

JUNE 17-19, 2016 **EMPOWER YOUR** INNER HEALER

with Dr. Ritamarie Loscalzo

Day 2: Discover

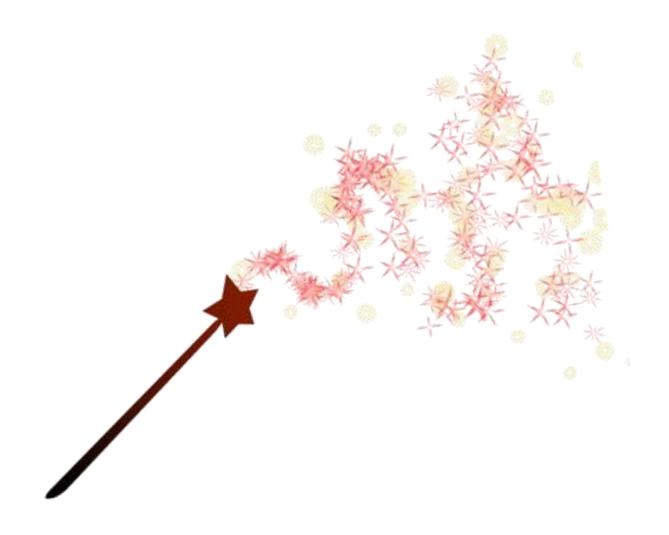


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Your Magic Wand





Johanna Quaas, 87



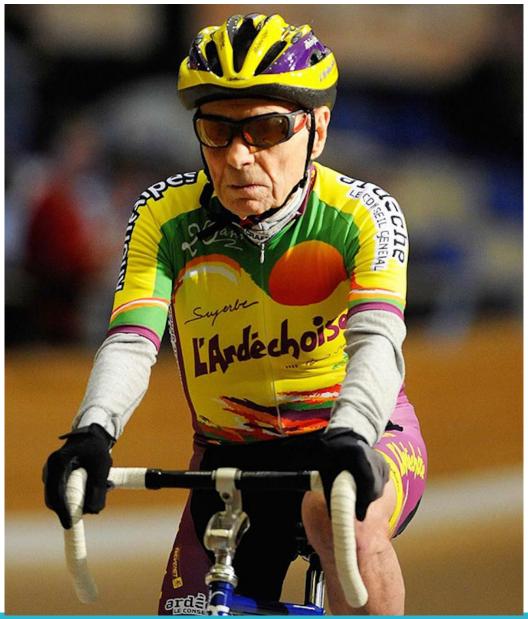


Phyllis Sues, 91





Robert Marchand, 103





Stanislaw Kowalski, 106

The world's oldest athlete





My Big Why









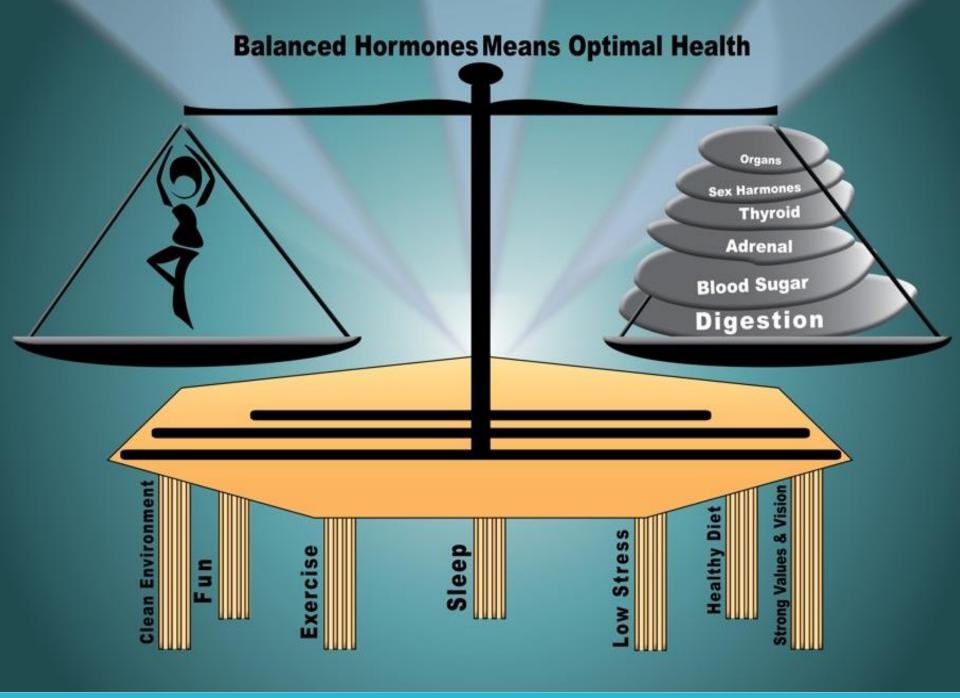
THYROID

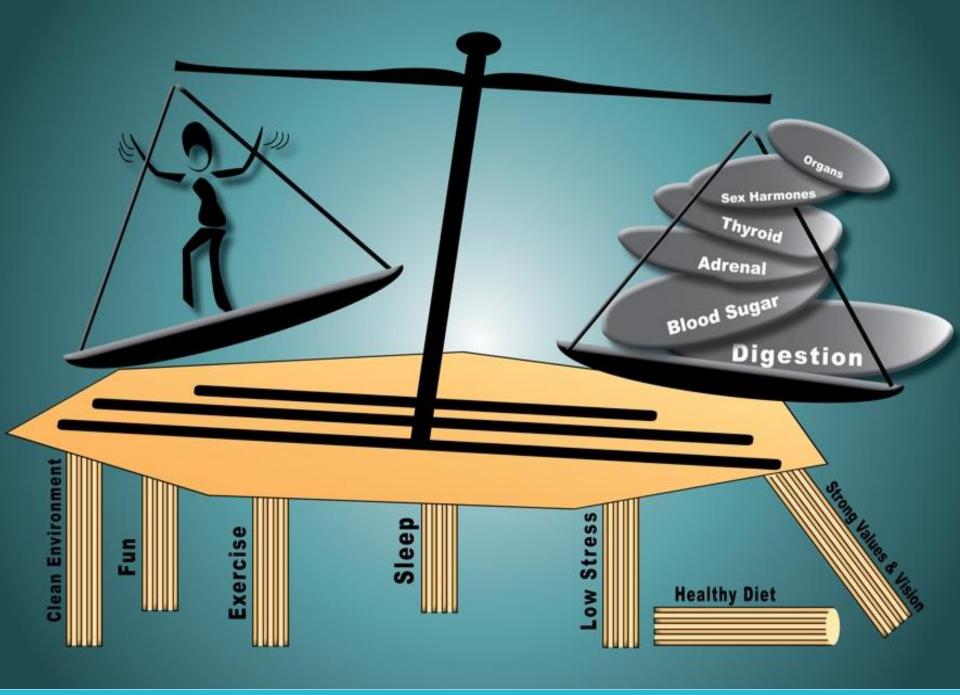
ADRENAL

BLOOD SUGAR

DIGESTION









Identifying Your Obstacles

THYROID

ADRENAL

BLOOD SUGAR

DIGESTION

HEALTHY EXERCISE ENVIRONMENT

I

- Stress
- Attitude
- Sleep
- Nutrition
- Exercise
- Environment
- Fun & Relationships

