

IL-6/IGF-1

This test is used to evaluate levels of Insulin-Like Growth Factor I and Interleukin-6. Research investigating DHEAS levels found that that IGF-I was positively correlated to DHEAS levels and IL-6 levels were negatively correlated to DHEAS levels.

- **Insulin-Like Growth Factor I (IGF-1)**

This test is used to determine acromegaly, in which Sm-C and GH are increased. It is also used to evaluate hypopituitarism. Somatomedin-C is a polypeptide hormone produced by the liver and other tissues, with effect on growth promoting activity and glucose metabolism (insulin-like activity). Somatomedin-C is carried in blood bound to a carrier protein which prolongs its half-life. Its level is therefore more constant than that of growth hormone. Low values are described with advanced age. Low values may indicate hypopituitarism, malnutrition, diabetes mellitus, Laron dwarfism, hypothyroidism, maternal deprivation syndrome, pubertal delay, cirrhosis, hepatoma, and some cases of short stature and normal GH response to pharmacologic tests. Low values may be found with nonfunctioning pituitary tumors, with constitutional delay of growth and development and with anorexia nervosa. High values occur with adolescence, true precocious puberty, pregnancy, obesity, pituitary gigantism, acromegaly and diabetic retinopathy. Since Sm-C is decreased with malnutrition, its concentration provides an index with which to monitor therapy for food deprivation.

- **Interleukin 6 (IL-6)**

This test is used to identify evaluated levels of Interleukin-6. IL-6 is a cytokine produced by many different cells including monocytes/macrophages, fibroblasts, endothelial cells, keratinocytes, mast cells, T cells and many tumor cell lines. Elevated IL-6 serum or plasma levels may occur in different conditions including sepsis, autoimmune diseases, lymphomas, AIDS, alcoholic liver disease, tumor development, Alzheimer's disease, and in individuals with infections or transplant rejection. Elevated levels of IL-6 may be associated with an increased risk of heart attack, and stroke.

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