The Guide for Effective Nutrition Interventions and Education



Introducing GENIE



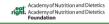


Learning Objectives



- 1) Explain the process used in developing and validating the Guide for Effective Nutrition Interventions and Education (GENIE).
- 2) Develop skills to utilize the online GENIE checklist and become familiar with GENIE's resources.
- 3) Apply GENIE's criteria to benefit your professional practice.

Outline



- 1) Why was GENIE created
- 2) How was GENIE created -Reliability and validity testing
- 3) Introduction to the GENIE checklist and scoring
- 4) GENIE's online resources
- 5) How GENIE can be used

Meet Today's Presenters



Rosa Hand, MS, RDN, LD Senior Manager Dietetics Practice Based Research Network Academy of Nutrition and Dietetics



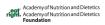
Jenica Abram, MPH, RDN, LDN ConAgra Foods Foundation Nutrition Education Research Fellow Academy of Nutrition and Dietetics



Katie Brown, Ed.D., RDN, LDN



National Education Director Academy of Nutrition and Dietetics Foundation



Why was GENIE created?

Nutrition education is important

What does 'good' look like?





The GENIE Team



Rosa K Hand, MS, RDN, LD ¹ Senior Manager, Dietetics Practice Based Research Network

Jenica K Abram, MPH, RDN, LDN ¹ ConAgra Foods Foundation Nutrition Education Research Fellow

Katie Brown EdD, RDN ² National Education Director

Paula J Ziegler, PhD, RDN, CFCS 1 Senior Director, Research and Evidence Analysis

J. Scott Parrott, PhD ³ Associate Professor

Alison L Steiber, PhD, RDN 1 Chief Science Officer

¹ Academy of Nutrition and Dietetics, ² Academy of Nutrition and Dietetics Foundation, ³ Rutgers University

Academy Fellowships

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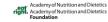
Provides opportunities:

- · Work solely on one project
- · Mentorship by Academy staff
- · Meet experts in the area
- Publish and present results of work

Goal is a mutually beneficial experience

Fellow is selected by Academy staff based on application and interview

GENIE fellowship



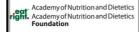
- · First time this model has been used
- Received 28 applications
- · Has resulted in 3 accepted conference sessions, 2 pending manuscript submissions, and 1 pending abstract submission
- Provided proof of concept for the fellowship model
- · Unique opportunity for collaboration between Foundation and Research team

Background



What is GENIE?

GENIE™ **Guide for Effective Nutrition Interventions** and Education



- · A simple-to-use online checklist
- · A rigorously validated tool for designing, modifying or comparing nutrition education programs
- A tool kit of resources for program planners

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Who should use GENIE?

- Nutrition education program planners
- · Program reviewers and funders



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How was GENIE created?

3 Step Process

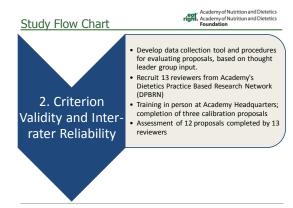
- · Criteria development and expert panel
- Reviewer testing
- Systematic literature review



Study Flow Chart

1. Establish Face and Content Validity

- Academy of Nutrition and Dietetics Foundation
- Identify thought leaders to participate in testing Identify proposals to be reviewed (n=16). Proposals sent to thought leaders for review and evaluation without knowledge of the new tool.
- Expert Panel Meeting
- Day One-Expert panel to come to consensus on quality of each proposal (criterion establishment)
- Day Two- Expert panel to determine essentiality and clarity of each element of GENIE (Face and Content validity).



Results



Reviewers agreed with experts

Strong relationship between expert and reviewer score groups

Reviewers agreed with each other

Good agreement between reviewers across proposals and across categories

Reviewer characteristics had no influence

 Differences among reviewers accounted for a low proportion of differences in proposal scores

Conclusions

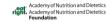


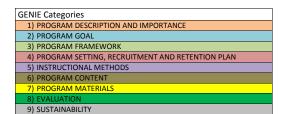
GENIE performs well across reviewers and across various proposals- can be applied to a variety of programs

Trained reviewer GENIE scores agreed with expert panel assessments- high degree of validity

Trained reviewers agreed with each other- high degree of reliability

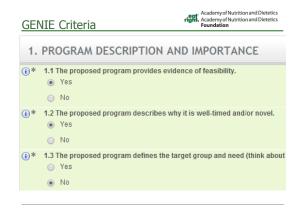
GENIE Format

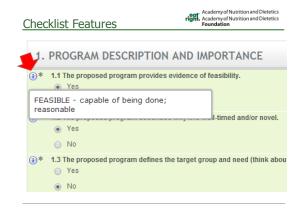


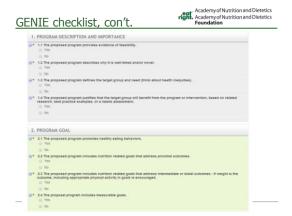


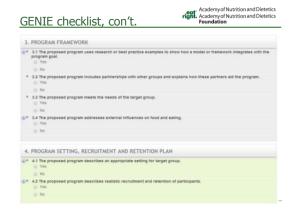
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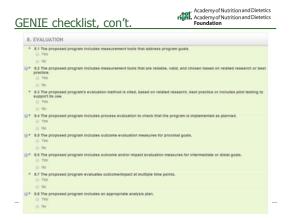


