327	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	3.616485	K/ μ l
MonoAbsolute	.002118	K/ μ l
EosAbsolute	.029652	K/ μ l
BasoAbsolute	0	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Cockatoo Rose-breasted

	Mean	Range	
WBC	12.29	8 - 15	K/ μ l
PCV	48.81	40 - 55	%
Het	60.57	43 - 74	%
Neut		-	%
Lymph	34.29	20 - 52	%
Mono	0.00	0.00 - 2	%
Eos	0.24	0.00 - 1	%
Baso	0.00	0.00 - 1	%
Chemistry			
SGOT (AST)	264.77	150 - 344	IU/L
UricAcid	6.92	3.89 - 10.68	mg/dl
LDH	320.5	161 - 395	IU/L
Glucose	300	198 - 376	IU/L
Calcium	8.62	8.4 - 9.1	mg/dl
CPK	228.86	120 - 395	IU/L
Cholest	185	146 - 224	mg/dl
Albumin	1.67	1.6 - 1.8	g/dl
Total Prot	3.16	2.39 - 4.5	g/dl
Globulin	1.57	1 - 2.2	g/dl
A/G Ratio	1.18	0.73 - 1.6	
Amylase		-	IU/L
BileAcid	127.75	101 - 148	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	7.444053	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	4.214241	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	.029496	K/ μ l
BasoAbsolute	0	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Cockatoo Triton

	Mean	Range	
WBC	14.56	12 - 16	K/ μ l
PCV	45.5	42 - 50	%
Het	60.24	44 - 75	%
Neut		-	%
Lymph	38.11	22 - 56	%
Mono	0.00	0.00 - 2	%
Eos	0.00	0.00 - 1	%
Baso	0.00	0.00 - 1	%
Chemistry			
SGOT (AST)	162.36	120 - 208	IU/L
UricAcid	5.55	2.15 - 11.01	mg/dl
LDH	269.60	118 - 374	IU/L
Glucose	270.30	200 - 345	IU/L
Calcium	9.49	8 - 12	mg/dl
CPK	296.27	164 - 396	IU/L
Cholest	198.64	146 - 248	mg/dl
Albumin	1.79	1.4 - 2	g/dl
Total Prot	3.95	2.4 - 4.8	g/dl
Globulin	1.97	1 - 2.9	g/dl
A/G Ratio	1.07	0.66 - 1.53	
Amylase		-	IU/L
BileAcid	67.5	24 - 98	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	8.770944	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	5.548816	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	0	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Cockatoo Umbrella

	Mean	Range	
WBC	12.81	8 - 16	K/ μ l
PCV	44.81	40 - 50	%
Het	59.49	45 - 71	%
Neut		-	%
Lymph	34.51	20 - 51	%
Mono	0.03	0.00 - 2	%
Eos	0.38	0.00 - 2	%
Baso	0.00	0.00 - 1	%
Chemistry			
SGOT (AST)	204.10	140 - 376	IU/L
UricAcid	6.67	3.50 - 10.90	mg/dl
LDH	296.36	208 - 405	IU/L
Glucose	269.40	214 - 426	IU/L
Calcium	9.33	8.1 - 10.98	mg/dl
CPK	269.84	152 - 444	IU/L
Cholest	162.43	96 - 212	mg/dl
Albumin	1.74	0.8 - 2.4	g/dl
Total Prot	3.60	2.3 - 6.1	g/dl
Globulin	1.92	1 - 3.4	g/dl
A/G Ratio	1.22	0.8 - 2	
Amylase	632	264 - 876	IU/L
BileAcid	74.54	38 - 114	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	7.620669	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	4.420731	K/ μ l
MonoAbsolute	.003843	K/ μ l
EosAbsolute	.048678	K/ μ l
BasoAbsolute	0	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Conure Blue-crowned

	Mean	Range	
WBC	7.77	5 - 9	K/ μ l
PCV	49.23	40 - 53	%
Het	59.83	43 - 74	%
Neut		-	%
Lymph	35.87	23 - 50	%
Mono	0.00	0.00 - 1	%
Eos	0.17	0.00 - 1	%
Baso	0.21	0.00 - 2	%
Chemistry			
SGOT (AST)	201.35	140 - 354	IU/L
UricAcid	5.31	2.31 - 10.73	mg/dl
LDH	221.59	148 - 380	IU/L
Glucose	292.3	228 - 377	IU/L
Calcium	9.45	8.3 - 12	mg/dl
CPK	256.31	120 - 344	IU/L
Cholest	187.17	162 - 227	mg/dl
Albumin	1.7	1.2 - 2	g/dl
Total Prot	3.75	2.4 - 4.9	g/dl
Globulin	2.62	2.2 - 3.4	g/dl
A/G Ratio	0.885	0.55 - 1.5	
Amylase		-	IU/L
BileAcid	68	24 - 105	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	4.648791	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	2.787099	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	.013209	K/ μ l
BasoAbsolute	.016317	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Conure Cherry-headed

	Mean	Range	
WBC	8.03	5 - 10	K/ μ l
PCV	49.85	43 - 56	%
Het	60.12	48 - 73	%
Neut		-	%
Lymph	36.09	23 - 50	%
Mono	0.00	0.00 - 2	%
Eos	0.00	0.00 - 1	%
Baso	0.00	0.00 - 1	%
Chemistry			
SGOT (AST)	215.92	132 - 385	IU/L
UricAcid	5.80	2.10 - 11.41	mg/dl
LDH	249.44	180 - 441	IU/L
Glucose	290.84	220 - 384	IU/L
Calcium	9.57	8.1 - 10.96	mg/dl
CPK	253.05	146 - 396	IU/L
Cholest	162.13	95.76 - 245	mg/dl
Albumin	1.75	1.6 - 2	g/dl
Total Prot	3.32	2.8 - 4.9	g/dl
Globulin	1.975	1.5 - 3.1	g/dl
A/G Ratio	1.34	1 - 2.22	
Amylase		-	IU/L
BileAcid	59	32 - 94	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	4.827636	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	2.898027	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	0	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Conure Dusky

	Mean	Range	
WBC	9.88	5 - 13	K/ μ l
PCV	49.27	41 - 55	%
Het	58.19	43 - 70	%
Neut		-	%
Lymph	36.90	20 - 52	%
Mono	0.00	0.00 - 2	%
Eos	0.00	0.00 - 1	%
Baso	0.00	0.00 - 1	%
Chemistry			
SGOT (AST)	257.19	162 - 356	IU/L
UricAcid	7.52	3.13 - 10.83	mg/dl
LDH	220.14	114 - 328	IU/L
Glucose	273.50	213 - 350	IU/L
Calcium	9.77	8.1 - 11.7	mg/dl
CPK	202.63	108 - 375	IU/L
Cholest	142.75	120 - 163	mg/dl
Albumin		-	g/dl
Total Prot		-	g/dl
Globulin		-	g/dl
A/G Ratio		-	
Amylase		-	IU/L
BileAcid	17	16 - 18	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	5.749172	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	3.64572	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	0	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Conure Gold-capped

	Mean	Range	
WBC	10.13	6 - 13	K/ μ l
PCV	52.58	50 - 55	%
Het	56.47	44 - 69	%
Neut		-	%
Lymph	38.12	26 - 49	%
Mono	0.00	0.00 - 1	%
Eos	0.00	0.00 - 1	%
Baso	0.33	0.00 - 2	%
Chemistry			
SGOT (AST)	232.78	147 - 363	IU/L
UricAcid	6.20	2.10 - 11.2	mg/dl
LDH	250.13	175 - 387	IU/L
Glucose	280.34	202 - 366	IU/L
Calcium	9.44	8 - 11.1	mg/dl
CPK	284.87	200 - 384	IU/L
Cholest	215.67	170 - 246	mg/dl
Albumin		-	g/dl
Total Prot	3.38	2.71 - 3.9	g/dl
Globulin	1.7	1.3 - 2.1	g/dl
A/G Ratio		-	
Amylase		-	IU/L
BileAcid	20.67	9 - 32	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	5.720411	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	3.861556	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	.033429	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Conure Green-cheeked

	Mean	Range	
WBC	7.74	5 - 10	K/ μ l
PCV	50.86	42 - 55	%
Het	56.83	46 - 71	%
Neut		-	%
Lymph	39.57	22 - 53	%
Mono	0.00	0.00 - 2	%
Eos	0.00	0.00 - 1	%
Baso	0.00	0.00 - 1	%
Chemistry			
SGOT (AST)	204	138 - 270	IU/L
UricAcid	8.11	3.19 - 12.48	mg/dl
LDH	251.5	168 - 370	IU/L
Glucose	288.63	215 - 395	IU/L
Calcium	9.28	8 - 12.5	mg/dl
CPK	207.63	144 - 276	IU/L
Cholest	165	96 - 220	mg/dl
Albumin	2.12	1.8 - 2.4	g/dl
Total Prot	4.10	3.4 - 4.8	g/dl
Globulin	2.23	1.6 - 2.5	g/dl
A/G Ratio	1.36	0.9 - 2.4	
Amylase		-	IU/L
BileAcid	53.2	10 - 93	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	4.398642	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	3.062718	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	0	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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California Avian Laboratory- Reference Ranges

