



HOME HELP FEEDBACK SUBSCRIPTIONS ARCHIVE SEARCH TABLE OF CONTENTS

Journal of Andrology, Vol 7, Issue 5 292-297, Copyright © 1986 by The American Society of Andrology

JOURNAL ARTICLE

Altered testosterone feedback in pubertal male rats raised on reduced caloric intake

B. E. Piacsek, T. M. Bonifer and R. C. Tan

A study was conducted to explore the hypothesis that reduced caloric intake increases the negative feedback efficacy of testosterone on gonadotropin secretion. Daily subcutaneous injections of testosterone propionate in oil were administered to either age-matched (37-day-old) or weight-matched (mean = 178 g) ad libitum-fed (control) or underfed rats that received 60% of normal daily food intake from the age of 20 days. Daily doses of testosterone propionate ranged from 25 to 400 micrograms/100 g body weight. Results indicate that reduced caloric

This Article

- ▶ Full Text (PDF)
- Alert me when this article is cited
- ▶ Alert me if a correction is posted

Services

- ▶ Similar articles in this journal
- ▶ Similar articles in PubMed
- ▶ Alert me to new issues of the journal
- ▶ Download to citation manager

Citing Articles

Liting Articles via Google Scholar

Google Scholar

- Articles by Piacsek, B. E.
- Articles by Tan, R. C.
- Search for Related Content

PubMed

- ▶ PubMed Citation
- Articles by Piacsek, B. E.
- Articles by Tan, R. C.

intake increases the suppression of serum LH by testosterone propionate in both age-matched and weight-matched underfed rats. On the other hand, the response of serum FSH concentrations to testosterone propionate was affected by reduced diet only in the weight-matched animals. Results suggest that the increased negative feedback of testosterone on LH secretion is a specific dietinduced effect and not merely the result of reduced growth. The altered response in FSH secretion, however, may represent age-associated changes in sensitivity to testosterone rather than dietinduced effects.

HOME HELP FEEDBACK SUBSCRIPTIONS ARCHIVE SEARCH TABLE OF CONTENTS

Copyright © 1986 by The American Society of Andrology.