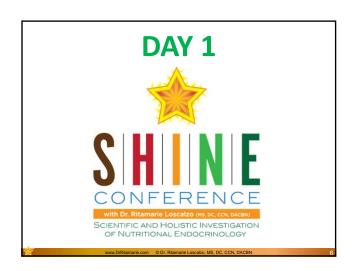


Medical Disclaimer: The information in this presentation is not intended to replace a one-on-one relationship with a qualified health care professional and is not intended as medical advice. It is intended as a sharing of knowledge and information from the research and experience of Dr. Ritamarie Loscalzo, drritamarie.com, and the experts who have contributed. We encourage you to make your own health care decisions based upon your research and in partnership with a qualified health care professional.



Nutritional Endocrinology Defined

- ✓ Relationship between <u>nutrition</u> <u>and endocrine imbalances</u>
- ✓ Impact of nutrient deficiencies or excesses on hormones
- √ The <u>relationship between</u>
 <u>food and hormones</u>

Endocrinology is not a subspecialty.

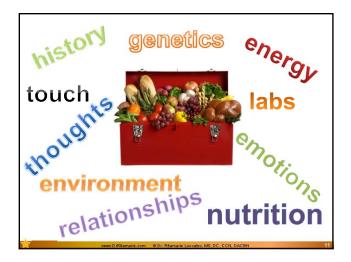
It is the <u>Master Control Center</u>



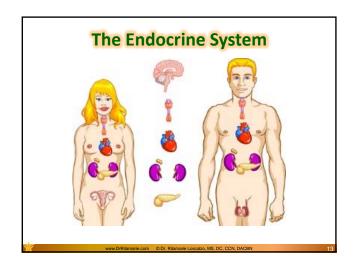
-- The key to unraveling the profound impact of hormone imbalance on EVERY system of the body!

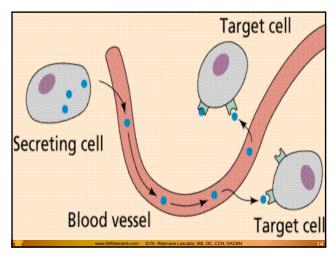


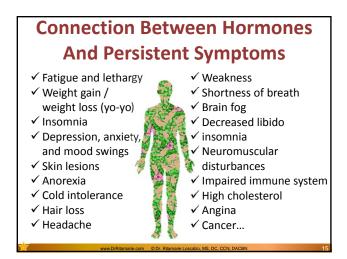


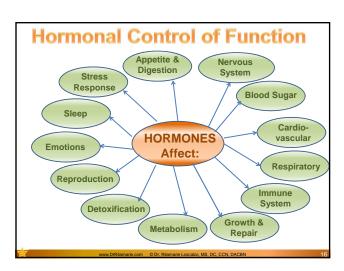


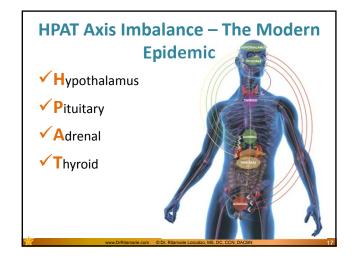
What Exactly Are Hormones? ✓ Messengers of life ✓ Chemicals secreted by glands: usually directly into the blood stream ✓ Control physiological and behavioral activities such as the processes of digestion, metabolism, growth, reproduction, and mood control ✓ Receptors are located on a cell membrane or intracellularly within the cytoplasm of their target cell



