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# Using a Veterinary Nutritional Survey

## Part 2

Ava Frick, DVM

# A Systems Approach to Nutritional Supplementation

Using a questionnaire to  
help guide your decisions

# C.A.N. Survey<sup>©</sup>



## 10 component parts

1. Sympathetic System
2. Parasympathetic System
3. Carbohydrate Metabolism
4. Cardio-Respiratory System
5. Liver
6. Digestive System
7. Endocrine System (Thyroid, Pituitary, Adrenal)
8. Musculoskeletal
9. Renal System
10. Immune and Integument

**Standard  
Process**  
*Whole Food Supplements Since 1929*



A balanced intake of the right food factors  
is the essential ingredient.

Group 1

# **SYMPATHETIC SYSTEM**



# Sympathetic System

- 1 of 3 divisions of the Autonomic Nervous System
- Fright or Flight, the body's "go", Type-A person
- Personality traits in animals correspond with nervousness, aggression, anxiety, fears, phobias, ...
  - Associated with most of the 'bad' behavior issues.
- Can exhaust the individual, indicative of certain vitamin and mineral imbalances

# Sympathetic System – Nutritional Support

## Diet

- Grain Free

## Whole Food Supplements

- Canine Whole Body Support
- Feline Whole Body Support





# Sympathetic System – Nutritional Support

## Herbs

- St. John's Wort
  - A natural calmative, helps to establish balanced function of the central nervous system
- Valerian
- Passion Flower
- Spiny Jujube
- Eleuthero
- Skullcap

Group 2

# PARASYMPATHETIC SYSTEM



# Parasympathetic System

- 1 of 3 divisions of the Autonomic Nervous System
- The breaks to the system
  - Couch potato, slow mover, susceptible to infections, low endocrine function
  - Runs during digestion
- Indicative of certain vitamin and mineral imbalances

# Parasympathetic System – Nutritional Support

## Diet

- Grain Free

## Whole Food Supplements

- Canine Whole Body Support
- Feline Whole Body Support
- Canine Cardiac Support
- Feline Cardiac Support



# Parasympathetic System – Additional Support

- Canine Thyroid Support
- Canine Adrenal Support
- Protefood®
- Nutrimere®
- Whey Pro Complete



Group 3

# CARBOHYDRATE METABOLISM



# Carbohydrate Metabolism



- Glucose
- Insulin
- Zinc
- Chromium
- Vitamin B complex
- Pancreas function
- Liver function

# Carbohydrate Metabolism – Nutritional Support

## Diet

- Grain Free

## Whole Food Supplements

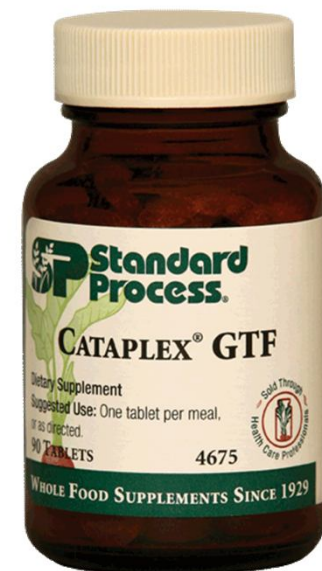
- Canine or Feline Hepatic Support
- Canine Whole Body Support
- Canine or Feline Enteric Support





# Carbohydrate Metabolism – Additional Support

- Cataplex<sup>®</sup> GTF
  - Supports the body's natural blood metabolism activity by aiding the transport of glucose into cells.
  - Chromium: Enhances activity of insulin by helping to maintain the molecules proper shape. It helps to maintain normal levels of blood sugar and lipids already in a normal range.
  - Niacin, potassium, Vitamins A and C, and essential Cytosol<sup>™</sup> extracts.



# Carbohydrate Metabolism – Additional Support

- Gymnema 4g (MediHerb)
  - Helps to maintain normal glucose and cholesterol levels already within a normal range.
- Diaplex<sup>®</sup>
  - Chromium, niacin, other minerals and vitamins A, B<sub>6</sub>, and C.
  - *Tillandsia usenoides*: contains HMG (3-hydroxy-3-methyl acid), a bioactive compound that supports arterial health by helping to maintain normal serum cholesterol levels already within a normal range.
  - PMG<sup>™</sup> and Cytosol<sup>™</sup> extracts provide organ specific proteins for maintenance and support. From tissue of pancreas, spleen, liver, pituitary, kidney, adrenal.

