

The Effects of Young Adults Eating and Active for Health (YEAH): A Theory-Based Web-Delivered Intervention

Kendra K. Kattelman, PhD, RD; Carol Byrd Bredbenner, PhD, RD; Adrienne A. White, PhD, RD; Geoffrey W. Greene, PhD, RD; Sharon L. Hoerr, RD, PhD, FACN; Tandalayo Kidd, PhD, RD; Sarah Colby, PhD, RD; Tanya M. Horacek, PhD, RD; Beatrice W. Phillips, EdD, RD; Mallory M. Koenings, PhD, RDN; Onikia N. Brown, PhD, RD; Melissa D. Olfert, DrPH, MS, RD; Karla P. Shelnut, PhD, RD; Jesse Stabile Morrell, PhD

This supplemental article was supported by a National Research Initiative Grant (2009-55215-05460) from the US Department of Agriculture National Institute for Food and Agriculture.

The Effects of Young Adults Eating and Active for Health (YEAH): A Theory-Based Web-Delivered Intervention

Kendra K. Kattelman, PhD, RD¹; Carol Byrd Bredbenner, PhD, RD²; Adrienne A. White, PhD, RD³; Geoffrey W. Greene, PhD, RD⁴; Sharon L. Hoerr, RD, PhD, FACN⁵; Tandalayo Kidd, PhD, RD⁶; Sarah Colby, PhD, RD^{7,†}; Tanya M. Horacek, PhD, RD⁸; Beatrice W. Phillips, EdD, RD⁹; Mallory M. Koenings, PhD, RDN^{2,†}; Onikia N. Brown, PhD, RD^{10,†}; Melissa D. Olfert, DrPH, MS, RD¹¹; Karla P. Shelnut, PhD, RD¹²; Jesse Stable Morrell, PhD¹³

ABSTRACT

Objective: To assess the effectiveness of a tailored theory-based, Web-delivered intervention (Young Adults Eating and Active for Health) developed using community-based participatory research process.

Design: A 15-month (10-week intensive intervention with a 12-month follow-up) randomized, controlled trial delivered via Internet and e-mail.

Setting: Thirteen college campuses.

Participants: A total of 1,639 college students.

Intervention: Twenty-one mini-educational lessons and e-mail messages (called nudges) developed with the non-diet approach and focusing on eating behavior, physical activity, stress management, and healthy weight management. Nudges were short, frequent, entertaining, and stage-tailored to each behavior, and reinforced lesson content.

Main Outcome Measure: All participants were assessed at baseline, postintervention (3 months from baseline), and follow-up (15 months from baseline) for primary outcomes of weight, body mass index (BMI), fruit and vegetable intake (FVI), physical activity (PA), and perceived stress; and secondary outcomes of waist circumference, percent dietary fat, energy from sugar-sweetened beverages, servings of whole grains, self-instruction and regulation for mealtime behavior, hours of sleep, and stage of readiness for change for consuming 5 cups of FVI, completing 150 minutes of PA/wk, and managing stress on most days of the week. Demographics were collected at baseline.

Analysis: Chi-square analysis and mixed-models repeated measures analysis were performed to determine differences between experimental and control outcomes.

Results: There were no differences between experimental and control participants in BMI, weight, and waist circumference. There were small improvements in FVI ($P = .001$), vigorous PA in females ($P = .05$), fat intake ($P = .002$), self-instruction ($P = .001$), and regulation ($P = .004$) for mealtime behavior, and hours of sleep ($P = .05$) at postintervention, but improvements were not maintained at follow-up. At

¹Didactic Program in Dietetics, Health and Nutritional Sciences, South Dakota State University, Brookings, SD

²Department of Nutritional Sciences, Rutgers University, New Brunswick, NJ

³School of Food and Agriculture, University of Maine, Orono, ME

⁴Department of Nutrition and Food Science, University of Rhode Island, Kingston, RI

⁵Department of Food Science and Human Nutrition, Michigan State University, Lansing, MI

⁶Department of Human Nutrition, Kansas State University, Manhattan, KS

⁷Department of Nutrition, University of Tennessee, Knoxville, TN

⁸Department of Public Health, Food Studies, and Nutrition, Syracuse University, Syracuse, NY

⁹Department of Food Science and Nutrition, Tuskegee University, Tuskegee, AL

¹⁰Department of Nutrition, Dietetics, and Hospitality Management, Auburn University, Auburn, AL

¹¹Human Nutrition and Foods, West Virginia University, Morgantown, WV

¹²Department of Food Science and Nutrition, University of Florida, Gainesville, FL

¹³Nutrition Program, Department of Molecular, Cellular, and Biomedical Sciences, University of New Hampshire, Durham, NH

†At the time this research was conducted, Dr Brown was at Purdue University, Dr Koenings was a doctoral candidate at the University of Wisconsin–Madison, and Dr Colby was at East Carolina University.

Address for correspondence: Kendra K. Kattelman, PhD, RD, Didactic Program in Dietetics, Health and Nutritional Sciences, South Dakota State University, Box 2203, Brookings, SD 57007; Phone: (605) 688-4045; Fax: (605) 688-5603; E-mail: kendra.kattelman@sdstate.edu

©2014 SOCIETY FOR NUTRITION EDUCATION AND BEHAVIOR

<http://dx.doi.org/10.1016/j.jneb.2014.08.007>

Download English Version:

<https://daneshyari.com/en/article/361189>

Download Persian Version:

<https://daneshyari.com/article/361189>

[Daneshyari.com](https://daneshyari.com)