

Global Human Growth Hormone Market Report: 2012 Edition

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Abstracts

Pituitary- the master gland of human body is responsible for controlling crucial hormonal secretion which in turn regulates other key aspects of human body such as temperature, growth, thyroid functioning, urination and production of other hormones. It is a pea sized gland situated at the base of brain and is a major component of human body as it expedites the response towards the surrounding environment and settings.

Any deformity or damage to the pituitary gland can adversely impact the production and activity level of the above mentioned hormones thereby affecting the body work process and stunting the outcomes especially in the case of growth hormone. Marred pituitary function leads to either over or under secretion of the somatropin that is the growth hormone. Its over secretion causes disfiguration in the body parts like hands, face, feet etc. whereas its deficiency impedes the growth of body parts/whole body thus leading to disease states like dwarfism or gigantism.

It is observed that the growth hormone related problems usually affect children and teenagers, but it is seen to grip adults as well but to a lesser extent. The major factors which vitiate the pituitary operations thus impairing the GH role include kidney malfunction, tumors/cancer especially associated with brain. There are some other unknown causes as well which are termed as idiopathic. Earlier, to deal with these predicaments, growth hormone (GH) used to be extracted from the human cadavers but, as time passed and evolution of technology/tools/techniques/R&D took place, the extraction of GH also got altered and many novel innovations and discoveries were made in the respective field.

Now a days, many leading companies are heavily involved in the R&D process for devising longer acting and sustained release versions of the somatropin which are

produced using the recombinant technology. The competition prevalent in the respective industry is heating up day by day. The human growth hormone market (HGH) is monopolized by a few players viz. Pfizer, NovoNordisk, Eli Lilly and Roche.

The global HGH report discusses the key ongoing trends like licensing agreement, development of needle free injectors and comparison between generic and biosimilar drug versions. On the industry development front, the current inclination is towards creating innovative therapeutic products with novel properties. Furthermore, the major factors driving the HGH market include rising cancer and CKD/ESRD cases and increasing GNI and healthcare expenditure on worldwide basis. In addition, a few factors posing challenges in front of the HGH industry are the off-label HGH use, associated risks and side effects and the escalating price pressure which, to an extent, are hindering the growth and development of the same.

By combining SPSS Inc.'s data integration and analysis capabilities with our relevant findings, we have predicted the future growth of the industry. We employed various significant variables that have an impact on this industry and created regression models with SPSS Base to determine the future direction of the industry. Before deploying the regression model, the relationship between several independent or predictor variables and the dependent variable was analyzed using standard SPSS output, including charts, tables and tests.

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