# Casual Friday Series How to Build FM Protocols

**BIOGENETIX.COM** 



## Disclaimer

- Information in this presentation is not intended to diagnose, treat, reverse, cure, or prevent any disease. While this presentation is based on medical literature, findings, and text, The following statements have not been evaluated by the FDA.
- The information provided in this presentation is for your consideration only as a practicing health care provider. Ultimately you are responsible for exercising professional judgment in the care of your own patients.





## (Lifestyle + Genetics) x Time = Chronic Health Condition





(Lifestyle + Genetics) x Time = Chronic Health IMPROVEMENT



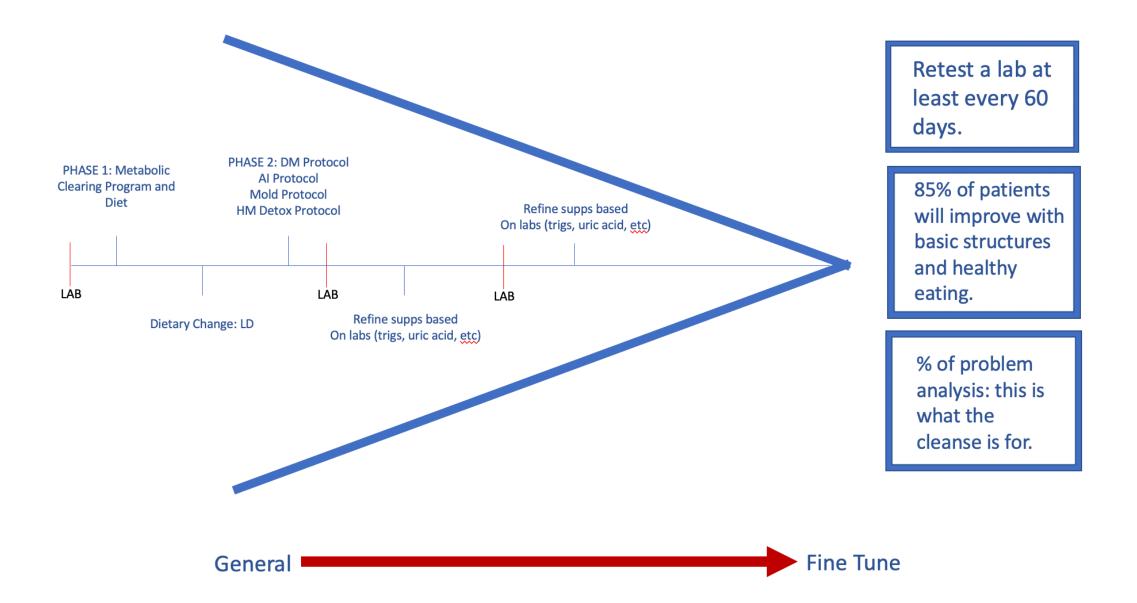
# Quick Note: FM vs Nutrition Model



# Quick Note: FM vs Nutrition Model

Wellness Essentials (Biogenetix.com)



