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## Information Literacy of Online Health Consumers in Minnesota

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# Information Literacy of Online Health Consumers in Minnesota

Georgia International Conference on Information Literacy September 27 - 29, 2018 Savannah, GA

Slides: z.umn.edu/GICOIL-onlinehealth

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#### **UNIVERSITY OF MINNESOTA**

Health Sciences Libraries Minneapolis, MN

**Template from SlidesCarnival** 

## • OVERVIEW

## Background

Setting

Methods

Results

Recommendations

## BACKGROUND

1

Minnesota Electronic Health Library

## MeHL

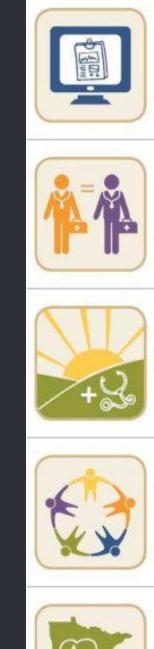
Minnesota Electronic Health Library

# **Data Collection**

Studies of civilians, pharmacists, physicians

# **More Information**

https://hsl.lib.umn.edu/about/mehl





## SETTING

Minnesota State Fair



# MINNESOTA STATE FAIR

Two Million in Attendance



## Driven2Discove

University of Minnesota Driven to Discover

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Image: http://d2d.umn.edu/





## **METHODS**

Mixed Methods



What online sources do Minnesotans use to answer their health questions?

How do Minnesotans use the online health information they find?

How confident are Minnesotans' in their ability to evaluate the quality of online health information?

What do Minnesotans feel is missing from online sources of health information that are currently available?



#### THE SURVEY

### Sample of surveys we used:

- Patient Activation Measure 13
- eHealth Literacy Scale
- Indicators of Accuracy of Consumer Health Information on the Internet

We created additional questions on navigation of websites, demographics, and the "perfect" online health source.



Convenience sample Response bias

Limitations are a part of every study, and are often balanced out by other considerations.

- Anonymity
- Benign topics
- Natural behavior
- Data collection on attitudes

## RESULTS

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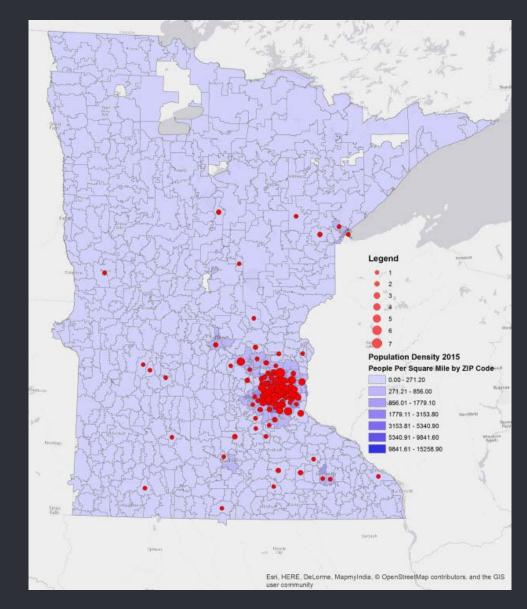
Online health consumer beliefs and behavior



