BioNutritional Diagnostics, Inc.

BioNutritional Analysis Prepared For LADY RICCIARDI

Report Number:	BN0155864
Report Date:	16-AUG-00
Client Name:	RICCIARDI
Doctor:	Dr.Cindi Bossart
Hospital Name:	The Animal Hospital of Ft.Lauderdale
Patient Species:	Canine
Patient Breed:	Great Dane
Patient Age:	7
Patient Sex:	Female (Spayed)
Patient Weight:	132 lbs
Current Medications:	Adequan Inj./Cosequin
Vaccination History:	Rabies
Diagnosis:	Musculo-Skeletal-Arthritis

BNA is intended to evaluate the metabolic and nutritional requirements of animals for optimum health and well-being. It is not intended to diagnose specific disease nor to recommend medical therapy.

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BNA Summary Results for LADY RICCIARDI

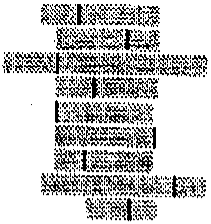
The blood results for LADY RICCIARDI have been compared to the Normal and Optimum Ranges. The following categorizes the results as (1) Outside the Normal Range (2) Within the Normal Range but outside the Optimum Range or (3) Within the Optimum Range.

Outside Normal	Result	Reference	Optimum
CPK	29	59-895	268-686
HEMATOCRIT	61.5	36-60	42-54

Normal Not Optimal	Result	Reference	Optimum
GGTP	2	1-12	3-4.5
LACTIC DEHYDROGENASE (LDH)	66	20-500	140-380
TOTAL BILIRUBIN	.1	.1-.3	.1-.3
ABSOLUTE LYMPHOCYTES	950	690-4500	1643-3548
ABSOLUTE MONOCYTES	50	0-840	210-790
ABSOLUTE POLYS	3650	2060-10600	4195-8465
AST(SGOT)	22	15-66	28-53
CREATININE	1.6	.5-1.6	.8-1.3
HEMOGLOBIN	19.1	12.1-20.3	14.2-18.3
LIPASE	166	77-695	232-541
TRIGLYCERIDES	60	29-291	95-226
UREA NITROGEN	23	6-25	14-19
WBC (White Blood Cells)	5	4-15.5	6.9-12.6
CHLORIDE	105	102-120	107-116
PHOSPHOROUS	3.2	2.5-6	3.4-5.1

Optimal	Result	Reference	Optimum
A/G	1.3	.8-2	1.1-1.7
ABSOLUTE EOSINOPHILS	350	0-1200	50-900
ALBUMIN	3.7	2.7-4.4	3.1-4
ALKALINE PHOSPHATASE	39	5-131	37-100
ALT (SGPT)	39	12-118	39-77
AMYLASE	804	290-1125	499-916
BUN/CREATININE	14	4-27	10-21
CALCIUM	10.4	8.9-11.4	9.5-10.8

CHOLESTEROL	176	92-324	135-266
GLOBULIN	2.8	1.6-3.6	2.1-3.1
GLUCOSE	100	70-138	70-183
PLATELET COUNT	269	170-400	228-343
POTASSIUM	4.1	3.6-5.5	4.1-5
RBC (Red Blood Cells)	8.17	4.8-9.3	5.93-8.18
SODIUM	145	139-154	143-150
T4	3.5	1-4	1.6-4
TOTAL PROTEIN	6.5	5-7.4	6-6.8



BNA Detailed Results for LADY RICCIARDI

The following explains the blood results that are metabolically significant:

ABSOLUTE LYMPHOCYTES

Result: 950 Optimum Range: 1643-3548 Reference Range: 690-4500

A depressed LYMPHOCYTE count indicates an imbalanced or weakened immune system. This may indicate weaknesses in the thymus as well as the requirement for vitamin C and vitamin B complex.

ABSOLUTE MONOCYTES

Result: 50 Optimum Range: 210-790 Reference Range: 0-840

A depressed MONOCYTE count may indicate a weakened thymus as well as the requirement for vitamin A and vitamin C.

ABSOLUTE POLYS

Result: 3650 Optimum Range: 4195-8465 Reference Range: 2060-10600

A depressed POLYS count indicates an imbalanced or weakened immune system. This may indicate weaknesses in the thymus as well as the requirement for vitamin C.

AST(SGOT)

Result: 22 Optimum Range: 28-53 Reference Range: 15-66

A depressed ASPARTATE AMINOTRANSFERASE level indicates that the cell membranes are impaired and that there may be weaknesses in glands such as the gonads (male or female), liver and thyroid as well as the requirement for coenzyme Q10.

CHLORIDE

Result: 105 Optimum Range: 107-116 Reference Range: 102-120

A depressed CHLORIDE level indicates excessive breakdown of tissues or other medical problems such as vomiting or retention of fluids. This may indicate an acid deficiency requiring a nutrient source such as Betaine. This may also indicate the requirement for the B vitamins such as folic acid, PABA and vitamin B6. This may also indicate a weakness in the adrenal glands.