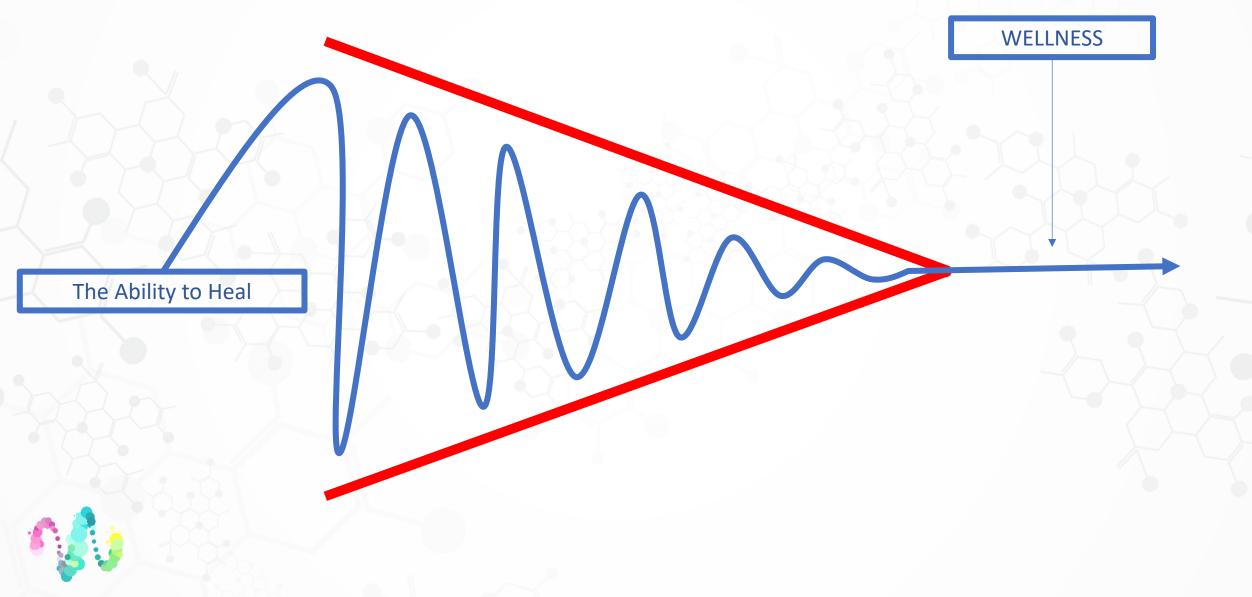




## (Lifestyle + Genetics) x Time = Chronic Health Outcomes



## **Building Protocols**



#### **PATTERNS**

Anemias Blood Sugar Dysregulation Infections/Stressors Biotoxin **Net Detoxification Thyroid Disorders** Acid/Base Hormone Sequestering **Genetic SNPs** Inflammatory Regulation Auto Immune Responses Trophic Needs Sympathetic/Para Hormone Dysregulation Toxicity **Organ Dysfunction** 





## 60 y.o. male, blood sugar concerns.

Comp. Metabolio	c Panel (14)					
Glucose		104	High	mg/dL	65-99	01
BUN		13		mg/dL	6-24	01
Creatinine		1.19		mg/dL	0.76-1.27	01
Hgb Alc with eA Hemoglobin Alc	G ESCIMACION	6.4	High	8	4.8-5.6	01
Please Note:			-			01
	rediabetes: 5.7 iabetes: >6.4	- 6.4				
G	lycemic control	for adult	ts with d	iabetes: <7.0		
Estim. Avg Glu	(eAG)	137		mg/dL		



TESTS	RESULT	FLAG	UNITS RE	FERENCE INTERVAL	LAB
CBC With Differential/Plate	elet				ΥΎ
WBC	6.2		x10E3/uL	3.4-10.8	01
RBC	5.04		x10E6/uL	4.14-5.80	01
Hemoglobin	14.1		g/dL	13.0-17.7	01
Hematocrit	43.3		00	37.5-51.0	01
MCV	86		fL	79-97	01
MCH	28.0		pg	26.6-33.0	01
MCHC	32.6		g/dL	31.5-35.7	01
RDW	12.9		8	11.6-15.4	01
Platelets	420		x10E3/uL	150-450	01
Neutrophils	49		8	Not Estab.	01
Lymphs	37		00	Not Estab.	01
Monocytes	9		00	Not Estab.	01
Eos	3		00	Not Estab.	01
Basos	1		00	Not Estab.	01
Neutrophils (Absolute)	3.1		x10E3/uL	1.4-7.0	01
Lymphs (Absolute)	2.3		x10E3/uL	0.7-3.1	01
Monocytes (Absolute)	0.5		x10E3/uL	0.1-0.9	01
Eos (Absolute)	0.2		x10E3/uL	0.0-0.4	01
Baso (Absolute)	0.1		x10E3/uL	0.0-0.2	01
Immature Granulocytes	1		00	Not Estab.	01
Immature Grans (Abs)	0.1		x10E3/uL	0.0-0.1	01