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Hematology

For: Conure Group

	Mean	Range	
WBC	9.57	5 - 13	K/ μ l
PCV	49.24	42 - 54	%
Het	58.39	44 - 72	%
Neut		-	%
Lymph	36.14	22 - 51	%
Mono	0.04	0.00 - 1	%
Eos	0.08	0.00 - 1	%
Baso	0.16	0.00 - 1	%
Chemistry			
SGOT (AST)	229.50	147 -378	IU/L
UricAcid	6.58	3.00 -11.18	mg/dl
LDH	292.07	216 -408	IU/L
Glucose	291.02	216 -418	IU/L
Calcium	9.38	8.1 -11.67	mg/dl
CPK	262.37	153 -408	IU/L
Cholest	174.37	144 -202	mg/dl
Albumin	1.84	1.1 -2.6	g/dl
Total Prot	3.39	2.4 -4.9	g/dl
Globulin	2.2	1.9 -2.6	g/dl
A/G Ratio	1.27	0.88 -2	
Amylase	441.11	192 -954	IU/L
BileAcid	65.71	32 -105	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	5.587923	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	3.458598	K/ μ l
MonoAbsolute	.003828	K/ μ l
EosAbsolute	.007656	K/ μ l
BasoAbsolute	.015312	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Conure Halfmoon

	Mean	Range	
WBC	8.18	6 - 10	K/ μ l
PCV	49.10	42 - 54	%
Het	64.42	50 - 73	%
Neut		-	%
Lymph	33.27	20 - 51	%
Mono	0.00	0.00 - 2	%
Eos	0.00	0.00 - 1	%
Baso	0.00	0.00 - 1	%
Chemistry			
SGOT (AST)	207.15	120 - 324	IU/L
UricAcid	7.17	3.06 - 11.21	mg/dl
LDH	222.20	104 - 368	IU/L
Glucose	281.25	189 - 388	IU/L
Calcium	9.5	8.4 - 12.6	mg/dl
CPK		-	IU/L
Cholest	165.75	120 - 237	mg/dl
Albumin		-	g/dl
Total Prot		-	g/dl
Globulin		-	g/dl
A/G Ratio		-	
Amylase		-	IU/L
BileAcid	64.20	28 - 138	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	5.269556	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	2.721486	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	0	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Conure Jenday

	Mean	Range	
WBC	8.06	6 - 10	K/ μ l
PCV	50.59	42 - 55	%
Het	56.83	46 - 71	%
Neut		-	%
Lymph	40.83	22 - 54	%
Mono	0.00	0.00 - 2	%
Eos	0.00	0.00 - 1	%
Baso	0.00	0.00 - 4	%
Chemistry			
SGOT (AST)	223.67	140 - 312	IU/L
UricAcid	6.32	2.06 - 11.33	mg/dl
LDH	279.72	224 - 354	IU/L
Glucose	277.49	192 - 346	IU/L
Calcium	9.97	8.6 - 11.7	mg/dl
CPK	276.78	167 - 388	IU/L
Cholest	190.09	102 - 258	mg/dl
Albumin		-	g/dl
Total Prot		-	g/dl
Globulin		-	g/dl
A/G Ratio		-	
Amylase		-	IU/L
BileAcid	71	20 - 114	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	4.580498	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	3.290898	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	0	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Conure Maroon-bellied

	Mean	Range	
WBC	10.44	7 - 13	K/ μ l
PCV	50.71	46 - 55	%
Het	55.25	44 - 71	%
Neut		-	%
Lymph	40.63	24 - 56	%
Mono	0.00	0.00 - 2	%
Eos	0.00	0.00 - 1	%
Baso	0.00	0.00 - 1	%
Chemistry			
SGOT (AST)	224.15	136 - 378	IU/L
UricAcid	6.16	3.00 - 12.42	mg/dl
LDH	281	204 - 372	IU/L
Glucose	300.63	261 - 340	IU/L
Calcium	9.38	8.1 - 11.4	mg/dl
CPK	201.50	111 - 491	IU/L
Cholest	182.6	104 - 207	mg/dl
Albumin		-	g/dl
Total Prot		-	g/dl
Globulin		-	g/dl
A/G Ratio		-	
Amylase		-	IU/L
BileAcid		-	μ m/L

Mean

HetAbsolute	5.7681	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	4.241772	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	0	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

Phosphorus 4-8 mg/dl

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Hematology

For: Conure Mitred

	Mean	Range	
WBC	8.12	5 - 11	K/ μ l
PCV	47.14	40 - 52	%
Het	59.15	44 - 72	%
Neut		-	%
Lymph	35.81	23 - 50	%
Mono	0.00	0.00 - 2	%
Eos	0.00	0.00 - 1	%
Baso	0.00	0.00 - 1	%
Chemistry			
SGOT (AST)	189.03	118 - 342	IU/L
UricAcid	5.94	2.20 - 12.98	mg/dl
LDH	212	140 - 360	IU/L
Glucose	292.62	228 - 370	IU/L
Calcium	9.17	8.4 - 10.9	mg/dl
CPK	193.17	136 - 311	IU/L
Cholest	193.10	123 - 240	mg/dl
Albumin	1.73	1.2 - 2.2	g/dl
Total Prot	3.04	2.5 - 3.73	g/dl
Globulin	1.68	1.1 - 2.2	g/dl
A/G Ratio	1.06	0.75 - 1.8	
Amylase		-	IU/L
BileAcid	51.71	12 - 96	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	4.80298	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	2.907772	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	0	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Conure Nanday

	Mean	Range	
WBC	8.72	5 - 11	K/ μ l
PCV	50.13	40 - 55	%
Het	59.77	48 - 71	%
Neut		-	%
Lymph	34.89	24 - 47	%
Mono	0.00	0.00 - 1	%
Eos	0.11	0.00 - 1	%
Baso	0.61	0.00 - 2	%
Chemistry			
SGOT (AST)	238.79	147 - 378	IU/L
UricAcid	6.48	2.31 - 11.10	mg/dl
LDH	285.78	204 - 396	IU/L
Glucose	290.81	231 - 393	IU/L
Calcium	9.15	8 - 10.96	mg/dl
CPK	251.66	135 - 400	IU/L
Cholest	180.58	117 - 248	mg/dl
Albumin	1.6	1.1 - 2.2	g/dl
Total Prot	3.04	1.9 - 3.7	g/dl
Globulin	1.37	0.8 - 1.9	g/dl
A/G Ratio	1.05	0.72 - 1.38	
Amylase		-	IU/L
BileAcid	69.06	16 - 129	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	5.211944	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	3.042408	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	.009592	K/ μ l
BasoAbsolute	.053192	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Conure Orange-Fronted

	Mean	Range	
WBC	9.44	6 - 12	K/ μ l
PCV	50.08	43 - 56	%
Het	54.2	44 - 71	%
Neut		-	%
Lymph	36.56	20 - 51	%
Mono	0.00	0.00 - 2	%
Eos	0.00	0.00 - 1	%
Baso	0.00	0.00 - 1	%
Chemistry			
SGOT (AST)	235.60	130 - 350	IU/L
UricAcid	6.60	3.59 - 10.88	mg/dl
LDH		-	IU/L
Glucose		-	IU/L
Calcium		-	mg/dl
CPK		-	IU/L
Cholest		-	mg/dl
Albumin		-	g/dl
Total Prot		-	g/dl
Globulin		-	g/dl
A/G Ratio		-	
Amylase		-	IU/L
BileAcid		-	μ m/L

Mean

HetAbsolute	5.11648	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	3.451264	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	0	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

Phosphorus 4-8 mg/dl

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Hematology

For: Conure Patagonian

	Mean	Range	
WBC	8.76	6 - 11	K/ μ l
PCV	48.35	42 - 55	%
Het	59.77	44 - 72	%
Neut		-	%
Lymph	33.35	21 - 52	%
Mono	0.00	0.00 - 1	%
Eos	0.00	0.00 - 1	%
Baso	0.24	0.00 - 1	%
Chemistry			
SGOT (AST)	178.02	120 - 360	IU/L
UricAcid	5.53	2.25 - 11.40	mg/dl
LDH	257.72	188 - 392	IU/L
Glucose	310.69	236 - 389	IU/L
Calcium	9.06	8.2 - 10.4	mg/dl
CPK	305.73	221 - 387	IU/L
Cholest	189.36	94 - 255	mg/dl
Albumin	1.86	1.4 - 2.2	g/dl
Total Prot	2.98	2.2 - 3.8	g/dl
Globulin	0.83	.2 - 1.4	g/dl
A/G Ratio	1.44	0.78 - 2	
Amylase		-	IU/L
BileAcid	47.15	15 - 93	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	5.235852	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	2.92146	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	.021024	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Conure Sun

