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ACCESSING RELIABLE HEALTH INFORMATION ON THE INTERNET

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Rotation 3, July 11 – August 12, 2016
Mentors: Dr. Maurice Racine, MD & Lynn Rivers, RN
The Problem and Need

- The definition of quick access to healthcare has changed over the years. While the definition in the past may have been closer to gaining access to healthcare professionals who could give you information and treat you, today the definition now includes gaining access to reliable health information over the internet, helping patients decide if they need to seek care.

- Patients want to know about medications, nutrition, fitness, chronic and acute illnesses, and how to address their complaints and symptoms. With the internet at their fingertips, information about these topics can easily be found. However, it can be overwhelming to search the web for reliable health information. Finding sites that have accurate, current information, free of bias, and from an authoritative group (the definition of reliable health information) is an important step towards healthcare equality.

- Many websites including FamilyDoctor.org (by the AAFP Foundation), US Dept. of Health & Human Services, the Food & Drug Administration, the Patient Advocate Foundation, the National Institute of Health, AARP, the Agency for Healthcare Research and Quality and many other organizations provide user guides to help patients access reliable health information on the internet. 1,2,3

- One important way that we can help patients in this endeavor is for healthcare organizations to channel patients to websites that offer reliable healthcare information by offering them support guides and suggested internet websites that have been vetted and found to provide reliable health information.

- According to a December 2013 Report by PEW Research 4,5
  - 87% of U.S. adults use the internet; 72% of internet users say they looked online for health information within the past year; 31% of cell phone owners and 52% of smartphone owners, have used their phone to look up health or medical information; with 77% of online health seekers say they began their last session at a search engine such as Google, Bing, or Yahoo.

- Benefits of supporting patients’ access to reliable health information over the internet include improved quality of healthcare, timely access to healthcare, and increased efficiency in healthcare interactions.
  - A 1999 study found that patients with access to consumer healthcare information systems spend less time during ambulatory care visits, make fewer phone calls to providers, and experiencing fewer and shorter hospitalizations. 6
  - A 2001 study found that patients with access to consumer healthcare information systems benefited by gaining information, social support and increasing their participation in health care. 7
  - A different 1999 study found that patients with access to consumer healthcare information systems, used during office visits, could obtain useful health information and could use this information to change health behaviors on the basis of this information. It also found that: 8
    - 90% were more satisfied with their visit because of the availability of the information.
    - 94% of users found the information helpful.
Public Health Cost

- According to the CDC, the total national health expenditures in 2014 was $3,000,000,000,000 or roughly $9,500 per person, making up roughly 17.5% of the US's GDP.  

- According to Gallup's 2015 annual Health and Healthcare poll, the cost of healthcare still delays healthcare visits for about 1 in 3 in U.S.  

- In 2012, the cost of avoidable healthcare costs due to delayed treatment in the U.S. was $39,500,000,000. 
  - These costs are only expected to rise due to expected increase in insurance coverage, chronic diseases, and an aging population may place further stresses on the need for proper medication use to prevent avoidable healthcare costs.
  - Some of these costs are associated with wasted health facility time and provider-patient time debunking myths and inaccuracies that patients read about on the internet.
Community Perspectives:

- “I am so surprised by our findings, I didn’t realize such a large percentage of our patients were using the internet to learn about their health, and how many of them were interested in our help in finding reliable information. This study is going to change the way we educate our patients, how we address patients’ medical concerns and change the ways in which we convey information to our patients with limited mobility. I now feel more comfortable suggesting the use of phone apps to help remind our patients to take their meds, lose weight, and look up information about their illnesses and medications.” – Lynn Rivers, RN/Case Manager

- “I think this is a wonderful project, so many of our patients use google to self-diagnose themselves and to look up information after their appointments. Many end up calling the office concerned that they are dying, or afraid of dying after reading something the found on an obscure website. The worst is when patients that really are sick misdiagnose themselves, choose not to call us, and we end up seeing them after something bad has happened as a consequence of delayed treatment. Having reliable internet resources to share with our patients will make such a difference.” – Melissa Gooley, Nurse Manager

- “This study is very interesting and worthwhile. It is very helpful for us to have a list of reliable internet resources that we can use to help direct patients to so that they can learn more about their conditions and help them look up information after appointments – like which foods are higher in vitamin D, and what we are talking about when we discuss the health implications of diabetes. We spend a good amount of time reassuring patients that they do not have rare diseases and debunking myths that they read about after clicking on a link on Facebook. The more time we can spend actually managing our patients’ health the better off we will be.” – Maurice Racine, MD/Medical Director
Intervention and Methodology:

- In a low socioeconomic farming town at a rural family medicine office in upstate NY, I wanted to find a way to help reduce barriers to healthcare and help patients take an active role in their health using free internet resources. My idea was to help connect patients with reliable health information without needing to travel to the healthcare clinic, understanding that some patients may be limited in their ability to travel, take time off from work or afford the copays/expenses associated with seeing their providers.

- As such, I chose to investigate access to the internet, the ways in which users accessed the health information online, how patients liked to get their health information and their perceived barriers regarding using the internet to find reliable health information.

- 54 patients at the North Country Family Health Center were surveyed. The 7 question surveys were offered to patients in the waiting room over 4 consecutive week days (Tuesday – Friday), with the goal of surveying 40-60 patients.