# Vitamin D, 25-Hydroxy 44.4 ng/mL 30.0-100.0 01 Vitamin D deficiency has been defined by the Institute of Medicine and an Endocrine Society practice guideline as a level of serum 25-OH vitamin D less than 20 ng/mL (1,2). The Endocrine Society went on to further define vitamin D insufficiency as a level between 21 and 29 ng/mL (2).

#### LP+Chol/HDL+LDL/HDL+CHD Risk

Lipids				01
Cholesterol, Total	132	mg/dL	100-199	01
Triglycerides	125	mg/dL	0-149	01
HDL Cholesterol	41	mg/dL	>39	01
VLDL Cholesterol Cal	25	mg/dL	5-40	
LDL Cholesterol Calc	66	mg/dL	0-99	
T. Chol/HDL Ratio	3.2	ratio	0.0-5.0	



Iron and TIBC				
Iron Bind.Cap.(TIBC)	268	ug/dL	250-450	
UIBC	189	ug/dL	111-343	01
Iron	79	ug/dL	38-169	01
Iron Saturation	29	90 0	15-55	
Ferritin, Serum	224	ng/mL	30-400	01
Thyroid Panel With TSH				
TSH	2.740	uIU/mL	0.450-4.500	01
Thyroxine (T4)	5.9	ug/dL	4.5-12.0	01
T3 Uptake	27	20	24-39	01
Free Thyroxine Index	1.6		1.2-4.9	



#### **PATTERNS**

Anemias Blood Sugar Dysregulation Infections/Stressors Biotoxin Net Detoxification **Thyroid Disorders** Acid/Base Hormone Sequestering Genetic SNPs Inflammatory Regulation Auto Immune Responses Trophic Needs Sympathetic/Para Hormone Dysregulation Toxicity **Organ Dysfunction** 

