

WHOLE FOOD NUTRIENT SOLUTIONS

The Adrenal Conundrum A Functional Medicine Perspective

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As a member of the Standard Process wellness team, Dr. Georgia Nab provides chiropractic care, nutrition counseling, and nutrition education training to more than 300 employees at the company's corporate headquarters in Palmyra, Wisconsin.

Dr. Nab owned a chiropractic clinic in Wichita, Kansas, before joining Standard Process and draws from experience gained during more than two decades in practice. She graduated from Cleveland Chiropractic College's Kansas City campus in 1994 and recently earned her master's degree in nutrition and functional medicine from the University of Western States. In addition, she is certified in applied kinesiology and nutrition.

Dr. Nab is a member of the American Chiropractic Association, Wisconsin Chiropractic Association, and Chiropractic Society of Wisconsin. She also works with Affiliated Monitors, an independent monitoring company for professionals. Good nutrition and healthy living are her passions, and she enjoys both with her family in Dousman, Wisconsin.



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Discussion:

- Effect of stress on the adrenals, thyroid and mitochondria as seen through functional medicine model
- Psychoneuroimmunology—effect on HPA axis
- New Stress Assess questionnaire
- Nutritional support for each phase of adrenal support



What is Functional Medicine?

- Biochemical individuality
- Dynamic balance
- Web-like interconnections
- Health = Vitality
- Promote organ reserve



Physiology and Function: Organizing the Patient's Clinical Imbalances

Retelling the Patient's Story

Antecendents (Predisposing Factors-Genetic/Environmental)

> Triggering Events (Activators)

Mediators/Perpetuators (Contributors)

Assimilation (e.g., Digestion, Aobsorption, Microbiota/Gl, Respiration)

Defense & Repair (e.g., Immune, Inflammation, Infection/GI, Microbiota)

Structural Integrity

(e.g., form Subcellular Membranes to Musculoskeletal Structure)

Communication

(e.g., Endocrine, Neurotransmit-

ters, Immune Messengers)

Mental e.g., cognitive, function, perceputal patterns

Spiritual e.g., meaning & purpose, relationship with something greater

Biotransformation & Elimination (e.g., Toxicity, Detoxification)

Energy

(e.g., Energy, Regulation,

Mitochondrial Function)

Transport (e.g., Cardiovascular, Lymphatic System)

 Sleep & Relaxation
 Exercise & Movement
 Nutrition & Hydration
 Stress & Resilience
 Relationships & Networks

CC:

Name:

Date:

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Emotional

e.g., emotional

regulation, grief,

sadness, anger, etc.

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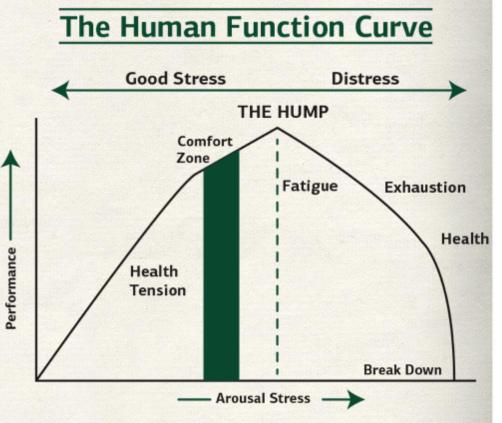
How do we define "stress"?

"Any threat to an organism's homeostasis"

"A state of mental or emotional strain or tension resulting from adverse or very demanding circumstances" (Webster)

"The non-specific response of the body to any demand for change" (Hans Selve in 1936)

Good stress. Bad stress. Perceived stress.

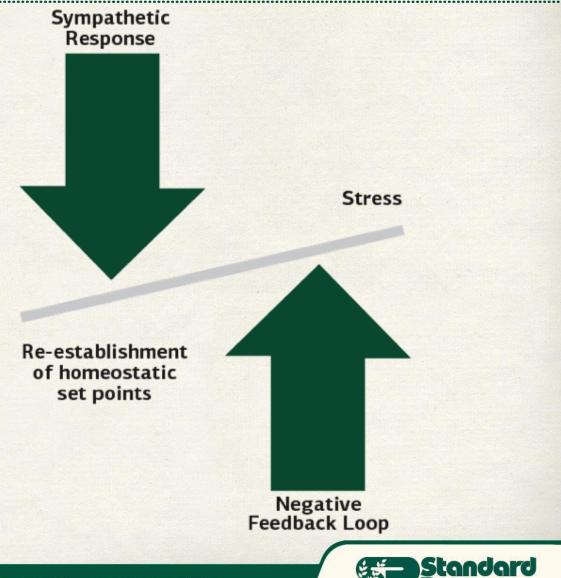


Adapted from: Nixon, P: Practioner, 1979.

