Educating healthcare practitioners on Physiology First as the basis of functional medicine.

Physiology First: Practical Applications Course Outline

Interpreting Basic Lab Tests

- Functional vs. Standard Lab Ranges
- What is meaningful, what is just noise.
- Tests reviewed to include:
- Rationale for 8 Predictive Biomarker tests overview
- Functional vs conventional approach to management of: Hypertension & Hyperlipidemia

Evaluating Metabolic Function

Review of useful tests of metabolic function and the clinical management indicated.

- Thyroid/Parathyroid
- MALE/FEMALE HORMONES
- ADRENAL HORMONE/HYPOTHALAMIC PITUITARY AXIS DYSFUNCTION
- GLUCOSE REGULATION
- Protocols for management of: Hypothyroidism, Hyperthyroidism, Insulin resistance, Sex Hormone Insufficiency/Imbalance, PCOS, Menopause/Perimenopause, Diabetes, Fatigue

Targeted Vitamin Supplementation

Methods of assessing need and plotting a course to repletion. A review of clinical understanding and the use of nutritional supplements.

- VITAMIN A/RETINOL
- VITAMIN B1/THIAMINE
- VITAMIN B2/RIBOFLAVIN
- VITAMIN B3/NIACIN
- VITAMIN B5/PANTOTHENIC ACID
- VITAMIN B6/PYRIDOXINE
- VITAMIN B7/BIOTIN

- B12
- FOLATE
- VITAMIN C
- VITAMIN D
- VITAMIN K
- VITAMIN E

<u>April 7, 2019</u>

May 5, 2019

June 2, 2019



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Targeted Mineral Supplementation

Methods of assessing need and plotting a course to repletion. A review of clinical understanding and the use of nutritional supplements.

- Copper
- Zinc
- Selenium
- Iodine
- Calcium
- Magnesium •
- Manganese

Interpreting Specialty Lab Tests

- **Essential fatty acids** •
- **Oxidative Stress/Lipid Peroxidation/Glutathione** •
- **Autoimmune Markers**
- Allergy •
- **GI** Testing •
- Toxicology/Heavy Metals/Mold Blood & Urine •
- Yeast/fungal markers •
- Infections (Lyme, Epstein-Barr, CMV, HHV 6) •

Genomics

- **Review of most common tests**
- Actionable results vs myths and marketing spin •
- Focus on markers of epigenetic risk factors •

Urine Tests

- 1st morning pH
- Standard urinalysis
- Amino acids vs plasma amino acids: when should urine be ordered and when plasma
- **Inflammatory Markers of Repair Deficit** •

Wrap Up/Review

- Phosphorous
- Carnitine
- Choline
- CoQ10
- Inositol
- Taurine

Aug 4, 2019

Sep 8, 2019

Oct 6, 2019

Nov 3, 2019



July 7, 2019