Improving Health Literacy to Reduce Readmissions

Aracely Rosales Chief Content Expert and Multilingual Director Health Literacy Innovations



Improving Health Communication One Word At a Time[™]

Objectives

After this presentation, participants will be able to:

- Define health literacy
- Recognize health literacy's impact readmission
- Recognize health literacy and the Health Literacy Advisor as a solution to improve health communication



Health Literacy Innovations

Mission –

Knowing that "literacy" is the single most important indicator of health outcomes, HLI was founded to create tools to help eliminate medical mistakes and confusion due to low health literacy –

Flagship Product –

The Health Literacy Advisor (HLA), the nation's first interactive health literacy software

program



Goals –

- Streamline the health literacy review process
- Replace inefficiency with technology and knowledge
- Empower communicators with the tools to create, produce, print, display, share, and advertise clear health information
- Improve health care outcomes one word at a time

Health Literacy Innovations

Who We Are

- Health Literacy Advisor™ (English & Spanish)
- Health literacy training and presentations

What We Do

- National Survey of Medicaid Guidelines for Health Literacy
- Health Literacy & Plain
 Language Resource Guide
- Health Literacy Innovations Newsletter



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Introducing Health Literacy



Imagine...

In an emergency room patients may be asked to sign this:

CONSENT FOR TREATMENT, RELEASES, ACKNOWLEDGEMENT AND FINANCIAL AGREEMENT

GENERAL CONSENT FOR TREATMENT. VOLUNTARY CONSENT TO AUTHORIZE SUCH CARE AND TREATMENTS, INCLUDING BUT NOT LIMITED TO PHYSICAL OR MENTAL EXAMINATION, DIAGNOSITIC TESTS, MEDICAL PROCEDURES AND MEDICATION (TREATMENTS) BY EMPLOYEES AND AUTHORIZED AGENTS OF NAME CHANGED HOSPITAL "HOSPTIAL) AS MAY BE CONSIDERED NECESSARY OR ADVISABLE IN THEIR PROFESSIONAL JUDGEMENT, AND MAY INCLUDE THE DRAWING AND TESTING FOR HIV (THE VIRUS THAT CAUSES AIDS) AND OTHER BLOOD BORNE DISEASES. I FURTHER ACKNOWLEGE THAT NO GUARANTEES HAVE BEEN MADE REGARDING THE EFFECT OF SUCH TREATMENTS ON ANY MEDICAL CONDITION

> Actual informed consent from Washington, DC-based teaching hospital Readability Grade Level: College



Or At Home, Understand This...

R Local Pharmacy 123 MAIN STREET ANYTOWN, USA 11111 (800) 555-5555	
DR C. JONES	
NO 0068223-08291 DATE 06-23-09	
JANE SMITH 456 MAIN STREET ANYTOWN, US 11111	
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USE BEFORE 06/23/12 SLF/SLF	

But patients in a study were given five pill bottles with instructions on the label. When asked how they would take the medicine,

nearly 50% did not understand at least one of the labels,
 and even among those with adequate literacy, more than 1/3 missed at least one.



For Many Americans, Understanding Health Information Might be Clear and Easy to Understand -

-- Yet for the 77 million Americans with low literacy – who read below the 8th-grade level – health information may appear as:

tuohtiw a llew dengised dna ylreporp detenmelpmi margorp, ruoy stneilc yam eviecer etauqedani noitcetorp fo evitisnes ssenisub secruoser, hcihw thgim tsac na elbarovafnu thgil no eht esabatad ngised ssecorp nihtiw ruoy ynapmoc.



What is Health Literacy?

Defining Health Literacy

"The degree to which individuals have the capacity to obtain, process, and understand basic health information and services needed to make appropriate health decisions."

-- Healthy People 2010



In Plain English

An individual's ability to understand <u>and</u> act on health information.







Literacy

"Using print and written information to function in society, to achieve one's goals, and to develop one's knowledge and potential."

