

Yamada Bee Farm Grant for Honeybee Research

QUICK SEARCH:		[advanced]
	Author:	Keyword(s):
Go		
Year:	Vol:	Page:

HOME HELP FEEDBACK SUBSCRIPTIONS ARCHIVE SEARCH TABLE OF CONTENTS

American Journal of Clinical Nutrition, Vol. 87, No. 3, 621-626, March 2008 © 2008 American Society for Nutrition

ORIGINAL RESEARCH COMMUNICATION

Weight-loss diet that includes consumption of mediumchain triacylglycerol oil leads to a greater rate of weight and fat mass loss than does olive oil 1, 2, 3

Marie-Pierre St-Onge and Aubrey Bosarge

¹ From the College of Physicians and Surgeons, Columbia University and New York Obesity Research Center, St Luke's/Roosevelt Hospital, New York, NY (M-PS-0), and the Department of Nutrition Sciences, University of Alabama at Birmingham, Birmingham, AL (M-PS-0 and AB)

Background: Clinical studies have shown that consumption of medium-chain triacylglycerols (MCTs) leads to greater energy expenditure than does consumption of long-chain triacylglycerols. Such studies suggest that MCT consumption may be useful for weight management.

Objective: We aimed to determine whether consumption of MCT oil improves body weight and fat loss compared with olive oil when consumed as part of a weight-loss program.

Design: Forty-nine overweight men and women, aged 19-50 y, consumed either 18-24 g/d of MCT oil or olive oil as part of a weight-loss program for 16 wk. Subjects received weekly group weight-loss counseling. Body weight and waist circumference were measured weekly. Adipose tissue distribution was assessed at baseline and at the endpoint by use of dual-energy X-ray absorptiometry and computed tomography.

Results: Thirty-one subjects completed the study (body mass index: 29.8 ± 0.4 , in kg/m²). MCT oil consumption resulted in lower endpoint body weight than did olive oil (-1.67 ± 0.67 kg, unadjusted P = 0.013). There was a trend toward greater loss of fat mass (P = 0.071) and trunk fat mass (P = 0.10) with MCT consumption than with olive oil. Endpoint trunk fat mass, total fat mass, and intraabdominal adipose tissue were all lower with MCT consumption than with olive oil consumption (all unadjusted P values < 0.05).

Conclusions: Consumption of MCT oil as part of a weight-loss plan improves weight loss compared with olive oil and can thus be successfully included in a weight-loss diet. Small changes in the quality of fat intake can therefore be useful to enhance weight loss.

Key Words: Obesity • weight loss • medium-chain triacylglycerols • olive oil • fat mass

This article has been cited by other articles:



This Article

- Full Text
- Full Text (PDF)
- Purchase Article
- View Shopping Cart
- Alert me when this article is cited
- Alert me if a correction is posted
- Citation Map

Servic

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

Citing Article

- Citing Articles via HighWire
- Citing Articles via Google Scholar

Google Scholar

- Articles by St-Onge, M.-P.
- Articles by Bosarge, A.
- Search for Related Content

PubN

- PubMed Citation
- Articles by St-Onge, M.-P.
- Articles by Bosarge, A.

Agricola

- Articles by St-Onge, M.-P.
- Articles by Bosarge, A.

HOME HELP FEEDBACK SUBSCRIPTIONS ARCHIVE SEARCH TABLE OF CONTENTS