

Collaboration Yields Evidence-Based and Stakeholder-Reviewed Online Nutrition Content for Patient Activated Learning System

Laura Barré, Alisha Gaines, Tara Young, Emily Riddle, Layla Profeta, Gabrielle Orié, Elizabeth Baquero, Keith Roach, Monika Safford, Joan Paddock, Pat Cassano

Background

- Novel approaches are needed to deliver relevant, trusted healthy eating supports to populations experiencing health disparities.
- The Patient Activated Learning System (PALS) is a publicly available web-based resource designed to provide engaging, easily understood, and well-researched information for people who want to know more about health and disease management.
- On PALS, evidence-based information is presented in single-objective webpages.

Objectives

- Develop evidence-based PALS webpages about relevant nutrition and cardiovascular disease (CVD) topics.
- Evaluate acceptability of the PALS nutrition webpages using interviews with Expanded Food and Nutrition Education Program (EFNEP) educators and participants.

Methods

- Pilot study conducted between 2019-2021
- Multidisciplinary partnership: Cornell University Division of Nutritional Science, Cornell Cooperative Extension and New York State EFNEP, Weill Cornell General Internal Medicine, PALS

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Process and Results

Conducted online surveys with EFNEP educators to determine nutrition topics

- Survey 1:** Purposive sample (n=12)

 - Submitted common nutrition questions about CVD
 - Questions grouped thematically, condensed, and included in Survey 2

Survey 2: Convenience sample (n=45)

 - Rated questions on perceived relevance

- Identified **33 common high priority CVD-related nutrition questions**
 - Highest ranked questions informed topics for **4 new PALS nutrition webpages**
 - 1) Coconut oil and heart health
 - 2) Saturated and unsaturated fat
 - 3) Dietary fiber and heart health
 - 4) Soluble and insoluble fiber

Developed 4 PALS nutrition webpages

- Built a rapid systematic review process integrating evidence from nutrition research and practice guidelines to inform page content
- For each PALS webpage developed an:
- **Evidence Review Summary** for professionals
 - **Public-facing content** at the 6-8 grade reading level
- Manualized** the evidence review process

Assessed webpage acceptability for EFNEP audience with EFNEP educators

- Conducted 6 virtual semi-structured focus groups (n=10)
- 2 researchers iteratively coded focus group transcripts, independently summarized feedback, and discussed findings.
- Pages contain clear, concise information
- Content acceptable for educators and participants
- Combination of text and figures helpful for range of learning needs
- Appreciated behaviorally-focused content in particular

Assessed page acceptability with EFNEP participants

- Conducted virtual semi-structured individual interviews (n=12)
- Solicited feedback about page content clarity, appeal, helpfulness
- 3 researchers iteratively coded interview transcripts, independently summarized feedback, and discussed findings
- Pages offer relevant, easily digestible content
- Identified appealing aspects, e.g., practical information in colorful figures
- Demonstrated understanding of content
- Most found content helpful and would return to PALS, citing clarity of information and perceived trustworthiness of source

PALS Nutrition Webpage

www.palsforhealth.com

Is coconut oil heart healthy? ← Page Title/question

← Link to Evidence Review Summary

← Author information

Answer text

“Sticky sound bite” Takeaway Message

Summary Figure

← Self-Assessment Question

CHOOSE	Unsaturated Plant-Based Oils
	Avocado oil, Sesame oil, Canola oil, Soybean oil, Corn oil, Sunflower oil, Grapeseed oil, Safflower oil, Olive oil, Vegetable oil, Peanut oil
LIMIT	Saturated Oils and Fats
	Beef tallow, Fatback, Butter, Ghee (clarified butter), Chicken fat, Lard (pork fat), Cocoa butter, Other animal fats, Coconut oil, Palm oil, Fat drippings

Conclusions & Implications

- Collaborative effort by Cornell Division of Nutritional Sciences and Weill Cornell PALS team led to creating a strong pipeline to produce nutrition-related PALS content.
- Engaging EFNEP educators and participants in development and review helped generate relevant, useful, clear and appealing content that these stakeholders found trustworthy.
- The PALS nutrition content development process is a replicable method to produce acceptable evidence-based nutrition information for underserved populations.
- Lessons learned may apply to other eHealth platforms.