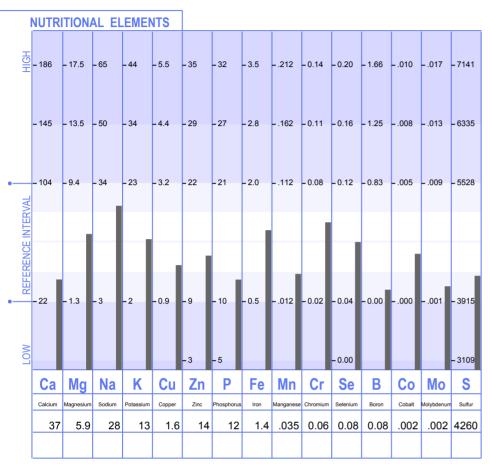


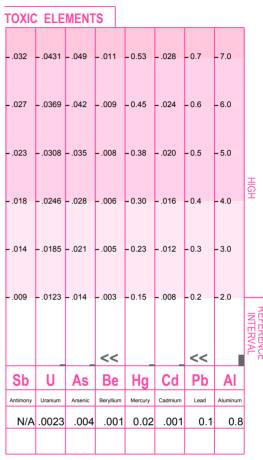
LABORATORY NO.: 1824473

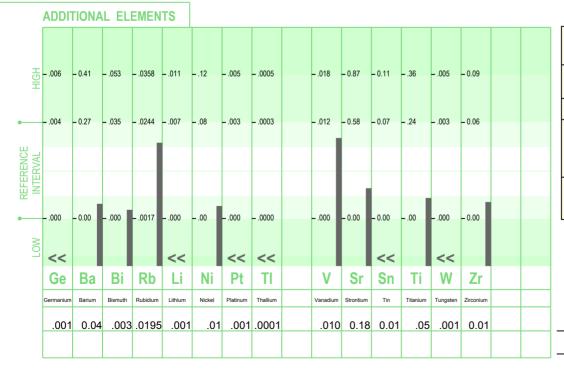
PROFILE NO.: 2 SAMPLE TYPE: SCALP

PATIENT: SHERIDAN, ELLYSE AGE: 36 SEX: F METABOLIC TYPE: SLOW 4

REQUESTED BY: MEISEL, L ACCOUNT NO.: 2216 DATE: 16/02/2024







"<<": Below Calibration Limit; Value Given Is Calibration Limit

"QNS": Sample Size Was Inadequate For Analysis.

"N/A": Currently Not Available

Ideal Levels And Interpretation Have Been Based On Hair Samples Obtained From The Mid-Parietal To The Occipital Region Of The Scalp.

Laboratory Analysis Provided by Trace Elements, Inc. Dallas, Texas USA an H.H.S. Licensed Clinical Laboratory. No. 45 D0481787

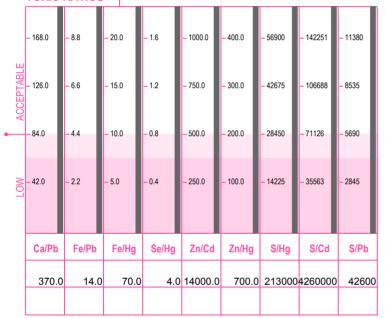
16/02/2024 CURRENT TEST RESULTS

PREVIOUS TEST RESULTS

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#### SIGNIFICANT RATIOS 4 60 4 40 8 20 16.00 8 00 15.00 2 30 \_ 11 00 3 60 3 40 6 20 12 00 - 6 00 \_ 1 60 2.60 2.40 4.20 8.00 4.00 7.00 .90 1.60 4.00 2.00 3.00 1.40 2.20 .20 Ca/P Na/K Ca/K Zn/Cu Na/Mg Ca/Mg Fe/Cu 3.08 2.15 2.85 8.75 4.75 6.27 88

### **TOXIC RATIOS**



### **ADDITIONAL RATIOS**

	Current	Previous	ı
Ca/Sr	205.56		263/1
Cr/V	6.00		8/1
Cu/Mo	800.00		356/1
Fe/Co	700.00		615/1
K/Co	6500.00		6350/1
K/Li	13000.00		6350/1
Mg/B	73.75		21/1
S/Cu	2662.50		2668/1
Se/TI	800.00		370/1
Se/Sn	8.00		3.2/1
Zn/Sn	1400.00		624/1

#### **LEVELS**

All mineral levels are reported in milligrams percent (milligrams per one-hundred grams of hair). One milligram percent (mg%) is equal to ten parts per million (ppm).

