

### Effects of GH hypersecretion

#### Gigantism

- Gigantism is a very rare disease (annual incidence: 3/1.000.000)
- Gigantism results from increased GH secretion during childhood
- At puberty, the epiphyseal plates of the long bones close, so they become unresponsive to GH stimulation, However, this is not the case of the hands, feet, skull and lower jaw
- they continue to grow, resulting in the distinctive physical appearance of an acromegaly patients

growth hormone



## Some Characteristics of Gigantism

- Excessive growth makes the child extremely large for his or her age
- Delayed puberty
- Double vision or difficulty with side vision
- Frontal bossing & prominent jaw
- Headache
- Increased sweating
- Irregular periods (menstruation)
- Large hands & feet with thick fingers and toes
- Weakness



## Underproduction of Growth Hormones?????

Low productions of growth hormones during childhood can result in **Pituitary dwarfism**.

<http://tlc.howstuffworks.com/tv/little-people-big-world>



[http://www.youtube.com/watch?v=ArwJOpY\\_fZI&feature=fvsr](http://www.youtube.com/watch?v=ArwJOpY_fZI&feature=fvsr)



<https://www.youtube.com/watch?v=nq56RmhPNsM>



<http://www.youtube.com/watch?v=WFEFP5x2Gy0>



<http://www.youtube.com/watch?v=KSz0D-o6D6k&feature=related>



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