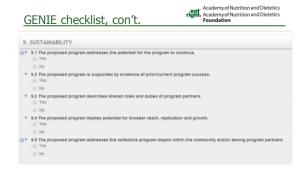


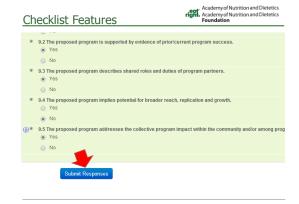








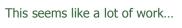












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3. PROGRAM FRAMEWORK

3.1 The proposed program uses research or best practice examples to show how a model or framework integrates with the program goal.

6. PROGRAM CONTENT

6.2 The proposed program content is based on best practice examples or related research with citations from relevant research or government/health society guidance.

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In one POS intervention, which factor was a better predictor of people using the information?

- A) Participants needed to like the information
- B) Participants needed to understand the information

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"...information characteristics (e.g. display size, color scheme), which are key determinants of consumers' attention to nutrition information and liking of the information, may offer a window of opportunity to improve the effectiveness of nutrition information in terms of targeted dietary change."

Hoefkens, Christine, Zuzanna Pieniak, John Van Camp, and Wim Verbeke. "Explaining the effects of a pointof-purchase nutrition

information intervention in university canteens: a structural equation modeling analysis." International Journal of Behavioral Nutrition and Physical Activity 9.1 (2012): 111.

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Participants needed to like the information



"This finding highlights the need for communication efforts and research to move beyond a focus on "understanding of nutrition information" and to emphasize more the liking and attractiveness of information formats."

Hoefkens, Christine, Zuzanna Pieniak, John Van Camp, and Wim Verbeke. "Explaining the effects of a pointof-purchase nutrition information intervention in university canteers: a structural equation modeling analysis." *International Journal of Behavioral Nutrition and Physical Activity* 9.1 (2012): 111.

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What can we learn from effective advertising models, such as AIDA (Attention, Interest, Desire, Action)?

What can we learn from behavior change models, such as the Transtheoretical Model?

How can we apply evaluations from other interventions into your design?

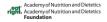
What can we learn from other types of POS interventions?

7. PROGRAM MATERIALS

7.1 The program cites and explains that the materials have social and cultural relevance including language, reading level, food likes/dislikes, household status, food/diet needs, interests, age/development stage matched, learning style and/or format.

EVALUATION

8.3 The proposed program's evaluation method is cited, based on related research, best practice or includes pilot testing to support its use.



The Effectiveness of Interventions to Increase Physical Activity A Systematic Review

Signs were effective for both obese and non-obese people, but greater for those who were obese;

Among obese people, linking stair use to the potential for weight loss was more effective than signs for general health benefits;

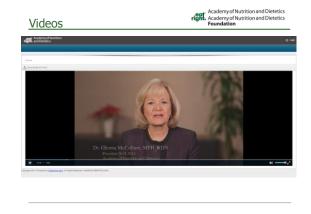
Effects on African Americans was mixed;

This type of intervention is effective, when adapting the messages for the population.

Hoefkens, Christine, Zuzanna Pieniak, John Van Camp, and Wim Verbeke. "Explaining the effects of a point-of-purchase nutrition-information intervention in university canteens: a structural equation modelling, analysis."

















Guide for Effective Nutrition Interventio and Education

Sample Proposals



GENIE: Guide for Effective Nutrition Interventions and Education

Sample Proposal-First Draft

For information on the intended purpose of this document visit http://sm.eatright.org/GENIE

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Locally based ABC insurance company is offering open grant funding, up to \$1,000 for community-ba projects to improve the health of area citizens. Robin Green, is a registered dietitian at a long term care facility in the town of Franklin. She is passionate about leading a healthy lifestyle and helping others do the same. Robin sees unhealthy eating habits as a major problem in Franklin and wants to do something about it. Each year, Franklin offers evening adult continuing education classes and she sees this as a good venue for providing nutrition education. Robin decides to apply for ABC's grant program to subsidize a healthy eating class as part of the adult education series

First Draft- Page 2



- Robin's first attempt at writing a proposal:
- Program Overview and Population
- The Town of Franklin is a place I love to call home. I am a Registered Dietitian at Franklin Gardens, a
- local long term care facility and my son attends Franklin Elementary School. Our town is a great place to work, play and learn, but I wish Franklin were a healthier place for my family. I think that the people of
- Franklin need to eat healthier foods. Other parents I've talked to say that they wish they could prepare
- healthier meals for their families, but feel they don't have the time or knowledge to do so. Instead,
- many rely on fast food restaurants or take-out options like pizza or Chinese food. As a mother, I know caring for my family is important and I have also struggled to find a balance between my busy schedule
- and a healthy lifestyle. From my experience, I have learned that preparing healthy meals is not hard,
- but does take a little planning and practice. I would like to share my experiences and knowledge with others in my town by offering a series of 4 cooking workshops as part of the established Franklin Adult
- 13 $Education\ program.\ I\ think\ these\ workshops\ will\ provide\ my\ community\ with\ the\ skills\ they\ need\ to$
- prepare fast, healthy meals at home. Funding from ABC would allow us to reduce the cost to
- participants attending the workshop.

