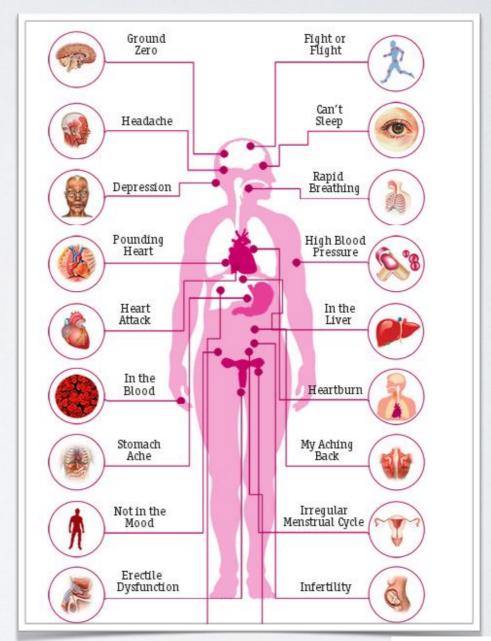
THE CORTISOL, HIGH BLOOD SUGAR, INFLAMMATION & WEIGHT GAIN CONNECTION

By Dr. Stephen Cabral



IT'S TIME TO DISCOVER HOW:

- Stress causes inflammation and sets off the "dis-ease cycle"
- Losing weight has much more to do beyond calories in versus calories out
- Chronic low carb dieting can be disastrous in the long-run
- Stress affects metabolic hormones and lowers metabolism rate





MY BACKGROUND

- Life-altering illnesses at 17 years old
- Given no hope for recovery
- Finally found my answers
- Went back to school & interned all over the world to discover what "medicine was the best"
- Over 250,000 appointments completed
- One of the largest virtual Functional Medicine practices in the world
- Now teach close to 1,000 health coaches & practitioners in the Integrative Health Practitioner course & certification



CHANGE YOUR BODY. CHANGE YOUR LIFE.



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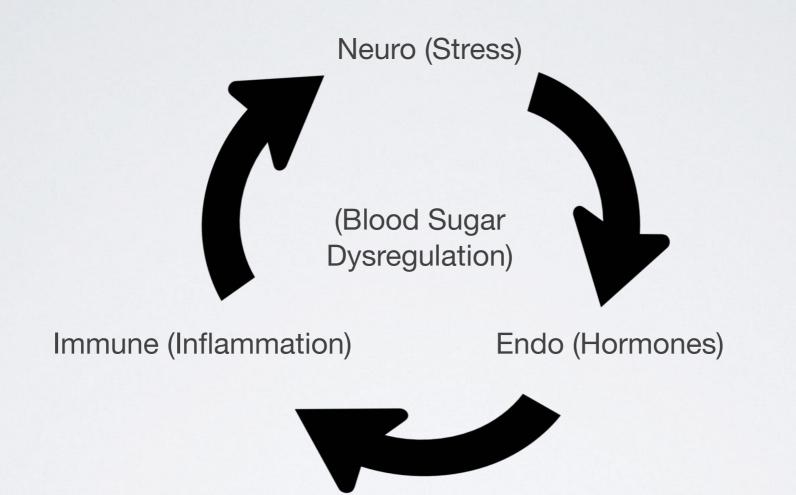
LET'S GET STARTED



HOW STRESS CAUSES INFLAMMATION & WEIGHT GAIN DESPITE DIET



NEUROENDOIMMUNOLOGY



How the nervous system effects the endocrine (hormones) system which then effects the immune (inflammation) system