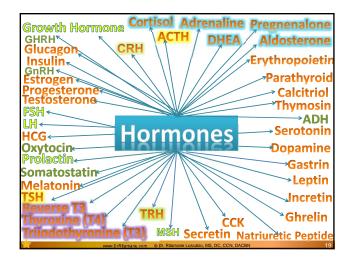


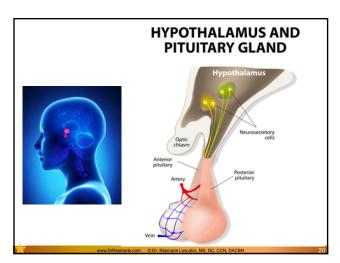


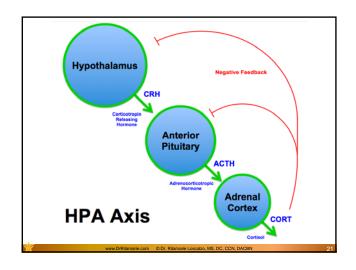


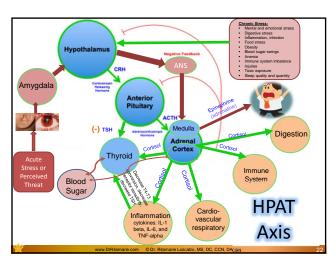


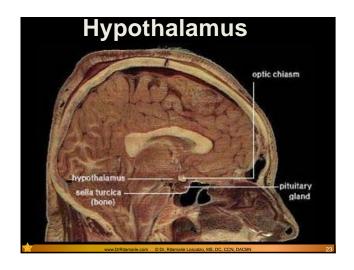


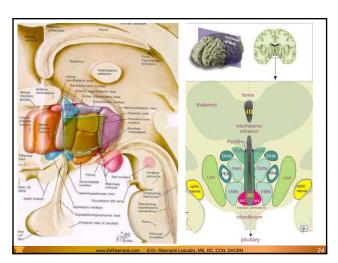


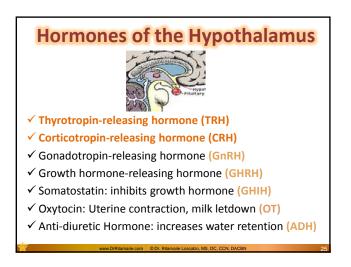


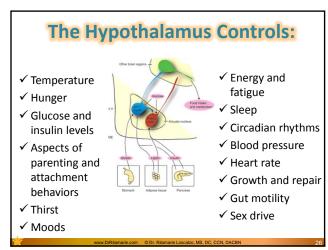


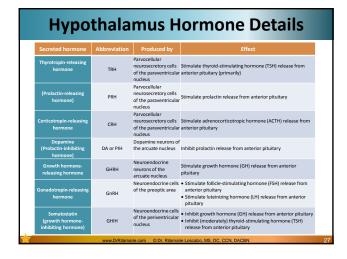


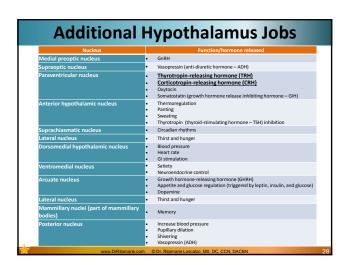


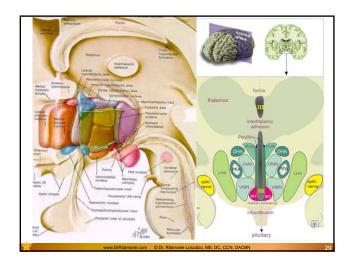


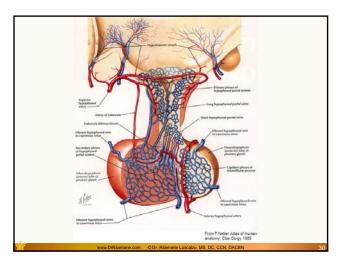


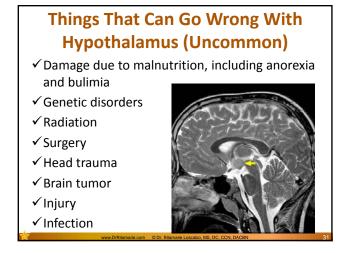


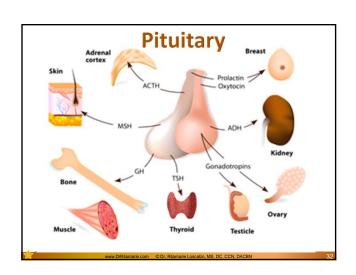


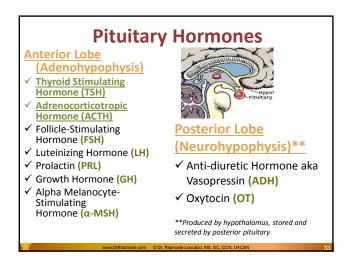


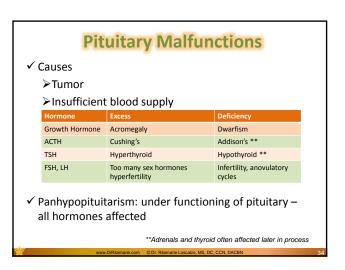


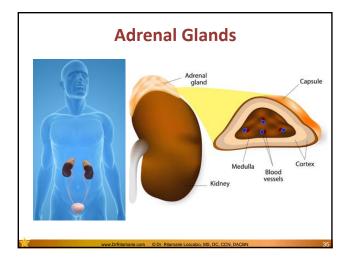


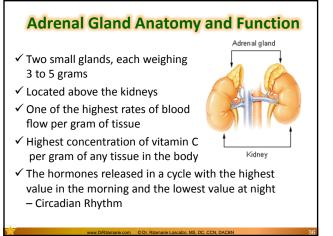






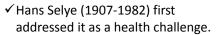


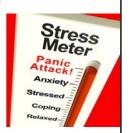




Stress

- ✓ A force that tends to strain or deform.