7 Pillars Scorecard Assessment

	Pillar 1: Stress					
Use the descriptions to choose the appropr	iate score. Calculate your results as go.					
Stress Part 1		0	1	2	3	
How often do you practice the power of appreciation and an "attitude of gratitude" throughout the day?	0 = 5 or more times per day 1 = 3-4 times per day 2 = 1-2 times per day 3 = Never, or just started	0	1	2	3	
How often are you practicing a stress management method or technique (e.g., meditation, prayer, <u>HeartMath</u> "Quick Coherence", etc.)?*	0 = 5 or more times per day 1 = 3-4 times per day 2 = 1-2 times per day 3 = Never, or just started	0	7	2	3	
How often are you feeling "stressed out" (i.e. above a 7) on a stress scale from 0 to 10?	0 = About once or twice a week, or less 1 = A few to several times a week 2 = A few to several times a day 3 = All the time! Every waking moment!	0	1	2	3	
Total for Ea	ch Column (number of checkmarks x value)		3 - 3			
	Subtotal Part 1 (Max 9)		38 8			
Stress Part 2				N	0	
Do you feel clear about your goals in life?			0		3	
Overall, do your daily actions align with your most important values and visions?			0		3	
Are you happy most of the time?			0		3	
Do you feel your life has meaning and purpos	se?	0		- 67	3	
Do you like the work you do?	total en to the open trees	0		3		
Would you describe your experience as a chil	ld in your family as happy and secure?	0		3		
Did you feel safe growing up?			U	- 9	3	
TOTALTOFEA	ach Column (number of checkmarks x value) Subtotal Part 2 (Max 21)		- 4			
	Subtotal Parts 1 – 2 (Max 30)	-				
Stress Part 3	Subtotal Parts 1 – 2 (Max 30)	Y	ES	N	0	
Do you feel significantly less vital than you did a year ago?			3	1075	0	
Do you believe stress is presently reducing the quality of your life?			3	- 3	0	
Have you experienced major losses in your life?			3	3	0	
Do you spend the majority of your time and money to fulfill responsibilities and obligations?			3		0	
Have you ever been involved in abusive relationships in your life?			3		0	
Was alcoholism or substance abuse present in your childhood home?			3	3	0	



7 Pillars Scorecard

Pillar	Max Score	Your Score	Priority:	1 = low (green) 2 = medium (blue) 3 = high (yellow) 4 = very high (red)
Pillar 1: Stress	1556			
Pillar 2: Attitude and Beliefs	66	2		
Pillar 3: Sleep	51	8	8	
Pillar 4: Nutrition Part 1 - Negative Habits	126	i d	8	
Pillar 4: Nutrition Part 2 - Positive Habits	66			
Pillar 5: Fitness	21			
Pillar 6: Environment	249		Ġ.	
Pillar 7: Fun	48	2		



Your Health Tracker



	Habits and Obstacles								
Client Name		Coach Name							
Habits and Obstacles	Positive Habits	Negative Habits	Challenges						
Diet									
Movement									
Stress									
Sleep									
Schedule									
Environment									
Fun and Recreation									
Relationships									



Nutrient Scorecards





Your Nutrient Status

Nutrient Balance Assessment Scorecard

Name:				
Point Scale: 0 = No, Never/Rarely or almost never				-10
Section 1: Essential Fatty Acids	0	1	2	3
Do you experience pain relief with aspirin?	0	1	2	3
Do you crave fatty or greasy foods?	0	1	2	3
Do you have a history of following a low or reduced-fat diet? 0 = never, 1 = years ago, 2 = within last year, 3 = within past 3 months	0	1	2	3
Do you experience tension headaches at the base of your skull?	0	1	2	3
Do you get headaches when out in the hot sun?	0	1	2	3
Do you sunburn easily or suffer sun poisoning?	0	1	2	3
Do yourmuscles easily fatigue?	0	1	2	3
Do you have dry, flaky skin?	0	1	2	- 3
Do you ever experience "goose flesh/goose bumps"?	0	1	2	3
Do you have ridged, cracked, and/or peeling nails?	0	1	2	3
Do you have magnesium or vitamin B6 deficiencies that don't respond to supplements?	0		-	3
Do you have dandruff?	0	1	2	1
Do you have areas of inflamed soft tissue?	0	1	2	3
Do you have inflamed joints?	0	1	2	. 3
Do you have cracks in your heels?	0	1	2	3
Do you have red cuticles?	0	1	2	3
Do you have sone?	0	1	2	3
Do you have breast cysts?	0	1	2	3
Do you suffer from diarrhea?	0	1	2	3
Do you have dry hair?	0	1	2	3
Do you have Eczema?	0	1	2	3
Do you have excess earwax?	0	1	2	
Do you have gall stones?	0	1	2	3
Have you experienced hair loss?	0	1	2	3
Do you suffer from any immune impairment?	0	1	2	3



Your Nutrient Scorecard

Percent score is calculated by dividing your score by the max score and multiplying by 100. Look up the % score in the chart below to determine priority.

Nutrient	Max Score	Your Score	Your % Score	Priority:	1=low (green) 2=medium (blue) 3=high (yellow) 4=very high (red)
Essential Fatty Acids	99				
Amino Acids	24				
Vitamin A	30				
B Vitamins	45				
	15	-	-		

Score Interpretation:

- 0-10%: Overall good balance. Sound nutrition and healthy habits will maintain good balance.
- 11-25%: In need of a tune up to restore balance before serious illness sets in. Diet and lifestyle improvements should shift to normal.
- 26-50%: Your nutrient balance is compromised and likely to significantly affect your state of health, well-being, and energy level.
- 51-100%: Your nutrient balance is severely compromised and requires immediate attention. Take steps now to restore balance to your health, well-being, and energy level.



Nutrient Balance: General Assessment									
Date of Assessment									
Essential Fatty Acid Needs									
Amino Acid Needs									
Nutrient Balance: Vitamin Assessment									
Date of Assessment									
Vitamin A									
B Vitamins									
Vitamin B1 - Thiamin									
Vitamin B2 - Riboflavin									
Vitamin B3 - Niacin									
Vitamin B5 - Pantothenic acid									
Vitamin B6 - Pyridoxine									
Vitamin B7 - Biotin									
Vitamin B9 - Folic Acid									
Vitamin B12 - Cobalamin									
Vitamin C									
Vitamin D									
Vitamin E									
Vitamin K									
	Nutrient	Balance: Mi	ineral Asse	ssment					
Date of Assessment									
Calcium									
Chromium									
Copper									
Iodine									
Iron									
Magnesium									
Manganese									
Phosphorus									
Potassium									
7inc									



