

BiophysicalCA/ CV™

BiophysicalCA/ CV includes the following cancer-associated biomarkers

CA 125	CEA	PSA, Total	MMP2
CA 15-3	AFP	beta-hCG	MMP9
CA 19-9	NSE	VEGF	IL-6

BiophysicalCA/ CV includes the following cardiovascular-associated biomarkers

Sum Total Cholesterol	Total Non-HDL (LDL + VLDL)	LDL Real Cholesterol	HDL-3
Total LDL - Direct	Total ApoB100 calc	Real LDL-C Size pattern	VLDL-3
Total HDL - Direct	Sum Total LDL-C	Remnant Lipoproteins (IDL + VLDL3)	CRP
Total VLDL - Direct	Lipoprotein (a)	HDL-2	Glucose
Triglycerides - Direct	IDL Cholesterol		

Biophysical **SEX&ENERGY**TM

BiophysicalSex&Energy includes the following biomarkers:

DIABETES

Glucose
Hemoglobin A1c (Hgb A1c)
Insulin
C-peptide

WEIGHT-RELATED

Pancreatic Polypeptide (PP)
Glucagon-Like Polypeptide 1 (GLP-1)
Leptin
Resistin

THYROID

Thyroid Stimulating Hormone (TSH)
Free Thyroxine (Free T4)
Free Triiodothyronine (Free T3)

HEMATOLOGY

Complete Blood Count (CBC)
Ferritin

HORMONES

Estradiol
Progesterone
DHEA-S
Prolactin
Follicle Stimulating Hormone (FSH)
Luteinizing Hormone (LH)
Sex Hormone Binding Globulin (SHBG)
Testosterone, Total
Testosterone, Bioavailable
Cortisol

ORGAN – LIVER, KIDNEY, GASTROINTESTINAL

Gastrin
Vitamin B12
Vitamin D 25 OH
Comprehensive Metabolic Panel (CMP)
Blood Urea Nitrogen (BUN)
Creatinine
BUN/Creatinine
Sodium
Potassium
Chloride
Carbon Dioxide
Calcium
Protein, Total
Albumin
Globulin, Calculated
Albumin/Globulin ratio
Bilirubin
Alkaline Phosphatase (ALP)
Aspartate Aminotransferase (AST)
Alanine Aminotransferase (ALT)

Biophysicalcheck™

BiophysicalCheck includes the following biomarkers:

CANCER ASSOCIATED

Cancer Antigen 125 (CA-125)
Cancer Antigen 15-3 (CA-15-3)
Cancer Antigen 19-9 (CA-19-9)
Carinoembryonic Antigen (CEA)
Alpha Fetoprotein (AFP)
Neuron Specific Enolase (NSE)
Prostate Specific Antigen, Total (PSA, Total)
Human Chorionic Gonadotropin (Beta-HCG)
Vascular Endothelial Growth Factor (VEGF)
Matrix Metalloproteinase 2 (MMP-2)
Matrix Metalloproteinase 9 (MMP-9)
Interleukin 6 (IL-6)

CARDIOVASCULAR/STROKE

Sum Total Cholesterol
Total LDL - Direct
Total HDL - Direct
Total VLDL - Direct
Triglycerides - Direct
Total Non-HDL (LDL + VLDL)
Total Apoplipoprotein B100, Calculated
Sum Total LDL-C
Lipoprotein (a) (Lp(a))
IDL Cholesterol
LDL Real Cholesterol
Real LDL-C Size pattern
Remnant Lipoproteins (IDL + VLDL3)
HDL-2
HDL-3
VLDL-3
C-Reactive Protein, High Sensitivity (hs-CRP)

DIABETES

Glucose
Hemoglobin A1C (Hgb A1c)
Insulin
C-peptide

WEIGHT-RELATED

Pancreatic Polypeptide (PP)
Glucagon-Like Polypeptide 1 (GLP-1)
Leptin
Resistin

THYROID

Thyroid Stimulating Hormone (TSH)
Free Thyroxine (Free T4)
Free Triiodothyronine (Free T3)

HEMATOLOGY

Complete Blood Count (CBC)
Ferritin

HORMONES

Estradiol
Progesterone
DHEA-S
Prolactin
Follicle Stimulating Hormone (FSH)
Luteinizing Hormone (LH)
Sex Hormone Binding Globulin (SHBG)
Testosterone, Total
Testosterone, Bioavailable
Cortisol

