

The Science of Cancer Health Disparities in Racial/Ethnic Minorities and the Medically Underserved Carefree, AZ • February 3-6, 2009

Abstract Deadline: November 17

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. 85, No. 1, 201-208, January 2007 © 2007 American Society for Nutrition

ORIGINAL RESEARCH COMMUNICATION

Differential associations of fast food and restaurant food consumption with 3-y change in body mass index: the Coronary Artery Risk Development in Young Adults  $Study^{1,2,3}$ 

Kiyah J Duffey, Penny Gordon-Larsen, David R Jacobs, Jr, O Dale Williams and Barry M Popkin

<sup>1</sup> From the Department of Nutrition, School of Public Health, University of North Carolina (KJD, PG-L, and BMP); the Department of Epidemiology, School of Public Health, University of Minnesota, Minneapolis, MN (DRJ); the Department of Nutrition, University of Oslo, Oslo, Norway (DRJ); and the University of Alabama at Birmingham, Division of Preventive Medicine (ODW)

Background: Away-from-home food consumption has rapidly increased, though little is known about the independent associations of restaurant food and fast food intake with body mass index (BMI) and BMI change.

Objective: The aim was to compare the associations of restaurant food and fast food consumption with current and 3-y changes in BMI.

Design: Multivariate linear regression models, with control for demographic and lifestyle factors, were used to examine cross-sectional and longitudinal associations of away-from-home eating with BMI by using data from subjects of the Coronary Artery

Risk Development in Young Adults Study (n = 3394) obtained at exam years 7 (1992–1993) and 10 (1995–1996).

Results: Forty percent of the sample increased their weekly consumption of restaurant or fast food, though mean ( $\pm$  SD) changes were  $-0.16 \pm 2.39$  times/wk (P = 0.0001) and  $-0.56 \pm 3.04$  times/wk (P < 0.0001), respectively. Cross-sectionally, fast food, but not restaurant food, consumption was positively associated with BMI. Similarly, higher consumption of fast food at year 7 was associated with a 0.16-unit higher BMI at year 10. After adjustment for baseline away-from-home eating, increased consumption of fast food only ( $\beta$ : 0.20; 95% CI: 0.01, 0.39) and of both restaurant food and fast food ( $\beta$ : 0.29; 95% CI: 0.06, 0.51) were positively associated with BMI change, though the estimates were not significantly different (P = 0.47). Increased consumption of restaurant food only was unrelated to BMI change ( $\beta$ : -0.01; 95% CI: -0.21, 0.19), which differed significantly (P = 0.014) from the estimate for an increase in both restaurant food and fast food intake.

Conclusions: We found differential effects of restaurant food and fast food intakes on BMI, although the observed differences were not always statistically significant. More research is needed to determine whether the differential effects are related to consumer characteristics or the food itself.

Key Words: Energy intake • fast food • restaurant • body weight change • body mass index • young adults

## 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

••	Services
S	Similar articles in this journal
	Similar articles in PubMed
	Alert me to new issues of the journal
	Download to citation manager
and	C Get Permissions
	Citing Articles
PG-	Citing Articles via HighWire
d the	Citing Articles via Google Scholar
	Google Scholar
	Articles by Duffey, K. J
is	Articles by Popkin, B. M
th	Search for Related Content
	PubMed
bc	PubMed Citation
	Articles by Duffey, K. J
	Articles by Popkin, B. M
	Agricola
	Articles by Duffey, K. J
ons	Articles by Popkin, B. M
-v	

JN	N	Journal of Nutrition	
	Birthplace I's Associated with More Adverse Dietary Profiles for Born Than for Foreign-Born Latino Adults J. Nutr., December 1, 2008; 138(12): 2428 - 2435. [Abstract] [Full Text] [PDF]	r US-	
1/	ABFM	Journal of the American Board of Family Medcine	номе
-	0	J. L. J. Greenwood, M. A. Murtaugh, E. M. Omura, S. C. Alder, and J. Stanford Creating a Clinical Screening Questionnaire for Eating Behavio Associated with Overweight and Obesity	I. B. rs
		J Am Board Fam Med, November 1, 2008; 21(6): 539 - 548. [Abstract] [Full Text] [PDF]	
J	ABFM	Journal of the American Board of Family Medcine	HOME
		J. L. J. Greenwood and J. B. Stanford Preventing or Improving Obesity by Addressing Specific Eating Patterns J Am Board Fam Med, March 1, 2008; 21(2): 135 - 140. [Abstract] [Full Text] [PDF]	)
		Arteriosclerosis, Thrombosis, and Vascular Biology G. S. Getz and C. A. Reardon Nutrition and Cardiovascular Disease	HOME
		Arterioscler. Thromb. Vasc. Biol., December 1, 2007; 27(12): 2499 - [Abstract] [Full Text] [PDF]	- 2506.
11		Epidemiologic Reviews	номе
		A. Drewnowski The Real Contribution of Added Sugars and Fats to Obesity Epidemiol. Rev., June 24, 2007; (2007) mxm011v1. [Abstract] [Full Text] [PDF]	

HOMEHELPFEEDBACKSUBSCRIPTIONSARCHIVESEARCHTABLE OF CONTENTSCopyright©2007byTheAmericanSocietyforNutrition

\_

-