"Adopting the right attitude can convert a negative stress into a positive one." - Hans Selye

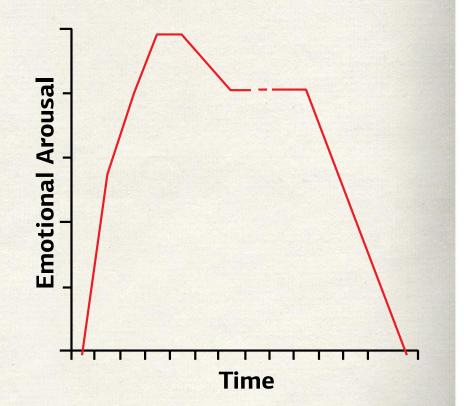


The function of the stress response is to maintain homeostasis via neural and endocrine adaptations.

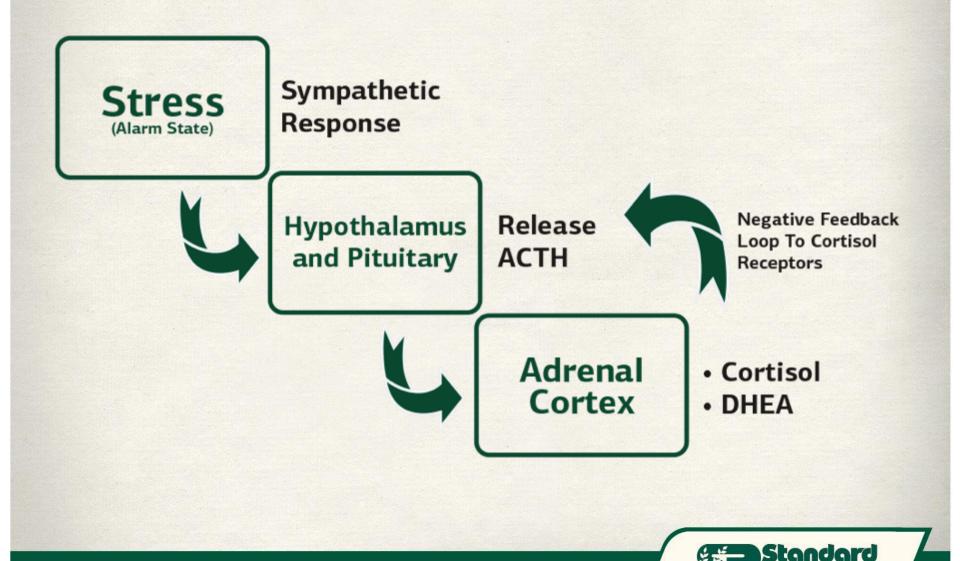


The General Adaptation Syndrome Selye (1956)

- Gross Emotional Reaction
 Sympathetic Activation
- Decreased Emotion
 - Parasympathetic Activation
- Exhaustion, Death
 Depletion of Resources



Hans Selye, General Adaptation Syndrome, 1936



Selye: General Adaptation Syndrome

Stage 1: Arousal

 Both cortisol and DHEA increase with episodic stress, but recovery occurs to baseline. Usually asymptomatic.