## **PROTOCOL**

#### Blood Sugar Dysregulation

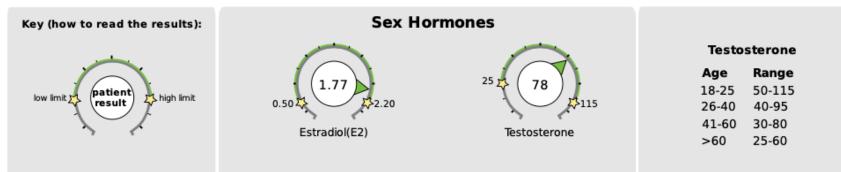
Inflammatory Regulation

**Trophic Needs** 

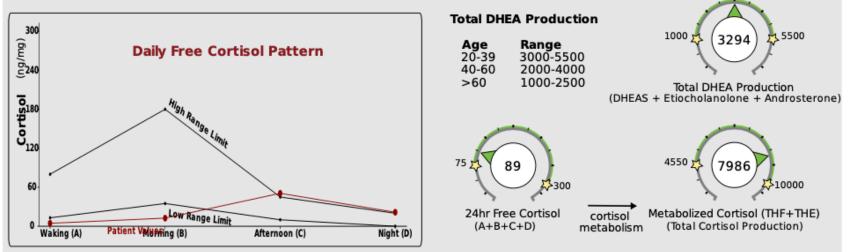
Hormone Dysregulation



#### **Hormone Testing Summary**

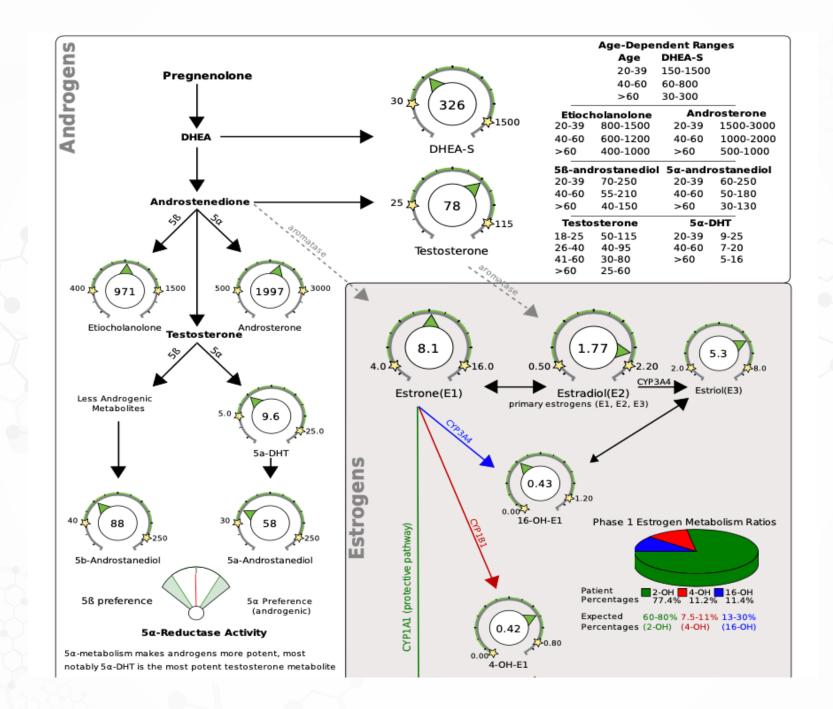


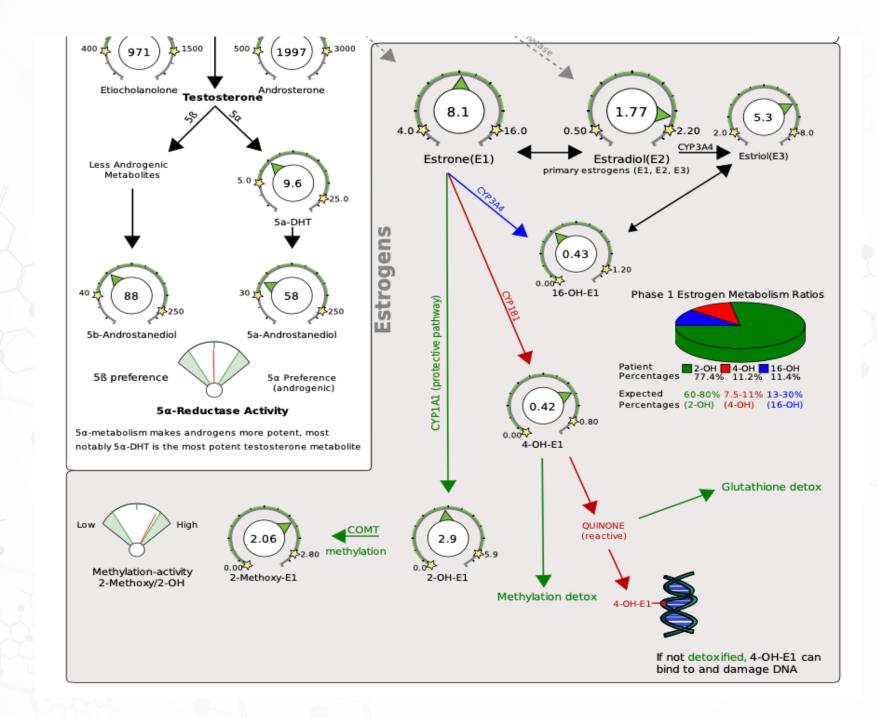
Adrenal Hormones See pages 4 and 5 for a more complete breakdown of adrenal hormones



