THE EFFECT OF TONGKAT ALI SUPPLEMENTATION IN HEALTHY EXCERCISE- TRAINED MALES AND FEMALES

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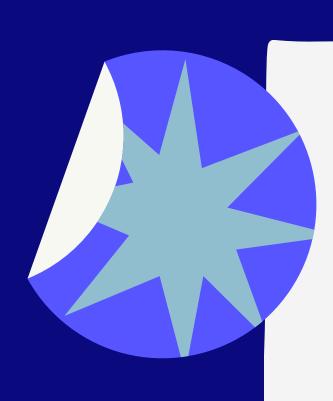
INTRODUCTION

It has been suggested that supplementation with Tongkat Ali (i.e., the botanical name is Eurycoma longifolia) may affect testosterone concentrations.

Whether this also affects body composition is unknown.

OBJECTIVE

The purpose of this investigation was to determine if four weeks of Tongkat Ali (400 mg daily dose) supplementation affected body composition and salivary free testosterone concentrations.



Related Literature

Effects of Eurycoma Longifolia Jack
Supplementation Combined with
Resistance Training on Isokinetic Muscular
Strength and Power, Anaerobic Power,
and Urinary Testosterone



METHODOLOGY

Thirty-three exercise-trained males (n=19) and females (n=14) volunteered for this investigation.

Research participants were pre- and post-tested for:

- body composition (InBody 270)
- Profile of Mood States (POMS)
- Handgrip strength
- Sleep (Pittsburgh Sleep Quality Index [PSQI]).
- Saliva samples were collected and analyzed for cortisol and free testosterone
- 400mg of Tongkat Ali vs. Placebo daily for 4 weeks

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Lean Body Mass

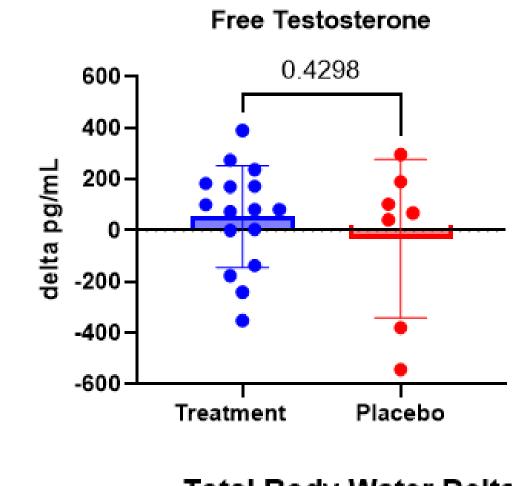
Placebo

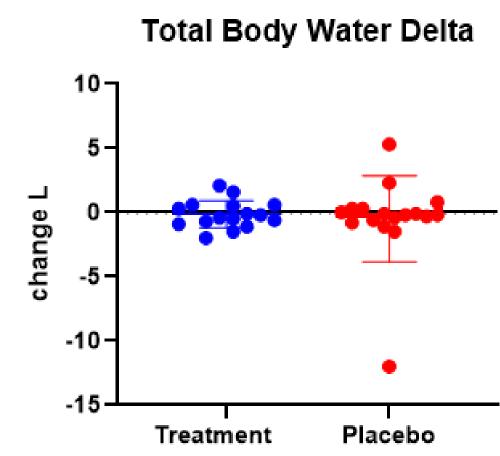
Treatment

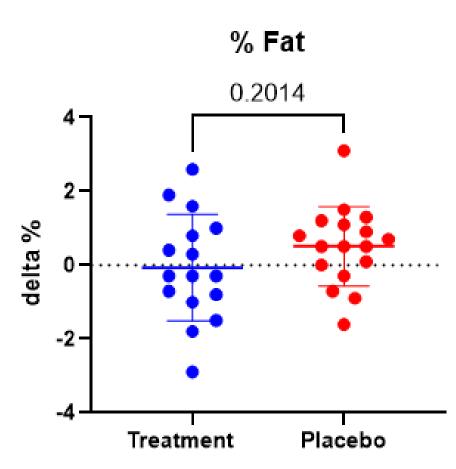
ACKNOWLEDGEMENTS

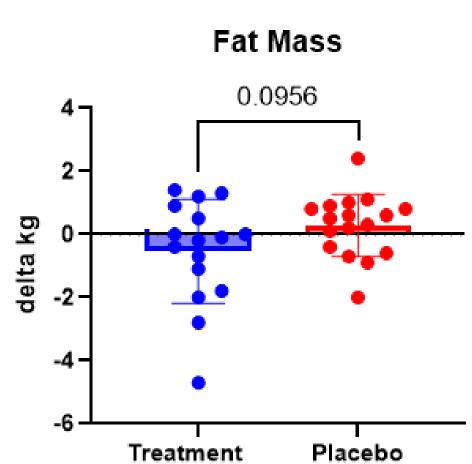
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RESULTS









FINDINGS

There was no between-group difference in body composition regarding the delta score.

Lean body mass – Tongkat Ali -0.5±1.9 kg, Placebo -0.4±0.7 kg (p=0.8218);

Fat mass – Tongkat Ali -0.5 \pm 1.6 kg, Placebo 0.3 \pm 1.0 kg (p=0.0956);

Percent body fat – Tongkat Ali -0.1±1.4, Placebo 0.5±1.1 (p=0.2014).

Moreover, the other assessments had no between-group differences (e.g., handgrip strength, mood, sleep, and salivary free testosterone and cortisol).

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CONCLUSION

Four weeks of supplementation with Tongkat Ali in exercise-trained males and females does not affect body composition, mood, sleep, vigilant attention, handgrip strength, cortisol, and free testosterone.