EVERYONE NEEDS FOLIC ACID IS A DIGITAL PROGRAM WITH FACE AND CONTENT VALIDITY FOR LOW-INCOME DIVERSE AUDIENCES

needs **NUTRITION EDUCATION ENGINEERING & DESIGNS**

lohseb@psu.edu www.needscenter.org

2. Budget allowance of \$100 per day for each Facebook campaign.

3. Creation of a Facebook impression (ad) to reach target audience

of low-income Pennsylvania residents. Respondents who clicked

Earn \$15 gift card

lesson: Folic Acid

Recruitment through Facebook⁶

For each study a 3-step process was followed:

on the ad were directed to the study website.

pennstate.qualtrics.com

The ad was written to reach the Facebook page of our target

audience. Impressions were limited to Pennsylvania residents

18-55y, English speakers, and profile/likes linking to one or more of

Is Folic Acid for you?

1. Decision to use cost per click on impression/ad (CPC).

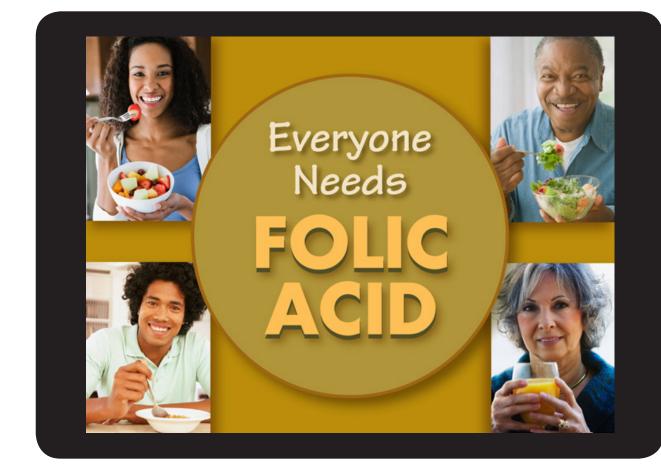
Program No. 807.4

¹Department of Nutritional Sciences, The Pennsylvania State University, University Park, PA

Feon W. Cheng, MPH, RD, CHTS-CP1; Patricia Wamboldt, PhD, MEd1; Barbara Lohse, PhD, RD, LDN1

Everyone Needs Folic Acid, a nutrition program delivered with a digital photo frame platform, was developed to help low-income persons appreciate the role of folic acid (FA) for all age groups. Program assessment was conducted in 2 stages: Stage 1 focused on the original program and Stage 2 evaluated the subsequent program revisions. Participants (n=73) were white (97%), overweight or obese (63%), not eating competent (73%), and had at least 2 children (53%). The sample was low-income; 42% used at least 1 assistance program in the past year and 27% were Supplemental Nutrition Assistant Program (SNAP) participants. The original program was easy to read (90%), understandable (87%), and helpful (66%). Suggested improvements were to provide dosage information, increase pictures of folic acid rich foods, and reduce message redundancy. Stage 2 participants (n=50) were recruited from the Stage 1 sample. When asked if they recalled any information about the original program, 27% of Stage 2 respondents remembered a lot, 45% remembered some, and 28% reported little or no information recall. 72% had applied information to themselves or their family and 96% indicated that they would recommend this program to others. Participants compared 6 original with revised slides and preferred the original in 2 pairs, the revised slide in the other 4. Everyone Needs Folid Acid demonstrated face and content validity for SNAP-eligible persons. Funded by USDA, SNAP-Ed.

- Nutrition education is an essential component of translational research.¹
- Everyone Needs Folic Acid is a 15-slide program that emphasizes the need for folic acid for people of all ages and suggests how to obtain folic acid from foods and supplements.²
- The goal is to translate the works in folic acid for the vulnerable groups with an innovative approach. What is an ne/Frames?³⁻⁵
- Nutrition education with the use of digital photo frame as a platform.
- Designed for individuals to view as they wait for services or appointments.

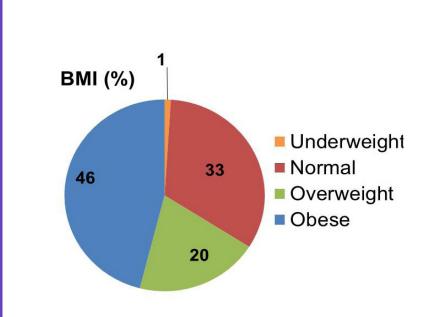


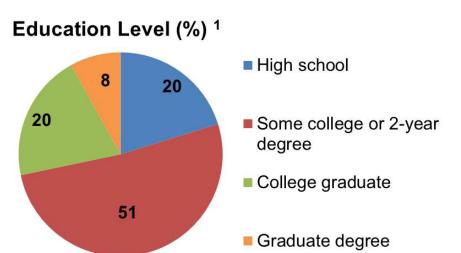
he purpose of this investigation was to evaluate the usefulness, comprehension, and interest of Everyone Needs Folic Acid.