	Mean	Range	
WBC	8.99	6 - 11	K/ μ l
PCV	49.70	42 - 55	%
Het	58.28	44 - 72	%
Neut		-	%
Lymph	34.87	20 - 49	%
Mono	0.06	0.00 - 1	%
Eos	0.00	0.00 - 0.00	%
Baso	0.76	0.00 - 2	%
Chemistry			
SGOT (AST)	238.59	138 - 355	IU/L
UricAcid	6.66	2.21 - 11.58	mg/dl
LDH	236.47	155 - 346	IU/L
Glucose	273.36	167 - 380	IU/L
Calcium	9.22	8 - 11.21	mg/dl
CPK	280.14	153 - 372	IU/L
Cholest	175.62	112 - 255	mg/dl
Albumin	1.93	1.2 - 2.4	g/dl
Total Prot	3.42	2.4 - 4.5	g/dl
Globulin	1.88	1.3 - 2.6	g/dl
A/G Ratio	1.16	0.8 - 2.2	
Amylase		-	IU/L
BileAcid	51.5	12 - 92	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	5.239372	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	3.134813	K/ μ l
MonoAbsolute	.005394	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	.068324	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Dove

	Mean	Range	
WBC	11	9 - 13	K/ μ l
PCV	47.29	42 - 50	%
Het	54.09	43 - 63	%
Neut		-	%
Lymph	51.89	42 - 61	%
Mono	0.10	0.00 - 2	%
Eos	0.00	0.00 - 2	%
Baso	0.00	0.00 - 2	%
Chemistry			
SGOT (AST)	217.70	111 - 372	IU/L
UricAcid	7.25	2.47 - 11.94	mg/dl
LDH	263.09	150 - 388	IU/L
Glucose	299.87	164 - 386	IU/L
Calcium	9.41	8 - 12.6	mg/dl
CPK	260.22	180 - 388	IU/L
Cholest	219.58	124 - 257	mg/dl
Albumin	1.44	1.20 - 1.6	g/dl
Total Prot	2.86	2.1 - 3.7	g/dl
Globulin	1.65	1.3 - 2.2	g/dl
A/G Ratio	0.715	0.5 - 0.8	
Amylase		-	IU/L
BileAcid	71.8	40 - 106	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	5.9499	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	5.7079	K/ μ l
MonoAbsolute	.011	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	0	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Duck

	Mean	Range	
WBC	18.06	14 - 24	K/ μ l
PCV	43.41	35 - 50	%
Het	61.54	53 - 69	%
Neut		-	%
Lymph	36.35	27 - 50	%
Mono	0.00	0.00 - 2	%
Eos	0.26	0.00 - 1	%
Baso	0.00	0.00 - 1	%
Chemistry			
SGOT (AST)	33.91	12 - 73	IU/L
UricAcid	6.39	2.00 - 11.79	mg/dl
LDH	193.78	120 - 246	IU/L
Glucose	206.50	127 - 319	IU/L
Calcium	10.03	8.7 - 12.74	mg/dl
CPK	266.09	165 - 378	IU/L
Cholest	170.20	104 - 244	mg/dl
Albumin	2	1.7 - 2.2	g/dl
Total Prot	4.47	3.49 - 5.5	g/dl
Globulin	4.58	3.49 - 6	g/dl
A/G Ratio	1.18	1 - 1.8	
Amylase		-	IU/L
BileAcid	54.86	22 - 82	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	11.114124	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	6.56481	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	.046956	K/ μ l
BasoAbsolute	0	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Eagle

	Mean	Range	
WBC	16.9	12 - 21	K/ μ l
PCV	41.9	37 - 48	%
Het	69.64	52 - 80	%
Neut		-	%
Lymph	23.85	18 - 34	%
Mono	0.00	0.00 - 3	%
Eos	1.17	0.00 - 4	%
Baso	0.00	0.00 - 2	%
Chemistry			
SGOT (AST)	231.27	134 - 339	IU/L
UricAcid	6.17	2.05 - 12.8	mg/dl
LDH	289.38	252 - 340	IU/L
Glucose	325.63	253 - 389	IU/L
Calcium	10.75	8.9 - 13.5	mg/dl
CPK	334.57	234 - 485	IU/L
Cholest	205.38	134 - 268	mg/dl
Albumin		-	g/dl
Total Prot		-	g/dl
Globulin		-	g/dl
A/G Ratio		-	
Amylase		-	IU/L
BileAcid		-	μ m/L

Mean

HetAbsolute	11.76916	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	4.03065	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	.19773	K/ μ l
BasoAbsolute	0	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

Phosphorus 4-8 mg/dl

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California Avian Laboratory- Reference Ranges

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Hematology

For: Eclectus Parrot

	Mean	Range	
WBC	12.48	9 - 15	K/ μ l
PCV	49.46	45 - 55	%
Het	57.95	46 - 70	%
Neut		-	%
Lymph	40.39	23 - 57	%
Mono	0.00	0.00 - 1	%
Eos	0.14	0.00 - 1	%
Baso	0.08	0 - 1	%
Chemistry			
SGOT (AST)	219.88	144 - 339	IU/L
UricAcid	5.45	2.02 - 10.85	mg/dl
LDH	275.27	198 - 386	IU/L
Glucose	265.73	216 - 396	IU/L
Calcium	9.31	8.10 - 11.94	mg/dl
CPK	264.31	132 - 410	IU/L
Cholest	198.56	100 - 261	mg/dl
Albumin	1.66	1.1 - 2.0	g/dl
Total Prot	3.66	3.2 - 4.28	g/dl
Globulin	2.51	2.00 - 3.32	g/dl
A/G Ratio	1.06	0.52 - 1.79	
Amylase	622.17	562 - 684	IU/L
BileAcid	70.72	30 - 110	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	7.23216	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	5.040672	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	.017472	K/ μ l
BasoAbsolute	.009984	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Emu

	Mean	Range	
WBC	14.9	8 - 21	K/ μ l
PCV	47.4	39 - 57	%
Het	78.8	54 - 88	%
Neut		-	%
Lymph	19.8	10 - 44	%
Mono	0.1	0 - 1	%
Eos	2.58	0 - 6	%
Baso	0.2	0 - 1	%
Chemistry			
SGOT (AST)	227.2	80 - 380	IU/L
UricAcid	6.3	1.0 - 14	mg/dl
LDH	778	318 - 1243	IU/L
Glucose	134.1	101 - 243	IU/L
Calcium	11.1	8.8 - 12.5	mg/dl
CPK	428.8	70 - 818	IU/L
Cholest	122	68 - 170	mg/dl
Albumin	1.7	1.2 - 2.4	g/dl
Total Prot	3.9	3.4 - 4.4	g/dl
Globulin	2.2	1.4 - 3.2	g/dl
A/G Ratio		-	
Amylase		-	IU/L
BileAcid	18	2 - 34	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	11.7412	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	2.9502	K/ μ l
MonoAbsolute	.0149	K/ μ l
EosAbsolute	.38442	K/ μ l
BasoAbsolute	.0298	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Ferret

	Mean	Range	
WBC	5.7	2 - 10	K/ μ l
PCV	47.3	36 - 53	%
Het		-	%
Neut	28.2	13 - 48	%
Lymph	53.8	40 - 82	%
Mono	6.9	7 - 9	%
Eos	5.02	2 - 8	%
Baso	1.01	0 - 3	%
Chemistry			
SGOT (AST)	68.3	46 -118	IU/L
UricAcid		-	mg/dl
LDH	278	222 -344	IU/L
Glucose	120.5	120 -144	IU/L
Calcium	8.31	7.6 -9.6	mg/dl
CPK	245	98 -564	IU/L
Cholest		-	mg/dl
Albumin	3.9	3.4 -4.8	g/dl
Total Prot	5.2	4.3 -6	g/dl
Globulin	1.26	0.2 -2.4	g/dl
A/G Ratio		-	
Amylase		-	IU/L
BileAcid	9.1	1 -28	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	0	K/ μ l
NeutAbsolute	1.6074	K/ μ l
LymphAbsolute	3.0666	K/ μ l
MonoAbsolute	.3933	K/ μ l
EosAbsolute	.28614	K/ μ l
BasoAbsolute	.05757	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Grey-cheek Parakeet

	Mean	Range	
WBC	8.33	4 - 12	K/ μ l
PCV	50.18	45 - 56	%
Het	56.29	45 - 68	%
Neut		-	%
Lymph	35.38	22 - 48	%
Mono	0.05	0.00 - 1	%
Eos	0.07	0.00 - 1	%
Baso	0.05	0.00 - 1	%
Chemistry			
SGOT (AST)	324.58	189 - 388	IU/L
UricAcid	6.29	0.33 - 11.88	mg/dl
LDH	262.68	154 - 356	IU/L
Glucose	289.28	210 - 385	IU/L
Calcium	9.16	8.00 - 11.58	mg/dl
CPK	278.79	164 - 378	IU/L
Cholest	185.14	96 - 249	mg/dl
Albumin		-	g/dl
Total Prot		-	g/dl
Globulin		-	g/dl
A/G Ratio		-	
Amylase		-	IU/L
BileAcid	53.65	15 - 96	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	4.688957	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	2.947154	K/ μ l
MonoAbsolute	.004165	K/ μ l
EosAbsolute	.005831	K/ μ l
BasoAbsolute	.004165	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
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Hematology

