UNIVERSITY of HOUSTON HEALTH and HUMAN PERFORMANCE

Background

Obesity is prevalent among minority adolescents. While registered dietitians (RDs) are trained to prevent and treat obesity, few dietetic internships provide exposure to childhood obesity interventions. Facilitating adolescent obesity interventions could provide dietetic interns experience tailoring nutrition messages to a youth population. In return, receiving advice from a knowledgeable role model, such as an intern, could help promote sustained reductions in standardized BMI (zBMI) among adolescents.

Purpose

To determine the feasibility of using dietetic interns to facilitate a 6-month obesity intervention for middle school students and to examine the sustainability of the program at 24months according to students' zBMI.

Methods

Participants

Hispanic middle school students aged 11-14 years old with overweight or obesity (n=137).

Procedures

Students were randomized to either receive an intensive intervention (see Table 1) or to a self-help condition (received self-help weight management book, Trim Kids). Both conditions were 12 weeks long.

Outcomes

The primary outcome was zBMI, which was calculated from students' height, weight, date of birth, and gender at baseline, 6, 12, and 24 months.

Analyses

Repeated measures ANOVA was used to assess differences in zBMI across conditions and time.

Using Dietetic Interns to Facilitate a School-Based Obesity Intervention Can Lead to Sustained Reductions in Standardized Body Mass Index Katherine R. Arlinghaus, MS, RD¹, Daphne C. Hernandez, PhD, MSEd¹, Craig A. Johnston, PhD¹

Table 1

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Figure 1. Change in zBMI over time in the intervention and self-help conditions.

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Methods continued

Description of Intervention Condition	
	Intervention
utrition Instruction 1 day/week	 Dietetic Interns led nutrit How to make healthier How to read nutrition la How to control portion s How to classify foods in based on their health b
Physical Activity 4 days/week	 Weeks 1-6 Goal—to reach basic level Modified circuit-training Maintain heart rate in ta Build endurance, streng Weeks 7-12 Goal—to increase skills ne community that they might Sports team activities (e.g. j
navioral Modification 5 days/week	 Token economy system Points awarded for mean physical activity level in Points redeemed week Self monitoring of weigh
arental Involvement	Parents invited to attend n

A significant difference between conditions over time (F=15.778, p<0.001) was found. At 24-months, students randomized to the intervention condition significantly reduced their zBMI by 60% from baseline; whereas stude the self-help condition did not reduce their zBMI.



Components

itional instruction, which included: food choices abels sizes into 3 categories (little bites, portion rights, and big b penefits

el of fitness target zone ngth, and flexibility

needed to participate in activities available to student t engage in following the intervention including: (e.g. soccer, basketball, softball) jump rope, dance, kickboxing)

eting goals, trying new fruits & vegetables, reaching n class kly for prizes ht, diet, physical activity, & sedentary behavior

monthly meetings

Results

Conclusions

The results of this study demonstrate that training diete interns to facilitate a middle sc obesity intervention is feasible. efficacious method promotes a sustains desirable weight outco among Hispanic adolescents.

Acknowledgeme

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