FMLogics© Functional Medicine Triphasic Blood Chemistry Analysis Software

This blood chemistry software program will analyze suspected diseases and dysfunction as well as patterns of disease. After entering blood laboratory results, the password protected end report generated to you is complete within seconds and provides a comprehensive triphasic blood chemistry analysis that is crucial to the functional medicine practitioner who seeks a higher standard of care.

An easy to read color code system can be downloaded or printed and is designed to make your time more efficient. All analytes entered are placed on a table indicating the critical, conventional, and optimal ranges, and current and prior lab tests can be viewed side by side in order to quickly assess your patient’s progress. A long term comparison lab test result table is also provided and allows you to view multiple lab test results simultaneously.

The FMLogics© software program assesses then provides the following blood chemistry patterns of suspected dysfunction:

- Adrenal Hyperfunction
- Adrenal Hypofunction
- Anemia – hemolytic, iron deficiency, chronic illness, B12/folate
- Anterior pituitary (secondary hypothyroidism), (checks central hypothyroidism)
- Arthralgia
- Asthma
- Atherosclerosis
- Autoimmune (destructive process)
- B6 deficiency
- Biliary dysfunction
- Biliary obstruction/calculi
- Biliary stasis/insufficiency
- Benign Prostatic Hypertrophy
- Cardiovascular disease
- Childhood diseases
- Copper deficiency
- Deficient red blood cell production
- Dehydration
- Diabetes/hyperglycemia
• Diet—fat deficient, high refined carbohydrates, low protein
• Digestive dysfunction/inflammation
• Edema
• Emphysema
• Excess consumption of iron
• Fatty liver (steatosis)
• Fatty liver – early stage
• Gilbert’s syndrome
• Gout
• Heavy metal burden
• Heavy metal burden/chemical toxicity
• Hemochromatosis
• Hyperinsulinemia
• Hyperlipidemia
• Hyperlipoproteinemia
• Hypochlorhydria
• Hypoglycemia – liver storage problem
• Hypoglycemia – reactive
• Increased red blood cell destruction (hemolytic?)
• Infection - active, acute bacterial, acute viral, chronic viral
• Inflammation – non-specific
• Insulin resistance
• Internal bleeding
• Internal microscopic bleeding
• Intestinal parasites
• Iodine deficiency
• Leaky gut syndrome
• Liver cell damage
• Liver dysfunction
• Malabsorption
• Metabolic acidosis
• Metabolic alkalosis
• Mononucleosis
• Muscle – atrophy or breakdown
• Oxidative stress/ free radical damage
• Pancreatic insufficiency
• Parathyroid Hyperfunction
• Parathyroid Hypofunction
• Polycythemia
• Poor fat metabolism
• Posterior pituitary dysfunction
• Pregnancy
• Renal insufficiency
• Renal disease
• Respiratory distress
- Selenium deficiency
- Suppressed bone marrow production
- Metabolic syndrome
- Systemic toxicity
- Thiamine deficiency
- Thymus dysfunction
- Thyroid hormone placement therapy
- Thyroid Hyperfunction
- Thyroid Hypofunction – Primary
- Thyroid Hypofunction – secondary due to anterior pituitary dysfunction
- Tissue destruction
- Tissue inflammation/destruction (GI, musculoskeletal, sinusitis)
- Urinary tract congestion
- Vitamin B12/folate deficiency
- Vitamin C need
- Zinc deficiency

- **Anemia Profile** – The program will assess for the following conditions;
  Bleeding, hemolysis, bone marrow disease, nutritional deficiencies (B12, iron, folic acid),
  congenital (hemoglobinopathies), suspected neoplasia, renal disease, chronic inflammatory disorders

- **Iron Panel Profile I and Iron Panel Profile II** – *Profile I* will assess for the following conditions:
  chronic blood loss, acute blood loss, iron deficiency, hemolytic anemia, chronic disease,
  hemochromatosis, estrogen therapy, acute inflammation, iron toxicity, iron excess, iron
  depletion, and iron deficiency without anemia. *Profile II* provides information regarding iron
deficiency and the inflammatory state.
  *(Note: the following analytes must be entered into the program: serum iron, hs-CRP, and serum
  transferrin receptor.)*

- **Vitamin B12 Profile**
- **Folic Acid Profile**
- **FMLogics**© exclusive **Triphasic Thyroid Profile** –
  - *Phase I* is the general interpretation of the thyroid panel.
  - *Phase II* assesses the T4:T3 ratio (Assessing this ratio provides insight for iodine
    deficiency and non-thyroidal illness.
  - *Phase III* is the functional medicine interpretation of the thyroid panel (e.g. adrenal
    fatigue, estrogen dominance, thyroid hormone resistance, iron deficiency, and
    autoimmune disease).

- **Vitamin D Profile**
- **Lipid Panel Analysis**
- **PTH and Serum Calcium Assessment** - Provides information about the following conditions:
  kidney failure, vitamin D deficiency, primary hyperparathyroidism, hypoparathyroidism, and
  secondary hyperparathyroidism