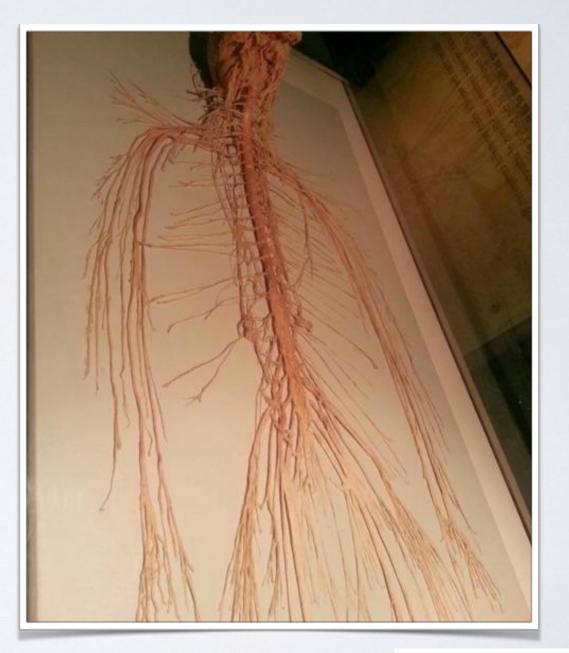


YOUR NERVOUS SYSTEM



YOUR BODY IS WIRED

- Proprioceptors provide external feedback
- Internal feedback loops can trigger the Autonomic Nervous System (ANS) for Fight/Flight or Rest/Relax
- Stress is stimulated in the Fight/Flight which triggers the Sympathetic Nervous System





2 BRANCHES OFTHE A.N.S.

Sympathetic Nervous System

- Stress
- Catabolism (breakdown)
- Blood sugar dysregulation
- Hormone dysregulation
- Immune dysregulation
- Speeds up aging process
- Lowering of digestion, libido, memory, and drive/ambition
- Increases anxiety, overwhelm, irritability and worry

- Parasympathetic Nervous System
 - Rest
 - Repair (anabolism)
 - Burn body fat
 - Lowers stress hormones
 - Increase anti-aging hormones
 - Boosts immune system
 - Allows for proper detoxification
 - Strong digestion
 - Calms mind and body