- ✓ A physical, chemical, or emotional factor that causes bodily or mental tension and may be a factor in disease causation.





Chronic Stress

- ✓ Any stress that the body is subjected to on a regular basis
 - ➤ Physical hidden pain and inflammation, past trauma
 - **≻**Emotional
 - **≻**Environmental
 - ≻Food
- ✓ Compromises critical body systems
- ✓ Compromises ability to maintain health and ward off illness and disease



Amygdala

CRH

ANS

Colleged Sugar Swrugs

Limmune system metalione

Limmune system

Sistem quantity

Cortisol

Cortisol

Cortisol

Cortisol

Cortisol

Cortisol

Cortisol

Cortisol

Adrenal

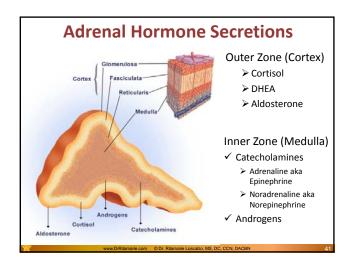
Cortisol

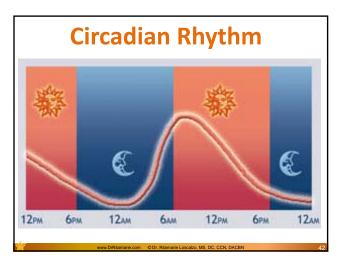
Cor

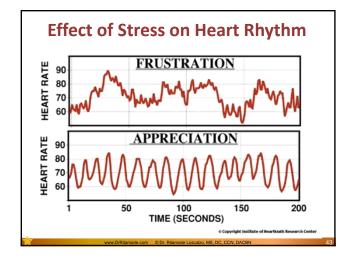
CHRONIC STRESS

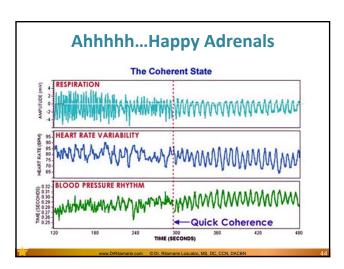
- ✓ Costs trillions of dollars a year
- ✓ Largely ignored by mainstream medicine

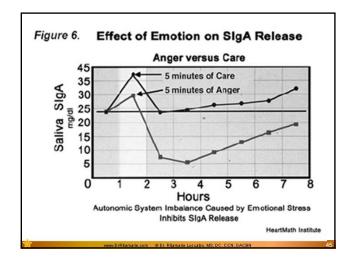
Common Culprit Behind Virtually All Symptoms And Conditions



