

# The New Biophysical250™

## Autoimmune Evaluation

Anti-Nuclear Antibody  
Beta 2-Glycoprotein Antibody  
Centromere Prot B Ab  
Double stranded DNA Antibody  
Histone Antibody  
Jo-1 Antibody  
Rheumatoid Factor

Ribosomal P Antibody  
Scleroderma 70 Antibody  
Smith Antibody  
SSA Antibody  
SSB Antibody

## Cancer Evaluation

Alpha Fetoprotein  
Cancer Antigen 15-3  
Cancer Antigen 19-9  
Cancer Antigen 125  
Carcinoembryonic Antigen  
fPSA/tPSA ratio  
Human Chorionic Gonadotropin  
Heparin Binding EGF-Like Growth Factor  
Neuron Specific Enolase  
Prostatic Acid Phosphatase  
Prostate-Specific Antigen, Free  
Prostate-Specific Antigen, Total  
Amphiregulin

Betacellulin  
Epidermal Growth Factor  
Epidermal Growth Factor Receptor  
Epiregulin  
Fibroblast Growth Factor-Basic Form  
Interleukin-6  
Matrix Metalloproteinase 2  
Matrix Metalloproteinase 9  
Placental Growth Factor  
Platelet-Derived Growth Factor BB  
Tenascin C  
Transforming Growth Factor Alpha  
Vascular Endothelial Growth Factor

## Cardiovascular Evaluation

Cholesterol, Total  
High Density Lipoprotein  
Low Density Lipoprotein  
LDL/HDL Ratio  
Cholesterol/HDL ratio  
Triglycerides  
Lipoprotein (a)  
Fatty Acid Binding Protein  
LDL Real  
IDL Cholesterol  
HDL2  
HDL3  
Total VLDL  
VLDL1+2

VLDL3  
Non-HDL Cholesterol  
Remnant Lipoproteins  
LDL Density (Pattern)  
Apolipoprotein A1  
Apo B100  
Apo B100/Apo A1 Ratio  
LDL4  
LDL3  
LDL2  
LDL1  
C Reactive Protein  
Homocysteine  
Plasminogen Activator Inhibitor-1

## Diabetes Evaluation

Adiponectin  
C-Peptide  
C-Reactive Protein  
Glucagon-like Peptide-1 Total  
Glucose  
Hemoglobin A1c  
Insulin  
Glucose/Insulin ratio  
Insulin Antibody  
Pro-insulin/insulin ratio  
Interleukin-6  
Interleukin-8

Leptin  
Pancreatic islet cell Antibody  
Pancreatic polypeptide  
Plasminogen Activator Inhibitor Type I  
Proinsulin, Intact  
Pro-insulin, split  
Proinsulin, Total  
Resistin  
Sex Hormone Binding Globulin  
Tumor Necrosis Factor Alpha  
Tumor Necrosis Factor Receptor 2

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## Endocrine Systems Evaluation

### New Pituitary/Adrenal

Androstenedione  
Cortisol  
Growth Hormone  
Insulin-Like Growth Factor Binding Protein 3  
Insulin-Like Growth Factor-1

### Thyroid

Free Thyroxine  
Free Triiodothyronine  
Thyroglobulin Antibody  
Thyroid Microsomal Antibody  
Thyroid Stimulating Hormone  
Thyroxine Antibody  
Thyroxine Binding Globulin  
Triiodothyronine Antibody

### Parathyroid

Calcitonin  
Calcium  
Parathyroid Hormone  
Phosphorus

### Sex Hormones

Dihydroepiandrosterone sulfate  
Estradiol  
Follicle Stimulating Hormone  
Luteinizing Hormone  
Progesterone  
Prolactin  
Testosterone  
Sex Hormone-Binding Globulin  
Bioavailable Testosterone  
Free Testosterone  
Percent Free Testosterone

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## Hematology Evaluation

White Blood Cell Count  
Red Blood Cell Count  
Hemoglobin  
Hematocrit  
Mean Corpuscular Volume  
Mean Corpuscular Hemoglobin  
Mean Corpuscular Hemoglobin Concentration  
Red Cell Distribution Width  
Neutrophil Number  
Neutrophil Percentage  
Lymphocyte Number  
Lymphocyte Percentage  
Monocyte Number

Monocyte Percentage  
Eosinophil Number  
Eosinophil Percentage  
Basophil Number  
Basophil Percentage  
Platelet Count  
Ferritin  
Iron, serum  
Iron binding capacity, total  
Factor VII  
Iron Binding Capacity, Unsaturated  
Iron, Percent Saturated