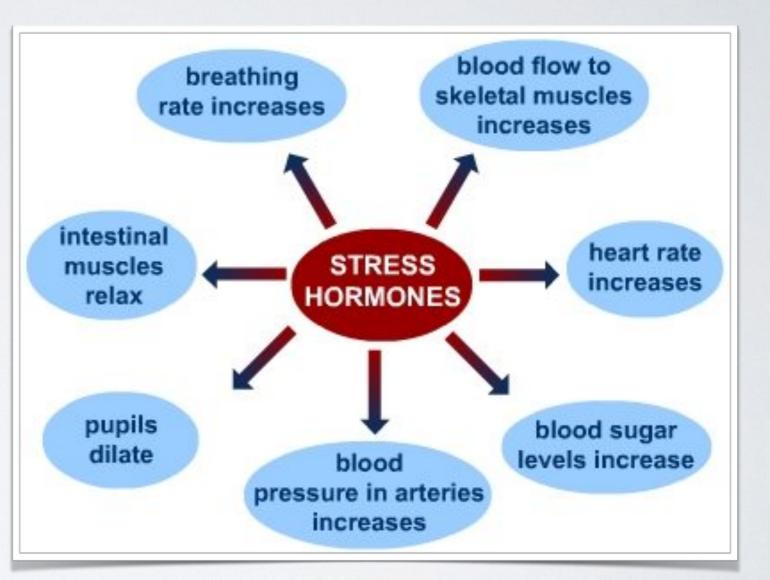


YOUR ENDOCRINE (HORMONE) SYSTEM



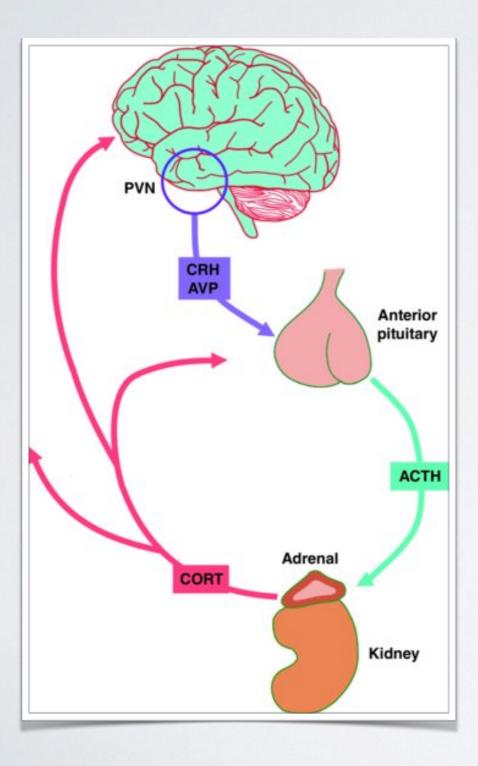
WHAT CAUSES STRESS?

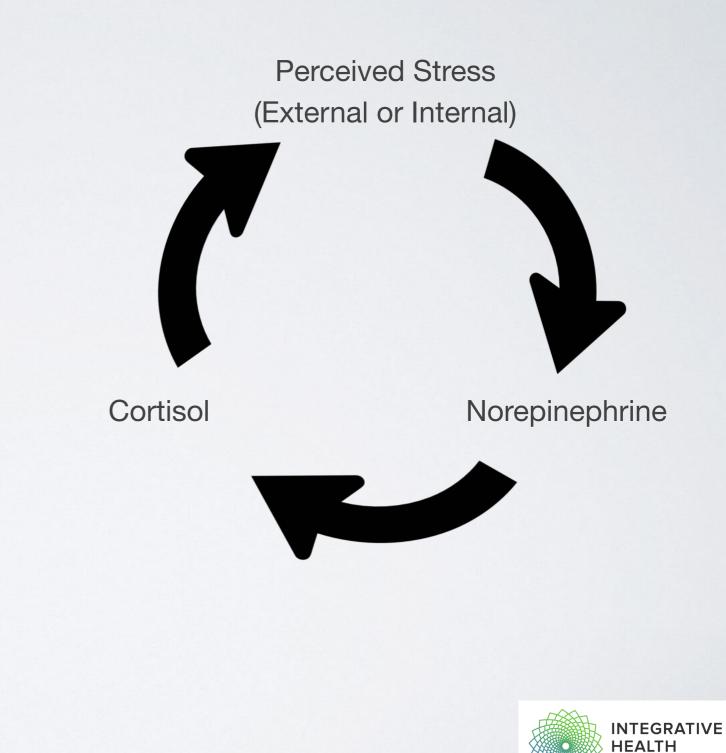
- Work/Life/Emotions
- GI Digestive Imbalances
- Toxins
- Heavy Metals
- Viruses
- Adipose Tissue (fat stores)