Body System and Organ Assessment						
Date of Assessment: mm/dd/yy						
Digestion - Low Stomach Acid						
Digestion - Excess Stomach Acid						
Digestion - Liver and Gallbladder						
Digestion - Small Intestine and Pancreas						
Digestion - Large Intestine						
Cardiovascular System						
Kidney and Bladder						
Immune System						
Hormo	one and Gla	nd Assessm	ent			
Date of Assessment						
Adrenal – General						
Adrenal Hypofunction						
Adrenal Hyperfunction (Cortisol high)						
Blood Sugar Dysregulation						
Blood Sugar Handling - Insulin Resistance						
Blood Sugar Handling - Glucose Fluctuation						
Thyroid Low (Hypo)						
Thyroid Excess (Hyper)						
Pituitary						
Male - Prostate						
Male - Hormones						
Female - Hormones						
Female - Menopausal						
Brain and Neurotransmitter Assessment						
Date of Assessment						
General Brain Function						
Serotonin						
Dopamine						
GABA						



Home Assessment

- ✓ Symptoms and Signs
- ✓ Nutrient Assessments
 - **≻**Minerals
 - **≻**Vitamin C
- √ pH Balance
- ✓ Nitric Oxide
- ✓ Blood Sugar
- ✓ Ketones
- ✓ Oxidata
- ✓ Urinalysis



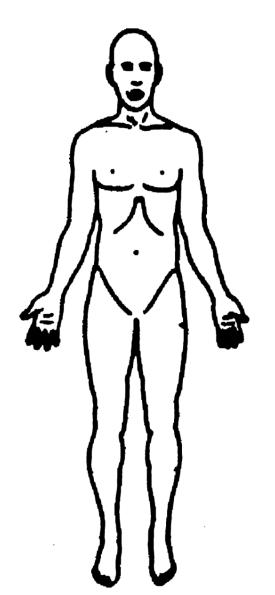


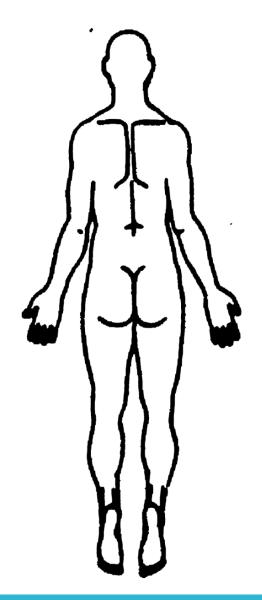






Body Scan







Mineral Test Kit



The test kits allow you to test for the following minerals:

- 1. Potassium
- 2. Zinc
- 3. Magnesium
- 4. Copper

- 5. Chromium
- 6. Manganese
- 7. Molybdenum
- 8. Selenium

http://www.drritamarie.com/go/EmersonEcologics

Use code fresh1 to access



Interpretation of Mineral Tests

	Taste Test Score	Clinical implication
1	Sweet	Definitely need the mineral
2	Pleasant	Need the mineral
3	No Taste	Need the mineral
4	Hmmmmtaste something	Sufficient
5	So-So, there is some taste	Do not need mineral
6	Don't like	Do not need mineral
7	Gross taste	Do not need mineral

- Write down the appropriate response on the score card
- Repeat this process for each of the remaining minerals



Vitamin C Testing

✓ Vitamin C Urine Test Strips

- ➤ Normal is greater than 20 mg/dL
- ➤ Ideal is greater than 40 mg/dL
- ➤ "A consistent urine Vitamin C of 20 mg/dL or lower may be trying to tell you something."





James A. Jackson, MT, Ph.D., Journal of Orthomolecular Medicine, Vol. 20,No. 4, 2005

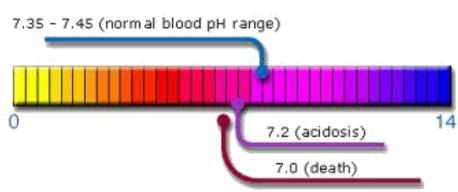
✓ Vitamin C Calibration

- ➤ Determine Bowel Tolerance Dose
- Take about 75% of dose that results in loose stools



Importance of pH Balance

- ✓ Optimum immune function
- ✓ Strong bones and teeth
- ✓ Efficient digestion
- ✓ Joint health
- ✓ Decreased pain and inflammation
- ✓ Protection from disease
- ✓ Increased energy









Measuring Your pH

pHydrion paper – range 5.5 to 8

- ✓ Saliva: 6.8 7.2
 - > First morning
 - ➤ During day
 - ➤ Acid challenge
- ✓ Urine: 6.5 6.8
 - > First morning
 - > Second morning
 - ➤ Later in day





http://www.drritamarie.com/go/pHpaper



pH Tracking

Date	Morning Saliva pH	1 st AM Urine pH	2 nd AM Urine pH	Afternoon Saliva pH (2 hours after food)	Afternoon Urine pH (before dinner)
			50		S ¹

Saliva: 6.8 to 7.2

Urine: 6.4 to 6.8



Nitric Oxide Testing





Nitric Oxide in Action

- ✓ Gas with chemical formula NO
- ✓ Important signaling molecule in mammals
- ✓ A toxic air pollutant produced by automobile engines and power plants
- ✓ Not nitrous oxide (n_2o) , a general anesthetic
- ✓ It reacts with the oxygen to form nitrogen dioxide, a poisonous air pollutant
- ✓ A free radical





Nitric Oxide: Biological Functions

Immunology

- · Fights bacteria
- · Defends against tumors
- Non-specific immunity
- Inhibits viral replication

Gastrointestinal Tract

- · Assists in gastric motility
- Contributes to intestinal health

Urogenital Tract

- Penile erection
- Uterine dilation during pregnancy

Cell Proliferation

- Apoptosis
- Angiogenesis
- Inhibits tumor cell growth

NO

Central Nervous System

- Learning and memory
- Pain sensitization
- Epilepsy
- Neurodegeneration
- Central BP control

Cardiovascular/ Respiratory System

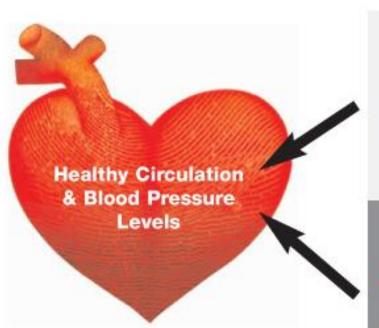
- Relaxes blood vessels
- Contracts heart muscle
- Reduces inflammation
- Dilates bronchi
- Asthma

Peripheral Nervous System

Nerve-mediated relaxation



Two Pathways For NO Production



Pathway

Intake from salivary glands



Produced by endothelium



Increased with

Healthy diet having NO potential



Regular exercise



Affected by age?

No

Yes

Endothelial production declines to 50% of what one needs by age 40. Even exercise cannot restore it all.



