

Serum 17-hydroxyprogesterone is a potential biomarker for evaluating intratesticular testosterone

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Introduction and Hypothesis

- Intratesticular testosterone (ITT) is important for quantitative spermatogenesis.
- Amory *et al*: positive correlation between aspirated ITT and serum 17-OHP (androgen precursor).
- Hypothesis: Serum 17-OHP is a good serum biomarker of ITT.
- Objective: Assess ITT variation (using 17-OHP as its serum biomarker) in men receiving different treatments that were shown to alter ITT levels.



Results

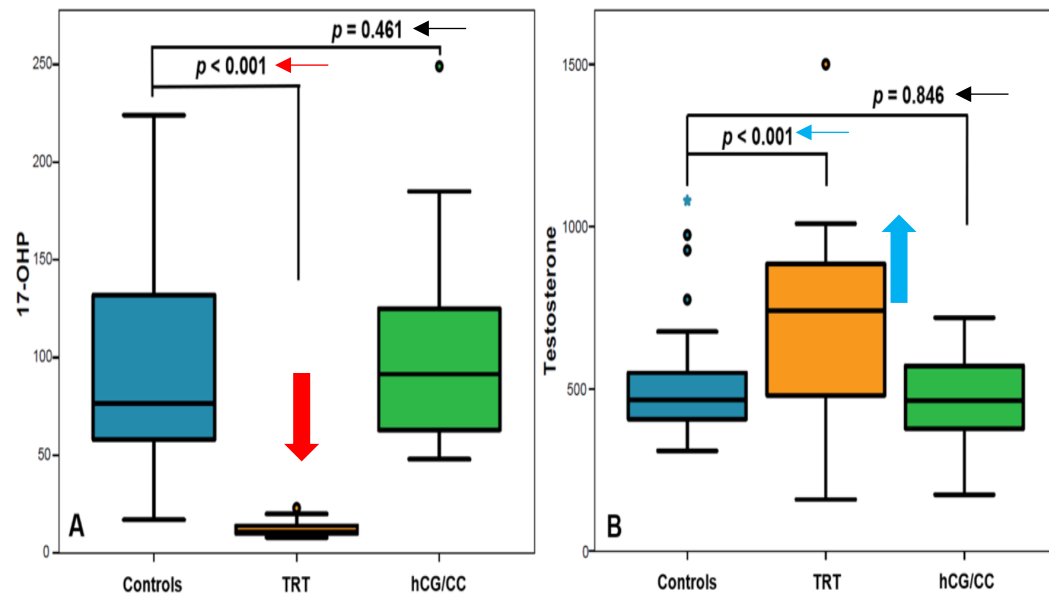


Figure 1: Cross-sectional analysis of serum 17-OHP and T in 93 men.

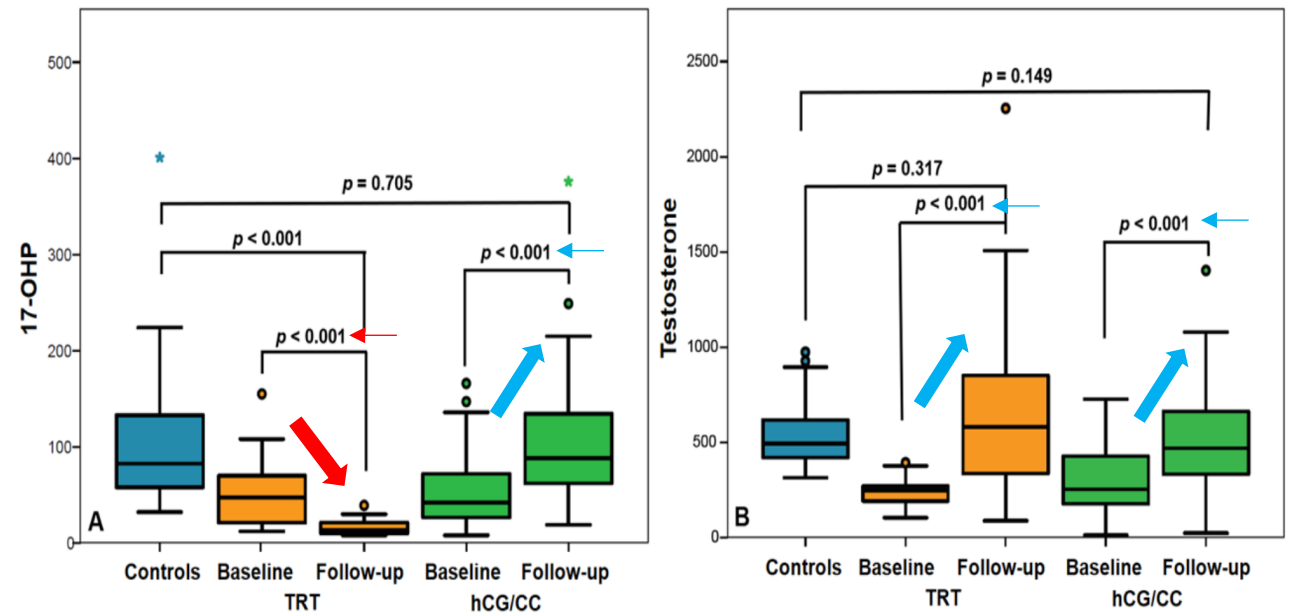


Figure 2: Prospective Cohort of 140 men. Changes in 17-OHP and T between Baseline and follow-up.

Conclusion →

- 17-OHP → reliable marker of ITT
- Useful to guide medical therapies that alter ITT
- Serum T is not correlated to ITT.