## **255 PARTICIPANTS**

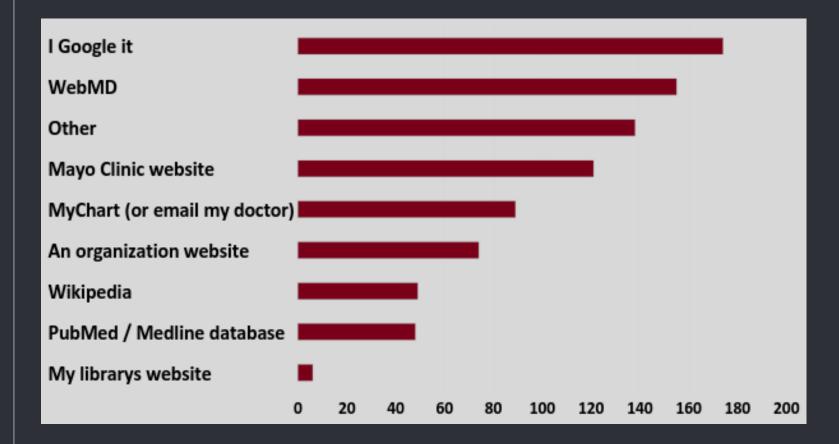


### **POPULATION DENSITY OF PARTICIPANTS**



#### $\mathcal{P}$

## **NAVIGATIONAL BEHAVIORS**



## • USE OF INFORMATION

78% discussed the information with a health professional

76% shared the information with a friend or family member

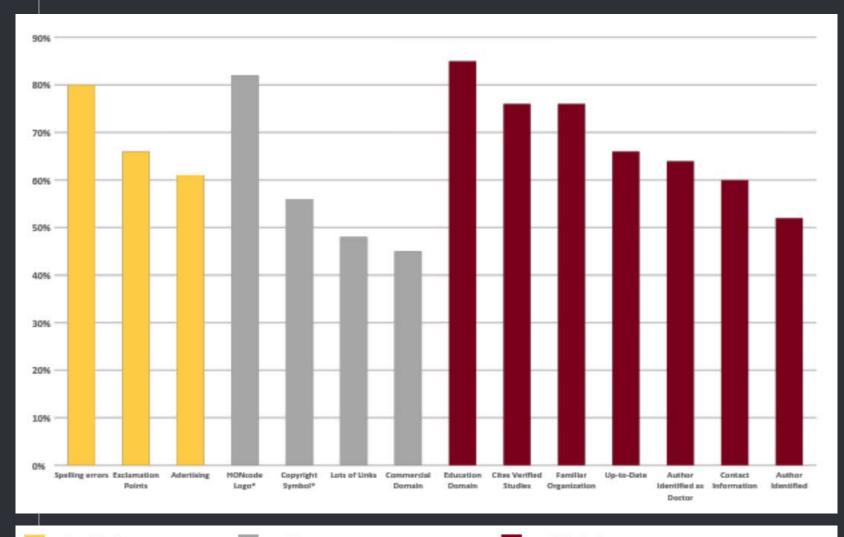
74% used the information to decide when to see a health professional



## • SELF PERCEPTIONS

Increased their perceived knowledge of:				
Nature and cause of a health condition	88%			
Medical treatment options	88%			
Preventing further issues with a health condition	75%			
Increased their perceived confidence around:				
Speaking with a provider about concerns	87%			
When to seek professional medical care	83%			
Maintaining lifestyle changes such as diet and exercise	64%			
Making smart decisions as a caregiver	63%			

## PERCEIVED INDICATORS OF WEBSITE QUALITY



Low Quality

Unsure







## **QUALITATIVE THEMES**

## Trusted versus Distrusted Sources

## Characteristics of the Ideal Source



"

Online health information should come from "...an unbiased source that provides information without trying to sell you something. Company websites are okay; government or educational sites are better."



"

*"Clear linkage to clinical study data or summary, or if none exists, then a standard statement saying so."* 

## RECOMMENDATIONS

Applying results in education

5

## **STRATEGIES FOR EDUCATION**

#### Navigate

Direct students to the most efficient route to online health information and show them how to personalize their experience.

#### Assess

Give students the skills they need to accurately assess the value, trustworthiness, and relevancy of a health website.

#### Partner

Look to your fellow teachers, including public and academic librarians, for opportunities for mass education.

# Teach Personalization in Navigation

The "one-stop-shop" doesn't safely exist, so show health consumers how to personalize what is available to them.

## **Tailored to language needs**

#### **MedlinePlus**

Made for the average consumer Providing fewer language sources Direct translations Many languages Audio/visual

#### **Health Reach**

Health information in many languages MedlinePlus is referring to Health Reach Family planning & some refugee info removed