Stage 2: Adaptation

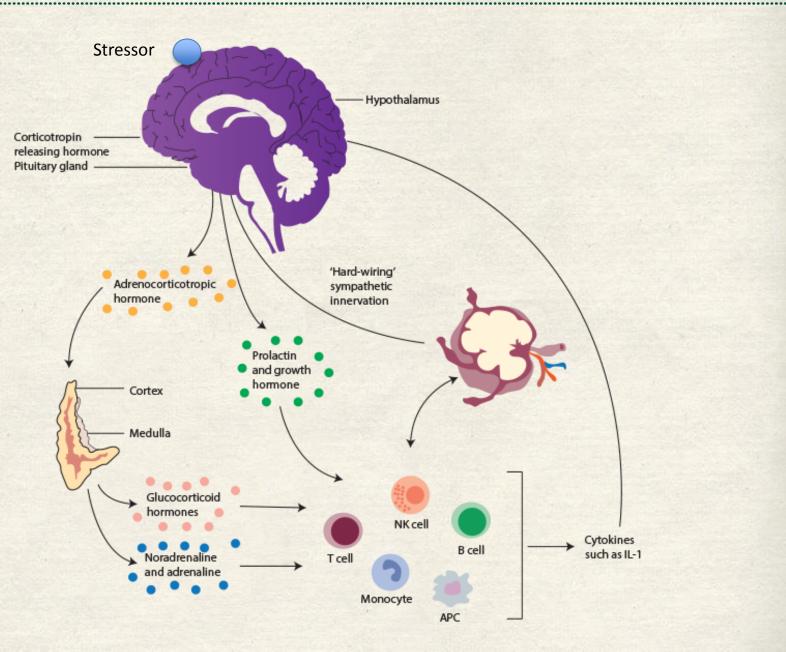
 Cortisol chronically elevated, but DHEA declines. "Stressed", anxiety attacks, mood swings, low moods.