CPK

Result: 29 Optimum Range: 268-686 Reference Range: 59-895

A depressed CREATINE PHOSPHOKINASE level may indicate atrophy or wasting of the muscles, including the muscles of the heart. This may also indicate deficiencies of essential amino acids and vitamin E.

CREATININE

Result: 1.6 Optimum Range: .8-1.3 Reference Range: .5-1.6

An elevated CREATININE level indicates impaired metabolism in the muscles as well as improper protein absorption. This may indicate weaknesses in the pancreas leading to low levels of pancreatic enzymes as well as weaknesses in the anterior pituitary and gonadal system. This may also indicate serious kidney disease.

GGTP

Result: 2 Optimum Range: 3-4.5 Reference Range: 1-12

A depressed GAMMA GLUTAMYL TRANSFERASE level indicates weaknesses in the liver.

HEMATOCRIT

Result: 61.5 Optimum Range: 42-54 Reference Range: 36-60

An elevated HEMATOCRIT indicates less than desired levels of water in the body (dehydration). This may indicate weaknesses in the spleen, kidney, and spleen.

HEMOGLOBIN

Result: 19.1 Optimum Range: 14.2-18.3 Reference Range: 12.1-20.3

An elevated HEMOGLOBIN level may indicate weaknesses in the liver and spleen.

LACTIC DEHYDROGENASE (LDH)

Result: 66 Optimum Range: 140-380 Reference Range: 20-500

A depressed LACTIC DEHYDROGENASE level indicates low blood sugar (hypoglycemia) and an alkaline blood. This may cause the body to retain water. This indicates deficiencies of such acidic nutrients as folic acid, PABA and pantothenic acid as well as vitamin C (ascorbic acid). This may also indicate weaknesses in the pancreas.

LIPASE	**Result: 166**	**Optimum Range: 232-841**	**Reference Range: 77-695**
	A depressed LIPASE level indicates weaknesses in the pancreas as well as the body's inability to properly digest fats. This may also indicate deficiencies of digestive enzymes, including lipase. Diet should be adjusted to minimize saturated fats and chemical preservatives, as well as to ensure the intake of the proper levels of essential fatty acids.		
PHOSPHOROUS	**Result: 3.2**	**Optimum Range: 3.4-5.1**	**Reference Range: 2.5-6**
	A depressed PHOSPHORUS level indicates an acidic digestive tract and improper digestion of carbohydrates in the liver. This may indicate weaknesses in the stomach and duodenum (intestines). This may also indicate the requirement for such alkaline nutrients as vitamin B complex and niacinamide, and the need for a non-acid producing diet. Improved digestion can be achieved by the addition of such digestive aids as pepsin and bromelain.		
TOTAL BILIRUBIN	**Result: .1**	**Optimum Range: .1-.3**	**Reference Range: .1-.3**
	A depressed TOTAL BILIRUBIN level indicates that the body may be fighting off an infection and a weakness of the spleen.		
TRIGLYCERIDES	**Result: 60**	**Optimum Range: 95-226**	**Reference Range: 29-291**
	A depressed TRIGLYCERIDE level indicates the body's inability to properly digest carbohydrates, which may lead to lower than desirable levels of sugar in the blood (hypoglycemia). This may indicate an imbalance of acid levels in the stomach and intestines. This may also indicate deficiencies of essential fatty acids, lecithin, inositol and choline.		
UREA NITROGEN	**Result: 23**	**Optimum Range: 14-19**	**Reference Range: 6-25**
	An elevated BUN level indicates an overload of the liver and kidneys as well as weaknesses in the pituitary, thyroid and liver, which oversee protein metabolism. This overload may indicate a deficiency of important minerals such as magnesium, copper, iodine and iron. It may also indicate serious kidney disease.		
WBC (White Blood Cells)	**Result: 5**	**Optimum Range: 6.9-12.6**	**Reference Range: 4-15.8**
	A depressed WHITE BLOOD CELL count indicates an imbalanced or weakened immune system. This may indicate weaknesses in the thymus as well as the requirement for vitamin C and vitamin B complex.		

Recommended Therapy for LADY RICCIARDI

Based upon the above results, the following BNA Nutraceutical Therapy is recommended for LADY RICCIARDI:

Powdered

Vitamins	Dosage	Frequency	Nutrients	Dosage	Frequency
Vitamin B (Acid)	55 mg	BID	Lecithin, Inositol, Choline	822 mg	BID
Vitamin C Complex	850 mg	BID			
Vitamin E	406 IU	BID			

Minerals	Dosage	Frequency	Medicinals	Dosage	Frequency
Copper	990 mcg	BID	SOD	468 mg	BID
Iodine	575 mcg	BID			
Iron	20 mg	BID			
Magnesium	13 mg	BID			
Trace/Essential Minerals	21 mg	BID			

Enzymes	Dosage	Frequency	Glands	Dosage	Frequency
Pancreatin	18150 USP	BID	Heart	193 mg	BID
			Kidney	185 mg	BID
			Liver	525 mg	BID
			Ovary/Uterus	173 mg	BID
			Pancreas	262 mg	BID
			Pituitary (Anterior)	40 mg	BID
			Thymus	121 mg	BID