Nitric Oxide in Vegetables



Kale	6825
Swiss Chard	2055
Arugula	1452
Spinach	1123
Chicory	938
Wild Radish	814
Bok Choy	775
Collard Greens	697
Beets	632
Chinese Cabbage	499
Lettuce	388
Cabbage	312
Mustard greens	226
Cauliflower, Raw	167
Parsley	150
Kohlrabi	136
Carrot	127
Broccoli	122



Nitric Oxide Testing



Step 1: Wash hands



Step 2: Place saliva on test strip



Step 3: Compare test strip to color indicator

(µmol/L) <20 Depleted

25-100 Low

100-300 Normal

>300 Neo Optimal

The deeper the red on the test strip, the more Nitric Oxide you have in your body

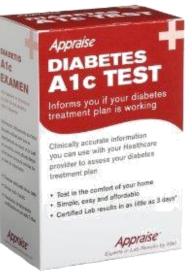
http://www.neogenis.com



Blood Sugar Measurement

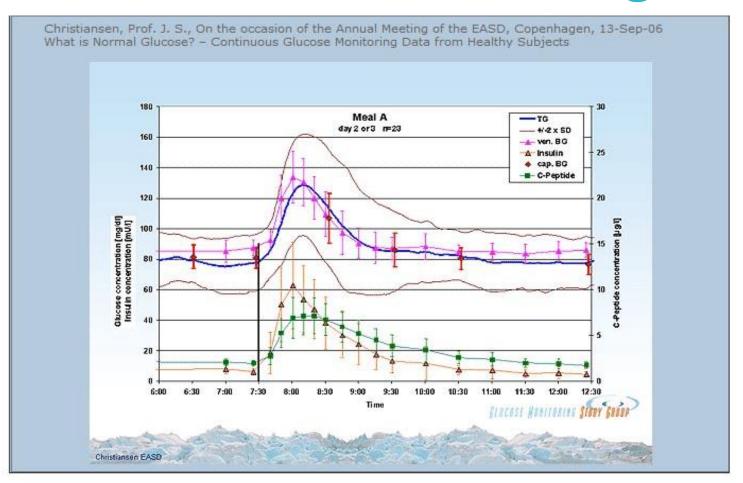
- ✓ TrueResults: my desktop model
 http://www.drritamarie.com/go/TrueResultStarterKit
- ✓ True2Go: portable http://www.drritamarie.com/go/True2GoPortableKit
- ✓ TrueTest Test Strips:
 use for both glucose meters
 http://www.drritamarie.com/go/TRUEtestTestStrips100
- ✓ Hemoglobin A1C:
 http://www.drritamarie.com/go/HemoglobinA1C







What is Normal Blood Sugar?



What is a Normal Blood Sugar?

Normal blood sugars after a high carbohydrate breakfast eaten at 7:30 AM. The blue line is the average for the group. The brown lines show the range within which most readings fell (2 standard deviations). Bottom lines show Insulin and C-peptide levels at the same time. Graph is a screen shot from Dr. Christiansen's presentation cited below.

What is Normal Glucose? Continuous Glucose Monitoring Data from Healthy Subjects. Professor J.S. Christiansen, presented at the Annual Meeting of the EASD.



Ketones

- ✓ Urine test
- ✓ Monitors quantity of ketones
- ✓ Ketogenic diets used for a variety of autoimmune and neurologic conditions and weight loss

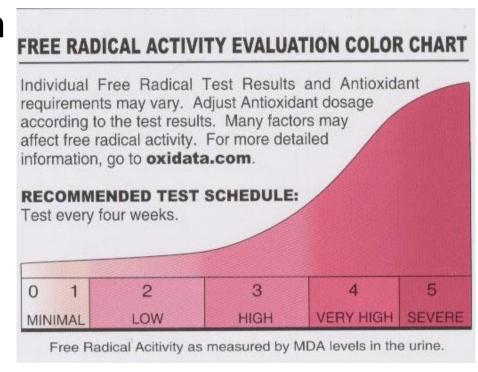


Purchase on Amazon.com



Free Radical Testing at Home

- ✓ Measures amount of free radicals in minutes
- ✓ Free radicals have been implicated in countless disease processes
- ✓ Any molecule can become a free radical by either losing or gaining an electron



http://www.drritamarie.com/go/OxidataTest



Urinalysis at Home

- √ Glucose
- ✓ Ketones
- ✓ Bilirubin
- ✓ Protein
- ✓ Nitrite
- **√**pH
- √ Blood
- ✓ Specific gravity
- ✓ Leukocytes
- ✓ Urobilinogen



http://www.drritamarie.com/go/Urinalysis10



Page 6 of Nutritional Evaluation Document

Date and						
Time						
Nutrients						
Potassium						
Zinc						
Magnesium						
Copper						
Chromium						
Manganese						
Molybdenum						
Selenium						
Vitamin C						
Chemistry						
pH - Saliva						
pH - Urine						
Nitric Oxide						
Blood Sugar						
Ketones						
Oxidata						
Urinalysis	•	•		•	•	•
Glucose						
Ketones						
Bilirubin						
Protein						
Nitrite						
рН						
Blood						
Specific gravity						
Leukocytes						
Urobilinogen						



LEU 120 s

NIT 60 s

URO

PRO 60 s

pH 60 s

BLO 60 s

SG 45 s

KET 40 s

BIL 30 s

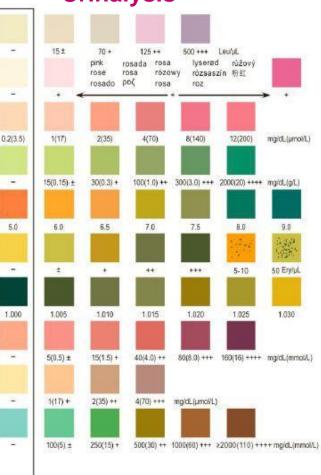
GLU

Nitric Oxide

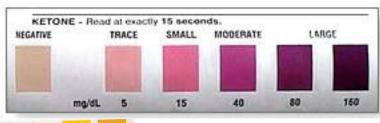
(µmol/L) <20 Depleted 25-100 Low 100-300 Normal >300 Neo Optimal

pН

Urinalysis



Ketones



Vitamin C

Ascorbic Acid Test Strip

Procedure:

- Remove one test strip from vial & close vial with cap provided.
- Dip test strip into solution being tested for 2 seconds.
- 3. Compare color after 30 seconds of waiting time.
 - * Be certain cap is placed on vial to provide a tight closure.



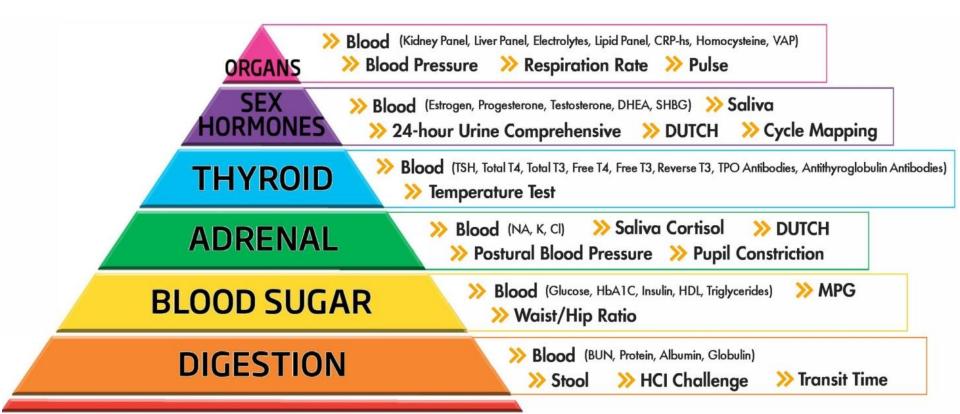
5.0 5.5 5.75 6.0 6.25 6.5

pH.AccuCheck@gmail.com

Hariklia, Inc.