-- 2003 National Adult Literacy Survey



NAAL's Health Literacy Tasks

Tasks organized around three domains:

- <u>Clinical</u>: Filling out a patient form
- <u>Prevention</u>: Following guidelines for age-appropriate preventive health services
- <u>Navigation of the health care system</u>: Understanding what a health insurance plan will pay for



NAAL's Categories

- Proficient: Can perform complex and challenging literacy activities
- Intermediate: Can perform moderately challenging literacy activities
- <u>Basic</u>: Can perform simple everyday literacy activities
- <u>Below Basic</u>: Can perform no more than the most simple and concrete literacy activities
- <u>Nonliterate in English</u>: Unable to complete a minimum number of screening tasks or could not be tested because did not speak English or Spanish



Results - Health Literacy in the U.S.

14

77 million adults have basic or below health literacy skills





Most folks described themselves as being able to read very well!





The Challenge

- Even though the research reveals that few Americans can read, act, or understand their health information, we are slow to respond --
 - 30 million Americans have a reading level of 5th grade or below
 - The average reading level of health communications materials created by the health industry is at 10th grade



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The Impact of Low Health Literacy



Why?

Is Health Literacy So Important?

- When consumers cannot read, understand or act on their health care information, they cannot . . .
 - follow directions
 - fill out or complete forms
 - share personal and health information with providers
 - act on health-related news and announcements
 - navigate the health system and get needed services
 - find and locate providers and services



Health Literacy and Health Care Costs

Annual Healthcare Costs of Medicaid Enrollees







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Low Health Literacy's Impact on Readmissions



Health Literacy Linked to Readmissions

- Residents recognized low literacy as a potential factor in patient nonadherence and hospital readmission
- Residents found that low literacy is associated with:
 - poor self-management of disease
 - increased hospitalization/readmissions



Source: Journal of General Internal Medicine are provided here courtesy of Society of General, Caroline K Powell, MD1 and Sunil Kripalani, MD, MSc2



Patients with Low Literacy are More Likely to be Hospitalized



Source: Baker, Parker, Williams, et al. *JGIM* 1999



Addressing Health Literacy Delays Readmission

- Hospital study (136 congestive heart failure patient) finds:
- Patients recall and comprehend less than half of what clinicians explain to them
- Fewer than half understand written medication instructions
- Improving health communication delays readmissions



Source: Advance for Nurses: National News, Health Literacy Effectively Delays Readmissions, Hospital Study Finds, Posted

Addressing Health Literacy Delays Readmission

Another hospital study with patients with heart failure finds:

HF patients with inadequate health literacy are:
 at increased risk for poor self-care
 negative health outcomes such as hospital readmission

Source: *Journal of Cardiovascular Nursing,* Dennison, et al, September/October 2011, Volume 26 Number 5, Pages 359 - 367



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People with Low Health Literacy Have

Poorer Health Status

- Higher health care usage:
 - More preventable hospital visits/readmissions
 - Greater use of the ER
- Are at greater risk of misunderstanding treatment recommendations and discharge instructions
- Have problems in accurately taking prescription medications

Die earlier

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Health Literacy and Diabetes Management

- Need to Know:
 symptoms of low blood sugar (hypoglycemia)
- Need to Do:
 - correct action for hypoglycemic symptoms



Percent of patients with diabetes correctly answering questions according to literacy level (low, moderate,

high)

Source: Williams, et al (1998). Arch Int Med.



Health literacy and Discharge Instructions

A hospital study with 217 patients discharged from the ED

Patients were interviewed after discharge and asked to state their diagnosis, medication instructions, and follow-up instructions
 Patients were administered a standardized test of reading ability

Results:

The ED's printed discharge instructions were written at an 11th-grade reading level.

23% of patients exhibited no understanding of at least one component of their discharge instructions

The mean reading ability of the patients was at the sixth-grade level

Patients with low literacy scores were more likely to have poor comprehension of instructions.

