

Lipids and Lipoproteins

Cholesterol, Total, Esterified, and Free	Friedewald
Chylomicron (Triglyceride, Apo B-48, Cholesterol)	LDL Subclasses by GGE
Free Fatty Acids (FFA or NEFA)	Lipid Profile with β -Quantification
HDL-C Subclasses by Pptn.	Lp (a) (Lipoprotein (a))
HDL Subclasses by GGE	Phospholipids, Total
HDL-C	Remnant lipoprotein-Cholesterol (RLP-C)
Chemical Pptn., Heparin Manganese	Remnant lipoprotein-Triglycerides (RLP-TG)
Chemical Pptn., Dextran Sulfate	sdLDL
Chemical Pptn., Polyethylene glycol	sdLDL-ApoB
Direct Homogeneous Method	Triglycerides
HDL Particle Assay, LPAI & LPAI:All	Total (without Glycerol Correction)
LDL-C	Net (Free Glycerol Blank Correction)
β -Quantification	In HDL, LDL, VLDL, or Chylomicron Fractions
Direct Homogeneous Method	

Lipoprotein Metabolism

Apolipoprotein A-I	CETP Mass (Cholesteryl Ester Transfer Protein)
Apolipoprotein A-II	Glycerol, Free
Apolipoprotein B-48	LCAT Activity (Lecithin-Cholesterol Acyltransferase)
Apolipoprotein B-100	LCAT Mass (Lecithin-Cholesterol Acyltransferase)*
Apolipoprotein B-total	LpB:CIII
Apolipoprotein C-II	LpPLA ₂ (Lipoprotein-associated Phospholipase A ₂)
Apolipoprotein C-III	OxLDL (Oxidized Low density Lipoprotein)
Apolipoprotein E	Pre β -HDL
Apolipoprotein E-Isoforms*	Retinyl Palmitate for Lipid Absorption Studies
Carnitine, Total, Free	sPLA ₂ (Secretory Phospholipase A ₂)
CETP Activity (Cholesterol Ester Transfer Protein)	

Inflammation and Immunity

B-cell Activating Factor (BAFF)	IL-17 (Interleukin-17)
(CCL-18) PARC	IL-18 (Interleukin-18)
CK-18	IP-10 (CXCL10)
CK-18 Fragments	MCP-1 (Monocyte Chemotactic Protein 1)
Complement Factor C3c	MIP-3 γ (CCL19)
Complement Factor C4	MMP (Matrix metalloproteinase)
Complement Factor D	MMP-1, MMP-2, MMP-3, MMP-9, MMP-7
Complement Membrane Attack Complex (SC5b-9)	MPO (Myeloperoxidase)
hs-CRP	Neopterin
E-Selectin	P-Selectin
Fas	PAI-1 (Plasminogen Activator Inhibitor 1)
Fibrinogen	PON 1 (Paraoxonase)
Haptoglobin	SAA (Serum Amyloid A)
IFN- γ (Interferon γ)	siCAM-1 (Intra-cellular Adhesion Molecule-1, soluble)
IL-1 ra (Interleukin-1 receptor antagonist)	Soluble Glycoprotein 130 (sgp130)
IL-2 α (Interleukin-2 soluble receptor alpha)	sVCAM-1 (Vascular Adhesion Molecule-1, soluble)
IL-1 β (Interleukin-1 β)	TGF- β 1 (Transforming Growth Factor- β 1)
IL-6 (Interleukin-6)	TNF- α (Tissue Necrosis Factor- α)
IL-10 (Interleukin-10)	TIMP-1 (Tissue Inhibitor of Metalloproteinases 1)

Endocrine

ACTH (Adrenal Corticotrophic Hormone)	LH (Luteinizing Hormone)
DHEA-S (Dehydroepiandrosterone Sulfate)	iPTH (Parathyroid Hormone, intact)
EPO (Erythropoietin)	wPTH (Parathyroid Hormone, whole)
Estradiol	Progesterone
FSH (Follicle Stimulating Hormone)	Prolactin
Human Growth Hormone	SHBG (Sex Hormone Binding Globulin)
IGF-1 (Insulin-like Growth Factor-1)	Testosterone, Total
IGFBP-3 (Insulin-like Growth Factor Binding Protein-3)	

HDL Functionality

HDL-SAA (HDL-Serum Amyloid A)
LCAT Activity & Mass (Lecithin-Cholesterol Acyltransferase)
Oxygen Radical Absorbance Capacity (ORAC)*
PON-1 (Paraoxonase)
sPLA₂ (Secretory Phospholipase A₂)
CETP Activity & Mass
LpPLA₂