Scoring Benchmarks

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Benchmark Score-First Draft

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1.1	Provides evidence of feasibility	_x_	Line 12-13 Establish setting and small number of workshops implies feasibility
1.2	Describes why it is well-timed and/or novel	-	The description implies need, but does not make a case for why this program is the best fit for the population at this time; no evidence of novelty
1.3	Defines the target group and need (think about health inequities)	_x_	Line 6-7; Wesk evidence indicating need among this audience
1.4	Justifies that the target group will benefit from the program or intervention, based on related research, best practice examples, or a needs assessment		It is suggested that Robin spoke with other parents about her program, but there's no evidence to show how a cooking program will address family eating habits









Color Coding

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- 2 Program Overview and Population
 3 The Tomm of Frashish is a pince to lead to me. I am a Registered Dicettian at Frashis Gardon, a local long term, a transition Gardon, a local long term, a tending and my son attends Frashish (Bernestany School: Our town is a great piace work, pince and learn, but in sich Frashish wellow permost for visible on year family. In this first the people of Frashish most to the athlater book. Other pours for visible my set that they show the present for visible on year. Frashish most to the athlater book of the present for visible my set to give a many rely no first of restaurants or take and copious like gives a former form of the many rely no first of restaurants or take and controlling the form of the present and I have also struggled for find a balance between my howy school and a healthy fletcher, from my experiences, lower former former produces and healthy fletcher. From my experiences, lower former former and throughout the control in the control of the planning and paratite. I would like to share my experiences and throughout produces in the produces and the control of the challes done for the existable of permits and the control of the challes and the control of the challes and the planning and paratite.
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- Robots: Sint attempt a varifing a proposal:
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 Franklin need to cat healthire froods. Other parents I've talked to say that they gibble this good pregate
 healther made is the test families. Let the glood his was the time of bounded get to also. Instead,
 many redu on last food restaurates or take out options the pizza or Chinese food. As a mother, I know
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- 1) PROGRAM DESCRIPTION AND IMPORTANCE

 1.1 Provides evidence of fessibility

 X Line 12-13: Enthick setting and small number of workshaps implies fessibility

 1.2 Describes why it is well-timed and/or novel

 The description implies seed, but does not make a case for why this program is the best fit for the population of this time, no existence of anomaly

 1.3 Defines the target group and need (think about health

 X Line 6-7. Weak evidence indicating used storage fails inclusive.

Revised Drafts

To download a complete listing of online program planning resources, click here.

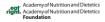
Familiar by yourself with CRNE by viewing this brief video presentation and using the sample proposals and scoring benchmarks. Presentation • GENIE Sample Proposals First Draft • Sample Proposal- First Draft Clind • Sample Proposal- First Draft Clind • Cast Conflict Recommant Revised Draft - Composition Format • Sample Proposal - Revised Draft Composition Report • Sample Proposal - Revised Draft Composition Coded Revised Draft - Code Format • Sample Proposal - Revised Draft Clind SAA Format Stant • Sample Proposal - Revised Draft Cl

How GENIE can be used



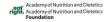
Your hospital wants to start a nutrition outreach program in the local middle school. It doesn't make sense for you to design a program from scratch, so you decide to select an existing curriculum to implement.

How GENIE can be used



You counsel clients at three locally owned fitness facilities. For the past year, you've been paid on commission, but you've built up a large clientele and now the facility is considering adding you as a salaried employee with benefits. They've given you the next year to show that your work helps clients and creates revenue.

How GENIE can be used



Twice a year, you are asked to provide a training to a group of afterschool care providers. The group already uses an established nutrition education program, but has some autonomy in deciding how the program is implemented. The providers look to you for guidance on how the program should be implemented.

Acknowledgements



Thank you to the individuals and organizations who shared their proposals for the purposes of this study.

Expert panelists:

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DPBRN reviewers:

Sara Beckwith, Elsa Ramirez Brisson, Frances Catinella, Mary Ellen DiPaolo, Sari Edelstein, Beth Gillham, Heather Heefner, Kate Hoy, Jill Kennedy, Kate Machado, Robin Nwankwo, Susan Parks, Kathy Tigue The Guide for Effective Nutrition Interventions and Education

sm.eatright.org/GENIE



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