#### **NUTRITIONAL ELEMENTS**

Extensively studied, the nutrient elements have been well defined and are considered essential for many biological functions in the human body. They play key roles in such metabolic processes as muscular activity, endocrine function, reproduction, skeletal integrity and overall development.

#### **TOXIC ELEMENTS**

The toxic elements or "heavy metals" are well-known for their interference upon normal biochemical function. They are commonly found in the environment and therefore are present to some degree, in all biological systems. However, these metals clearly pose a concern for toxicity when accumulation occurs to excess.

#### **ADDITIONAL ELEMENTS**

These elements are considered as possibly essential by the human body. Additional studies are being conducted to better define their requirements and amounts needed.

#### **RATIOS**

A calculated comparison of two elements to each other is called a ratio. To calculate a ratio value, the first mineral level is divided by the second mineral level.

EXAMPLE: A sodium (Na) test level of 24 mg% divided by a potassium (K) level of 10 mg% equals a Na/K ratio of 2.4 to 1.

### SIGNIFICANT RATIOS

If the synergistic relationship (or ratio) between certain minerals in the body is disturbed, studies show that normal biological functions and metabolic activity can be adversely affected. Even at extremely low concentrations, the synergistic and/or antagonistic relationships between minerals still exist, which can indirectly affect metabolism.

### **TOXIC RATIOS**

It is important to note that individuals with elevated toxic levels may not always exhibit clinical symptoms associated with those particular toxic minerals. However, research has shown that toxic minerals can also produce an antagonistic effect on various essential minerals eventually leading to disturbances in their metabolic utilization.

### ADDITIONAL RATIOS

These ratios are being reported solely for the purpose of gathering research data. This information will then be used to help the attending health-care professional in evaluating their impact upon health.

#### REFERENCE INTERVALS

Generally, reference intervals should be considered as guidelines for comparison with the reported test values. These reference intervals have been statistically established from studying an international population of "healthy" individuals.

Important Note: The reference intervals should not be considered as absolute limits for determining deficiency, toxicity or acceptance.

PATIENT: SHERIDAN, ELLYSE

THE FOLLOWING RECOMMENDATIONS SHOULD BE TAKEN ONLY WITH MEALS IN ORDER TO INCREASE ABSORPTION AND TO AVOID STOMACH DISCOMFORT. IF DISCOMFORT OCCURS SUPPLEMENTATION CAN BE REDUCED TO A MINIMUM THEN INCREASED GRADUALLY.

RECOMMENDATION	AM	NOON	PM	
PARA TONE	1	0	1	
ADEN COMPLEX	1	0	1	
VITAMIN C PLUS	1	0	0	
DIGESTIVE-ZYME	1	1	1	
E ASTA SEL (Vitamin E)	1	0	1	

THESE RECOMMENDATIONS ARE BASED UPON THE MINERAL LEVELS FOUND IN THE HAIR TISSUE MINERAL ANALYSIS AND MAY AT TIMES NEED MODIFICATION AS PER SPECIFIC NEED AND/OR INDIVIDUAL CIRCUMSTANCES. THESE RECOMMENDATIONS ARE PROVIDED ONLY AS A PROFESSIONAL GUIDE TO SUPPLEMENTAL ASSISTANCE.

THESE RECOMMENDATIONS MAY NOT INCLUDE MINERALS WHICH APPEAR BELOW NORMAL OR IN TURN MAY RECOMMEND MINERALS WHICH APPEAR ABOVE NORMAL ON THE HTMA GRAPH. THIS IS NOT AN OVERSIGHT. SPECIFIC MINERALS WILL INTERACT WITH OTHER MINERALS TO RAISE OR LOWER TISSUE MINERAL LEVELS, AND THIS PROGRAM IS DESIGNED TO BALANCE THE PATIENT"S MINERAL LEVELS THROUGH THESE INTERACTIONS.