ORGAN – LIVER, KIDNEY, GASTROINTESTINAL

Gastrin
Vitamin B12
Vitamin D 25 OH
Comprehensive Metabolic Panel (CMP)
Blood Urea Nitrogen (BUN)
Creatinine
BUN/Creatinine
Sodium
Potassium
Chloride
Carbon Dioxide
Calcium
Protein, Total
Albumin
Globulin, Calculated
Albumin/Globulin ratio
Bilirubin
Alkaline Phosphatase (ALP)
Aspartate Aminotransferase (AST)
Alanine Aminotransferase (ALT)

Biophysicalcore™

BiophysicalCore includes the following biomarkers:

CANCER ASSOCIATED

Cancer Antigen 125 (CA-125)
Cancer Antigen 15-3 (CA-15-3)
Cancer Antigen 19-9 (CA-19-9)
Carcinoembryonic Antigen (CEA)
Alpha Fetoprotein (AFP)
Neuron Specific Enolase (NSE)
Prostate Specific Antigen, Total (PSA, Total)
Human Chorionic Gonadotropin (Beta-HCG)
Vascular Endothelial Growth Factor (VEGF)
Matrix Metalloproteinase 2 (MMP-2)
Matrix Metalloproteinase 9 (MMP-9)
Interleukin 6 (IL-6)

CARDIOVASCULAR/STROKE

Sum Total Cholesterol
Total LDL - Direct
Total HDL - Direct
Total VLDL - Direct
Triglycerides - Direct
Total Non-HDL (LDL + VLDL)
Total Apolipoprotein B100, Calculated
Sum Total LDL-C
Lipoprotein (a) (Lp(a))
IDL Cholesterol
LDL Real Cholesterol
Real LDL-C Size pattern
Remnant Lipoproteins (IDL + VLDL3)
HDL-2
HDL-3
VLDL-3
C-Reactive Protein, High Sensitivity (hs-CRP)
Homocysteine

DIABETES

Glucose
Hemoglobin A1C (Hgb A1c)
Insulin
C-peptide
Insulin Antibody
Pancreatic Islet Cell Antibody

METABOLIC SYNDROME

Triglycerides - Direct
Glucose
Total HDL - Direct

WEIGHT-RELATED

Pancreatic Polypeptide (PP)
Glucagon-Like Polypeptide 1 (GLP-1)
Leptin
Resistin

THYROID

Thyroid Stimulating Hormone (TSH)
Free Thyroxine (Free T4)
Free Triiodothyronine (Free T3)
Thyroglobulin Antibody
Thyroid Microsomal Antibody

HEMATOLOGY

Complete Blood Count (CBC)
Ferritin

HORMONES

Estradiol
Progesterone
DHEA-S
Prolactin
Follicle Stimulating Hormone (FSH)
Luteinizing Hormone (LH)
Sex Hormone Binding Globulin (SHBG)
Testosterone, Total
Testosterone, Bioavailable
Cortisol

IMMUNE

Immunoglobulin E

ORGAN – LIVER, KIDNEY, GASTROINTESTINAL

Gastrin
Vitamin B12
Vitamin D 25 OH
tTG Antibody
Helicobacter Pylori Antibody (H. pylori Ab)
Comprehensive Metabolic Panel (CMP)
Blood Urea Nitrogen (BUN)
Creatinine
BUN/Creatinine
Sodium
Potassium
Chloride
Carbon Dioxide
Calcium
Protein, Total
Albumin
Globulin, Calculated
Albumin/Globulin ratio
Bilirubin
Alkaline Phosphatase (ALP)
Aspartate Aminotransferase (AST)
Alanine Aminotransferase (ALT)

AUTOIMMUNE

Beta-2-Glycoprotein Antibody
Double Stranded DNA (dsDNA)
Scleroderma 70 Antibody (Scl 70 Ab)
Smith Antibody
SSA Antibody
SSB Antibody
Rheumatoid Factor Antibody