Copyright © Health Literacy All Rights Reserved Innovations Strategies to Improve Health Literacy



Strategies to Improve Health Literacy

- Understand the Population at Risk
- Improve Usability of Health Services
- Use User-Friendly Materials
- Advocate for Health Literacy Improvement



Use User-Friendly Materials

Improve information for consumers

- 1. Assess materials
- 2. Use plain language
- 3. Review for health literacy
- 4. Limit information (3-5 key points)
- 5. Measure readability of documents
- 6. Document scores to prove easy to read
- 7. Use easy-to-read layout





Why prevent readmissions?

"The safety of patients cannot be assured without mitigating the negative effects of low health literacy and ineffective communication on patient care."

The Joint Commission



Source: "What did the Doctor Say?:" Improving Health Literacy To Protect Patient Safety. The Joint Commission (2007).

A Solution







What Does the Health Literacy Advisor Do?

Features:

- Scan and highlight hard to read words by health and non-health
- Identifies long sentences
- Finds multiple syllable words
- Search and replace difficult terms and offers for plain language alternatives
- Calculate readability
- Sets grade level and desired reading level
- Offers Reads Stamp
- Create detailed reports

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The Health Literacy Advisor Helps You To:

- Be More Productive
 - Apply technology to streamline the health literacy review process
 - Choose from one of nine different readability formulas
 - Assess readability in seconds
 - Use 12,000 "ready-made" plain language alternatives
 - Use a 15-page Style Guide on design and layout



Starting the Health Literacy Review Process: The Health Literacy Advisor



http://www.healthliteracyinnovations.com/home


New Features

37

 Rewards users for achieving the industry gold standard for health literacy – a 6th grade reading level – with a Reads Easy Stamp.



Scans text in boxes- forms and surveys

Highlight long sentences



The Benefits of Using The Health Literacy Advisor

- It saves time calculating the reading level of documents
- Stamps documents with scores, date, time, and name of readability indices used
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Conclusion

Summary

- Low health literacy (LHL) is prevalent
- LHL leads to:
 - Lower health knowledge and less healthy behaviors
 - Greater health costs
 - Poorer health outcomes
- Health literacy can predict health status
- Strategies may be used to address LHI



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Starting the Health Literacy Review Process: The Health Literacy Advisor

Reducing your chance of getting a myocardial infarction

You can reduce your chance of getting a heart attack. Read this page to learn how. Share what you discover with your family.

Risk factors you are born with

Our Sample Document

There are genetic factors that raise the possibility of having cardiac problems. These are factors that cannot be changed. But, you can lower your chance of myocardial infarction by going to your physician for physical examinations, getting needed laboratory tests, and making small changes in your life.

People with parents who have or had hypertension and hyperlipidemia have genetic factors. People with parents who had heart problems before age 55 and type 1 diabetes can have factors that put them at greater risk. There are also risk factors that you get over your lifetime. These are caused by things that you do. These are things that can change through letting go of old habits and starting and keeping new habits that are better for your health, such as giving up smoking, getting more exercise, and getting medical attention.

Risk factors you get over time

Acquired risk factors are health conditions you get over time. People with hypertension and hyperlipidemia are at greater risk of cardiac problems. People who are smokers, very stressed and who drink excessive amounts of alcohol have a significant chance of having







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in that happen in the center of the chest. It last for more than a few minutes. The pain most en feels like uncomfortable pressure. The person can also feel pain in other areas that inclu

Scan & Highlight

About Wyocardial Interction



About Wyocardial Interction



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Difficult Health Terms ...

Risk factors you get over time

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Know the symptoms of heart attack

People must know about the symptoms of myocardial infarction. The person can suffer chest pain that happen in the center of the chest. It last for more than a few minutes. The pain most often feels like uncomfortable pressure. The person can also feel pain in other areas that include one or both arms, the back or neck. Some people also feel dyspnea and chest pain that rises in



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Risk factors you get over time

or Other Multi-Syllable Words

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About wyocardial interction



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Risk factors you are born with

The End Result

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People with parents who have or had high blood pressure and high blood cholesterol have inborn factors. People with parents who had heart problems before age 55 and type 1 diabetes can have factors that put them at greater risk. There are also risk factors that you get over your lifetime. These are caused by things that you do. These are things that can change through lifestyle changes and getting health care.

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