## Inflammation Evaluation

C Reactive Protein  
Immunoglobulin A  
Immunoglobulin E  
Immunoglobulin M  
Intercellular Adhesion Molecule 1  
Interleukin 1- Beta  
Interleukin-6  
Interleukin-8

Matrix Metalloproteinase 2  
Matrix Metalloproteinase 3  
Matrix Metalloproteinase 9  
Tissue Factor  
Tumor Necrosis Factor Alpha  
Tumor Necrosis Factor Receptor 2  
Vascular Endothelial Growth Factor

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## Nutritional Evaluation

### Vitamins and Minerals

Folic Acid  
Magnesium  
Vitamin B12  
Vitamin D

### Essential and Metabolic Fatty Acids

Alpha Linolenic Acid (ALA)  
Eicosapentaenoic Acid (EPA)  
Docosahexaenoic Acid (DHA)  
Docosapentaenoic Acid  
Percent Omega 3s  
Linoleic Acid  
Gamma-Linolenic Acid  
Dihomo-Gamma-Linolenic Acid  
Arachidonic Acid  
Docosatetraenoic Acid  
Eicosadienoic Acid  
Percent Omega 6s  
Oleic Acid  
Nervonic Acid  
Percent Omega 9s  
Pentadecanoic Acid  
Palmitic Acid  
Margaric Acid  
Stearic Acid  
Arachidic Acid  
Behenic Acid  
Tricosanoic Acid  
Lignoceric Acid  
Percent Saturated Fatty Acids  
Elaidic Acid  
Palmitoleic Acid  
Vaccenic Acid

Omega 3 EMFA Distribution  
Omega 6 EMFA Distribution  
Omega 9 EMFA Distribution  
Saturated EMFA Distribution  
Trans EMFA Distribution  
Omega 7 EMFA Distribution  
Omega 3 Index

### Eicosanoid Precursors

Arachidonic Acid  
Omega 6s/Omega 3s  
Arachidonic Acid/Eicosapentaenoic Acid  
Arachidonic Acid/Dihomo-Gamma-Linolenic Acid  
1/Dihomo-Gamma-Linolenic Acid  
1/Eicosapentaenoic Acid  
Inflammation Index

### Membrane Fluidity

Saturated/Polysaturated Fats  
Percent Saturated Fats  
Lignoceric Acid + Nervonic Acid  
Percent Omega 7s  
1/Docosahexaenoic Acid

### Desaturase Activity

Linoleic Acid/Dihomo-Gamma-Linolenic Acid  
Eicosadienoic Acid /Dihomo-Gamma-Linolenic Acid  
Dihomo-Gamma-Linolenic Acid/Arachidonic Acid x 100  
Steric Acid/Oleic Acid

### Oxidative Stress

Elaidic Acid  
Elaidic Acid/Oleic Acid

### Insulin Dynamics

Percent Saturated Fats  
Linoleic Acid/(Arachidonic Acid + Dihomo-Gamma-Linolenic Acid)  
1/Docosahexaenoic Acid

## Organ Systems Evaluation

### Gastrointestinal

Gastrin  
Helicobacter pylori IgG Antibody  
Tissue Transglutaminase Antibody  
Vitamin B12

### Kidney

Blood Urea Nitrogen  
Blood Urea Nitrogen/Creatinine Ratio  
Chloride  
Carbon Dioxide, Bicarbonate  
Creatinine  
Potassium  
Sodium  
Estimated Glomerular Filtration Rate

### Liver

ALP (Alkaline Phosphatase)  
ALT (Alanine Aminotransferase)  
AST (Aspartate Aminotransferase, also called SGOT)  
Bilirubin, total  
GGT (Gamma Glutamyl Transferase)  
Hepatitis A IgM Antibody  
Hepatitis B Core IgM Antibody  
Hepatitis B Surface Antigen  
Hepatitis B Surface Antibody  
Hepatitis C Antibody  
Albumin  
Albumin/Globulin Ratio  
Globulin  
Total Protein

### Pancreas

Amylase

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## Musculoskeletal Evaluation

### Gout

Uric Acid

### Tissue Damage

Creatine Kinase, Total  
Creatine Kinase-MB  
Lactate Dehydrogenase

### Bone

Vitamin D  
Calcium

### Pancreas

Amylase

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## Fatigue Evaluation

Ferritin  
Hemoglobin  
Thyroid Stimulating Hormone  
Free T3  
Free T4

Testosterone  
Cortisol  
Epstein-Barr Virus EA IgM Antibody  
Epstein-Barr Virus VCA IgM Antibody