Biophysical250™

Biomarkers

AUTOIMMUNE EVALUATION

Anti-Nuclear Antibody
CRP (C Reactive Protein)
ds DNA Antibody (Double stranded DNA Antibody)
Ferritin
Haptoglobin
RF (Rheumatoid Factor)
Beta 2-glycoprotein Antibody
Centromere protein B Antibody
Collagen type 6 Antibody
Complement Factor C1q Antibody
Histone Antibody
Histone H1 Antibody
Histone H2A Antibody
Histone H2B Antibody
Histone H3 Antibody
Histone H4 Antibody
Jo-1 Antibody
Myeloperoxidase Antibody
PCNA Antibody (Proliferating Cell Nuclear Antigen Antibody)
Pm1 Antibody (Polymyositis Antibody)
PR3 Antibody (Proteinase 3 Antibody)
RNP Antibody (Ribosomal Nuclear Protein Antibody)
RNP A Antibody (Ribosomal Nuclear Protein A Antibody)
RNP C Antibody (Ribosomal Nuclear Protein C Antibody)
Ribosomal P Antibody
Scl-70 Antibody (Scleroderma 70 Antibody)
Smith Antibody
SSA Antibody
SSB Antibody

CANCER EVALUATION

Basophil Count
Basophil Percentage
Beta-2-Microglobulin
CA 125 (Cancer Antigen 125)
Carcinoembryonic Antigen
Eosinophil Count
Eosinophil Percentage
EPO (Erythropoietin)
FSH (Follicle Stimulating Hormone)
Globulin (Calculated)
Growth Hormone
Haptoglobin
Helicobacter pylori Antibody
Hematocrit
Hemoglobin
Hepatitis C Antibody
hCG (Human Chorionic Gonadotropin)
IgA (Immunoglobulin A)
IgM (Immunoglobulin M)
Insulin
LDH (Lactic Dehydrogenase)
LH (Luteinizing Hormone)
Lymphocyte Count
Lymphocyte Percentage
Monocyte Count
Monocyte Percentage
Neutrophil Count
Neutrophil Percentage
Platelets
Prolactin
PSA, free (Prostate-Specific Antigen, free)
PSA, total (Prostate-Specific Antigen, total)
Testosterone
Total Protein
WBC (White Blood Cell Count)
AFP (Alpha Fetoprotein)
Calcitonin
BR-MA (CA 15-3, Cancer Antigen 15-3)
CA 19-9 (Cancer Antigen 19-9)
Gastrin
Human Papilloma Virus Antibody
Prostatic Acid Phosphatase

CARDIOVASCULAR EVALUATION

CRP (C Reactive Protein)
Cholesterol, Total
CKMB (Creatine Kinase MB)
CK Total (Creatine Kinase, Total)
Ferritin
Haptoglobin
HDL (High Density Lipoprotein)
Homocysteine
LDL (Low Density Lipoprotein)
LDL/HDL Ratio
Triglycerides
vWF (von Willebrand Factor)
APO A1 (Apolipoprotein A1)

CARDIOVASCULAR EVALUATION CONTINUED

B-type Natriuretic Peptide
Endothelin 1
Lipoprotein (a)
Myeloperoxidase Antibody
Myoglobin
Plasminogen Activator Inhibitor

PCNA Antibody (Proliferating Cell Nuclear Antigen Antibody)
PR3 Antibody (Proteinase 3 Antibody)
APO CIII (Apolipoprotein CIII)
APO H (Apolipoprotein H)
Fatty Acid Binding Protein

CELL SIGNALING EVALUATION

BDNF (Brain-Derived Neurotrophic Factor)
Eotaxin
EGF (Epidermal Growth Factor)
FGF basic (Fibroblast Growth Factor-basic form)
GM-CSF (Granulocyte Macrophage Colony Stimulating Factor)
IGF Binding partner 3 (Insulin-Like Growth Factor Binding Partner 3)
IGF-1 (Insulin-Like Growth Factor 1)
ICAM-1 (Intercellular Adhesion Molecule 1)
IL-1 alpha (Interleukin 1 alpha)
IL-1 beta (Interleukin 1 beta)
IL-2 (Interleukin 2)
IL-3 (Interleukin 3)
IL-4 (Interleukin 4)
IL-5 (Interleukin 5)
IL-6 (Interleukin 6)
IL-7 (Interleukin 7)
IL-8 (Interleukin 8)
IL-10 (Interleukin 10)
IL-12p40 (Interleukin 12p40)
IL-12p70 (Interleukin 12p70)
IL-13 (Interleukin 13)