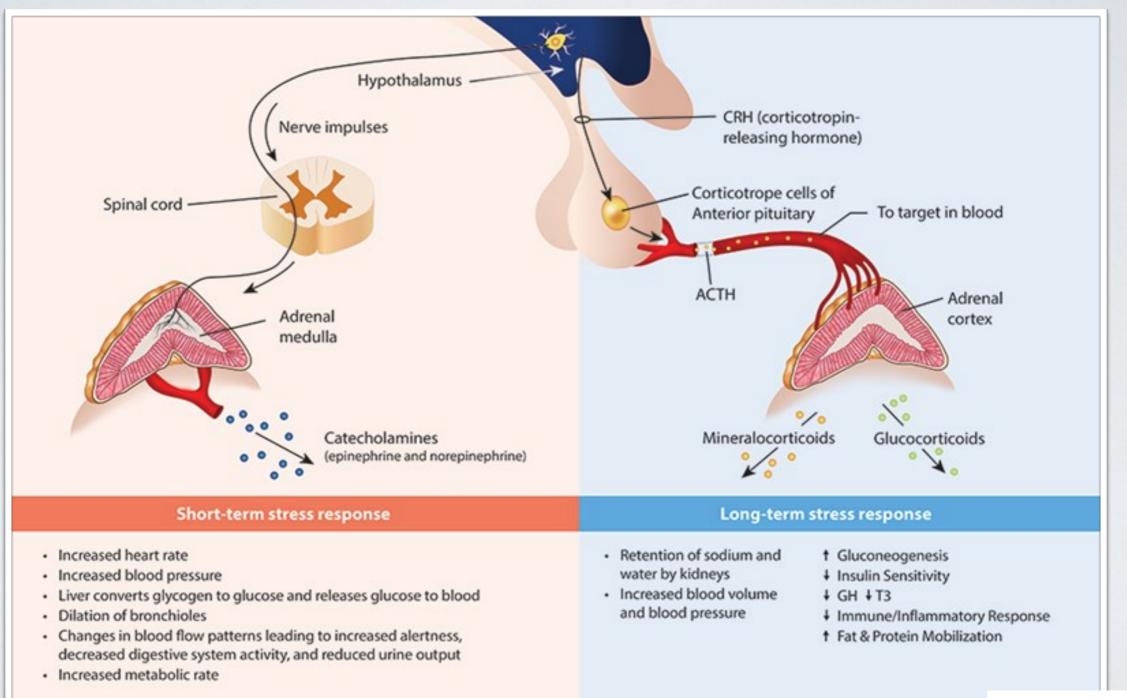
STRESS RESPONSE





PRACTITIONER

SHORT & LONGTERM STRESS



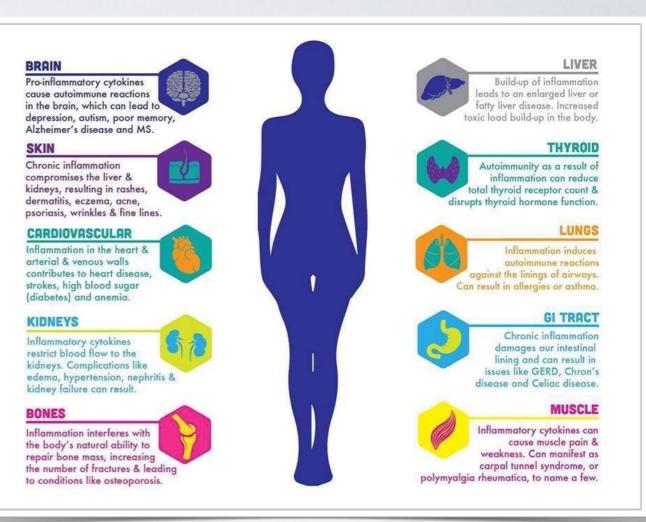


YOUR IMMUNE SYSTEM



YOUR BODY UNDER STRESS

- Lowering of SIgA
- Lowering of DHEA
- Increase in pro-inflammatory cytokines (inflames body during repair/attack process)
- Stress depletes essential minerals and vitamins needed for dynamic equilibrium
- Stress leads to increases in blood sugar which leads to increased insulin response which leads to inflammation
 - Insulin stimulates the release of interleukin-6 (IL-6) - Th2 Cytokine
 - Interleukin-6 (IL-6) stimulates more stress response (cortisol) and the cycle repeats!