For: Hawk Red-tailed

	Mean	Range	
WBC	19.5	15 - 24	K/ μ l
PCV	45.08	38 - 52	%
Het	49.92	35 - 66	%
Neut		-	%
Lymph	34.08	19 - 50	%
Mono	0.00	0.00 - 3	%
Eos	0.00	0.00 - 4	%
Baso	0.00	0.00 - 2	%
Chemistry			
SGOT (AST)	242	110 - 392	IU/L
UricAcid	11.07	6.32 - 17.97	mg/dl
LDH	339.83	230 - 398	IU/L
Glucose	310.75	222 - 388	IU/L
Calcium	10.64	8.4 - 13.75	mg/dl
CPK		-	IU/L
Cholest		-	mg/dl
Albumin		-	g/dl
Total Prot		-	g/dl
Globulin		-	g/dl
A/G Ratio		-	
Amylase		-	IU/L
BileAcid		-	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	9.7344	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	6.6456	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	0	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
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Hematology

For: Iguana Green

	Mean	Range	
WBC	11.26	7 - 14	K/ μ l
PCV	38.49	34 - 45	%
Het	56.67	43 - 69	%
Neut		-	%
Lymph	42.61	31 - 55	%
Mono	2.97	0 - 8	%
Eos	0.26	0 - 3	%
Baso	0.89	0 - 3	%
Chemistry			
SGOT (AST)	41.96	12 - 84	IU/L
UricAcid	4.51	1.9 - 10.99	mg/dl
LDH	58.08	12 - 95	IU/L
Glucose	128.34	90 - 150	IU/L
Calcium	11.78	9 - 16	mg/dl
CPK	328.66	150 - 450	IU/L
Cholest		-	mg/dl
Albumin	2.65	2 - 3.1	g/dl
Total Prot	6.28	4.9 - 7.81	g/dl
Globulin	2.76	1.8 - 3.8	g/dl
A/G Ratio	1.53	1.1 - 2.92	
Amylase		-	IU/L
BileAcid	7.65	1 - 13	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	6.381042	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	4.797886	K/ μ l
MonoAbsolute	.334422	K/ μ l
EosAbsolute	.029276	K/ μ l
BasoAbsolute	.100214	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
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Hematology

For: Lory

	Mean	Range	
WBC	10.79	8 - 13	K/ μ l
PCV	50.58	47 - 55	%
Het	50.17	39 - 60	%
Neut		-	%
Lymph	43.65	22 - 69	%
Mono		0 - 2	%
Eos		0 - 1	%
Baso		0 - 1	%
Chemistry			
SGOT (AST)	257.53	141 - 369	IU/L
UricAcid	6.23	2.01 - 11.82	mg/dl
LDH	194.63	124 - 302	IU/L
Glucose	287.17	192 - 388	IU/L
Calcium	9.08	8 - 11.5	mg/dl
CPK	295.61	178 - 396	IU/L
Cholest	197.52	100 - 257	mg/dl
Albumin	1.68	1.3 - 2.1	g/dl
Total Prot	3.09	1.9 - 4.1	g/dl
Globulin	1.58	0.9 - 2.4	g/dl
A/G Ratio	1.45	1 - 2.33	
Amylase		-	IU/L
BileAcid	57.25	20 - 97	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	5.413343	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	4.709835	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	0	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Lovebird

	Mean	Range	
WBC	11.73	7 - 16	K/ μ l
PCV	50.52	44 - 55	%
Het	48.27	40 - 56	%
Neut		-	%
Lymph	36.04	20 - 53	%
Mono	0.04	0 - 1	%
Eos	0.27	0 - 2	%
Baso	0.23	0 - 2	%
Chemistry			
SGOT (AST)	214.46	130 - 360	IU/L
UricAcid	7.44	3.26 - 10.66	mg/dl
LDH	277.13	225 - 354	IU/L
Glucose	305.67	220 - 390	IU/L
Calcium	9.50	8.4 - 11.71	mg/dl
CPK	250.69	160 - 392	IU/L
Cholest	163.81	100 - 228	mg/dl
Albumin	1.55	1.2 - 2.1	g/dl
Total Prot	2.71	1.8 - 3.7	g/dl
Globulin	1.21	0.6 - 1.6	g/dl
A/G Ratio	1.33	0.81 - 2	
Amylase		-	IU/L
BileAcid	56	12 - 90	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	5.662071	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	4.227492	K/ μ l
MonoAbsolute	.004692	K/ μ l
EosAbsolute	.031671	K/ μ l
BasoAbsolute	.026979	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
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Hematology

For: Macaw Blue and Gold

	Mean	Range	
WBC	12.75	8 - 16	K/ μ l
PCV	48.72	44 - 55	%
Het	60.63	49 - 71	%
Neut		-	%
Lymph	34.73	18 - 53	%
Mono	0.04	0 - 2	%
Eos		-	%
Baso	0.04	0 - 1	%
Chemistry			
SGOT (AST)	118.93	64 -168	IU/L
UricAcid	5.32	1.90 -11.02	mg/dl
LDH	133.74	69 -220	IU/L
Glucose	279.71	210 -368	IU/L
Calcium	9.73	8.4 -11.8	mg/dl
CPK	219.36	92 -380	IU/L
Cholest	160.71	96 -249	mg/dl
Albumin	0.83	0.3 -1.2	g/dl
Total Prot	3.47	2.5 -4.2	g/dl
Globulin	1.97	1 -3.8	g/dl
A/G Ratio	1.13	0.5 -2.36	
Amylase	407.83	239 -516	IU/L
BileAcid	52.78	27 -86	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	7.730325	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	4.428075	K/ μ l
MonoAbsolute	.0051	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	.0051	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Macaw Green-winged

	Mean	Range	
WBC	14.17	11 - 16	K/ μ l
PCV	47.18	42 - 54	%
Het	63.09	49 - 73	%
Neut		-	%
Lymph	36.56	22 - 60	%
Mono		0 - 2	%
Eos		0 - 2	%
Baso	0.12	0 - 1	%
Chemistry			
SGOT (AST)	116.89	62 -168	IU/L
UricAcid	5.31	1.52 -11.09	mg/dl
LDH	139.93	72 -224	IU/L
Glucose	275.69	210 -360	IU/L
Calcium	9.65	8.4 -11.8	mg/dl
CPK	220.94	96 -368	IU/L
Cholest	163.32	108 -256	mg/dl
Albumin	1.69	1.1 -2.4	g/dl
Total Prot	3.48	2.72 -4.20	g/dl
Globulin	1.79	1.3 -2.5	g/dl
A/G Ratio	0.99	1.3 -2.5	
Amylase		-	IU/L
BileAcid	44.51	15 -78	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	8.939853	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	5.180552	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	.017004	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
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Hematology

For: Macaw Group

	Mean	Range	
WBC	15.20	10 - 20	K/ μ l
PCV	48.47	42 - 56	%
Het	63.11	50 - 75	%
Neut		-	%
Lymph	37.04	23 - 53	%
Mono	0.03	0.00 - 1	%
Eos	0.00	0.00 - 0.00	%
Baso	0.07	0.00 - 1	%
Chemistry			
SGOT (AST)	121.50	65 -168	IU/L
UricAcid	5.57	1.80 -11.79	mg/dl
LDH	135.27	70 -220	IU/L
Glucose	277.19	210 -360	IU/L
Calcium	9.66	8.4 -11.86	mg/dl
CPK	214.74	88 -361	IU/L
Cholest	167.77	96 -264	mg/dl
Albumin	1.70	0.3 -2.4	g/dl
Total Prot	3.42	2.40 -4.39	g/dl
Globulin	2.63	2.1 -3.8	g/dl
A/G Ratio	0.93	0.5 -1.4	
Amylase	421.20	239 -564	IU/L
BileAcid	48.89	7 -100	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	9.59272	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	5.63008	K/ μ l
MonoAbsolute	.00456	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	.01064	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Macaw Hahn's

	Mean	Range	
WBC	14.13	10 - 18	K/ μ l
PCV	51.29	47 - 55	%
Het	53.92	41 - 72	%
Neut		-	%
Lymph	51	27 - 71	%
Mono		0 - 2	%
Eos		0 - 1	%
Baso		0 - 01	%
Chemistry			
SGOT (AST)	184.11	133 - 216	IU/L
UricAcid	7.26	3.88 - 10.85	mg/dl
LDH	184.83	132 - 260	IU/L
Glucose	265.89	190 - 322	IU/L
Calcium	9.08	8.1 - 10.4	mg/dl
CPK	292.83	242 - 380	IU/L
Cholest	156.86	96 - 238	mg/dl
Albumin		-	g/dl
Total Prot		-	g/dl
Globulin		-	g/dl
A/G Ratio		-	
Amylase		-	IU/L
BileAcid		-	μ m/L

Mean

HetAbsolute	7.618896	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	7.2063	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	0	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

Phosphorus 4-8 mg/dl

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California Avian Laboratory- Reference Ranges