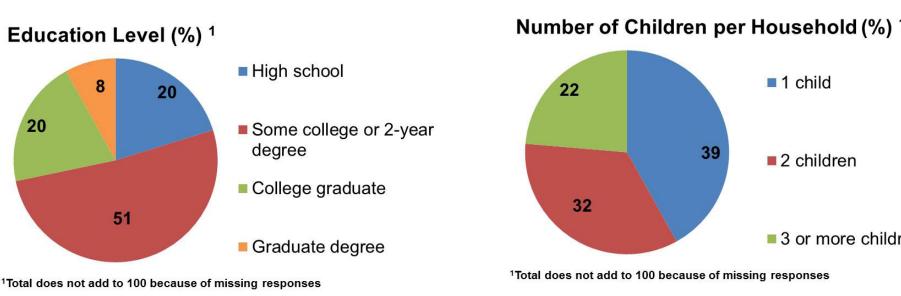
Everyone Needs Folic Acid Evaluation: Demographics ^a

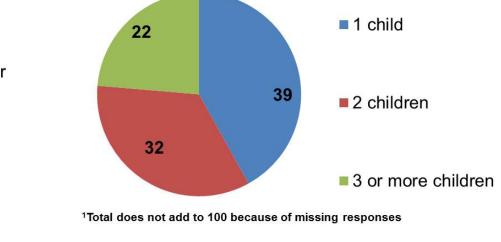
		Completers (n=73)	Attriters (n=4)	Program Assistance (n=32)	Eating Competent (n=29)	Not Eating Competent (n=48)
Mean Age y (SD)		36.7 (12.0)	24.7 (1.3)	35.4 (11.4)	35.3 (10.2)	39.9 (11.9)
Assistance Program Use	SNAP	27	50	69	31	27
	Medical Assistance Benefits	22	50	56	24	23
	Women, Infants, and Children	19	50	50	28	16
	Others	63	125	160	89	50
Behavior	Not Eating Competent	62	60	63	N/A	N/A

Table entries are percentages with the exception of mean age







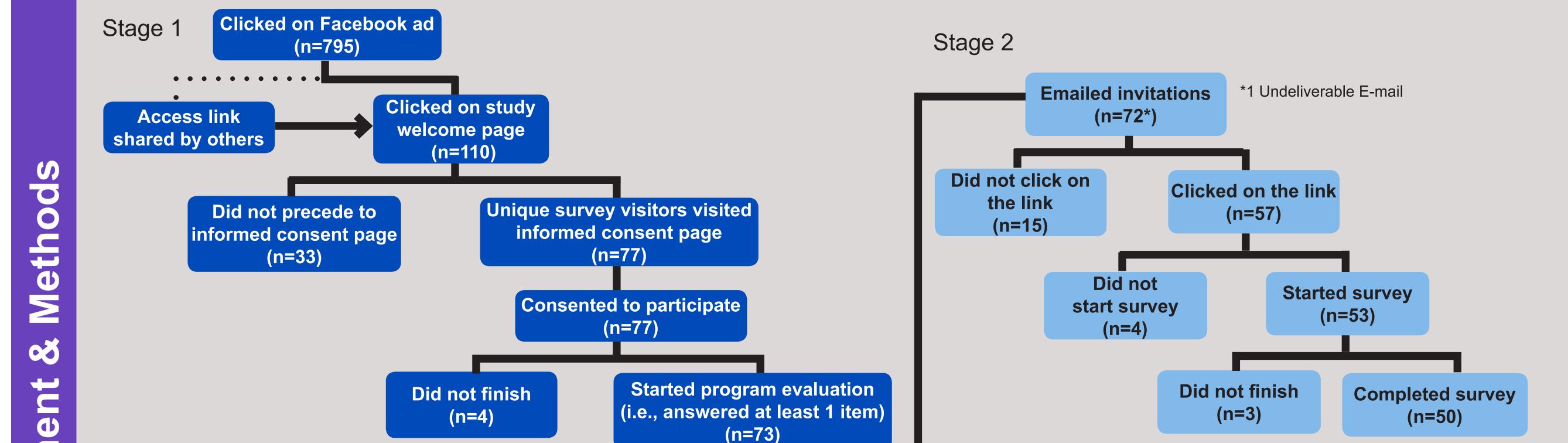


97% White

What did participants think about Everyone Needs Folic Acid? a

	All Program Viewers (n=69)	Low- Income ^b (n=48)	Used Program Assistance (n=32)	Eating Competent (n=42)	Not Eating Competent (n=27)
The program is easy to read	90	87	84	93	88
I learned a lot	49	51	53	45	52
The program was helpful	66	67	59	62	69
This show was interesting	39	46	38	35	42
I understood the information	87	84	78	90	85
I liked the pictures in the program	53	53	47	41	61
I would like to see more programs like this one a Table entries are percentages	47	53	53	31	56

Low-income defined as use of any assistance program OR sometimes, often or always worrying about money for food



Completed program evaluation

(n = 73)