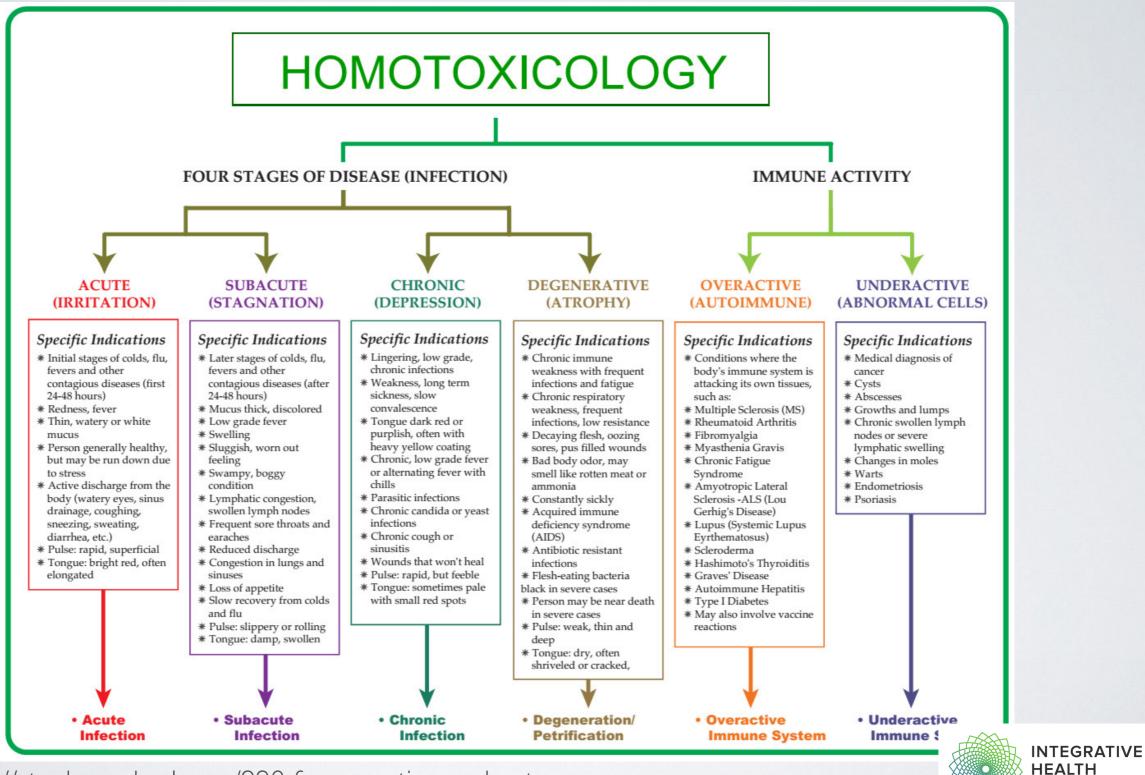


The effects of inflammation on the immune system

*Podcast: StephenCabral.com/1166



6 PHASES OF DISEASE



PRACTITIONER

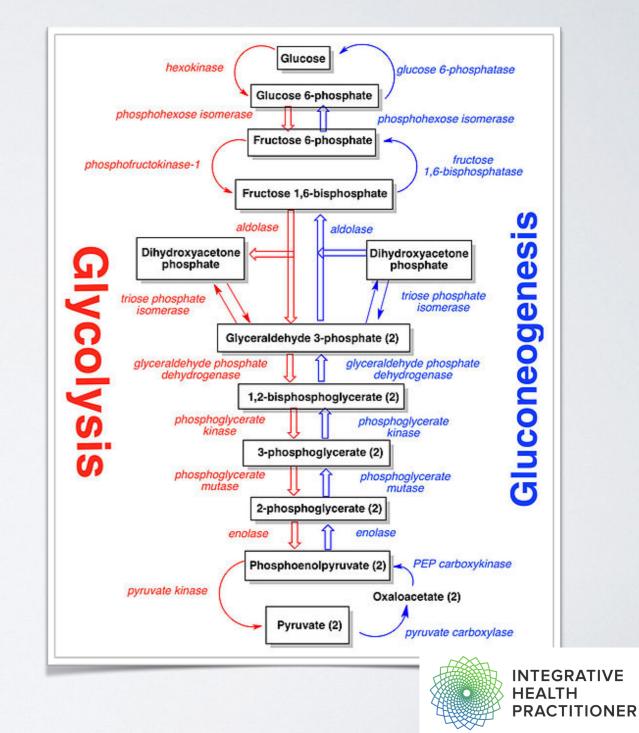
Refer to <u>https://stephencabral.com/998</u> for an entire podcast breakdown of this Homotoxicology Chart