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Hematology

For: Macaw Hyacinth

	Mean	Range	
WBC	13.44	11 - 16	K/ μ l
PCV	50.07	45 - 55	%
Het	69.33	56 - 80	%
Neut		-	%
Lymph	32.46	18 - 62	%
Mono		0 - 2	%
Eos		0 - 2	%
Baso	0.09	0 - 1	%
Chemistry			
SGOT (AST)	143.17	110 -174	IU/L
UricAcid	6.79	1.53 -12.34	mg/dl
LDH	136.28	90 -208	IU/L
Glucose	271.05	216 -352	IU/L
Calcium	9.37	8.2 -11.4	mg/dl
CPK	280.23	138 -369	IU/L
Cholest	132.90	96 -216	mg/dl
Albumin	1.74	1.5 -2.2	g/dl
Total Prot	3.05	2.6 -3.4	g/dl
Globulin	1.33	0.9 -1.8	g/dl
A/G Ratio	1.35	1.07 -1.82	
Amylase		-	IU/L
BileAcid	50.46	13 -91	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	9.317952	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	4.362624	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	.012096	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Macaw Military

	Mean	Range	
WBC	16.5	12 - 20	K/ μ l
PCV	46.82	44 - 51	%
Het	71.67	58 - 85	%
Neut		-	%
Lymph	32	25 - 40	%
Mono		0 - 2	%
Eos		0 - 1	%
Baso		0 - 1	%
Chemistry			
SGOT (AST)	123.30	76 -166	IU/L
UricAcid	5.14	2.04 -10.99	mg/dl
LDH	134.81	72 -216	IU/L
Glucose	274.14	214 -340	IU/L
Calcium	9.27	8.4 -10.9	mg/dl
CPK	219.70	126 -321	IU/L
Cholest	167.46	110. -237	mg/dl
Albumin	1.59	1.2 -1.8	g/dl
Total Prot	3.45	3.0 -3.9	g/dl
Globulin	1.67	1.1 -2.1	g/dl
A/G Ratio	0.97	0.80 -1.38	
Amylase		-	IU/L
BileAcid	66.17	24 -130	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	11.82555	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	5.28	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	0	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Macaw Noble

	Mean	Range	
WBC	14.59	8 - 22	K/ μ l
PCV	52.27	48 - 56	%
Het	49.78	34 - 63	%
Neut		-	%
Lymph	48.05	32 - 66	%
Mono	0.00	0.00 - 1	%
Eos	0.00	0.00 - 1	%
Baso	0.00	0.00 - 1	%
Chemistry			
SGOT (AST)	176.73	126 -215	IU/L
UricAcid	6.38	2.18 -10.46	mg/dl
LDH		-	IU/L
Glucose	270.83	231 -300	IU/L
Calcium		-	mg/dl
CPK		-	IU/L
Cholest		-	mg/dl
Albumin		-	g/dl
Total Prot		-	g/dl
Globulin		-	g/dl
A/G Ratio		-	
Amylase		-	IU/L
BileAcid		-	μ m/L

Mean

HetAbsolute	7.262902	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	7.010495	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	0	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

Phosphorus 4-8 mg/dl

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Hematology

For: Macaw Scarlet

	Mean	Range	
WBC	12.49	10 - 14	K/ μ l
PCV	49.08	45 - 55	%
Het	60.15	48 - 73	%
Neut		-	%
Lymph	36.40	23 - 50	%
Mono	0.00	0.00 - 2	%
Eos	0.00	0.00 - 1	%
Baso	0.14	0.00 - 1	%
Chemistry			
SGOT (AST)	120.13	74 -177	IU/L
UricAcid	5.15	2.05 -10.8	mg/dl
LDH	122.24	60 -210	IU/L
Glucose	265.74	210 -333	IU/L
Calcium	9.38	8.4 -10.9	mg/dl
CPK	240.11	98 -366	IU/L
Cholest	183.15	120 -247	mg/dl
Albumin	1.68	1.4 -2.0	g/dl
Total Prot	3.23	2.43 -3.77	g/dl
Globulin	1.52	1.2 -1.8	g/dl
A/G Ratio	1.07	0.82 -1.33	
Amylase		-	IU/L
BileAcid	68.25	21 -100	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	7.512735	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	4.54636	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	.017486	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Macaw Severe

	Mean	Range	
WBC	12.11	9 - 14	K/ μ l
PCV	49.08	45 - 55	%
Het	61.10	45 - 80	%
Neut		-	%
Lymph	36.11	25 - 47	%
Mono	0.00	0.00 - 2	%
Eos	0.00	0.00 - 1	%
Baso	0.43	0.00 - 2	%
Chemistry			
SGOT (AST)	129.02	72 -170	IU/L
UricAcid	6.51	2.18 -11.8	mg/dl
LDH	128.87	66 -210	IU/L
Glucose	278.52	220 -366	IU/L
Calcium	9.40	8.4 -10.8	mg/dl
CPK	225.69	123 -356	IU/L
Cholest	180.61	100 -252	mg/dl
Albumin	1.70	1.1 -2.0	g/dl
Total Prot	3.29	2.3 -3.9	g/dl
Globulin	1.72	1.2 -2.6	g/dl
A/G Ratio	1.03	0.42 -1.8	
Amylase		-	IU/L
BileAcid	54.30	25 -82	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	7.39921	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	4.372921	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	.052073	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Macaw Yellow-collared

	Mean	Range	
WBC	13.62	10 - 16	K/ μ l
PCV	50.93	42 - 55	%
Het	63.90	54 - 74	%
Neut		-	%
Lymph	38.2	25 - 52	%
Mono	0.00	0.00 - 1	%
Eos	0.00	0.00 - 1	%
Baso	0.00	0.00 - 1	%
Chemistry			
SGOT (AST)	129.44	104 -150	IU/L
UricAcid	7.44	3.43 -11.81	mg/dl
LDH	152.00	96 -213	IU/L
Glucose	278.60	126 -363	IU/L
Calcium	10.09	8.8 -11.7	mg/dl
CPK	291.08	210 -361	IU/L
Cholest	181.74	108 -240	mg/dl
Albumin	2.02	1.2 -2.4	g/dl
Total Prot	3.69	3.2 -4.4	g/dl
Globulin	2.13	1.3 -3.2	g/dl
A/G Ratio	1.00	0.63 -1.6	
Amylase		-	IU/L
BileAcid	57.88	21 -93	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	8.70318	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	5.20284	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	0	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Meyers Parrot

	Mean	Range	
WBC	11.2	8 - 14	K/ μ l
PCV	49.90	45 - 53	%
Het	61.94	48 - 75	%
Neut		-	%
Lymph	34.21	23 - 47	%
Mono	0.00	0.00 - 2	%
Eos	0.00	0.00 - 1	%
Baso	0.00	0.00 - 1	%
Chemistry			
SGOT (AST)	229.76	156 - 352	IU/L
UricAcid	5.72	2.12 - 11.3	mg/dl
LDH		-	IU/L
Glucose	255.5	212 - 294	IU/L
Calcium	9.34	8.2 - 10.4	mg/dl
CPK		-	IU/L
Cholest		-	mg/dl
Albumin		-	g/dl
Total Prot		-	g/dl
Globulin		-	g/dl
A/G Ratio		-	
Amylase		-	IU/L
BileAcid		-	μ m/L

Mean

HetAbsolute	6.93728	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	3.83152	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	0	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

Phosphorus 4-8 mg/dl

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Hematology

For: Monitor

	Mean	Range	
WBC	9.28	5 - 12	K/ μ l
PCV	33.28	26 - 40	%
Het	59.7	47 - 71	%
Neut		-	%
Lymph	44.11	22 - 71	%
Mono	1.35	0.00 - 3	%
Eos	0.00	0.00 - 0.00	%
Baso	0.44	0.00 - 3	%
Chemistry			
SGOT (AST)	34.75	16 - 73	IU/L
UricAcid	5.59	2.79 - 9.89	mg/dl
LDH		-	IU/L
Glucose	108.36	90 - 127	IU/L
Calcium	13.07	9.2 - 15.6	mg/dl
CPK		-	IU/L
Cholest		-	mg/dl
Albumin	1.92	1.5 - 2.2	g/dl
Total Prot	5.79	4.2 - 7.1	g/dl
Globulin	3.87	2.7 - 4.9	g/dl
A/G Ratio	0.52	0.37 - 0.71	
Amylase		-	IU/L
BileAcid		-	μ m/L

Mean

HetAbsolute	5.54016	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	4.093408	K/ μ l
MonoAbsolute	.12528	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	.040832	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

Phosphorus 4-8 mg/dl

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Hematology

For: Moustache Parakeet

	Mean	Range	
WBC	11.58	8 - 15	K/ μ l
PCV	46.12	42 - 51	%
Het	66.05	50 - 79	%
Neut		-	%
Lymph	37.38	21 - 55	%
Mono	0.00	0.00 - 1	%
Eos	0.00	0.00 - 1	%
Baso	0.00	0.00 - 1	%
Chemistry			
SGOT (AST)	266.67	143 - 380	IU/L
UricAcid	6.81	3.11 - 10.5	mg/dl
LDH	300	208 - 360	IU/L
Glucose	284.6	225 - 348	IU/L
Calcium	9.3	8.3 - 10.8	mg/dl
CPK		-	IU/L
Cholest		-	mg/dl
Albumin		-	g/dl
Total Prot		-	g/dl
Globulin		-	g/dl
A/G Ratio		-	
Amylase		-	IU/L
BileAcid		-	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	7.64859	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	4.328604	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	0	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Mynah Species