- Program assessment was conducted in 2 stages: Stage 1 focused on the original program and Stage 2 evaluated the subsequent program revisions.
- Study Design: Cross-section, online survey. After completing an online survey that included food and eating behavior items, respondents were directed to view Everyone Needs Folic Acid in a video loop, then linked to an online survey about program content and process features.
- Data Collection: Qualtrics Pro (collected over 17 calendar days for Stage 1 and over 12 calendar days for Stage 2)

Extremely

Important

 5.94 ± 1.85

 6.23 ± 0.98

Extremely

 5.38 ± 1.66

 5.85 ± 1.41

 6.04 ± 1.40

Data Analysis: SPSS v21 (Armonk, NY)

2. How did participants rate the importance of the intervention message?

3. How did participants rate the message effectiveness of slides?

(Mean ± SD)

(Mean ± SD)

	Greens, including salad greens, are a great source of Folic Acid!	Folic Acid is found in citrus fruits and juices, tomatoes and tomato juice	Multi-vitamins are a good source of Folic Acid Folic Acid Folic Acid Supplement Facts Serving that Tables Amount For Serving 1979 400 400 400 400 400 400 400	Peanuts, seeds and beans are rich in Folic Acid Everyone Needs FOLIC ACID	Whole grains, enriched grains and breads are a great source for Folic Acid
Mean	5.56	5.58	4.85	5.60	5.70
SD	1.44	1.49	1.69	1.39	1.55
Median	6.0	6.0	5.0	6.0	6.0

Decision Rationale

4. How did participants rate the appeal of slides showing sources of folic acid?^a

^a Respondents rated how well the message was presented using a 7-star rating system

(more stars meant a more positive rating).

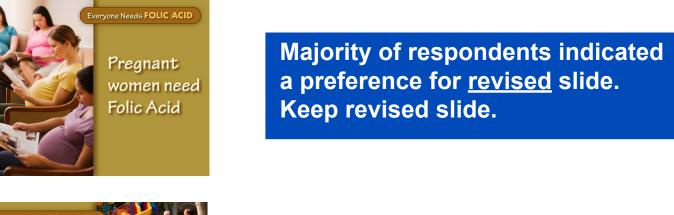
5. Did the participants prefer original or revised slides?

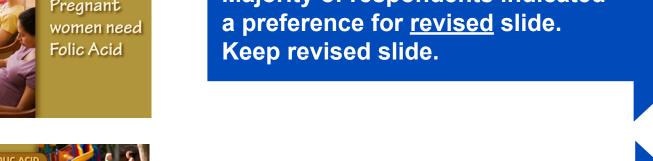




Majority of respondents indicated

a preference for revised slide.





Keep revised slide.











Majority of respondents indicated a preference for <u>original</u> slide. Keep original slide.



are you getting enoug Folic Acid?

Revised Slide

the following words:

Supplemental Nutrition Assistance Program

 Everyone Needs Folic Acid is shown to be useful, informative, valuable and of interest to the target audience.

Queries about original program content in a second evaluation revealed that information in Everyone Needs Folic Acid was valued, retained, and applied.

Implications

- Serve as a model to translate nutrition education material for low-income persons.
- Ready for outcomes assessment to inform evidenced-base of the education.

1.Serrano E, Anderson J, Chapman-Novakofski K. Not lost in translation: nutrition education, a critical component of translational research. J Nutr Educ Behav. 39(3):164-70. doi:10.1016/j. ineb.2006.12.004.

2. Everyone Needs Folic Acid - Evidence-Based Research. Available at: http://www.needscenter. org/2013/12/04/everyone-needs-folic-acid-english-just-released/. Accessed March 19. 2014. 3.Lohse B, Rifkin R, Arnold K, Least C. A digital program informs low-income caregivers of preschool-age children about family meals. J Nutr Educ Behav. 2012;44(3):256-61. doi:10.1016/j.

1.Lohse B, Rifkin R, Krall JS. Digital Photo Receivers Deliver Herbal Education for Low-income Persons. J Nutr Educ Behav. 2009;41(6):438–440. doi:DOI: 10.1016/j.jneb.2009.04.001. 5. Rifkin R, Lohse B, Bagdonis J, Stotts J. Digital photo receivers are a viable technology for nutrition education of low-income persons. J Nutr Educ Behav. 38(5):326–8. Available at: http:// www.ncbi.nlm.nih.gov/pubmed/16966057. Accessed March 19, 2014.

6.Lohse B, Wamboldt P. Purposive facebook recruitment endows cost-effective nutrition education program evaluation. JMIR Res Protoc. 2013;2(2):e27. doi:10.2196/resprot.2713.

Funded by the PA Department of Public Welfare (DPW) through the PENNSYLVANIA NUTRITION EDUCATION TRACKS, as part of USDA's Supplemental Nutrition Assistance Program (SNAP). To find out how SNAP can help you buy healthy foods, contact the DPW's toll-free helpline at 800-692-7462. This institution is an equal opportunity provider and employer.