HOW WEIGHT GAIN OCCURS FROM STRESS



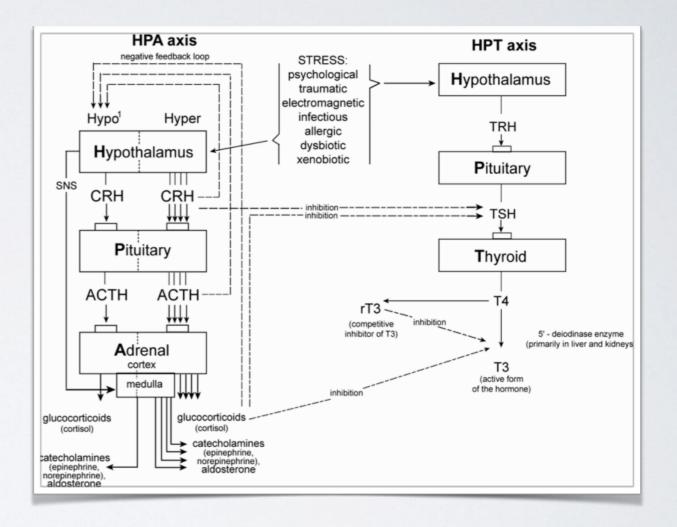
CHRONIC STRESS CAN CAUSE WEIGHT GAIN

- Stress causes fight/flight
- Fight/Flight causes an increase in available glucose in the blood stream
- No activity is needed to use this glucose and it is restored or increases adipose tissue (and results in inflammation & water retention due to rise in aldosterone)
- The bigger factor is long-term
 hormonal/metabolic reduction
- *Podcast: <u>StephenCabral.com/957</u>



BEYOND BLOOD SUGAR

- Cortisol (insulin) will increase belly fat storage
- Chronic stress leads to estrogen dominance by way of lower progesterone
 - This leads to a host of mood, skin, hair & weight issues (hips) in women (& men)
- Hypothyroidism (low thyroid/.5-2mU/L)
- Lowering of testosterone in men
- Depletion of vitamin & mineral reserves





THIS IS WHY WHAT YOU EAT MATTERS, BUT FOR SOME PATIENTS/CLIENTS IT'S NOT JUST ABOUT CALORIES IN/ CALORIES OUT (MACROS)



AND ALTHOUGH EATING WHOLE HEALTHY FOODS IS ESSENTIAL, IT DOES NOT FIX THE STRESS RESPONSE



HOW TO FIX THE PROBLEM



I ST CHECK TO SEE IF THIS IS HAPPENING IN YOUR BODY



OPTION I: BASIC TESTING

- Resting HR (50-69BPM) (Oximeter)
- Waking body temperature (98.0-98.8°)
- Waking & before bed blood pressure (110/120-70/80)
- Heart Rate Variability (>59?)
- (AM) Fasting blood sugar (70-95 mg/dL) (Glucometer)
 - Post-Workout/Coffee/Stressor Blood Sugar





OPTION 2: FM TESTING

- May complete these labs at home or with your local health practitioner
- For stress these are the top 3 labs:
 - Thyroid Adrenal Hormone (saliva & dried blood spot card)
 - Organic Acids Test (mitochondrial function, ketones, gut function, detox, neurotransmitter metabolites, and vitamin levels)
 - Hair Tissue Mineral Analysis (electrolyte balance, mineral levels, heavy metals)
 - * All At-Home Labs Available at EquilibriumNutrition.com





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I HOPE YOU ENJOYED THE PRESENTATION!



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