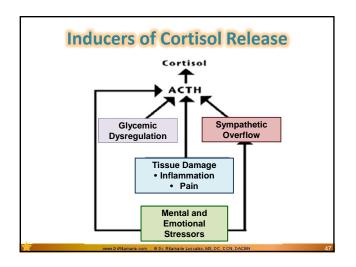


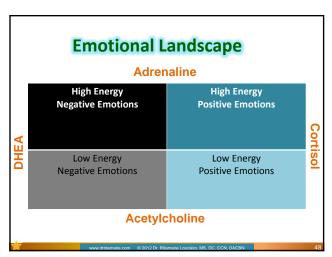


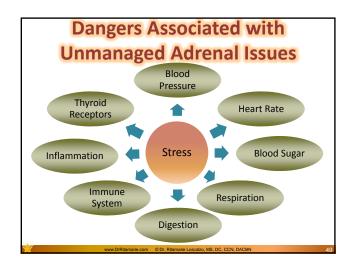


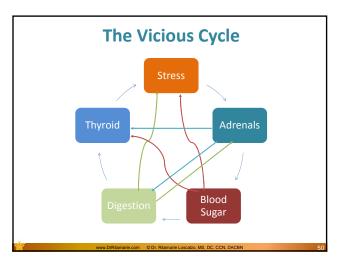




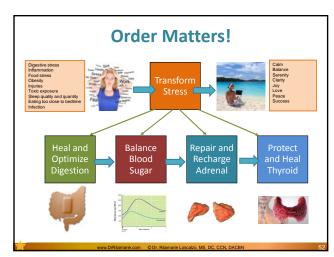


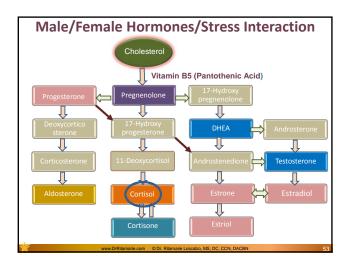


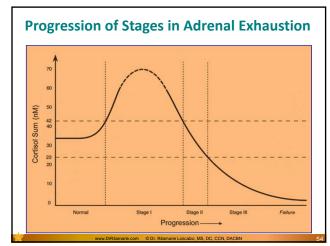












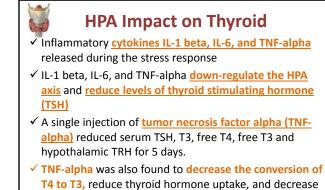




Adrenal Fatigue – Stage 3 Exhaustion

- ✓ Sympathetic Dominant State
 - ➤ DHEA low ➤ Cortisol low
- ✓ Suffering From Negative Effects of Chronic Elevated Cortisol
- ✓ Low Libido
- √ Sex Hormone Imbalances
- ✓ Accelerated Aging
- ✓ Poor Memory

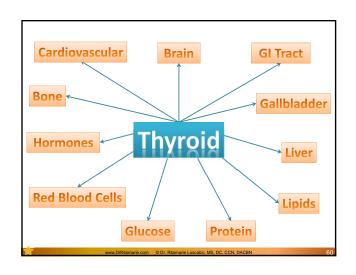


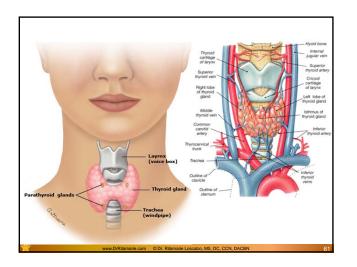


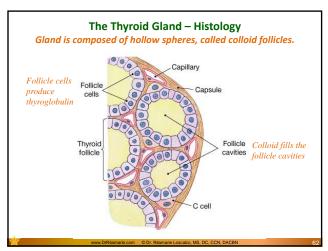
the sensitivity of the thyroid to TSH.