THESE RECOMMENDATIONS SHOULD NOT BE TAKEN OVER A PROLONGED PERIOD OF TIME WITHOUT OBTAINING A RE-EVALUATION. THIS IS NECESSARY IN ORDER TO MONITOR PROGRESS AND MAKE THE NECESSARY CHANGES IN THE NUTRITIONAL RECOMMENDATIONS AS REQUIRED.

SPECIAL NOTE: NUTRITIONAL SUPPLEMENTS DO NOT TAKE THE PLACE OF A GOOD DIET. THEY ARE BUT AN ADDITIONAL SOURCE OF NUTRIENTS, AND THEREFORE, MUST NOT BE SUBSTITUTED FOR A BALANCED DIET.

DOCTOR REPORT PATIENT: SHERIDAN, ELLYSE

# INTRODUCTION

THE FOLLOWING REPORT SHOULD NOT BE CONSIDERED AS DIAGNOSTIC, BUT RATHER AS A SCREENING TOOL THAT PROVIDES AN ADDITIONAL SOURCE OF INFORMATION. THIS REPORT SHOULD ONLY BE USED IN CONJUNCTION WITH OTHER LABORATORY TESTS, HISTORY, PHYSICAL EXAMINATION AND THE CLINICAL EXPERTISE OF THE ATTENDING HEALTHCARE PROFESSIONAL.

TEST RESULTS WERE OBTAINED BY A LICENSED\* CLINICAL LABORATORY ADHERING TO TESTING PROCEDURES THAT COMPLY WITH GOVERNMENTAL PROTOCOL AND STANDARDS ESTABLISHED BY TRACE ELEMENTS, INC., U.S.A. THE FOLLOWING INTERPRETATION IS BASED UPON INTERNATIONAL DATA AND DEFINED BY EXTENSIVE CLINICAL RESEARCH CONDUCTED BY DAVID L. WATTS, PH.D.

This analysis including levels, ratios, ranges and recommendations are based upon the sample and sampling technique meeting the following requirements:

- \*\* Sample obtained from the mid-parietal to the occipital region of scalp.
- \*\* Sample is proximal portion of hair length (first 1" to 2" of hair closest to scalp.
- \*\* Sufficient sample weight (minimum of 150 mg.)
- \*\* High grade stainless steel sampling scissors.
- \*\* Untreated virgin hair (no recent perms, bleaching, or coloring agents).
- \* Clinical Laboratory License

U.S. Department of Health and Human Services, State of Texas Department of Health,

Clinical Laboratories Improvement Act, 1988 No. 45-D0481787

### METABOLIC TYPE

## SLOW METABOLISM, TYPE #4

The patient, classified as a SLOW METABOLIZER TYPE #4, is para-sympathetic dominant with elevated adrenal and thyroid activity. This pattern is usually acute in nature and is a result of an acute stress reaction (physical or emotional).

Endocrine replacement therapy, such as; thyroid, insulin, adrenal steroids (anti-inflammatory drugs), etc., as well as endocrine antagonists and in extreme cases of surgical removal of a gland, can affect the tissue mineral pattern. In these cases, the above reported indications of endocrine status should not be considered as representative of endocrine activity. Additional clinical tests and patient history should be taken into consideration.

There are several sub-classifications of each metabolic type, ranging from Type #1 to Type #4. This is taken into consideration on their supplement and dietary recommendations. The extent to which the patient is manifesting these metabolic characteristics depends upon the degree and chronicity of the mineral patterns.

# **RE-EVALUATION**

A re-evaluation is suggested at two months from the beginning of implementation of the supplement program. The metabolic subtypes, such as the Type #4 may result from an acute condition, and therefore, may show a metabolic response more quickly than the Type #1.

# TRENDS

The following trends may or may not be manifesting in the patient at this time. Each trend that is listed is a result of research including statistical and clinical observations. This trend analysis is advanced merely for the consideration of the health professional, and should not be considered an assessment of a medical condition. Further investigation may be indicated based upon your own clinical evaluation.