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







Category	Test		Result	Units	Normal Range			
	Nutritional Organic Acids							
Vitamin B12	Vitamin B12 Marker (may be deficient if high) - (Urine)							
	Methylmalonate (MMA)	Within range	2.1	ug/mg	0 - 3			
Vitamin B6 M	larkers (may be deficient if higl	h) - (Urine)						
	Xanthurenate	Within range	0.6	ug/mg	0 - 2.1			
	Kynurenate	Within range	2.8	ug/mg	0 - 9.3			
Glutathione I	Glutathione Marker (may be deficient if low or high) - (Urine)							
	Pyroglutamate	High end of range	77.9	ug/mg	43 - 85			
	Neurotransmitter Metabolites							
Dopamine M	etabolite - (Urine)							
	Homovanillate (HVA)	Within range	12.1	ug/mg	4.8 - 19			
Norepinephri	Norepinephrine/Epinephrine Metabolite - (Urine)							
	Vanilmandelate (VMA)	Above range	8.7	ug/mg	2.8 - 8			
Melatonin (*measured as 6-OH-Melatonin-Sulfate) - (Urine)								
	Melatonin* (Waking)	Below range	2.4	ng/mg	10 - 85			
Oxidative Stress / DNA Damage, measured as 8-Hydroxy-2-deoxyguanosine (8-OHdG) - (Urine)								
	8-OHdG (Waking)	Within range	4.3	ng/mg	0 - 8.8			



#### **PATTERNS**

Anemias Blood Sugar Dysregulation Infections/Stressors Biotoxin Net Detoxification **Thyroid Disorders** Acid/Base Hormone Sequestering Genetic SNPs Inflammatory Regulation Auto Immune Responses Trophic Needs Sympathetic/Para Hormone Dysregulation Toxicity **Organ Dysfunction** 