Testing Your Gland and Organ Systems





Digestion

- ✓ HCl Challenge
- ✓ Transit Time
- ✓ Stool Testing
- ✓ Blood Tests
 - > BUN
 - **≻**Protein
 - **≻**Albumin
 - **>**Globulin





Transit Time

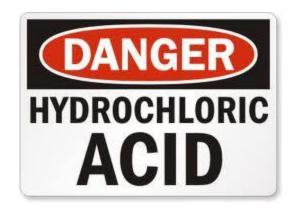
Time from mouth to anus should be 18 – 24 hours

- ✓ Swallow <u>4 charcoal capsules</u> at your evening meal. Record the date and time.
- ✓ After each bowel movement, observe stool for first sign of black or grey.
- ✓ Calculate number of hours between Time Charcoal Taken to Time/Date Color First Appears. Record.
- ✓ Continue to observe and note time and date when the color completely disappears.
- ✓ Wait 5 days to make sure all sign of charcoal has completely disappeared and try again.



HCl Challenge

- Home test assess need for stomach acid
- ✓ **Start with ONE** 500-650 mg capsule (not tablet) containing both hydrochloric acid (HCL) and 150 mg of pepsin
- ✓ Take HCL after a few bites of food; do not take on an empty stomach or after meals
- ✓ If no discomfort (burning or warm sensation), add one capsule per mea.
- ✓ If pain, burning, or a warm sensation, take one of the following:
 - > 1 teaspoon slippery elm in 8 ounces warm water
 - ➤ ¼ cup aloe vera juice
 - ¼ teaspoon baking soda in water or...
- ✓ Next meal, go back to the dose that caused no pain



DO NOT go above the maximal dose of 4 capsules per meal unless supervised.



Stool Microbial

BACTERIOLOGY CULTURE							
Expected/Beneficial flora	Commensal (Imbalanced) flora	Dysbiotic flora					
3+ Bacteroides fragilis group	1+ Beta strep, not group A or B						
4+ Bifidobacterium spp.	2+ Citrobacter freundii complex						
NG Escherichia coli	1+ Citrobacter freundii complex,isolate 2						
NG Lactobacillus spp.	2+ Enterobacter cloacae complex						
NG Enterococcus spp.	3+ Gamma hemolytic strep						
	1+ Staphylococcus aureus						
NG Clostridium spp.							
NG = No Growth							

MICROSCOPIC YEAST

Result: Expected:

None No

None - Rare

The microscopic finding of yeast in the stool is helpful in identifying whether there is proliferation of yeast. Rare yeast may be normal; however, yeast observed in higher amounts (few, moderate, or many) is abnormal.

Sample 3

None Ova or Parasites

YEAST INFORMATION

Yeast normally can be found in small quantities in the skin, mouth, intestine and mucocutaneous junctions. Overgrowth of yeast can infect virtually every organ system, leading to an extensive array of clinical manifestations. Fungal diarrhea is associated with broad-spectrum antibiotics or alterations of the patient's immune status. Symptoms may include abdominal pain, cramping and irritation. When investigating the presence of yeast, disparity may exist between culturing and microscopic examination. Yeast are not uniformly dispersed throughout the stool, this may lead to undetectable or low levels of yeast identified by microscopy, despite a cultured amount of yeast. Conversely, microscopic examination may reveal a significant amount of yeast present, but no yeast cultured. Yeast does not always survive transit through the intestines rendering it unvialble.

illness and fatigue. Chronic parasitic infections can also be associated with increased intestinal permeability, irritable bowel syndrome, irregular bowel movements, malabsorption, gastritis or indigestion, skin disorders, joint pain, allergic reactions, and decreased immune function.

In some instances, parasites may enter the circulation and travel to various

GIARDIA/CRYPTOSPORIDIUM IMMUNOASSAY						
	Within	Outside	Reference Range	Giardia intestinalis (lamblia) is a protozoan that		
Giardia intestinalis	Neg		Neg	infects the small intestine and is passed in stool and spread by the fecal-oral route. Waterborne transmission is the major source of giardiasis.		
Cryptosporidium	Neg		Neg	Cryptosporidium is a coccidian protozoa that can be spread from direct person-to-person contact or waterborne transmission.		



Stool Testing Functional

	DIGESTION /ABSORPTION						
	Within	Outside	Reference Range	Elastase findings can be used for the diagnosis or the exclusion of exocrine pancreatic			
Elastase	440		> 200 μg/mL	insufficiency. Correlations between low levels and chronic pancreatitis and cancer have been reported. Fat Stain: Microscopic determination			
Fat Stain	Few		None - Mod	of fecal fat using Sudan IV staining is a qualitative procedure utilized to assess fat absorption and to detect steatorrhea. Muscle			
Muscle fibers	None		None - Rare	fibers in the stool are an indicator of incomplete digestion. Bloating, flatulence, feelings of			
Vegetable fibers	Rare		None - Few	"fullness" may be associated with increase in muscle fibers. Vegetable fibers in the stool may be indicative of inadequate chewing, or eating "on the run". Carbohydrates : The presence of			
Carbohydrates	Neg		Neg	"on the run". Carbohydrates: The presence of reducing substances in stool specimens can indicate carbohydrate malabsorption.			

	INFLAMMATION								
	Within	Outside	Reference Range	Lactoferrin and Calprotectin are reliable markers for differentiating organic inflammation					
Lactoferrin	2.6		< 7.3 μg/mL	(IBD) from function symptoms (IBS) and for management of IBD. Monitoring levels of fecal lactoferrin and calprotectin can play an essential					
Calprotectin*		68	10 - 50 μg/g	role in determining the effectiveness of therapy, are good predictors of IBD remission, and can indicate a low risk of relapse. Lysozyme* is an					
Lysozyme*	271		<= 600 ng/mL	enzyme secreted at the site of inflammation in the GI tract and elevated levels have been identified in IBD patients. White Blood Cells					
White Blood Cells	None		None - Rare	(WBC) and Mucus in the stool can occur with bacterial and parasitic infections, with mucosal irritation, and inflammatory bowel diseases such					
Mucus	Neg		Neg	as Crohn's disease or ulcerative colitis.					

