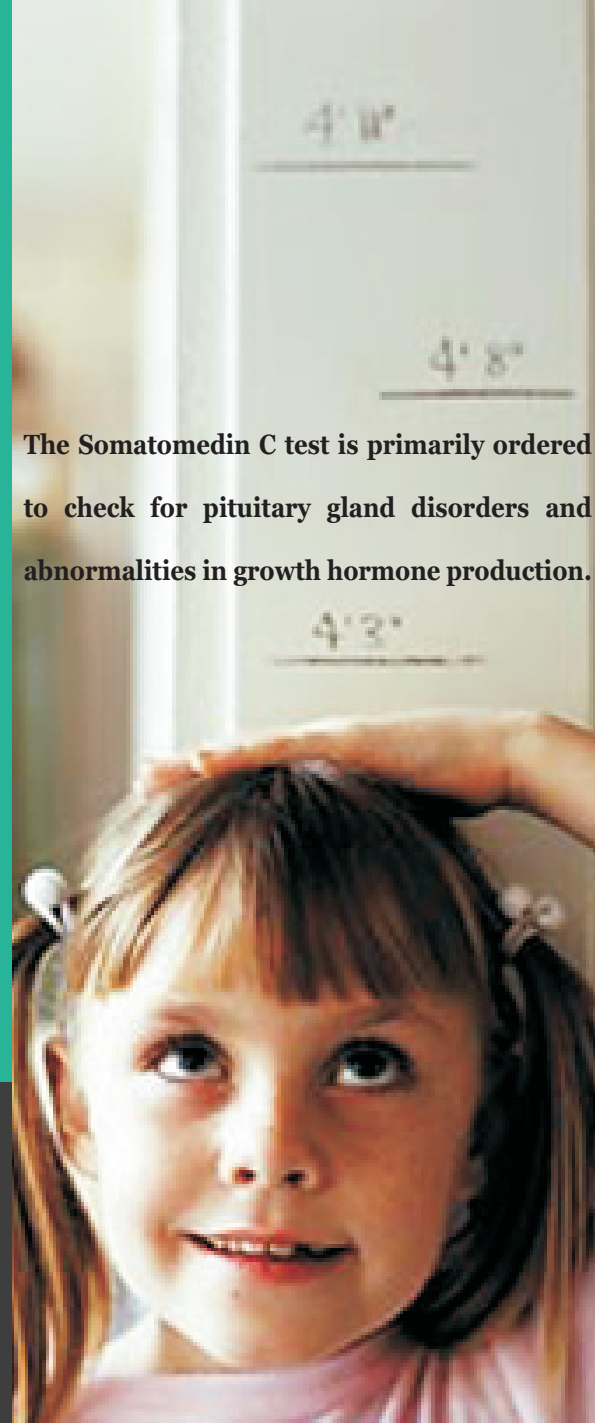


INSULIN LIKE GROWTH FACTOR (IGF -1) (SOMATOMEDIN C)

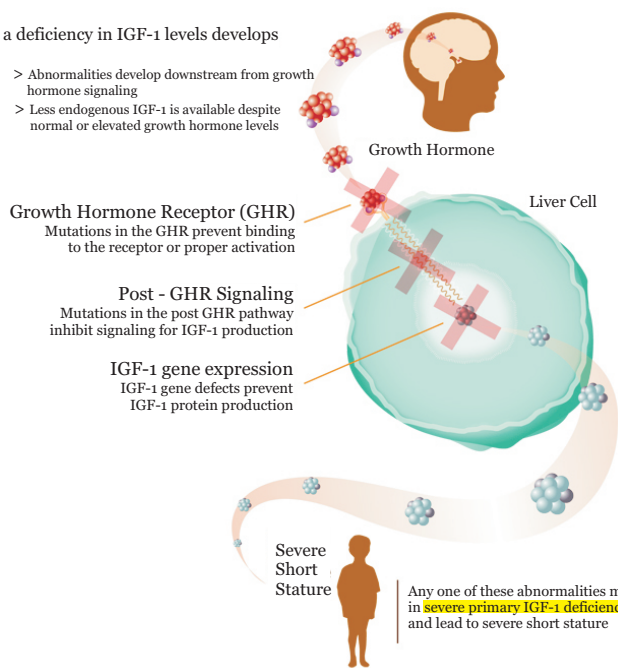
Insulin-like growth factor 1 (IGF-1) is also called Somatomedin C, is a protein hormone secreted by liver. It is a hormone similar in molecular structure to insulin & hence the name. Its production is fully controlled by Growth Hormone (GH). Similar to growth hormone, it plays an important role in childhood growth & continues to have anabolic effects in adults. Clinically important states of GH excess or deficiency are relatively uncommon & often difficult to diagnose. GH concentrations vary widely under normal circumstances, so the measurement of GH under random conditions is not generally considered useful. A single GH determination cannot be used to distinguish normal fluctuations from low or high concentrations that are seen in various disease states.

The Somatomedin C test is primarily ordered to check for pituitary gland disorders and abnormalities in growth hormone production.



How a deficiency in IGF-1 levels develops

- > Abnormalities develop downstream from growth hormone signaling
- > Less endogenous IGF-1 is available despite normal or elevated growth hormone levels



However, testing that measures the presence of growth hormone and IGF-1 of very short children reveals that abnormally low levels of IGF-1 can occur in the presence of normal or elevated growth hormone levels. So IGF-1 deficiency is better understood as its own distinct diagnostic category

IGF - 1 is a protein that in

humans is encoded by the IGF-1 gene.

ONE in **6,218** CHILDREN IN INDIA IS AFFECTED BY GROWTH HORMONE DEFICIENCY

MICROBIOLOGICAL LABORATORY



12A, COWLEY BROWN ROAD(E), RS PURAM, COIMBATORE - 641 002

P : 0422 2540525, 2556628, 2550673 F : 0422 2541316

E : microlabcbe@microlabindia.com W : www.microlabindia.com