IL-15 (Interleukin 15)
IL-16 (Interleukin 16)
IL-18 (Interleukin 18)
Lymphotactin
MDC (Macrophage-Derived Chemokine)
MIP 1 alpha (Macrophage Inflammatory Protein 1 alpha)
MIP 1 beta (Macrophage Inflammatory Protein 1 beta)
MMP-2 (Matrix Metalloproteinase 2)
MMP-3 (Matrix Metalloproteinase 3)
MMP-9 (Matrix Metalloproteinase 9)
MCP-1 (Monocyte Chemotactic Protein 1)
RANTES (Regulated Upon Activation, Normal T-cell Expressed and Secreted)
SCF (Stem Cell Factor)
TIMP-1 (Tissue Inhibitor of Metalloproteinase 1)
TNF-alpha (Tumor Necrosis Factor alpha)
TNF-beta (Tumor Necrosis Factor beta)
TNF RII (TNF Receptor II)
VCAM 1 (Vascular Cell Adhesion Molecule 1)
VEGF (Vascular Endothelium Growth Factor)

DIABETES EVALUATION

Glucose
Insulin
Insulin Antibody
C-peptide
Hemoglobin A1c

Leptin
Pancreatic islet cell Antibody
Adiponectin
Insulin-like Growth Factor binding partner 3
IGF-1 (Insulin-like Growth Factor 1)

ENDOCRINE SYSTEMS EVALUATION

Pituitary/Adrenal

Cortisol
FSH (Follicle Stimulating Hormone)
Growth Hormone
LH (Luteinizing Hormone)
Prolactin
TSH (Thyroid Stimulating Hormone)

Thyroid/Parathyroid

Calcium
PTH (Parathyroid Hormone)
Phosphorus
Thyroglobulin Antibody
Thyroid Microsomal Antibody
TSH (Thyroid Stimulating Hormone)
T4 (Thyroxine)
TBG (Thyroxine Binding Globulin)
T3 (Triiodothyronine)

Calcitonin
Thyroglobulin Antigen
T4 Antibody (Thyroxine Antibody)
T3 Antibody (Triiodothyronine Antibody)
Sex hormones
DHEA sulfate (Dihydroepiandrosterone sulfate)
Estradiol
FSH (Follicle Stimulating Hormone)
LH (Luteinizing Hormone)
Progesterone
Prolactin
Testosterone
Androstenedione
Estriol
SHBG (Sex Hormone-Binding Globulin)

HEMATOLOGY EVALUATION

Bilirubin, total
Eosinophil Count
Eosinophil Percentage
EPO (Erythropoietin)
Ferritin
Fibrinogen
Hematocrit
Hemoglobin
Iron Binding Capacity, Total
Iron, serum
LDH (Lactic Dehydrogenase)
Lymphocyte Count
Lymphocyte Percentage
MCH (Mean Corpuscular Hemoglobin)
MCHC (Mean Corpuscular Hemoglobin Concentration)
MCV (Mean Corpuscular Volume)

Monocyte Count
Monocyte Percentage
Neutrophil Count
Neutrophil Percentage
Platelet Count
RBC Count (Red Blood Cell Count)
RDW (Red Cell Distribution Width)
Vitamin B12
WBC Count (White Blood Cell Count)
Basophil Count
Basophil Percentage
Factor VII
Haptoglobin
TPO (Thrombopoietin)
Tissue Factor
vWF (von Willebrand Factor)

IMMUNE SYSTEMS/ INFLAMMATION

AST Antigen (Aspartate Aminotransferase Antigen, also called SGOT)
CRP (C Reactive Protein)
Haptoglobin
IgA (Immunoglobulin A)
IgE (Immunoglobulin E)
IgM (Immunoglobulin M)
vWF (von Willebrand Factor)
Factor VII
Alpha 2 Macroglobulin
Complement 3

ENA 78 (Epithelial Neutrophil Activating Peptide 78)
Heat Shock Cognate Protein 70 Antibody
HSP 32 Antibody (Heat Shock Protein 32 Ab)
HSP 65 Antibody (Heat Shock Protein 65 Ab)
HSP 71 Antibody (Heat Shock Protein 71 Ab)
HSP 90 alpha Antibody (Heat Shock Protein 90 alpha Ab)
HSP 90 beta Antibody (Heat Shock Protein 90 beta Ab)
SAP (Serum Amyloid P)