IMMUNOLOGY						
	Within	Outside	Reference Range	Secretory IgA* (slgA) is secreted by mucosal tissue and represents the first line of defense of the GI mucosa and is central to the normal		
Secretory IgA*		39.7	51 - 204 mg/dL	function of the GI tract as an immune barrier. Elevated levels of slgA have been associated		



Blood Sugar

- ✓ MPG: Map Postprandial Glucose
- ✓ Waist Hip Ratio
- ✓ Blood Tests
 - **≻**Glucose
 - >HbA1C
 - **≻**Insulin
 - **≻** Antibodies
 - >HDL
 - ➤ Triglycerides
 - ➤ HDL/Triglyceride Ratio

DIGESTION STRONG VALUES & VISION BLOOD SUGAR CIEAN FUN EXERCISE ENVIRONMENT FUN



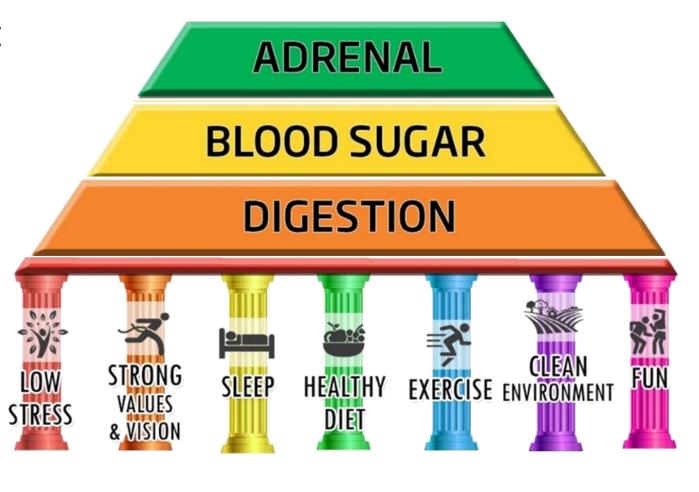
Blood Glucose Lab Testing

	Normal	Insulin Resistance	Metabolic Syndrome	Diabetes
Fasting Glucose	75-89	90-119	>=100	>=120
Triglycerides	>65	>90	>110	>110
HDL	50-90	<65	<55	<55
Fasting Insulin	2-5	Normal or >5 – varies on stage	>5	>5
Hemoglobin A1C	4.5-5%	5.3-6.5%	>5.7%	>5.7%



Adrenal

- ✓ Saliva Cortisol and DHEA
- ✓ DUTCH Test
- ✓ Blood Tests
 - **≻**Sodium
 - **≻** Potassium
 - **≻**Chloride





Adrenal Lab Analysis

- ✓ Adrenal Stress Index: Saliva Test
 - > Cortisol x 4
 - > DHEA x 2
 - ➤ Secretory IgA *
 - > 17-OH-Progesterone *
- ✓ Blood Cortisol Levels –
 not functionally significant
- ✓ Blood DHEA-S Levels
- ✓ Ratios of Blood Sodium, Potassium, and Chloride

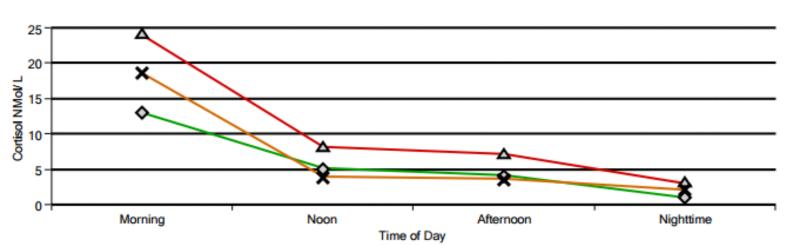


^{*} Some labs include these



Biohealth Adrenal Test

Parameter	Result	Reference Range	Units
Cortisol - Morning (6 - 8 AM)	18.6	13.0 - 24.0	nM/L
Cortisol - Noon (12 - 1 PM)	3.8*	5.0 - 8.0	nM/L
Cortisol - Afternoon (4 - 5 PM)	3.5*	4.0 - 7.0	nM/L
Cortisol - Nighttime (10 PM - 12 AM)	2.1	1.0 - 3.0	nM/L
Cortisol Sum	28.0	23.0 - 42.0	nM/L
DHEA-S Average	1.71*	2.00 - 10.00	ng/mL
Cortisol/DHEA-S Ratio	16.4*	5.0 - 6.0	Ratio





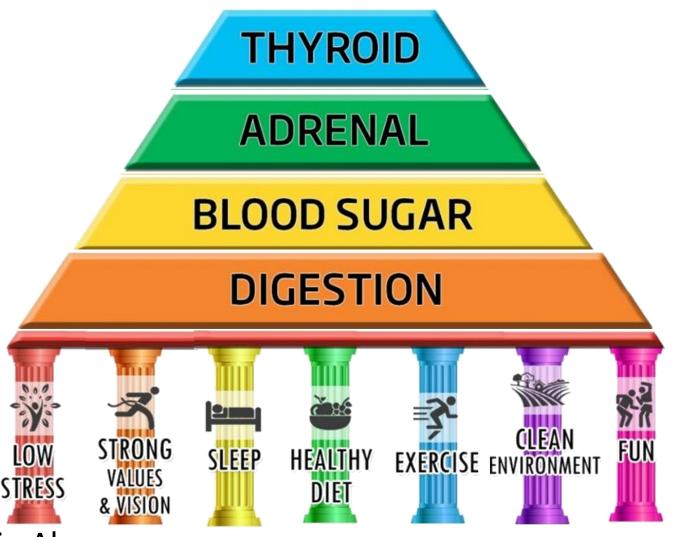


Thyroid

- ✓ Temperature
- ✓ Blood Tests
 - >TSH
 - ➤ Total & Free T4
 - ➤ Total & Free T3
 - ➤ Reverse T3
 - ➤ Cholesterol
 - ➤ Homocysteine
 - ➤ Vitamin A
 - > TPO Ab

www.DrRitamarie.com

> Antithyroglobulin Ab





Thyroid Lab Analysis

- **✓** TSH
- ✓ Total T4 (thyroxine)
- √ Total T3 (triiodothyronine)
- ✓ Free T4
- ✓ Free T3
- ✓ Thyroid Antibodies
 - ➤ Thyroid Peroxidase
 - > Antithyroglobulin
- ✓ Reverse T3
- √ Vitamin D
- √ Cholesterol





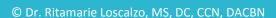
Thyroid Self-Assessment

- ✓ Symptom Survey
- ✓ Physical Signs
 - > Cold hands and feet
 - ➤ Loss of lateral 1/3 of eyebrow
 - > Dry skin and hair
 - Scalloped edges and teeth marks on tongue
 - > Eyes "bug-out"
- ✓ Basal Body Temperature:

Broda Barnes

✓ Average Body Temperature:

Wilson's Temperature Syndrome





Sex Hormones

- ✓ Saliva Hormones
- ✓ 24-Hour Steroid Hormones
- **✓** DUTCH
- ✓ Cycle Mapping
- ✓ Blood Tests
 - **≻** Estrogen
 - **≻** Progesterone
 - > Testosterone
 - > DHEA
 - > SHBG



THYROID

ADRENAL

BLOOD SUGAR

DIGESTION





Female Hormone Testing

Blood Testing

- Progesterone
- Pregnenolone
- Estrogen
- Testosterones
- DHEA-S
- Thyroid
- Estriol



Specialty Testing

- Female Hormone Panel Saliva
 - Estradiol x 11
 - Progesterone x 11
 - Testosterone average
 - DHEA
 - LH x5 (expanded panel)
 - FSH x5 (expanded panel)
- 24-Hour Urine Comprehensive
- Dried Urine 4 Collection Test
- Fatty Acid Profile
- Adrenal Stress Index



Male Hormone Testing

Blood Testing

- DHEA-S
- Testosterone
- Dihydrotestosterone
- Creatinine +
- Monocytes +
- PSA
- Progesterone
- Estrogen
- Thyroid