Coagulation

D-Dimer (sensitive)
Fibrinogen
PAP (Plasmin α 2-antiplasmin complex)

Kidney Injury

B-2 Microglobulin
Creatinine
Cystatin C
KIM-1 (Kidney Injury Molecule-1)
NAG (N-acetyl- β -D-glucosaminidase)
NGAL (Neutrophil Gelatinase-associated Lipocalin)
Microalbumin (Urine albumin)
Clusterin
RBP-4 (Retinol Binding Protein 4)
Type IV Collagen
Osteocalcin*
 α GST (alpha-Glutathione S-Transferase)

Pulmonary Disease Outcomes

Krebs von den Lungen-6 (KL-6)
Pulmonary and Activation-regulated Cytokine (PARC, CCL-18)
Surfactant Protein A
Surfactant Protein D
Tenascin C

Oxidative Stress

Thioredoxin
OxLDL (Oxidized Low density Lipoprotein)

CVD Disease Outcomes

NT-proBNP
Troponin T

Metabolic Syndrome, Diabetes & Obesity

Adiponectin	Glycated Albumin
Complement Factor D	HbA1c (Hemoglobin A1c)
C-Peptide (C-Peptide of Insulin)	Insulin
CTGF (Connective Growth Factor)	Leptin
GIP (Gastric Inhibitory Polypeptide)	Bile Acid Profile
Ghrelin, Active & Total	Chenodeoxycholic Acid (CDCA)
GLP-1 (Glucagon-like peptide 1, Active & Total)	Cholic Acid (CA)
Glucagon	Deoxycholic Acid (DCA)
Oxyntomodulin	Glycochenodeoxycholic Acid (GCDCA)
Proinsulin	Glycocholic Acid (GCA)
PYY total (Peptide YY)	Glycodeoxycholic Acid (GDCA)
PYY (3-36)	Taurochenodeoxycholic Acid (TCDCA)*
Glucemic Status	Taurocholic Acid (TCA)
1,5 Anhydroglucitol (Glycomark™)	Taurodeoxycholic Acid (TDCA)*
Fructosamine	Taurolithocholic Acid (TDCA)
Glucose	Ursodeoxycholic Acid (UDCA)

Bone Resorption

CTX (C-Terminal Telopeptides Type I Collagen)	PYD (Pyridinoline, Free and Total)
DKK-1	RANK-L (Receptor Activator for Nuclear Factor B Ligand)
DPD (Deoxypyridinoline, Free and Total)	TRACP-5b (Tartrate Resistant Acid Phosphatase-5b)
ICTP (C-Terminal Telopeptides Type I Collagen, CTX-MMP)	
NTX (N-Telopeptides Type I Collagen, serum & urine)	

Bone Formation

BAP (Bone Alkaline Phosphatase)	PINP (Aminoterminal Propeptide of Type 1 Collagen)
Calcium	iPTH (Parathyroid Hormone, intact)
CICP (C-Propeptide of Type I Procollagen)	wPTH (Parathyroid Hormone, whole)
Osteocalcin	Vitamin D-1,25-Dihydroxy (D2+D3)
Osteoprotegerin	Vitamin D-25 Hydroxy (D2+D3)
Osteopontin	

Cartilage & Arthritis

Anti-CCP (Anti-Cyclic Citrullinated Peptide)	Hyaluronan
C1-2C*	ICTP (C-terminal Telopeptides Type I Collagen)
C2C (Collagen Type II Cleavage)*	PIIINP (Procollagen Type III N-Propeptide)
COMP (Cartilage Oligomeric Matrix Protein)	RF-IgA, IgG, IgM (Rheumatoid Factor Isotypes)
CS-846 (Aggrecan)*	YKL-40 (Human Cartilage Glycoprotein 39)*
CTX-II (C-terminal Telopeptides Type II Collagen, urine)	

* under development/enhancement

Nutrition and Nutrition Outcomes

3-Methylhistidine
ADMA (Asymmetric Dimethyl Arginine)
Albumin
Calcium
Carotenoids*
β-Carotene
Lycopene
Lutein/Zeaxanthin
β-Cryptoxanthin
Ubiquinone (Coenzyme Q10)
Cysteine and n-acetyl cysteine
Ferritin
Folate
Homocysteine, Total
Phosphorus
Transthyretin (prealbumin)
Vitamins
A (Retinol, Retinyl Ester, Beta-Carotene & Lycopene)
B6*
B12 (Cobalamin)
C (Ascorbic Acid)
D-1,25-Dihydroxy (D2+D3)
D-25 Hydroxy (D2+D3)
E (α-Tocopherol, γ-Tocopherol, LDL α-Tocopherol, LDL γ-Tocopherol)
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