	Mean	Range	
WBC	9.86	8 - 12	K/ μ l
PCV	47.71	38 - 50	%
Het	55.5	45 - 64	%
Neut		-	%
Lymph	40.45	21 - 55	%
Mono	0.00	0.00 - 1	%
Eos	0.72	0.00 - 4	%
Baso	0.00	0.00 - 1	%
Chemistry			
SGOT (AST)	284.38	200 -352	IU/L
UricAcid	7.57	2.26 -11.99	mg/dl
LDH		-	IU/L
Glucose	318.45	228 -372	IU/L
Calcium	9.41	8.2 -10.8	mg/dl
CPK	336.57	250 -414	IU/L
Cholest	204.05	126 -244	mg/dl
Albumin	2.4	2 -2.8	g/dl
Total Prot	3.56	3 -4.30	g/dl
Globulin	1.01	1.6 -4.0	g/dl
A/G Ratio	1.68	1 -2.67	
Amylase		-	IU/L
BileAcid	58.19	30 -96	μ m/L

Phosphorus 4-8 mg/dl

	Mean	
HetAbsolute	5.4723	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	3.98837	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	.070992	K/ μ l
BasoAbsolute	0	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Ostrich

	Mean	Range	
WBC	18.7	10 - 24	K/ μ l
PCV	45	41 - 57	%
Het	72.9	58 - 89	%
Neut		-	%
Lymph	24.2	12 - 41	%
Mono	2.64	0 - 4	%
Eos	0.04	0 - 2	%
Baso	0.2	0 - 2	%
Chemistry			
SGOT (AST)	447.9	226 - 547	IU/L
UricAcid	8.62	1 - 15	mg/dl
LDH	970	408 - 1236	IU/L
Glucose	217	164 - 330	IU/L
Calcium	10.7	8 - 13.6	mg/dl
CPK	3702	800 - 6508	IU/L
Cholest	103	39 - 172	mg/dl
Albumin	1.7	1.1 - 2.3	g/dl
Total Prot	3.9	2.4 - 5.3	g/dl
Globulin	2.21	1.4 - 3.1	g/dl
A/G Ratio		-	
Amylase		-	IU/L
BileAcid		-	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	13.6323	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	4.5254	K/ μ l
MonoAbsolute	.49368	K/ μ l
EosAbsolute	.00748	K/ μ l
BasoAbsolute	.0374	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Owl Great Horned

	Mean	Range	
WBC	17	10 - 25	K/ μ l
PCV	38.13	30 - 50	%
Het	69.18	56 - 79	%
Neut		-	%
Lymph	28	20 - 48	%
Mono		0 - 2	%
Eos	4.64	0 - 11	%
Baso		0 - 1	%
Chemistry			
SGOT (AST)	196.67	104 - 344	IU/L
UricAcid	8.52	3.08 - 11.83	mg/dl
LDH	282.78	142 - 383	IU/L
Glucose	319.05	237 - 390	IU/L
Calcium	10.23	8.8 - 12.4	mg/dl
CPK	286.67	252 - 376	IU/L
Cholest	191.44	114 - 261	mg/dl
Albumin	1.63	1.1 - 2	g/dl
Total Prot	3.95	3.3 - 4.59	g/dl
Globulin	2.52	2.1 - 3.3	g/dl
A/G Ratio	0.71	0.44 - 0.95	
Amylase		-	IU/L
BileAcid	23.5	8 - 54	μ m/L

Phosphorus 4-8 mg/dl

	Mean	
HetAbsolute	11.7606	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	4.76	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	.7888	K/ μ l
BasoAbsolute	0	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

For Further Clinical Support/Consultation, please call California Avian Lab at (877) 521-6004 or (916) 933-0898; fax (916) 405-3376 with the Accession#(s)

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California Avian Laboratory- Reference Ranges

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Hematology

For: Parakeet Alexandrine

	Mean	Range	
WBC	14.27	10 - 16	K/ μ l
PCV	47.44	45 - 54	%
Het	62.4	51 - 73	%
Neut		-	%
Lymph	36.47	27 - 49	%
Mono	0.00	0.00 - 1	%
Eos	0.00	0.00 - 1	%
Baso	0.00	0.00 - 1	%
Chemistry			
SGOT (AST)	252.71	159 - 303	IU/L
UricAcid	7.16	4.33 - 10.76	mg/dl
LDH		-	IU/L
Glucose	254.31	192 - 308	IU/L
Calcium	9.13	8 - 10.93	mg/dl
CPK		-	IU/L
Cholest		-	mg/dl
Albumin		-	g/dl
Total Prot		-	g/dl
Globulin		-	g/dl
A/G Ratio		-	
Amylase		-	IU/L
BileAcid		-	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	8.90448	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	5.204269	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	0	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Parakeet Ringneck

	Mean	Range	
WBC	11.23	8 - 14	K/ μ l
PCV	49.5	45 - 54	%
Het	53.72	40 - 68	%
Neut		-	%
Lymph	44.13	32 - 56	%
Mono	0.00	0.00 - 1	%
Eos	0.00	0.00 - 1	%
Baso	0.00	0.00 - 1	%
Chemistry			
SGOT (AST)	280.76	152 - 386	IU/L
UricAcid	6.70	3.26 - 11.78	mg/dl
LDH	213.92	150 - 318	IU/L
Glucose	294.35	220 - 354	IU/L
Calcium	9.21	8.4 - 10.4	mg/dl
CPK		-	IU/L
Cholest		-	mg/dl
Albumin		-	g/dl
Total Prot		-	g/dl
Globulin		-	g/dl
A/G Ratio		-	
Amylase		-	IU/L
BileAcid		-	μ m/L
Phosphorus	4-8 mg/dl		

	Mean	
HetAbsolute	6.032756	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	4.955799	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	0	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Parrot Red-bellied

	Mean	Range	
WBC	12.56	9 - 16	K/ μ l
PCV	48.25	45 - 51	%
Het	59.89	56 - 67	%
Neut		-	%
Lymph	47	33 - 72	%
Mono	0.00	0.00 - 2	%
Eos	0.00	0.00 - 2	%
Baso	0.00	0.00 - 1	%
Chemistry			
SGOT (AST)	245.77	176 - 316	IU/L
UricAcid	6.55	3.00 - 9.46	mg/dl
LDH		-	IU/L
Glucose	275.10	232 - 326	IU/L
Calcium		-	mg/dl
CPK		-	IU/L
Cholest		-	mg/dl
Albumin		-	g/dl
Total Prot		-	g/dl
Globulin		-	g/dl
A/G Ratio		-	
Amylase		-	IU/L
BileAcid		-	μ m/L

Mean

HetAbsolute	7.522184	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	5.9032	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	0	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

Phosphorus 4-8 mg/dl

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Hematology

For: Parrot Thick-billed

	Mean	Range	
WBC	12.25	8 - 21	K/ μ l
PCV	39.29	33 - 43	%
Het	50.13	32 - 68	%
Neut		-	%
Lymph	39	20 - 56	%
Mono		0 - 1	%
Eos		0 - 1	%
Baso		0 - 1	%
Chemistry			
SGOT (AST)	186.50	143 - 280	IU/L
UricAcid	6.47	3.40 - 11.49	mg/dl
LDH	173	158 - 202	IU/L
Glucose	295	246 - 350	IU/L
Calcium	9.11	8 - 10.5	mg/dl
CPK	251.60	200 - 344	IU/L
Cholest	159.78	102 - 214	mg/dl
Albumin	1.28	1.2 - 1.4	g/dl
Total Prot	3.03	2.8 - 3.6	g/dl
Globulin	1.75	1.5 - 2.2	g/dl
A/G Ratio	0.74	0.64 - 0.87	
Amylase		-	IU/L
BileAcid	55	22 - 98	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	6.140925	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	4.7775	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	0	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
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Hematology

For: Parrotlet

	Mean	Range	
WBC	8.76	6 - 13	K/ μ l
PCV	50.75	48 - 55	%
Het	64.21	55 - 74	%
Neut		-	%
Lymph	35.6	24 - 50	%
Mono	0.00	0.00 - 1	%
Eos	0.00	0.00 - 1	%
Baso	0.00	0.00 - 1	%
Chemistry			
SGOT (AST)	173.74	110 - 224	IU/L
UricAcid	8.23	4.11 - 11.67	mg/dl
LDH		-	IU/L
Glucose	308.67	252 - 384	IU/L
Calcium		-	mg/dl
CPK		-	IU/L
Cholest		-	mg/dl
Albumin		-	g/dl
Total Prot		-	g/dl
Globulin		-	g/dl
A/G Ratio		-	
Amylase		-	IU/L
BileAcid		-	μ m/L

Mean

HetAbsolute	5.624796	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	3.11856	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	0	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