## **PROTOCOL**

**Blood Sugar Dysregulation** 

#### Net Detoxification

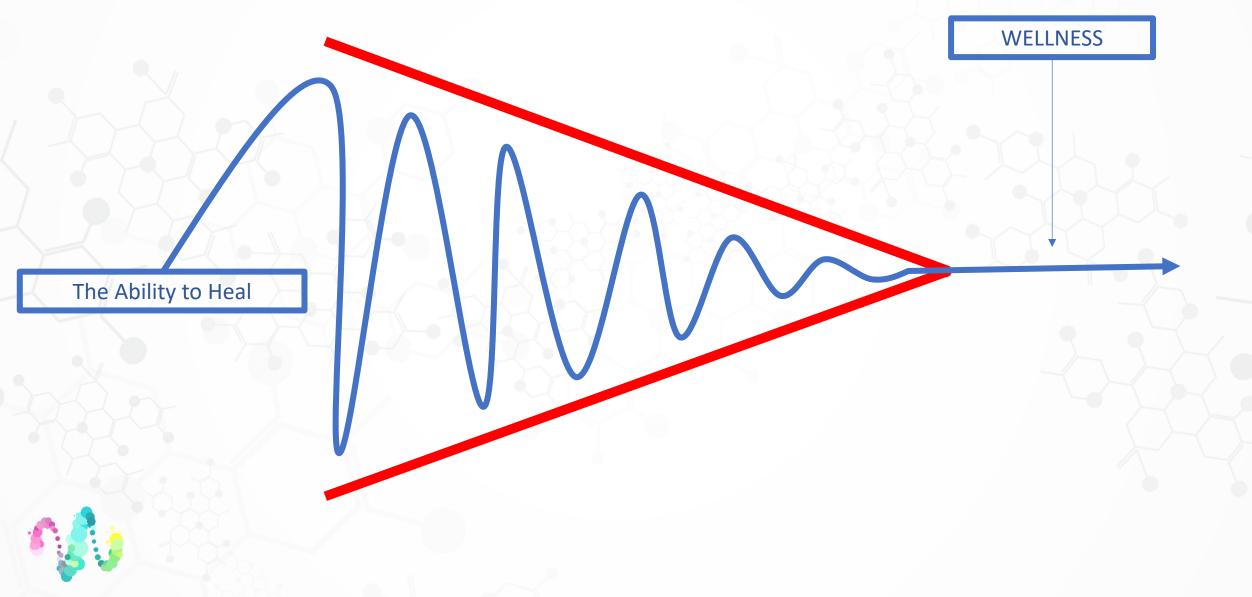
Hormone Sequestering

Inflammatory Regulation

Trophic Needs Sympathetic/Para Hormone Dysregulation



## **Building Protocols**



#### **PROTOCOL**

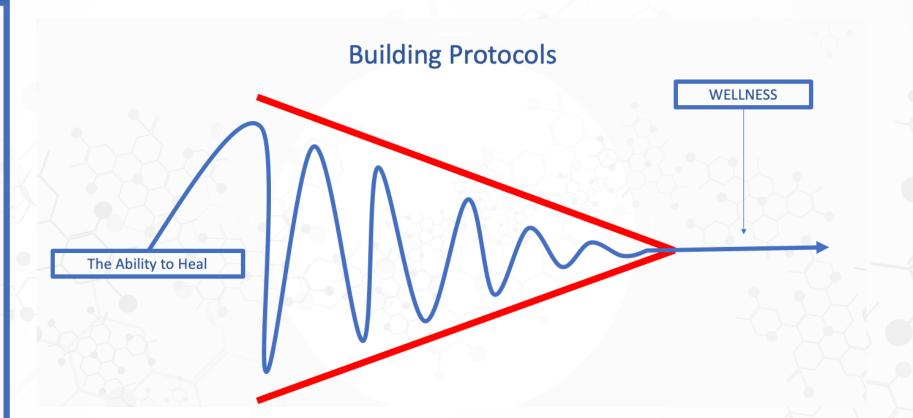
**Blood Sugar Dysregulation** 

#### **Net Detoxification**

Hormone Sequestering

Inflammatory Regulation

Trophic Needs Sympathetic/Para Hormone Dysregulation





#### **PROTOCOL**

Blood Sugar Dysregulation

**Net Detoxification** 

**Hormone Sequestering** 

Inflammatory Regulation

Trophic Needs Sympathetic/Para Hormone Dysregulation

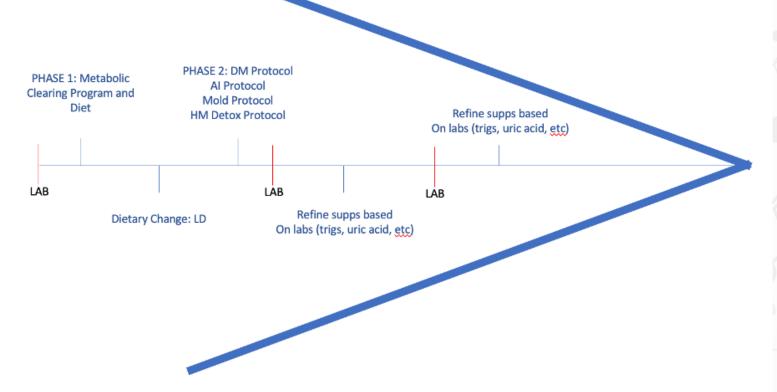
### **Hierarchy**

- 1. Inflammatory Regulation
  - Net Detoxification
  - Sympathetic/Para
  - Hormone Sequestering
- 2. Blood Sugar Dysregulation
  - Hormone Dysregulation
  - Trophic Needs