# Carbohydrate Metabolism – Overweight

- Cataplex<sup>®</sup> B
  - Alcohol soluble factors of the B complex; Vitamin B<sub>4</sub> and B<sub>1</sub>, and good for blood sugar metabolism & poor muscle tone.
  - Vitamin B<sub>4</sub> is a nervous system promoting factor, improves transmission of nerve impulses.
  - Support the endocrine systems: hypothalamus, pituitary, thyroid gland, adrenal glands
- Coleus Forte (MediHerb)
  - Aids in thyroid function, weight loss, healthy blood pressure already within a normal range, and digestion.

# Carbohydrate Metabolism – Additional Support

## Other General Considerations

- Chromium is often high in the fur analysis reports for these patients. Use amino acids to help lower chromium. Additional protein is needed.
  - Whey Pro Complete
  - Protefood<sup>®</sup>
  - Nutrimere<sup>®</sup>
- Zinc Liver Chelate<sup>™</sup> or Chezyn<sup>®</sup> as zinc sources

Group 4

# CARDIO-RESPIRATORY



# Cardio-Respiratory



- Heart conditions
- Lung conditions
- Oxygen deficiency

# Cardio-Respiratory – Nutritional Support

- Canine or Feline Cardiac Support
- Cataplex<sup>®</sup> E<sub>2</sub>
  - Vitamin E complex known to reduce oxygen consumption of heart and skeletal muscle and increase oxygen-carrying capacity of the blood.



Group 5

# HEPATIC SYSTEM





# Hepatic System

- Liver function
- Gallbladder
- Cholesterol
- Joint stiffness
- Tissue support when on drugs that negatively affect the liver

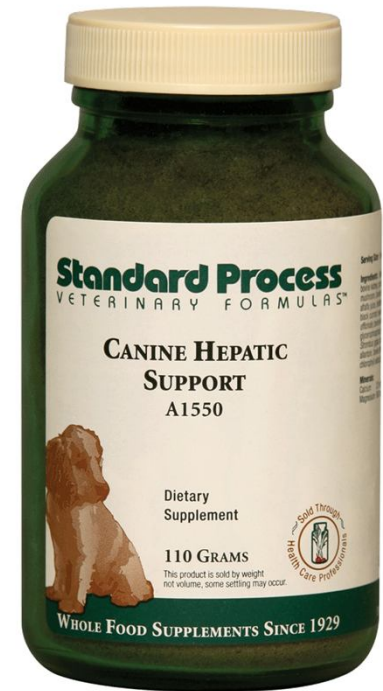
# Hepatic System – Nutritional Support

## Diet

- Grain free

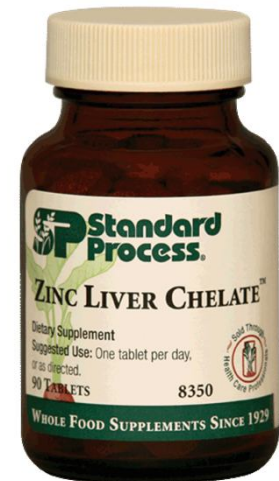
## Whole Food Supplements

- Canine or Feline Hepatic Support
- Canine Dermal Support
- Antronex®
  - Yakriton has been shown to help maintain a healthy liver via its blood filtering and effect on histamine



# Hepatic System – Additional Support

- Zinc deficiency is prevalent with liver disorders
- Zinc Liver Chelate™
  - Essential in forming collagen
  - Part of over 80 enzymatic systems in the body
  - Aids in function of many glands and organs
  - Needed to metabolize reproductive hormones
  - Supports DNA synthesis and cell replicating cycles
  - In circulating blood cells zinc works to stabilize cell membranes and increase intracellular efficiency
- Chezyn®
  - Zinc, iron, copper, bovine liver, oat flour



# Hepatic System – Additional Support

- Choline
  - Important lipotropic agent protecting the liver.
  - Donates methyl groups for the synthesis of other compounds. Similar to folic acid, S-AdoMet.
- Cataplex<sup>®</sup> C
- Tuna Omega-3 Oil



Group 6

# DIGESTIVE



# Digestive System

- 1 of 3 of the divisions of the ANS
- Parotid gland, mouth, teeth
- Stomach
- Small Intestine
- Large Intestine
- Pancreas
- Endocrine effects on digestion occur with dominant Sympathetic System

# Digestive System – Nutritional Support

- Canine Enteric Support or Feline Enteric Support
- Cholacol® II
  - Source of bentonite
  - Adsorbent properties act like a magnet, works to cleanse the intestinal tract via the adsorptive process.
- Okra Pepsin E<sub>3</sub>
  - To remove mucous from the walls of the small intestines thereby enhancing nutrient absorption through villi into the blood.