Phosphorus 4-8 mg/dl

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Hematology

For: Pionus Blue-headed

	Mean	Range	
WBC	12.64	10 - 16	K/ μ l
PCV	48.14	40 - 53	%
Het	59.4	44 - 77	%
Neut		-	%
Lymph	35.77	19 - 52	%
Mono	0.00	0.00 - 1	%
Eos	0.00	0.00 - 1	%
Baso	0.00	0.00 - 2	%
Chemistry			
SGOT (AST)	241.83	148 - 342	IU/L
UricAcid	6.11	3.10 - 11.95	mg/dl
LDH	225.25	138 - 384	IU/L
Glucose	276.42	200 - 348	IU/L
Calcium	8.93	8 - 10	mg/dl
CPK		-	IU/L
Cholest		-	mg/dl
Albumin		-	g/dl
Total Prot		-	g/dl
Globulin		-	g/dl
A/G Ratio		-	
Amylase		-	IU/L
BileAcid		-	μ m/L

Phosphorus 4-8 mg/dl

	Mean	
HetAbsolute	7.50816	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	4.521328	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	0	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Pionus Group

	Mean	Range	
WBC	9.61	5 - 13	K/ μ l
PCV	49.76	45 - 54	%
Het	65.77	55 - 74	%
Neut		-	%
Lymph	41.61	19 - 70	%
Mono	0.00	0.00 - 1	%
Eos	0.00	0.00 - 1	%
Baso	0.15	0.00 - 1	%
Chemistry			
SGOT (AST)	222.32	135 - 358	IU/L
UricAcid	5.91	2.03 - 11.52	mg/dl
LDH	248.49	179 - 384	IU/L
Glucose	279.45	212 - 368	IU/L
Calcium	9.23	8.2 - 10.4	mg/dl
CPK	276.14	116 - 408	IU/L
Cholest	229	176 - 258	mg/dl
Albumin	1.55	1.11 - 2	g/dl
Total Prot	3.41	2.3 - 4.3	g/dl
Globulin	1.69	1.1 - 2.7	g/dl
A/G Ratio	1.14	0.56 - 1.88	
Amylase		-	IU/L
BileAcid	47	15 - 92	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	6.320497	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	3.998721	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	.014415	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Pionus White-capped

	Mean	Range	
WBC	8.84	5 - 11	K/ μ l
PCV	50.61	47 - 55	%
Het	60.79	47 - 74	%
Neut		-	%
Lymph	42.62	20 - 70	%
Mono	0.00	0.00 - 1	%
Eos	0.00	0.00 - 1	%
Baso	0.00	0.00 - 2	%
Chemistry			
SGOT (AST)	213.53	120 - 346	IU/L
UricAcid	5.62	2.13 - 11.13	mg/dl
LDH	228.50	157 - 354	IU/L
Glucose	282.51	221 - 348	IU/L
Calcium	8.94	8.2 - 10.0	mg/dl
CPK	219.56	106 - 365	IU/L
Cholest		-	mg/dl
Albumin		-	g/dl
Total Prot		-	g/dl
Globulin		-	g/dl
A/G Ratio		-	
Amylase		-	IU/L
BileAcid		-	μ m/L

Phosphorus 4-8 mg/dl

	Mean	
HetAbsolute	5.373836	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	3.767608	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	0	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Python Ball

	Mean	Range	
WBC	14.77	6 - 28	K/ μ l
PCV	26	20 - 30	%
Het	40.56	26 - 55	%
Neut		-	%
Lymph	52.83	44 - 61	%
Mono		0 - 3	%
Eos		0 - 1	%
Baso	1.33	0 - 4	%
Chemistry			
SGOT (AST)	25.65	3 - 52	IU/L
UricAcid	4.52	2.14 - 7.73	mg/dl
LDH	68.91	19 - 126	IU/L
Glucose	33.28	11.82 - 65	IU/L
Calcium	14.65	11.64 - 16.9	mg/dl
CPK		-	IU/L
Cholest		-	mg/dl
Albumin		-	g/dl
Total Prot		-	g/dl
Globulin		-	g/dl
A/G Ratio		-	
Amylase		-	IU/L
BileAcid		-	μ m/L

Mean

HetAbsolute	5.990712	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	7.802991	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	.196441	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

Phosphorus 4-8 mg/dl

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Hematology

For: Python Group

	Mean	Range	
WBC	10.39	8 - 12	K/ μ l
PCV	29.56	24 - 38	%
Het	48.16	30 - 68	%
Neut		-	%
Lymph	39.84	20 - 60	%
Mono	1.34	0.00 - 3	%
Eos	0.00	0.00 - 0.00	%
Baso	1.29	0.00 - 4	%
Chemistry			
SGOT (AST)	24.57	2 - 48	IU/L
UricAcid	5.74	2.14 - 11.89	mg/dl
LDH	79.17	37 - 126	IU/L
Glucose	43.33	12 - 80	IU/L
Calcium	15.65	11.7 - 17.8	mg/dl
CPK	154	82 - 239	IU/L
Cholest		-	mg/dl
Albumin	2.82	2.2 - 3.9	g/dl
Total Prot	6.1	4.1 - 7.9	g/dl
Globulin	3.93	3.2 - 4.8	g/dl
A/G Ratio	0.66	0.42 - 0.87	
Amylase		-	IU/L
BileAcid	29.33	8 - 61	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	5.003824	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	4.139376	K/ μ l
MonoAbsolute	.139226	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	.134031	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Quaker Parakeet

	Mean	Range	
WBC	12.20	8 - 17	K/ μ l
PCV	49.74	45 - 58	%
Het	61.03	47 - 70	%
Neut		-	%
Lymph	34.48	20 - 63	%
Mono	0.39	0 - 4	%
Eos		-	%
Baso	0.63	0 - 3	%
Chemistry			
SGOT (AST)	248.57	130 - 380	IU/L
UricAcid	6.80	2.24 - 11.98	mg/dl
LDH	242.96	138 - 360	IU/L
Glucose	287.94	210 - 395	IU/L
Calcium	9.23	8.4 - 10.8	mg/dl
CPK	318.84	192 - 402	IU/L
Cholest	219.09	100 - 262	mg/dl
Albumin	1.66	1.3 - 2.0	g/dl
Total Prot	3.12	2.5 - 3.7	g/dl
Globulin	1.35	0.9 - 2	g/dl
A/G Ratio	1.18	0.73 - 1.82	
Amylase		-	IU/L
BileAcid	55.29	21 - 90	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	7.44566	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	4.20656	K/ μ l
MonoAbsolute	.04758	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	.07686	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Rabbit

	Mean	Range	
WBC	8.55	5 - 12	K/ μ l
PCV	40.08	34 - 50	%
Het	47.76	34 - 60	%
Neut		-	%
Lymph	52.61	43 - 62	%
Mono	0.41	0.00 - 2	%
Eos	0.26	0.00 - 2	%
Baso	0.00	0.00 - 1	%
Chemistry			
SGOT (AST)	56.76	33 - 99	IU/L
UricAcid		-	mg/dl
LDH	187.22	132 - 252	IU/L
Glucose	135.43	108 - 160	IU/L
Calcium	14.23	8.7 - 18.4	mg/dl
CPK	263.38	140 - 372	IU/L
Cholest	42.61	24 - 65	mg/dl
Albumin	3.13	2.7 - 3.6	g/dl
Total Prot	6.07	4.9 - 7.1	g/dl
Globulin	2.82	2.4 - 3.3	g/dl
A/G Ratio	1.09	0.7 - 1.89	
Amylase		-	IU/L
BileAcid	11.58	3 - 20	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	4.08348	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	4.498155	K/ μ l
MonoAbsolute	.035055	K/ μ l
EosAbsolute	.02223	K/ μ l
BasoAbsolute	0	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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California Avian Laboratory- Reference Ranges

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Hematology

For: Rosella

	Mean	Range	
WBC	11.83	9 - 15	K/ μ l
PCV	50.95	45 - 60	%
Het	56.93	46 - 69	%
Neut		-	%
Lymph	45.26	25 - 64	%
Mono	0.00	0.00 - 2	%
Eos	0.00	0.00 - 1	%
Baso	0.00	0.00 - 2	%
Chemistry			
SGOT (AST)	176.33	116 - 258	IU/L
UricAcid	7.22	3.39 - 10.67	mg/dl
LDH	223.86	121 - 348	IU/L
Glucose	337.63	281 - 396	IU/L
Calcium	9.27	8 - 10.9	mg/dl
CPK		-	IU/L
Cholest		-	mg/dl
Albumin		-	g/dl
Total Prot		-	g/dl
Globulin		-	g/dl
A/G Ratio		-	
Amylase		-	IU/L
BileAcid		-	μ m/L

Mean

HetAbsolute	6.734819	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	5.354258	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	0	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