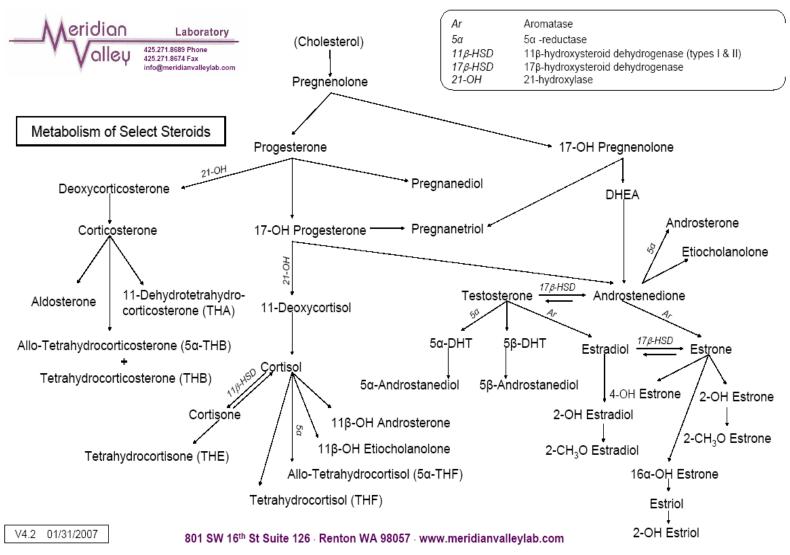


Specialty Testing

- Male Hormone Panel Saliva
 - DHEA
 - Androstenedione
 - Testosterone
 - Dihydrotestosterone
 - Estrone
 - Progesterone
 - LH (expanded panel)
 - FSH (expanded panel)
- 24-Hour Urine Comprehensive
- Dried Urine 4 Collection Test
- Fatty Acid Profile
- Adrenal Stress Index



24-Hour Urine Steroid Test





DUTCH

Hormone Testing Summary

All units are given in ng/mg creatinine

high limit low limit to result Postmenopausal How to read the graphical representation of results

Sex Hormones See Pages 2 and 3 for a thorough breakdown of sex hormone metabolites 27.0 6.0-17.0

Total Estrogen (Sum of 8 Estrogen Metabolites)

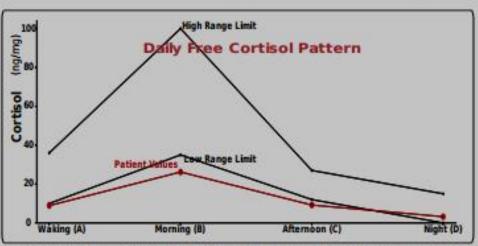
Progesterone (Serum Equivalent, ng/mL)

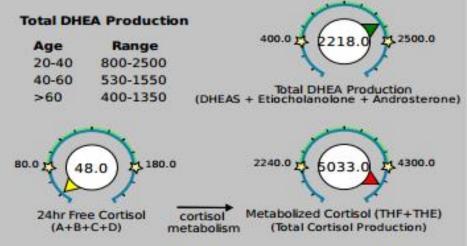


Testosterone

Progesterone Serum Equivalent is a calculated value based on urine pregnanediol. This value may not accurately reflect serum when progesterone is taken by mouth.

Adrenal Hormones See pages 4 and 5 for a more complete breakdown of adrenal hormones





Free cortisol best reflects tissue levels. Metabolized cortisol best reflects total cortisol production.

www.DUTCHtest.com



DUTCH

Progesterone	e Metabolism				
	b-Pregnanediol	Within range	996.0	ng/mg	450 - 1400
	a-Pregnanediol	High end of range	499.0	ng/mg	120 - 500
Androgen Me	etabolism				
	DHEAS	Above range	428.0	ng/mg	23 - 350
	Androsterone	Above range	1400.0	ng/mg	399 - 1364
	Etiocholanolone	Low end of range	390.0	ng/mg	371 - 765
	Testosterone	High end of range	12.8	ng/mg	4 - 14
	5a-DHT	Within range	2.1	ng/mg	0 - 8.8
	5a-Androstanediol	Within range	53.1	ng/mg	22 - 66
	5b-Androstanediol	Within range	12.1	ng/mg	6 - 32
	Epi-Testosterone	Within range	14.1	ng/mg	4.5 - 22.3
Estrogen Me	tabolites				
	Estrone(E1)	Above range	42.5	ng/mg	12 - 26
	Estradiol(E2)	Above range	7.4	ng/mg	1.8 - 4.5
	Estriol(E3)	Above range	22.5	ng/mg	5 - 18
	2-OH-E1	Below range	3.7	ng/mg	4.6 - 14.4
	4-OH-E1	Within range	1.1	ng/mg	0 - 1.8
	16-OH-E1	Within range	2.9	ng/mg	1 - 3.5
	2-Methoxy-E1	Below range	1.2	ng/mg	2 - 5.5
	2-OH-E2	Within range	0.4	ng/mg	0 - 1.2

www.DUTCHtest.com



Organs

- ✓ Blood Pressure
- ✓ Pulse
- ✓ Respiration Rate
- ✓ Blood Tests
 - > Kidney Panel
 - ➤ Liver Panel
 - ➤ Lipid Panel
 - ➤ Electrolytes
 - > CRP-hs
 - ➤ Homocysteine
 - > Iron and Ferritin
 - > VAP



THYROID

ADRENAL

BLOOD SUGAR

DIGESTION





Blood Testing for Organs and Body Systems

- ✓ Kidney Panel
- ✓ Liver Panel
- ✓ Lipid Panel
- ✓ Electrolytes
- ✓ CRP-hs
- √ Homocysteine
- ✓ Iron and Ferritin
- **√** VAP

BUN	7 .	
Creatinine, Serum	0.68	
eGFR If NonAfricn Am	104	
eGFR If Africn Am	120	
BUN/Creatinine Ratio	10	
Sodium, Serum	139	
Potassium, Serum	4.3	
Chloride, Serum	101	
Carbon Dioxide, Total	23	
Calcium, Serum	8.9	
Phosphorus, Serum	3.2	
Protein, Total, Serum	6.6	
Albumin, Serum	4.1	
Globulin, Total	2.5	
A/G Ratio	1.6	
Bilirubin, Total	0.3	
Alkaline Phosphatase, S	80	
LDH	149	
AST (SGOT)	15	
ALT (SGPT)	14	
GGT	23	
Iron, Serum	42	
Cholesterol, Total	194	
Triglycerides	222	HIGH
HDI Cholesterol	46	



Lab Testing Resources

✓ Blood Testing

Direct Labs: http://www.DirectLabs.com/drritamarie

- All blood tests
- Some functional tests: Genova, Doctor's Data

✓ Saliva Adrenal Stress Testing

- Genova: http://www.gdx.net, via www.directlabs.com
- BioHealth: http://www.biohealthlab.com
- ZRT Labs: <u>www.zrtlab.com</u>

✓ Steroid Hormones with Metabolites

- Meridian Valley: http://www.meridianvalleylab.com
- Genova: http://www.gdx.net, via www.directlabs.com
- Precision Analytics: https://dutchtest.com/