INFECTIOUS DISEASE EVALUATION

Bacterial/Parasitic Exposure

Helicobacter pylori Antibody
Mycoplasma pneumoniae Antibody
Streptolysin O Antibody
Bordetella pertussis Antibody
Campylobacter jejuni Antibody
Chlamydia pneumoniae Antibody
Chlamydia trachomatis Antibody
Diphtheria Toxin Antibody
Leishmania donovani Antibody
Lyme Disease Antibody
Mycobacteria tuberculosis Antibody
Tetanus Antibody
Toxoplasma Antibody
Trypanosoma cruzi Antibody

Viral Exposure

Cytomegalovirus Antibody
Epstein-Barr Virus EA Antibody
Hepatitis A Antibody
Hepatitis B Core Antibody
Hepatitis B Core e Antibody
Hepatitis B Surface Antibody
Hepatitis B Surface Antigen

Hepatitis C Antibody
Influenza A H3N2 Antibody
Rubella Antibody
Rubeola Antibody
Varicella zoster IgG Antibody
Varicella zoster IgM Antibody
Adenovirus Antibody
Herpes Simplex Virus type 1 group D Antibody
Herpes Simplex Virus type 2 group G Antibody
Herpes Simplex Virus type 1 and 2 Antibodies
Human Papilloma Virus Antibody
HTLV-1/2 Antibody (Human T-cell Lymphotropic Virus type 1 and 2 Antibody)
Influenza type A Antibody
Influenza type B Antibody
Mumps Antibody
Parainfluenza type 1 Antibody
Parainfluenza type 2 Antibody
Parainfluenza type 3 Antibody
Polio Antibody
RSV Antibody (Respiratory Syncytial Virus)
Epstein-Barr Virus NA Antibody
Epstein-Barr Virus VCA Antibody

NUTRITIONAL EVALUATION

Albumin	Iron Binding Capacity, Unsaturated
Albumin/Globulin Ratio	Iron, Percent Saturated
Amylase	Iron, serum
Calcium	Magnesium
Carbon Dioxide	MCH (Mean Corpuscular Hemoglobin)
Chloride	MCHC (Mean Corpuscular Hemoglobin Concentration)
Cholesterol, Total	Phosphorus
Ferritin	Potassium
Folic acid	Sodium
Globulin	Total Protein
Glucose	Triglycerides
Hematocrit	Uric acid
Hemoglobin	Vitamin B12
Iron Binding Capacity, Total	

ORGAN SYSTEMS EVALUATION

Gastrointestinal

Helicobacter pylori Antibody	AST (Aspartate Aminotransferase, also called SGOT)
Campylobacter jejuni Antibody	Bilirubin, total
ASCA (anti-Saccharomyces cerevisiae antibodies)	Ferritin
Gastrin	Fibrinogen
tTG Antibody (tissue Transglutaminase Antibody)	GGT (Gamma Glutamyl Transferase)
Kidney	Haptoglobin
BUN (Blood Urea Nitrogen)	Hepatitis A Antibody
BUN/Creatinine Ratio	Hepatitis B Core Antibody
C02 (Carbon Dioxide)	Hepatitis B e Antibody
Chloride	Hepatitis B Surface Antibody
Creatinine	Hepatitis B Surface Antigen
Potassium	Hepatitis C Antibody
Sodium	TIBC (Iron binding capacity, total)
Uric acid	LDH (Lactic Dehydrogenase)
Beta 2-Microglobulin	Alpha-1 Antitrypsin
Liver	Cytochrome p450 Antibody
ALT (Alanine Aminotransferase)	GST (Glutathione S-Transferase)
ALP (Alkaline Phosphatase)	Mitochondrial Antibody

OSTEOARTHRITIS EVALUATION

CRP (C Reactive Protein)	Anti-Nuclear Antibody
Ferritin	Collagen type 1 Antibody
Haptoglobin	Collagen type 2 Antibody
RF (Rheumatoid Factor)	Collagen type 4 Antibody
vWF (von Willebrand Factor)	Collagen type 6 Antibody