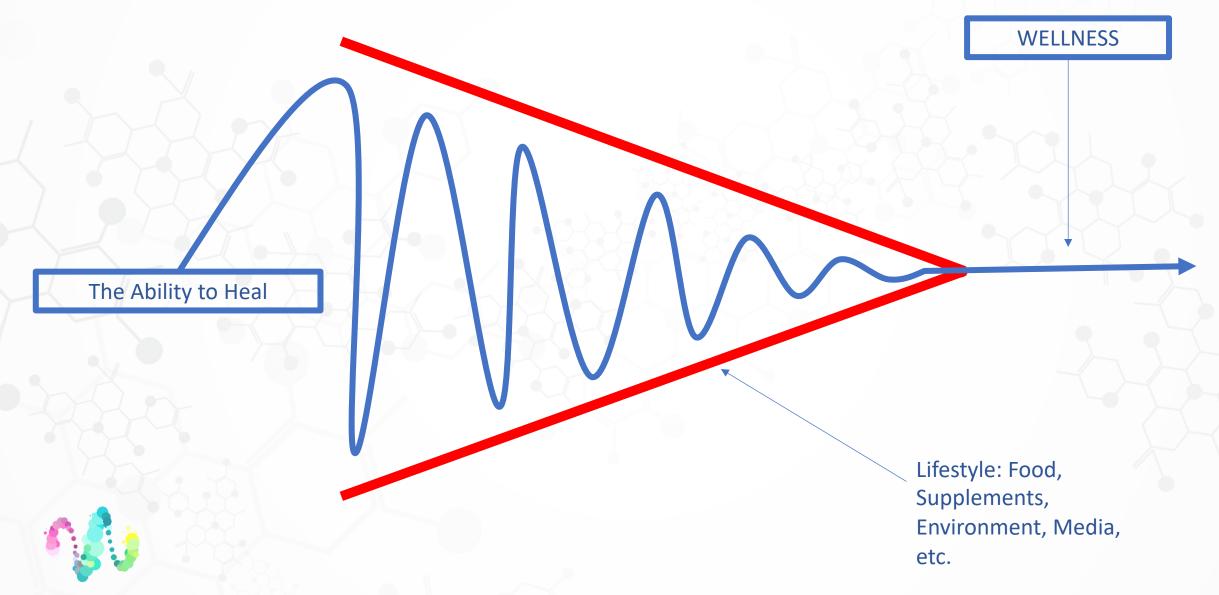
## **Hierarchy**

- 1. Inflammatory Regulation
  - Net Detoxification
  - Sympathetic/Para
  - Hormone Sequestering
- 2. Blood Sugar Dysregulation
  - Hormone Dysregulation
  - Trophic Needs





## **Building Protocols**



## **Hierarchy**

## 1. Inflammatory Regulation

- Net Detoxification
- Sympathetic/Para
- Hormone Sequestering
- 2. Blood Sugar Dysregulation
  - Hormone Dysregulation
  - Trophic Needs

## **Protocol**

#### Phase 1:

- 21-Day Metabolic Clearing Program Phase 2:
  - Glucostatic Balance
  - Effecsulin
  - GSH, PC, Super G, CoQ10
  - Omega3 Fish Oil
  - Hypaax Balance
  - D3K2



#### PATTERNS Anemias **Blood Sugar Dysregulation** Infections/Stressors **Biotoxin** Net Detoxification Thyroid Disorders Acid/Base Hormone Sequestering **Genetic SNPs** Inflammatory Regulation **Auto Immune Responses Trophic Needs** Sympathetic/Para Hormone Dysregulation Toxicity **Organ Dysfunction**

Metabolic Clearing Program

Zeb's Offer: Order 21-Day

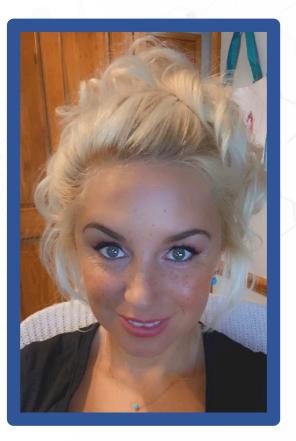
## Applied Blood Chemistry

- Through the end of October
- 12 Hour Course
- Learn to ID the patterns
- Get exposed to Functional Analysis
- MSRP \$799
- CE-not available in this format

# Biogenetix: 833-525-0001



zeb@biogenetix.com



## kim@biogenetix.com