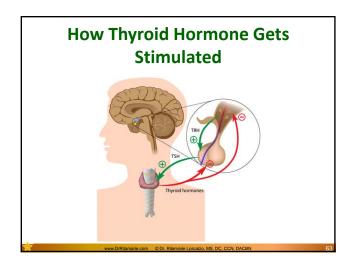
Thyroid. 2007 Oct;17(10):1005-11. Chemokine orchestration of autoimmune thyroiditis. Kimura H¹, Caturegli P. http://www.ncbi.nlm.nih.gov/pubmed/1906893
http://chriskressec.com/S-ways-that-stress-causes-hypothyroid-symptoms
www.Pofitamorie.com/D. D. Rämmire Locacion, MS. Dc. CCN. DAGE.

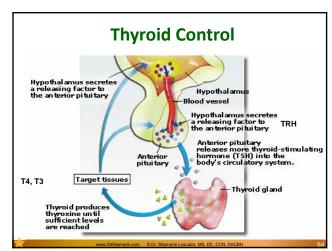
More HPA Impact on Thyroid ✓ Th1 and Th2, IL-6, TNF-alpha, IFN-gamma and IL-1 beta suppress the conversion of T4 to T3. ✓ As IL-6 rises, T3 falls. ✓ Inflammatory cytokines in the healthy resulted in a rapid reduction of serum T3 and TSH levels, increase in reverse T3, and minimal change in T4 ✓ Adrenal stress weakens immune barriers and promotes poor immune system regulation, which can lead to autoimmune thyroiditis ✓ Inflammatory cytokines suppress thyroid receptor site sensitivity. ✓ Prolonged cortisol elevations decrease liver clearance of excess estrogens leading to increased thyroid binding globulin (TBG) **Introd.* 2007 Oct;17(10):1005-11. Chemokine orchestration of autoimmune thyroiditis. Kimura H*, Caturegil P. **Introd.* 2007 Oct;17(10):1005-11. Chemokine orchestration of autoimmune hyroiditis. Kimura H*, Caturegil P. **Introd.* 2007 Oct;17(10):1005-11. Chemokine orchestration of autoimmune hyroiditis. Kimura H*, Caturegil P. **Introd.* 2007 Oct;17(10):1005-11. Chemokine orchestration of autoimmune hyroiditis. Kimura H*, Caturegil P. **Introd.* 2007 Oct;17(10):1005-11. Chemokine orchestration of autoimmune hyroiditis. Kimura H*, Caturegil P. **Introd.* 2007 Oct;17(10):1005-11. Chemokine orchestration of autoimmune hyroiditis. Kimura H*, Caturegil P. **Introd.* 2007 Oct;17(10):1005-11. Chemokine orchestration of autoimmune hyroiditis. Kimura H*, Caturegil P. **Introd.* 2007 Oct;17(10):1005-11. Chemokine orchestration of autoimmune hyroiditis. Kimura H*, Caturegil P. **Introd.* 2007 Oct;17(10):1005-11. Chemokine orchestration of autoimmune hyroiditis. Kimura H*, Caturegil P. **Introd.* 2007 Oct;17(10):1005-11. Chemokine orchestration of autoimmune hyroiditis in this autoimmune hyroiditis in this automatical supplication of automatical supplication of automati

