

Identifying Metals in Blood...



Symptoms and conditions relating to element levels in blood:

- Acne
- Alcoholism
- Anemia
- Asthma
- Cancer risk
- Celiac disease
- Crohn's disease
- Depression
- Down's syndrome
- Fatigue
- High blood pressure
- Hyperactivity
- Low blood sugar
- Muscle pains/tremors/weakness
- Osteoporosis

Element analysis and chelation therapy

Because of the body's natural, rapid depletion of all elements, erythrocyte analysis should be standard protocol before and throughout chelation therapy. Nutrient element analysis is critical for identifying both the need for and monitoring the adequacy of either oral or IV supplementation.

Nutrient and Toxic Element Profiles:

- **Nutrient and Toxic Elements** - Erythrocytes and Whole Blood
- **Toxic Metals** - Whole Blood

Erythrocyte and whole blood toxic metal levels are good indicators of body pools of essential elements and toxic elements.

What are nutrient elements?

Often referred to as minerals, nutrient elements are fundamental to every function in the body. They help to build bone and aid in the function of nerve impulses and enzymes. Since the body cannot manufacture the elements—and daily losses are unavoidable—the nutrient elements are all “essential” and must be regularly taken in through diet or supplements.

Nutrient elements in blood:

- **Magnesium deficiency:** Can be due to malnutrition, alcoholism, and malabsorption disorders, such as Celiac disease or Crohn's disease
- **Low Selenium:** Can directly influence an individual's antioxidant protection
- **Chromium & Manganese:** Important in insulin insensitivity and metabolic syndrome
- **Zinc deficiency:** Related to a variety of disorders including sexual impotence, retarded growth, hair loss, and immune system depression

[Source: www.mayoclinic.com]

What are toxic metals?

Some elements can accumulate in tissues causing toxic effects. Metal toxicity is a significant environmental health concern. A toxic load of lead, cadmium, mercury or arsenic is capable of rendering considerable damage to the brain and nervous system, particularly in children. Whole blood testing generally reflects increased or recent exposure to toxic elements.

| Nutrient Elements | | Toxic Metals |
|-------------------|-----------|--------------|
| Calcium | Potassium | Aluminum |
| Chromium | Selenium | Arsenic |
| Copper | Vanadium | Cadmium |
| Magnesium | Zinc | Lead |
| Manganese | | Mercury |

PATIENT INFORMATION SHEET