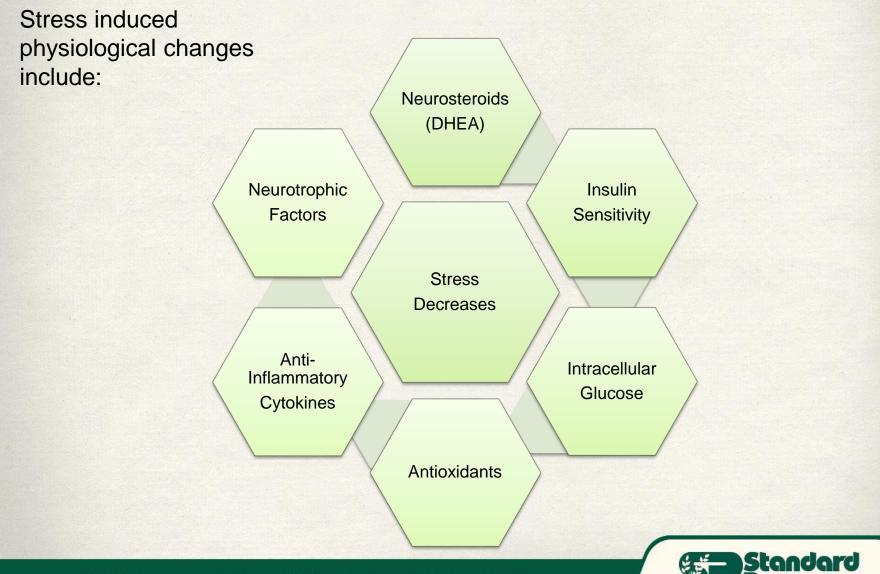
Stage 3: Exhaustion

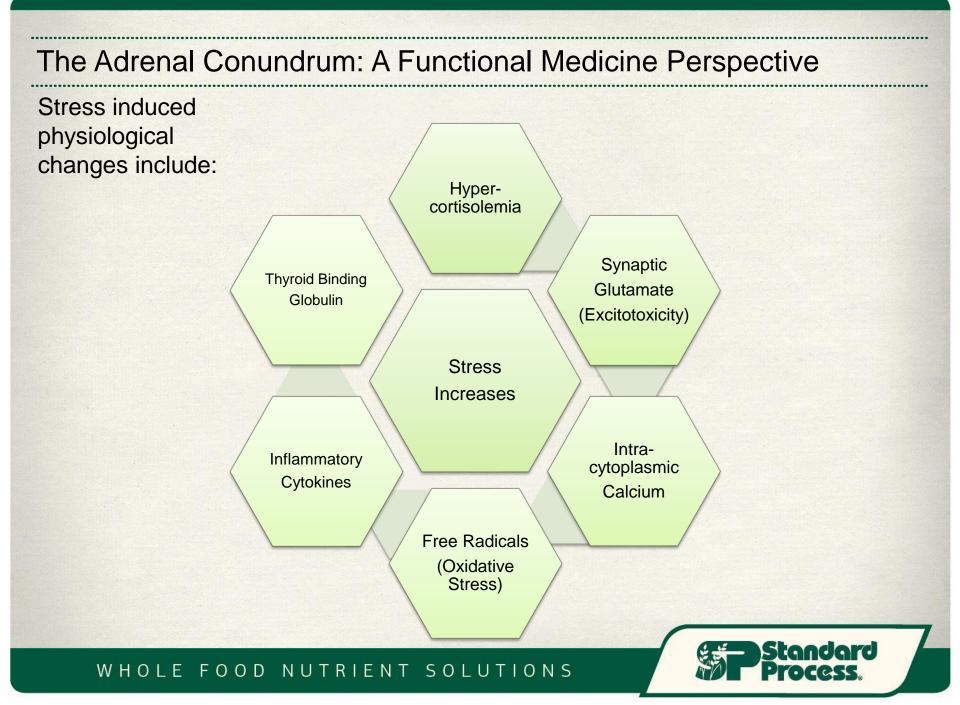
 Adrenal insufficiency/low cortisol and DHEA. Low mood and low energy.



Psychoneuroimmunology

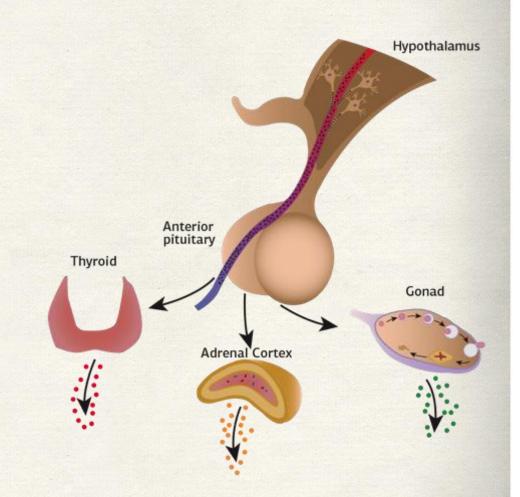






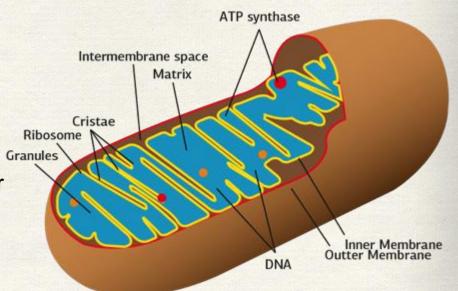
What about the interaction of stress, adrenals, and the thyroid gland?

- Suppression in hypothalamus = decrease in TRH, TSH, thyroid hormones
- 2. Inflammatory cytokines block conversion T4 to T3
- 3. Overactive immune system increases chances of antithyroidal antibody production
- 4. Increase thyroid binding globulin
- 5. Cortisol depleted
- 6. Magnesium depleted





- And those amazing mitochondria?
- City = electric company
- HVAC = thermal regulation
- Waste management = ROS containment
- Grim reaper = apoptotic regulation
- Moving company = intra-/extra-cellular trafficking/cell movement
- Dept. of defense = immune system response/inflammatory response/stress response/cell danger
- Historical society = evolutionary tacking via mtDNA



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Key is to look at the patient as a whole, evaluating clinical imbalances beyond one organ.

- What lifestyle factors need to be addressed?
- Diet, movement, sleep, relationships
- What is the patient's outlook (positive or negative) and therefore their outlook on stress?
- How can you best support the patient nutritionally?



STANDARD PROCESS **STRESS ASSESS**™

How well do you think you are handling stress? This assessment will help you and your health care professional design a personalized program to support your stress response and well-being.