DOCTOR REPORT PATIENT: SHERIDAN, ELLYSE

### \*\*\* SPECIAL NOTE \*\*\*

It must be emphasized that the following are only trends of potential health conditions. Realistically, the probability for each trend's occurance is based upon the degree and duration of the specific mineral imbalance. Since this analysis is not capable of determining either the previous degree of imbalance and/or previous duration, the trend analysis should only be used as an indicator to the health-care professional of potential manifestation's, particularly if the biochemical imbalance continues.

TENDENCY	1	2	3	4	5	6	7	8

# **COMMENTS**

# DIETARY SUGGESTIONS

The following dietary suggestions are defined by several factors: the individual's metabolic type, mineral levels, and mineral ratios, as well as the nutrient content of each food, including protein, carbohydrate, fat, vitamins, and minerals. Based upon these determinations, it may be suggested that foods be avoided or increased temporarily to aid in the improvement of the patient's chemistry.

### GENERAL DIETARY PRINCIPLES FOR THE SLOW METABOLIZER:

A low protein, high carbohydrate, and high-fat diet, in addition to increased consumption of refined sugars and dairy products, have a slowing-down effect on metabolism and energy production.

- \* EAT HIGH-PROTEIN FOOD AT EACH MEAL...Lean protein is recommended and should constitute at least 40% of the total caloric value of each meal. Recommended sources are lean beef, fish, and fowl. Other good sources of protein include bean and grain combinations and eggs. Increased protein intake is necessary e min order to increase the metabolic rate and energy production.
- \* INCREASE FREQUENCY OF MEALS...while decreasing the total caloric intake for each meal. This is suggested to sustain the level of nutrients necessary for energy production and decrease blood sugar fluctuations.
- \* EAT A MODERATE AMOUNT OF UNREFINED CARBOHYDRATES...Carbohydrate intake should not exceed 40% of the total daily caloric intake. Excellent sources of unrefined carbohydrates include whole grain products, legumes, and root vegetables.
- \* AVOID ALL SUGARS AND REFINED CARBOHYDRATES...This includes white and brown sugar, honey, candy, soda pop, cake, pastries, alcohol, and white bread.
- \* AVOID HIGH PURINE PROTEIN...Sources of high purine protein include liver, kidney, heart, sardines, and mackerel.
- \* REDUCE INTAKE OF FATS AND OILS...Fats and oil include fried foods, cream, butter, salad dressings, mayonnaise, etc. Fat intake should be at most 20% of the total daily caloric intake.
- \* REDUCE OR AVOID MILK AND MILK PRODUCTS...such as cheese, yogurt, cream, etc. These foods should be reduced to no more than once every three to four days.
- \* REDUCE FRUIT JUICE INTAKE...until the next evaluation. This includes orange juice, apple juice, grape juice, and grapefruit juice. Vegetable juices are acceptable.
- \* AVOID CALCIUM AND/OR VITAMIN D SUPPLEMENTS

### METHIONINE RICH FOODS:

DOCTOR REPORT PATIENT: SHERIDAN, ELLYSE

The following foods are a rich source of the essential amino acid methionine, which supplies sulfur to the cells for the activation of enzymes, and energy metabolism. Sulfur is also involved in the detoxification process. Toxic substances are combined with sulfur, converted to a nontoxic form, and then excreted. The following foods may be consumed liberally during the course of therapy:

BassMackerelTroutShort RibsCodPerchTurkeySirloin

Flounder Pumpkin Seeds

Round Steak

The above list of foods is also high in glutamic and aspartic acid. These amino acid proteins help to improve tissue alkalinity.

### SPECIAL NOTE:

This analysis will list only a limited number of dietary foods to avoid or to increase in the diet. For those foods not specifically mentioned in this section, continued consumption on a moderate basis may be considered appropriate unless recommended otherwise.

NO PART OF THIS INTERPRETIVE REPORT MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR ANY INFORMATION STORAGE OR RETRIEVAL SYSTEM WITHOUT PERMISSION IN WRITING FROM TRACE ELEMENTS, INC., U.S.A.

InterClinical Laboratories Pty Limited
Unit 6/10 Bradford Street, Alexandria, N.S.W. 2015, Sydney, Australia

Ph: (02) 9693-2888 Fax: (02) 9693-1888

Email: lab@interclinical.com.au

Authorized Representative for Australia and New Zealand