**Multicultural & Multilingual Health Information** UMN Health Sciences Libraries

## **Tailored to specific characteristics**

**NIH Senior Health** 

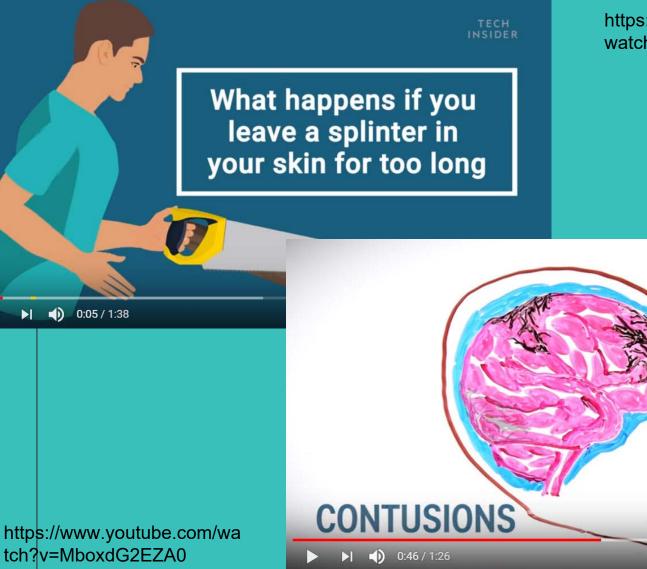
Retired in 2017 Referring people to <u>Medline Plus</u> <u>National Institute on Aging</u> Go4Life

Eunice Kennedy Shriver National Institute on Child Health & Human Development Larger mission A - Z health topics Women's health (maternal health?)

### **Office on Women's Health**

More info on National Institute on Aging

## **Tailored to learning style**



https://www.youtube.com/ watch?v=25HLKjIZA2Y

**HEMATOMAS** 

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BUSINESS

# Teach How to Assess Quality of Health Websites

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A set of criteria versus one or two indicators is the best strategy according to the evidence available.



## List of criteria

- □ Who is sponsoring the information?
- □ Who is authoring the information?
- Is there reliable contact information?
- □ Does the information appear biased?
- Can you verify that the information is accurate?
  Has the website been reviewed by qualified professionals?
- □ Is the information up to date?
- □ Are there sufficient privacy protections in place?
- Does the website encourage medical advice from a professional?



## **Evaluation templates & resources**

**Online Health Information Scorecard** 

**Tutorial: Evaluating Internet Health Information (16 min)** 

**Finding & Evaluation Online Resources** 

**Trust It or Trash It?** 

## Address the issue of advertisements

Log in to Patient Account

MAYO CLINIC	Search Mayo Clinic			Ø	Request an Appointment Find a Doctor		Log in t		
<u>GD</u>				Find a Job Give Now				-	
PATIENT CARE & T HEALTH INFO	DEPARTMENTS & T CENTERS	RESEARCH 💌	EDUCATION	٣	FOR MEDICAL PROFESSIONALS	PRODU		¥	

Mayo Clinic does not endorse companies or products. Advertising revenue supports our not-for-profit mission.

#### Advertising & Sponsorship Policy | Opportunities | Ad Choices |>

Narrow your search

#### Topic:

View All Patient Care & Health Information **Drugs & Supplements** Doctors & Medical Staff Departments & Centers Research **Clinical Trials** Researchers Medical Education For Medical Professionals News from Mayo Clinic

#### Search results 1-10 of 3280 for allergies

#### Allergies - Symptoms and causes -Mayo Clinic

https://www.mayoclinic.org/diseases-55k

... including: Anaphylaxis. If you have severe allergies, you're at increased risk of this serious allergy-induced reaction. Foods ...

#### Food allergy - Symptoms and causes -Mayo Clinic

https://www.mayoclinic.org/diseases-conditions/foodallergy/symptoms-causes/syc-20355095 - 58k

... Other allergies .... Similarly, if you have other types of allergic reactions, such as hav fever or eczema. your risk of having a food allergy is greater...

#### Wheat allergy - Symptoms and cal



Advertisement

Lowest rates, free wi-fi & earn free nights

#### Royal Palm South Beach Miami



# Partner with Experts to Maximize Education Efforts

Widespread education is the best way to impart knowledge to online health consumers, preventing the spread of incorrect and dangerous information.



## **Potential partnerships**

**NNLM Public Libraries Training** 

**Schools + Public Libraries** 

**Public + Academic Libraries** 

**Schools + Academic Libraries** 

**Community Outreach** 

BECAUSE LIBRARIES ARE PARTNERS IN A HEALTHY COMMUNITY.

TRANSFORM

NIH) U.S. National Library of Medicine



## PUBLICATION

"Online Health Information Use, Assessment, and Gaps Identified by Minnesotans"

Journal of Consumer Behavior on the Internet

Nicole Theis-Mahon, Shanda L Hunt, Nora Forbes

## THANK YOU

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