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Caffeine affects food intake at breakfast, but its effect is limited and transient

Findings of a new study published in the Journal of the Academy of Nutrition and Dietetics do not support the use of caffeine as an appetite suppressant or weight-loss aid

Philadelphia, July 19, 2018 – A new [study](#) featured in the [Journal of the Academy of Nutrition and Dietetics](#) found that, after drinking a small amount of caffeine, participants consumed 10 percent less at a breakfast buffet provided by researchers, but this effect did not persist throughout the day and had no impact on participants' perceptions of their appetites. Based on these findings, the investigators have concluded that caffeine is not effective as an appetite suppressant and weight-loss aid.

“Caffeine is frequently added to dietary supplements with claims that it suppresses appetite and facilitates weight loss. Previous research has speculated that caffeine speeds metabolism or affects brain chemicals that suppress appetite. In addition, epidemiological evidence suggests that regular caffeine consumers have a lower body mass index (BMI) than non-consumers. The purpose of our study was to determine whether caffeine can in fact be linked to reduced food intake or suppressed appetite, and if the

results vary by BMI,” explained lead investigator Leah M. Panek-Shirley, PhD, SUNY University at Buffalo, Department Exercise and Nutrition Sciences, Buffalo, NY, USA.

On average, Americans drink eight ounces of coffee per day. Fifty healthy adults (aged 18-50 years) visited the investigators’ laboratory weekly over a month to participate in the study. Each time, they were asked to drink juice with added caffeine that was either equivalent to consumption of four ounces (1 mg/kg) or eight ounces (3 mg/kg) of coffee, or no coffee as a placebo dose. Thirty minutes later, participants were instructed to eat as much or as little as they wanted of a hearty breakfast buffet. The investigators asked participants to record everything they ate throughout each entire study day and sent them hourly reminder emails, linked to an online survey, to document their intake and appetite at each interval.

The study determined that after drinking the juice with 1 mg/kg of caffeine, participants consumed about 70 fewer calories than they did after drinking juice with 3 mg/kg or no added caffeine. After reviewing what the participants ate for the rest of each study day, they found the small decrease in intake did not persist. Participants compensated for the reduced intake at breakfast later in the day. In addition, there were no differences in reported appetite associated with the caffeine doses. Finally, their individual BMIs had no effect on their food intake or appetite at all three caffeine levels.

“This study, by nature of its rigorous design, reinforces the importance of good eating habits and not relying on unsupported weight loss aids or unhealthy practices,” commented Carol DeNysschen, PhD, RD, MPH, CDN, FAND, one of the investigators, Professor and Chair of the Department of Health, Nutrition, and Dietetics, SUNY Buffalo State College, Buffalo, NY, USA. She elaborated on the rigor of the double-blind, randomized, crossover design of the study: the order of the doses was randomized for the 50 participants, both participants and researchers did not know the dose of samples as they were being presented, and all participants received all dose treatments, thereby acting as their own controls to enable comparisons of their individual responses.

Notes for Editors

The article is “Caffeine Transiently Affects Food Intake at Breakfast,” by Leah M. Panek-Shirley, PhD, Carol DeNysschen, PhD, RD, MPH, CDN, Erin O’Brien, and Jennifer L. Temple, PhD (<http://dx.doi.org/10.1016/j.jand.2018.05.015>). It will appear in the *Journal of the Academy of Nutrition and Dietetics* published by Elsevier.

Full text of this article is available to credentialed journalists upon request. Contact Eileen Leahy at +1 732 238 3628 or andjrnmedia@elsevier.com to obtain copies. Journalists wishing to interview the authors should contact Leah Panek-Shirley, PhD, now Assistant Professor, SUNY Buffalo State College, Department of Health, Nutrition, and Dietetics, at +1 716 878 6831 or Panekslm@buffalostate.edu.

An accompanying video and information specifically for journalists are located at www.jandonline.org/content/podcast. Excerpts from the video may be reproduced by the media; contact Eileen Leahy to obtain permission.

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widely read professional publication in the field. The *Journal* focuses on advancing professional knowledge across the range of research and practice issues such as: nutritional science, medical nutrition therapy, public health nutrition, food science and biotechnology, food service systems, leadership and management and dietetics education. www.jandonline.org

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