Phosphorus 4-8 mg/dl

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Hematology

For: Senegal Parrot

	Mean	Range	
WBC	10.66	6 - 14	K/ μ l
PCV	50.59	45 - 60	%
Het	58.57	44 - 73	%
Neut		-	%
Lymph	46.34	22 - 70	%
Mono	0.00	0.00 - 1	%
Eos	0.25	0.00 - 2	%
Baso	0.07	0.00 - 1	%
Chemistry			
SGOT (AST)	202.83	120 - 330	IU/L
UricAcid	5.95	2.26 - 11.90	mg/dl
LDH	254.13	153 - 396	IU/L
Glucose	288.68	256 - 354	IU/L
Calcium	9.24	8.4 - 10.8	mg/dl
CPK	288.03	151 - 396	IU/L
Cholest	193.76	114 - 250	mg/dl
Albumin	1.73	1.00 - 2.40	g/dl
Total Prot	3.42	2.90 - 4.12	g/dl
Globulin	1.70	1.3 - 2.9	g/dl
A/G Ratio		-	
Amylase		-	IU/L
BileAcid	58.72	20 - 94	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	6.243562	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	4.939844	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	.02665	K/ μ l
BasoAbsolute	.007462	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
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Hematology

For: Swan

	Mean	Range	
WBC	13.38	11 - 16	K/ μ l
PCV	45.58	42 - 50	%
Het	53.17	34 - 67	%
Neut		-	%
Lymph	41.04	23 - 66	%
Mono	0.00	0.00 - 2	%
Eos	0.00	0.00 - 1	%
Baso	0.00	0.00 - 1	%
Chemistry			
SGOT (AST)	52.32	10 -108	IU/L
UricAcid	6.82	2.12 -11	mg/dl
LDH	244.17	150 -352	IU/L
Glucose	187.91	132 -360	IU/L
Calcium	10.92	8.2 -13.4	mg/dl
CPK	246.94	130 -389	IU/L
Cholest	164.56	92 -250	mg/dl
Albumin	1.54	1.2 -1.8	g/dl
Total Prot	3.36	2.3 -4.4	g/dl
Globulin	1.73	1.1 -2.6	g/dl
A/G Ratio	0.98	0.55 -1.56	
Amylase		-	IU/L
BileAcid	38.88	18 -85	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	7.114146	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	5.491152	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	0	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Tortoise California Desert

	Mean	Range	
WBC	9.37	7 - 12	K/ μ l
PCV	30.24	23 - 35	%
Het	56.54	38 - 72	%
Neut		-	%
Lymph	37.76	23 - 56	%
Mono	0.65	0.00 - 2	%
Eos	0.90	0.00 - 3	%
Baso	2.41	0.00 - 5	%
Chemistry			
SGOT (AST)	32.64	16 - 46	IU/L
UricAcid	5.14	1.85 - 10.8	mg/dl
LDH	186.17	104 - 256	IU/L
Glucose	68.02	15 - 90	IU/L
Calcium	8.28	6 - 9.6	mg/dl
CPK	426.55	50 - 666	IU/L
Cholest		-	mg/dl
Albumin	1.97	1.4 - 2.4	g/dl
Total Prot	4.59	2.08 - 6.9	g/dl
Globulin	2.93	2.4 - 3.8	g/dl
A/G Ratio	0.73	0.37 - 1	
Amylase		-	IU/L
BileAcid	38	18 - 56	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	5.297798	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	3.538112	K/ μ l
MonoAbsolute	.060905	K/ μ l
EosAbsolute	.08433	K/ μ l
BasoAbsolute	.225817	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Tortoise Leopard

	Mean	Range	
WBC	11.35	8 - 16	K/ μ l
PCV	33.65	27 - 40	%
Het	47.42	29 - 66	%
Neut		-	%
Lymph	14.82	21 - 69	%
Mono	0.00	0.00 - 2	%
Eos	0.00	0.00 - 4	%
Baso	0.00	0.00 - 3	%
Chemistry			
SGOT (AST)	59.82	29 - 96	IU/L
UricAcid	4.18	2.10 - 7.324	mg/dl
LDH		-	IU/L
Glucose	72.63	42 - 108	IU/L
Calcium	10.44	8.7 - 13.2	mg/dl
CPK		-	IU/L
Cholest		-	mg/dl
Albumin	3.13	2.2 - 4.0	g/dl
Total Prot		-	g/dl
Globulin		-	g/dl
A/G Ratio		-	
Amylase		-	IU/L
BileAcid		-	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	5.38217	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	1.68207	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	0	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Tortoise Texas

	Mean	Range	
WBC	8.21	4 - 11	K/ μ l
PCV	35.61	32 - 40	%
Het	51.17	38 - 63	%
Neut		-	%
Lymph	34.71	17 - 52	%
Mono	0.00	0.00 - 1	%
Eos	0.00	0.00 - 2	%
Baso	1.56	0.00 - 2	%
Chemistry			
SGOT (AST)	24.44	15 - 30	IU/L
UricAcid	5.12	2.45 - 8.65	mg/dl
LDH		-	IU/L
Glucose	73.34	42 - 128	IU/L
Calcium	11.33	9.9 - 12.8	mg/dl
CPK	231	125 - 372	IU/L
Cholest		-	mg/dl
Albumin		-	g/dl
Total Prot		-	g/dl
Globulin		-	g/dl
A/G Ratio		-	
Amylase		-	IU/L
BileAcid		-	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	4.201057	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	2.849691	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	.128076	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
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Hematology

For: Toucan

	Mean	Range	
WBC	13.54	8 - 18	K/ μ l
PCV	49.82	42 - 60	%
Het	51.86	41 - 62	%
Neut		-	%
Lymph	50.47	35 - 70	%
Mono	0.00	0.00 - 2	%
Eos	0.67	0.00 - 3	%
Baso	0.00	0.00 - 1	%
Chemistry			
SGOT (AST)	243.31	141 - 340	IU/L
UricAcid	7.93	2.43 - 14.00	mg/dl
LDH	257.55	180 - 319	IU/L
Glucose	297.85	222 - 363	IU/L
Calcium	10.23	8.8 - 11.82	mg/dl
CPK		-	IU/L
Cholest	175.08	104 - 254	mg/dl
Albumin	2.06	1.4 - 2.4	g/dl
Total Prot	3.49	2.8 - 4.42	g/dl
Globulin	1.79	1.4 - 2.2	g/dl
A/G Ratio	1.42	0.92 - 2.67	
Amylase		-	IU/L
BileAcid	54.37	16 - 86	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	7.021844	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	6.833638	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	.090718	K/ μ l
BasoAbsolute	0	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
- 4) Look at the leukogram/erythrogram
- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
- 7) Consider the clinical signs/history as they relate to the out of range values to build a differential diagnosis

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Hematology

For: Turtle Box

	Mean	Range	
WBC	10.77	8 - 13	K/ μ l
PCV	31.6	27 - 38	%
Het	44.33	21 - 69	%
Neut		-	%
Lymph	45.68	32 - 63	%
Mono	1.06	0.00 - 3	%
Eos	0.19	0.00 - 1	%
Baso	1.92	0.00 - 4	%
Chemistry			
SGOT (AST)	68.5	40 - 96	IU/L
UricAcid	4.78	2.08 - 10.42	mg/dl
LDH		-	IU/L
Glucose	69.59	22 - 127	IU/L
Calcium	10.06	7.5 - 11.8	mg/dl
CPK		-	IU/L
Cholest		-	mg/dl
Albumin		-	g/dl
Total Prot		-	g/dl
Globulin		-	g/dl
A/G Ratio		-	
Amylase		-	IU/L
BileAcid		-	μ m/L

Mean

HetAbsolute	4.774341	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	4.919736	K/ μ l
MonoAbsolute	.114162	K/ μ l
EosAbsolute	.020463	K/ μ l
BasoAbsolute	.206784	K/ μ l

Interpretation of avian/exotic blood panels

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- 2) Consider effect of pre-sampling therapy on the blood values
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- 5) Next look at the enzyme pattern
- 6) Next look at the remaining chems
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Phosphorus 4-8 mg/dl

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Hematology

For: Water Dragon

	Mean	Range	
WBC	19.42	16 - 23	K/ μ l
PCV		-	%
Het	35.2	26 - 50	%
Neut		-	%
Lymph	44.86	22 - 65	%
Mono	0.00	0.00 - 2	%
Eos	0.00	0.00 - 1	%
Baso	1	0.00 - 2	%
Chemistry			
SGOT (AST)	27.44	4 - 60	IU/L
UricAcid	3.70	1.32 - 7.56	mg/dl
LDH		-	IU/L
Glucose	120.33	60 - 183	IU/L
Calcium	11.62	9.6 - 14.7	mg/dl
CPK		-	IU/L
Cholest		-	mg/dl
Albumin		-	g/dl
Total Prot		-	g/dl
Globulin		-	g/dl
A/G Ratio		-	
Amylase		-	IU/L
BileAcid		-	μ m/L

Phosphorus 4-8 mg/dl

Mean

HetAbsolute	6.83584	K/ μ l
NeutAbsolute	0	K/ μ l
LymphAbsolute	8.711812	K/ μ l
MonoAbsolute	0	K/ μ l
EosAbsolute	0	K/ μ l
BasoAbsolute	.1942	K/ μ l

Interpretation of avian/exotic blood panels

- 1) Consider effect of sample quality: age, non-separation, hemolysis, lipemia
- 2) Consider effect of pre-sampling therapy on the blood values
- 3) Was the patient clinically normal, excited, stressed, clinically ill?
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- 5) Next look at the enzyme pattern
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