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primary studies - published RCT

## Growth hormone normalizes pubertal onset in children with cystic fibrosis.

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**Author:** Vanderwel M

### Study design (if review, criteria of inclusion for studies)

randomized retrospective cross-over study

### Participants

105 children with CF who had participated in studies on growth hormone (GH)

### Interventions

GH therapy. participants were randomized into two cohorts, one of which was treated with GH for 1 year, and then followed off GH, and the other group was first followed off GH, and then treated with GH for 1 year

### Outcome measures

pubertal staging

### Main results

In prepubertal females, GH treatment resulted in a normalized onset of breast development as compared to delayed onset in non-treated females. Females treated during puberty had a normal time of breast development. In prepubertal males, GH treatment resulted in a normalized onset of testicular volume compared to non-treated males. Testicular size progression was not accelerated in pubertal boys treated with GH

### Authors' conclusions

GH treatment normalizes pubertal onset in prepubertal children with CF

<http://dx.doi.org/10.1515/JPEM.2006.19.3.237>

### See also

J Pediatr Endocrinol Metab. 2006 Mar;19(3):237-44.

### Keywords

Adolescent; Child; Growth Hormone; Hormones; pharmacological\_intervention; Recombinant Proteins;