Group 7

# ENDOCRINE





# Endocrine Organ Function

## DOG

- Thyroid
  - Hyper
  - Hypo
- Pituitary
- Adrenals
  - Hyper
  - Hypo

## CAT

- Thyroid
  - Hyper



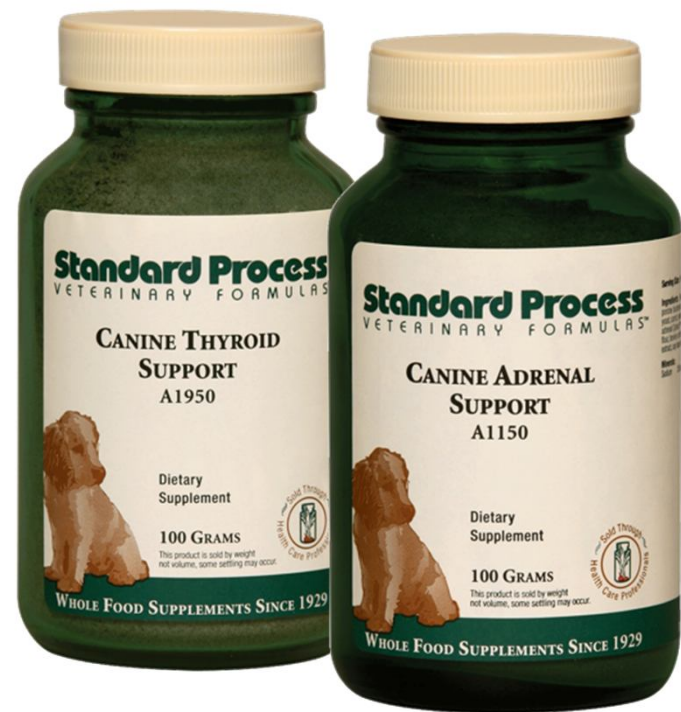
# Endocrine System – Nutritional Support (Canine)

## Canine Thyroid Support

- Hyperthyroid
- Hypothyroid

## Canine Adrenal Support

- Pituitary
- Hyperadrenal
- Hypoadrenal



# Endocrine System – Nutritional Support (All)

## Whole Body Support

- General multi-system support for daily maintenance of all body systems
- Daily maintenance for dogs and cats of all ages and conditions
- Use in conjunction with any other support product



Group 8

# MUSCULOSKELETAL SYSTEM



# Musculoskeletal System

## **WHAT THE BODY HAS:**

- Poor calcium metabolism
- Arthritis, DJD
- Weak muscle tone
- Weak ligaments
- Spinal disc degeneration

## **WHAT WE WANT TO DO:**

- Improve muscle tone
- Improve nerve conductivity
- Improve calcium metabolism
- Reduce exostosis progression
- Improve joint environment

# Musculoskeletal System – Nutritional Support

- Dog:
  - Canine Musculoskeletal Support
  - Canine Flex Support
- Cat:
  - Ostarplex®
- Both:
  - Boswellia Complex



Group 9

# RENAL SYSTEM



# Renal System

- Kidney function
- Urinary bladder function
- Stone formation





# Renal System – Nutritional Support

- Canine Renal Support
- Feline Renal Support



Group 9

# IMMUNE



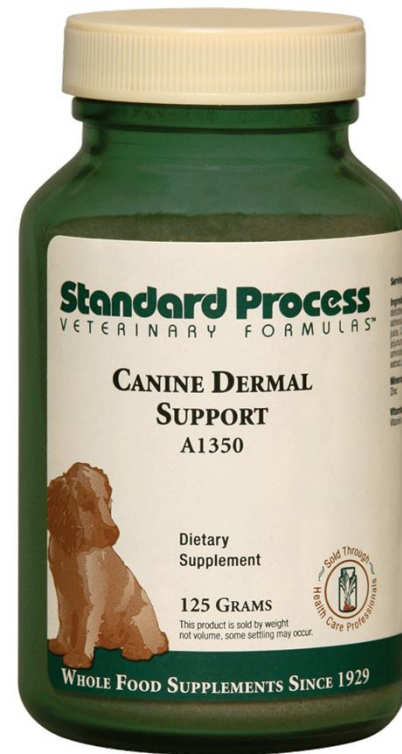
# Immune System – Nutritional Support

- Canine Immune System Support
- Feline Immune System Support



# Immune System – Additional Support

- Canine Dermal Support



# Integument System – Optional Support



Canine Enteric Support  
Feline Enteric Support



Canine Hepatic Support



Canine Immune System Support  
Feline Immune System Support

# Contact Information

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[www.animalpainvet.com](http://www.animalpainvet.com)

*Clinical Animal Nutrition Program* (including  
an in-depth presentation and client forms)



**THANK YOU**