Have you experienced any significant life events or changes in the last three months (illness, injury, job change, new baby, marriage, divorce, extreme training for a sporting event, major project at work, etc.)? If so, please list:									
Hours of sleep each night: 3-4 5-6 7-8 9+	Hours exercised per week: 0 1-2 3-5 6+	Alcoholic drinks per week: (1 drink = 12 oz beer, 5 oz. wine, 1.5 oz. liquor) 0 1-2 3-7 8+	Meals eaten out per week: 0 1-2 3-5 6+						
Do you have any downtime or participate in quiet mindfulness activities? (Pilates, yoga, meditation, quiet walks, personal hobbies) Yes No									



Ple	ease answer the following questions based on your experience within the last month .	Not at All	Little Bit	Somewhat	Quite a Bit	Very Much
1.	How stressful would you say your life is?	1	2	3	4	5
2.	Dealing with daily stresses is negatively affecting my daily tasks.	1	2	3	4	5
3.	I have a high intake of sugar and/or processed foods.	1	2	3	4	5
4.	l feel worn down and/or burnt out.	1	2	3	4	5
5.	I need caffeine or other energy drinks in the morning or afternoon to give me energy.	1	2	3	4	5
6.	I seem to have lower than usual energy during the day.	1	2	3	4	5
7.	I experience body aches and pains.	1	2	3	4	5
8.	I have periods of low moods.	1	2	3	4	5
9.	I feel more irritable.	1	2	3	4	5
10.	My weight and metabolism have changed.	1	2	3	4	5
11.	I can't seem to focus or concentrate.	1	2	3	4	5
12.	I have feelings of anxiousness.	1	2	3	4	5
13.	I feel totally exhausted most of the day and only have a few productive hours.	1	2	3	4	5
14.	I find myself pushing through fatigue to get things done.	1	2	3	4	5
15.	I seem to be sleeping a lot but never feel quite rested. I wake up feeling tired.	1	2	3	4	5
16.	I have difficulty getting to sleep and/or wake up in the middle of the night.	1	2	3	4	5
17.	I experience strong cravings for sweet or salty foods.	1	2	3	4	5
18.	I feel overwhelmed with daily tasks and all that is on my plate.	1	2	3	4	5
19.	I have a low sex drive.	1	2	3	4	5
20.	I am unable to enjoy socializing with family and/or friends.	1	2	3	4	5

Standard

Add up your total score and mark where you fall on the stress scale below.			Total:		
Low Stress				High Stress	
20 L	40 I	60 I	80 I	100	
Stress is fairly well managed in your life. It may be important to support your body to continue its healthy response.		Your body's response to stress may be getting in the way of normal activities quite frequently, leaving you feeling depleted. Consult your health care professional for an individualized program to achieve your health goals.	your body's stress respo or successfully cope. Co	You may have experienced prolonged stress, and your body's stress response can no longer adapt or successfully cope. Consult your health care professional for targeted support and strategies or improvement.	

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Phase I: Alarm

- Drenamin[®], Cataplex[®] A-C-P, Paraplex[®]
- Support adrenal function and emotional balance

Support cellular health, cardiovascular, and immune*

Adrenal Health Daily Fundamentals

Cellular

Vitality

Rhodiola &

Schisandra

- Provides CoQ₁₀, multi-B's, antioxidants
- Support cellular functions
- American ginseng as a body tonic for everyday stress*
 - Support when experiencing temporary stress
 - Support against emotional and environmental stressors
- Support healthy liver and nervous system function*

*These statements have not been evaluated by the Food and Drug Administration. These products are not intended to diagnose, treat, cure, or prevent any disease.

Phase II: Resistance

- Protomorphogen[™] extract support
- Unique profile of minerals, nucleotides and peptides

Drenatrophin PMG[®]

Adrenal

Complex

Withania

Complex

- Supports adrenal gland health*
- Restore adrenal function to reduce the effects of stress
- Support adrenal gland function and health
- Support healthy immune system during occasional stress*

Whole body tonic

- Promote healthy adrenal gland function
- Promote vitality and stamina*

*These statements have not been evaluated by the Food and Drug Administration. These products are not intended to diagnose, treat, cure, or prevent any disease.

Phase III: Fatigue/Exhaustion

- Powerful adrenal support for immediate energy needs
- Short term: 1 to 2 months only

Adrenal Desiccateo

Nevaton®

Kava Forte

- Supports immune system during times of increased demand*
- Support healthy nervous system response
- Ease effects of occasional stress
- Encourage balance between body and mind*
- Calm the nerves
- Ease the effects of everyday tension and stress
- Promote relaxation and sleep*

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