Special Lab Tests You Can Order

http://www.DirectLabs.com

✓ Blood Testing

- ➤ Comprehensive Wellness Profile
- ➤ Blood Hormone Levels
- ➤ Specialty Tests

✓ Adrenal

- Adrenal Stress, Saliva-MetaMetrix KIT 4x cortisol
- Adrenal Stress-Sabre Science KIT 6x cortisol

✓ Digestion

- CDSA-Comprehensive Digestive Stool Analysis Genova KIT
- Comprehensive Stool Analysis with Parasitology Doctors Data

✓ Hormone Balance

➤ Circadian Profile (Male or Female ages 13+) — Sabre Sciences



LEU 120 s

NIT 60 s

URO

PRO 60 s

pH 60 s

BLO 60 s

SG 45 s

KET 40 s

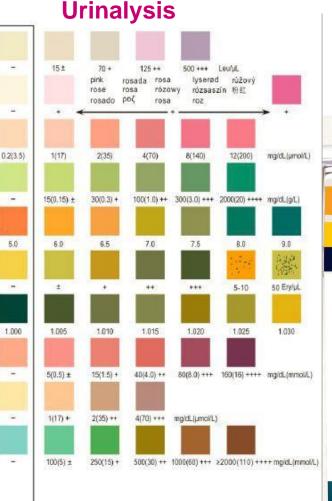
BIL 30 s

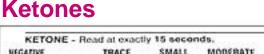
GLU

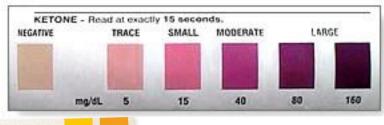
Nitric Oxide

(µmol/L) <20 Depleted 25-100 Low 100-300 Normal >300 Neo Optimal

pН







Vitamin C

Ascorbic Acid Test Strip

Procedure:

- Remove one test strip from vial & close vial with cap provided.
- Dip test strip into solution being tested for 2 seconds.
- 3. Compare color after 30 seconds of waiting time.
 - * Be certain cap is placed on vial to provide a tight closure.



Dip the pH Strip into the Saliva or Urine & Read after 15 seconds Do Not put the pH Strip Directly into your Mouth. Read Full Instructions on the Reverse Side of the Package.

pH.AccuCheck@gmail.com

6.75 7.0 7.25 7.5

Hariklia, Inc.

5.0 5.5 5.75 6.0 6.25 6.5

8.0 8.5 9.0

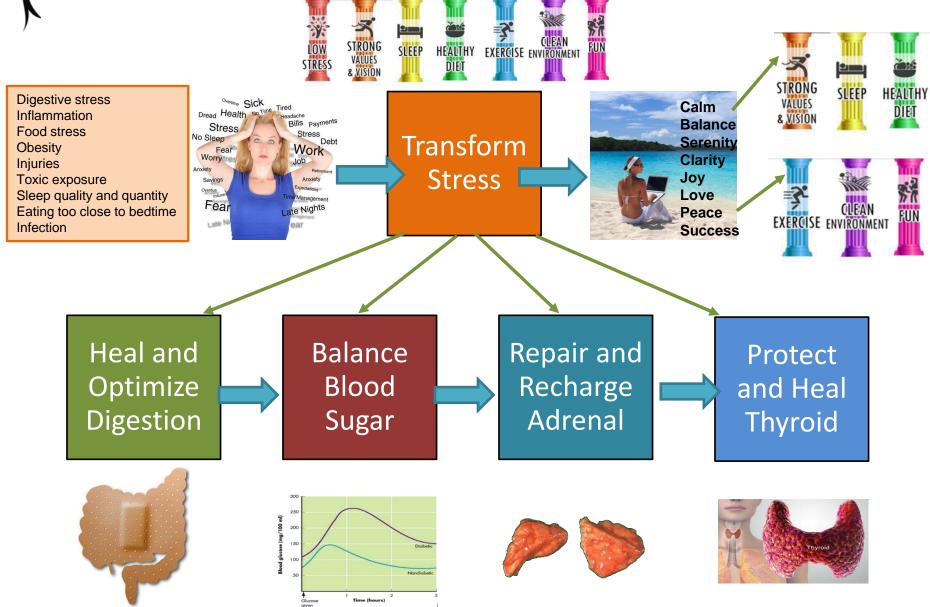


Lab Testing Handout

		L	Lab Res	sults -	U.S.				
Client Name	4								
	Units	LAB F	RANGE	IDEAL	RANGE	DATE			
CATEGORIES		Min	Max	Min	Max		Possible Interpretation		
Lab Markers						Results	High	Low	Follow-up
Glucose, serum	mg/dL	65.0	110.0	75.0	89.0		thiamin deficiency; stress; liver.		Test fasting insulin, hemoglobin A1C
Uric acid, serum (female)	mg/dL	1.8	7.0	3.2	5.5		Gout; atherosclerosis; oxidative stress; rheumatoid arthritis; kidney; circulation; leaky gut syndrome	and/or copper	If high, evaluate for signs and symptoms of joint pain. If low, check for other signs of B12 deficiency and mineral deficiency (home tests)
Uric acid, serum (male)	mg/dL	1.8	7.0	3.7	6.0		Gout; atherosclerosis; oxidative stress; rheumatoid arthritis; kidney; circulation; leaky gut syndrome	and/or copper	If high, evaluate for signs and symptoms of joint pain. If low, check for other signs of B12 deficiency and mineral deficiency (home tests)
Blood urea nitrogen (BUN), serum	mg/dL	8.0	28.0	13.0	18.0		1	Malabsorption; liver dysfunction; low protein diet	HCl challenge, enzymes, optimize digestion
Creatinine, serum	mg/dL	0.5	1.2	0.7	1.1		Urinary tract congestion/obstruction; kidneys;	Muscle wasting; malabsorption	HCl challenge, enzymes, optimize digestion
Estimated glomerular filtration rate (eGFR), serum	mL/min/1.73 m^2	59.0	-	59.0	-				referral to kidney specialist
Estimated glomerular filtration rate (eGFR) (African American), serum	mL/min/1.73 m^2	59.0	-	59.0	-				referral to kidney specialist
BUN/Creatinine Ratio	-	8.0	27.0	8.0	27.0		See BUN & Creatinine	See BUN & Creatinine	HCl challenge, enzymes, optimize digestion
Sodium, serum	mEq/L	135.0	148.0	135.0	140.0		Hyperadrenal; dehydration		check for signs of edema or dehydration, Adrenal Stress Index Test, HeartMath and other stress management skills
Potassium, serum	mEq/L	3.5	5.5	4.0	4.5		Hypoadrenal; dehydration; acidosis		Check for signs of edema or dehydration, Adrenal Stress Index Test, HeartMath and other stress management skills
Chloride, serum, plasma	mEq/L	99.0	111.0	100.0	106.0				HCl challenge, ph monitoring and appropriate diet changes, Adrenal Stress Index Test, HeartMath and other stress management skills
Carbon dioxide, total, serum	mEq/L	19.0	31.0	25.0	30.0				pH monitoring and appropriate diet changes, HCl challenge



Order Matters!







THYROID

ADRENAL

BLOOD SUGAR

DIGESTION