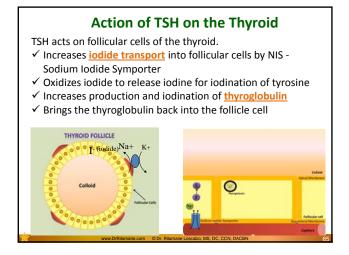


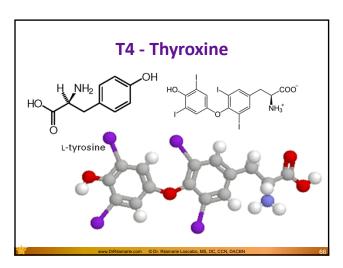


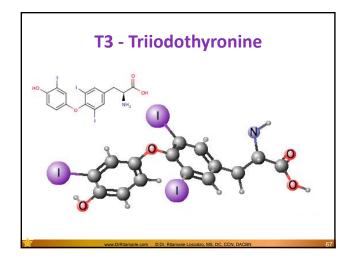


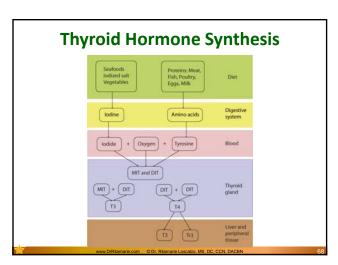


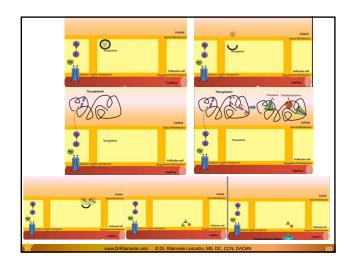


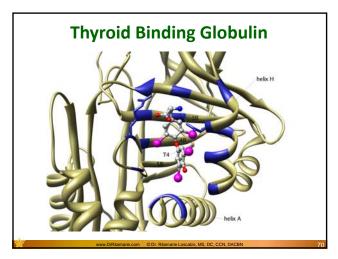


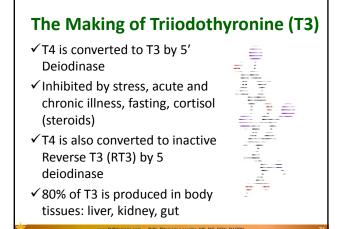


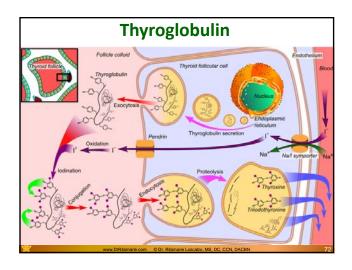


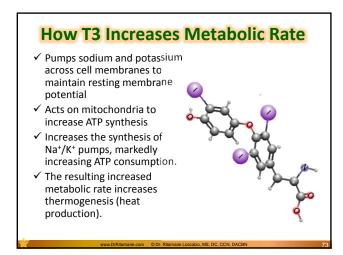


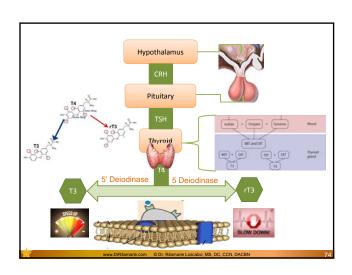


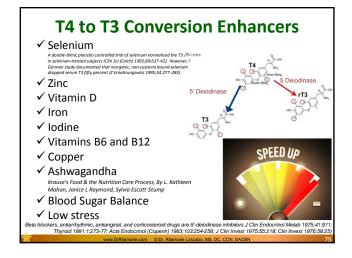


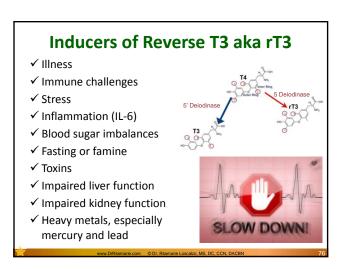


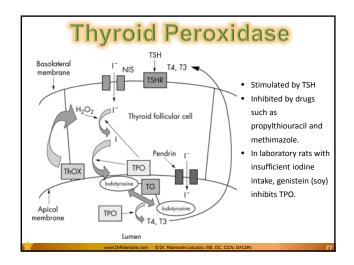


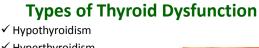












- √ Hyperthyroidism
- ✓ Autoimmune Thyroid Conditions
 - ➤ Graves' Disease
 - ➤ Hashimoto's Thyroiditis
- ✓ Subclinical Thyroid Conditions
 - ➤ Binding Protein Problems
 - **≻**Conversion Problems
 - ➤ Thyroid Receptor Resistance
 - ➤ Wilson's Temperature Syndrome
- ✓ Cancer

The Zen to Wellness – Healing the Adrenals Through the Asian Self-Care Practices of Acupressure, Pranayama, Meditation, Tai Chi / Chi Gong and Tonic Dr. David Weinthal, DOM, LAc