- The results of the survey were shared with the office, and lead to the production of a 20 page, 4.25in by 5.5in, pamphlet containing numerous internet sources where reliable health information could be found. With the idea that these pamphlets could be handed out to patients to help direct them to reliable websites and used by the staff to help direct patients over the phones.
Results:

**Genders**
- Male: 43%
- Female: 57%

**Ages Range**
- 18-29: 17%
- 30-39: 19%
- 40-49: 18%
- 50-64: 39%
- >64: 7%

**Internet Access**
- Yes; 5 - 7 days per week: 2%
- Yes; 3 - 4 days per week: 5%
- Yes; 1 - 2 days per week: 6%
- No; but plan to get access in the future: 83%
- No; no plans to gain access in the future: 0%

**Device Type Used To Access RHI**
- Desktop Computer: 43%
- Laptop Computer: 48%
- Tablet: 44%
- Smartphone: 67%
- Printed Media (Magazines, News Papers): 9%
- Other: 6%

**Sources of Health Information**
- Doctor Visits: 89%
- Internet Websites: 54%
- Smartphone Apps: 15%
- Television: 24%
- Friends/Family: 43%
- Library: 4%

N=54
Results:

Interest in Informational Packet

- Yes: 46%
- No: 54%

Concerns About Using the Internet to Find RHI

- None: 19%
- 1 or More: 81%

Concerns About Finding Reliable Health Information

<table>
<thead>
<tr>
<th>Concern</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Difficulty finding trustworthy sites</td>
<td>33%</td>
</tr>
<tr>
<td>Concern about misinformation</td>
<td>48%</td>
</tr>
<tr>
<td>Amount of information is overwhelming</td>
<td>24%</td>
</tr>
<tr>
<td>Information is too confusing/hard to understand</td>
<td>13%</td>
</tr>
<tr>
<td>It is easier to just ask your doctor/medical provider</td>
<td>33%</td>
</tr>
<tr>
<td>Information is out of date</td>
<td>26%</td>
</tr>
<tr>
<td>Concerns about being scammed</td>
<td>11%</td>
</tr>
<tr>
<td>Concerns about your privacy</td>
<td>26%</td>
</tr>
<tr>
<td>Concerned about only finding the most serious/fatal diseases</td>
<td>33%</td>
</tr>
<tr>
<td>No concerns regarding accessing reliable health information</td>
<td>10%</td>
</tr>
<tr>
<td>Other</td>
<td>6%</td>
</tr>
</tbody>
</table>
Data and Implications:

- Both male and female genders were adequately represented (57% female).

- Age ranges were disproportionately older, with 39% of respondents 65 years or older, 18% between the ages of 50 to 64, 19% between the ages of 40 to 49, 17% between the ages of 30 to 39, and a mere 7% under the age of 30.

- Somewhat surprisingly, 90% of respondents have access to the internet at least once a week, with 83% having access 5 to 7 days, 2% with access 3 to 4 days, and 5% with access 1 to 2 days per week. 10% or respondents were without access to the internet, and 40% of those without access to the internet were planning to get access in the future.

- Smartphones were the most used device used to access health information (67%), with laptop computers in second place (48%), and with tablets (44%) and desktop computers (43%) coming in at 3rd and 4th. Printed media was the least used source of health information at 9%.

- 90% of patients used their doctor's visits to get health information, using internet websites (54%) as their next most used source of health information with 43% getting information from friends and family. Interestingly, 15% of respondents used smartphone apps as a source of health information, and only 4% of respondents using the library.

- 81% of respondents had at least once concern about using the internet for health information. The biggest concerns regarding using the internet to learn about health information were misinformation (46%), difficulty finding trustworthy websites (33%), concerns about privacy (33%), concerns about being scammed (26%) and being overwhelmed with information (24%).

- Not surprisingly, 41% of respondents felt it was just easier to just ask their doctor or provider than use the internet to find health information.

- Given the above information, it was less surprising that 46% of respondents expressed interest in an informational packet that might include a list of suggested electronic resources which they could use to learn about reliable medical information, to help guide their search.
Effectiveness and Limitations:

- **Effectiveness**: I believe that the survey results offer valuable data regarding internet access, the devices in which patients are using to access the internet, the forms in which patients like to get their health information from, and the fears and desires of patients to have better access to information they can rely on. This information can be used by the office staff to more effectively educate patients about their health and promote the idea of patients taking an active role in their health by being informed. Effectively removing some of the barriers to reliable health information.

- **Limitations** include the number of survey responses (54), the fact that the survey was taken during the summer, which may have impacted the types of patients coming in, the older age of the respondents (57% >50 years of age and 7% <30 years of age). That the survey was carried out over a 4 day period, Tuesday through Friday, between the hours of 7:30 and 7pm, which may have limited respondents who could take time off during the week, missing respondents who were more likely to come to appointments on weekends.
Recommendations and Actions:

■ **Action:** In short, with 90% of surveyed patients responding that they have internet access, 80% responding that they had **1 or more concerns regarding their use of the internet** to find reliable health information, and 46% of surveyed patients responding that they would be interested in an informational packet that included a list of suggested electronic resources which they could use to access reliable medical. 

  - *I decided to produce a 20 page pamphlet covering a broad range of health related topics ranging from mental health, general health, and mobile health, to patient assistance programs to help patients pay for their medications.*

■ **Recommendations for Office:**

  1. Ask patients where they get their healthcare information in a screening question when patients arrive in the practice.

  2. Talk to patients about accessing reliable healthcare information & provide specific information on reliable websites like those found in the information pamphlet that I produced.

  3. Encourage patients to take control of their health by being informed about their health issues. And encourage the use the reliable health websites that you suggest, and share some of their findings when they come in.
References:


