Health Literacy & Plain Language

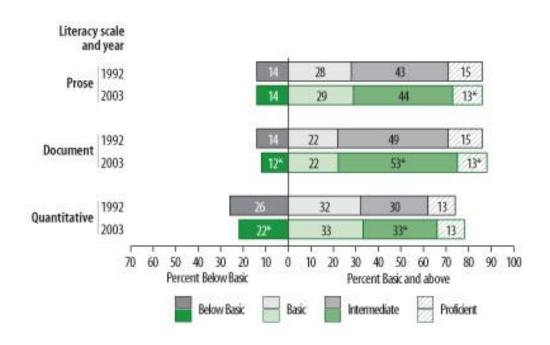
Sabrina Kurtz-Rossi, M.Ed.

Director, Health Literacy Leadership Institute
Tufts University School of Medicine

Literacy is Contextual

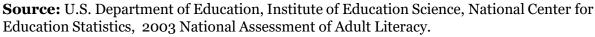


National Assessment of Adult Literacy (NAAL)



Percent of adults scoring Below Basic, Basic, Intermediate, and Proficient: 1992 and 2003

- 14% Below Basic (30 million)
- 29% *Basic* (63 million)
- 44% *Intermediate* (95 million)
- 13% *Proficient* (23 million)



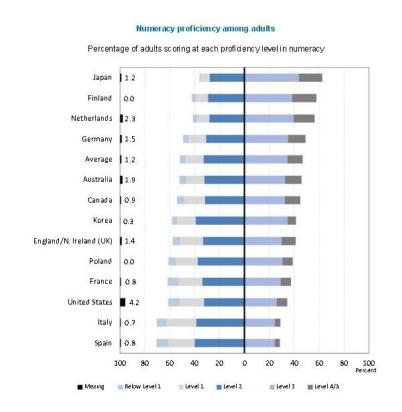


Program for International Assessment of Adult Competencies (PIAAC)

2012 Survey of Adult Literacy Country Specific Results

United States

- Larger proportions of adults in US than in other countries have poor literacy and numeracy skills
- Socio economic factors have strong impact on adult literacy
- Literacy skills are linked to employment outcomes as well as personal and social well-being



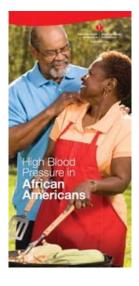
Source: Goodman, M. et al. (2013). Literacy, Numeracy, and Problem Solving in Technology-Rich Environments Among U.S. Adults: Results of the Program for the International Assessment of Adult Competencies 2012: First Look. U.S. Department of Education, Washington, DC: National Center for Education Statistics. Retried 1.9.13 from http://nces.ed.gov/pubsearch.



What are the literacy demands in health and healthcare?









	S South Wing 👈	
	Pilot Wing 👈	
ou are now on Ground Floor	West Wing	
Accident & Emergency Ground Floor - North Wing Admissions Ground Floor - South Wing	Radiotherapy Ground Floor - East Wing Renal Ward / Surgery Floor 1 Restaurant, Margravine Floor 2 Rheumatology Ground Floor - East Wing	
Assistive Communications Service (ACS) Floor 2 Audiology Floor 1	Security Ground Floor - West Wing Shops Ground Floor - West Wing	
Boardroom Ground Floor - South Wing Cardiology Floor 5 Coronary Care Unit (CCU) Floor 5 Care for the Elderly Floor 1 Coffee Shop/Cafe Floor 1	Snoja Oscor John Stories Social Work Floor 2 Speech & Language Therapy Floor 2 Surgery / Renal Ward Floor 1 Surgery Office Floor 8 Surgical Outpatients Floor 4 X-ray (Imaging) Floor 1	
Diabetes Offices Floor 9 Diabetes Day Centre Floor 9 EH & F MH NHS Trust Floor 3 & 4 EMIT Unit Floor 1 Endocrinology Offices Floor 9	WARDS Marshall Keetley Ward Floor 9 Medical Admissions Ward Floor 9 Ward 4 South - Vascular Surgery Floor 4	





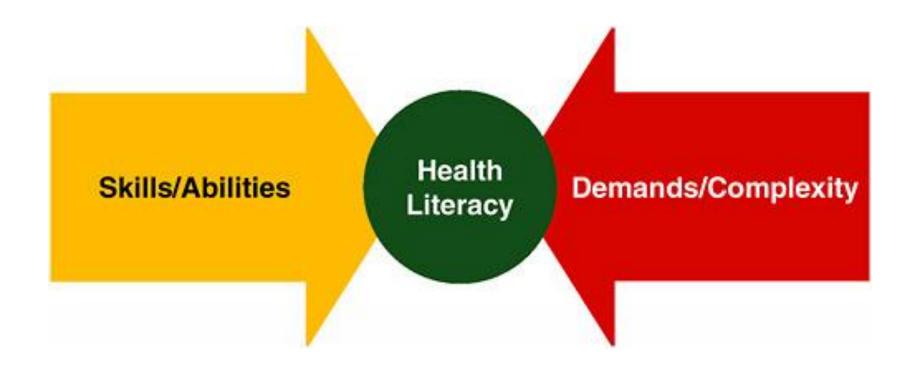
Most Cited Definition

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 (DHHS, 2000)

Source: Department of Health and Human Services (2000). Healthy People 2010. Washington, DC: U.S. Government Printing Office. Originally developed by SC Ratzan & RM Parker (Eds.), National Library of Medicine Bibliographies in Medicine: Health Literacy. NLM Pub. No. CBM 2000-1. Bethesda, MD: National Institutes Of Health, U.S. Department of Health and Human Services.



Health Literacy A Two-way Street

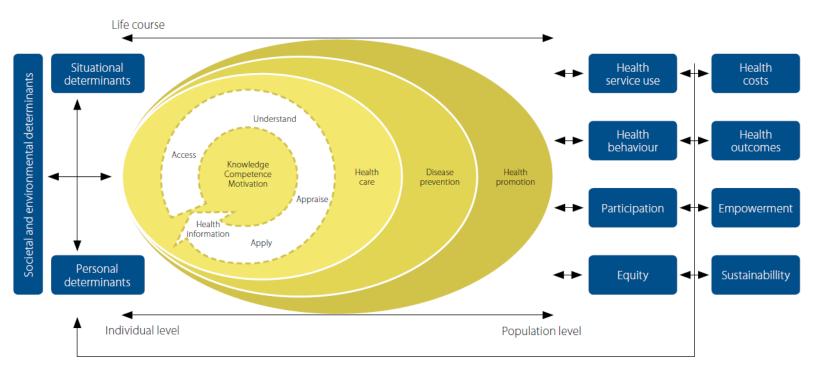


Source: Institute of Medicine (US) Roundtable on Health Literacy. Measures of Health Literacy: Workshop Summary. Washington (DC): National Academies Press (US); 2009. 6, Measuring Health Literacy: What? So What? Now What? Available from: https://www.ncbi.nlm.nih.gov/books/NBK45386/



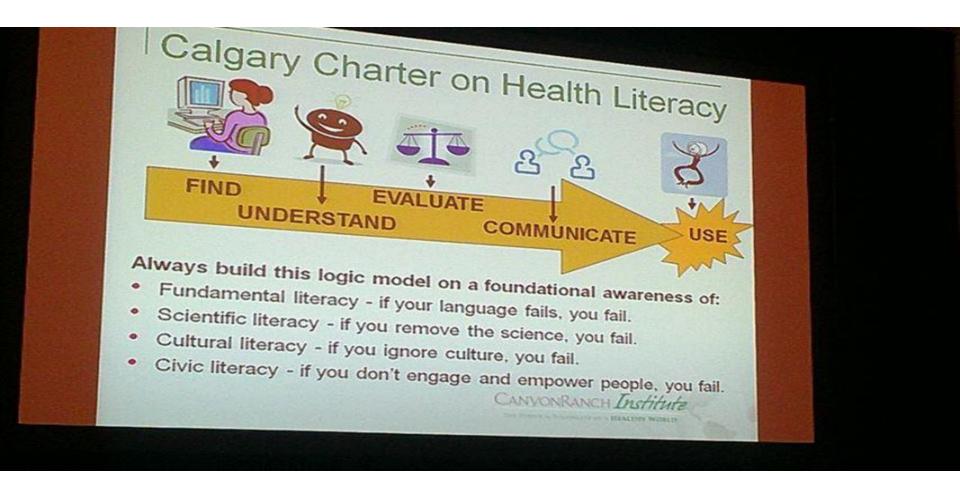
Expanded Model

Fig. 2. Conceptual model of health literacy of the European Health Literacy Survey



Source: adapted from: Sørensen K et al. Health literacy and public health: a systematic review and integration of definitions and models. BMC Public Health, 2012, 12:80.

Health Literacy Skills



Source: The Calgary Charter as a framework for health literacy curriculum development and evaluation. Presented by Andrew Pleasant at the 2013 IHA Health Literacy Conference in Irvine, CA. May 2013.

Domains of Health Literacy (Nutbeam 2001)

- Functional health literacy basic skills in reading and writing to function effectively in everyday situations
- Interactive health literacy more advanced skills to derive meaning and apply to changing circumstance
- Critical health literacy cognitive and social skills to critically analyze and use information for change



At First Glance – Readability

- Numerous studies show readability of health materials far exceed skills of patients
- Studies of Web-based health information show similar results







Measuring Health Literacy

The Newest Vital Signs

1/2 cup 4
Fat Cal 120
%DV
20%
40%
12%
2%
12%
8%

lower depending on your calorie needs.

Ingredients: Cream, Skim Milk, Liquid Sugar, Water, Egg Yolks, Brown Sugar, Milkfat, Peanut Oil, Sugar, Butter, Salt, Carrageenan, Vanilla Extract.

- Test of Functional Health Literacy in Adults (TOFHLA)
- Rapid Estimate of Adult Literacy in Medicine (REALM)

Source: Haun JN, Valerio MA, McCormack LA, Sorensen K, Paasche-Orlow M. Health Literacy Measurement: An Inventory and Descriptive Summary of 51 Instruments. *J Health Comm.* 2014;19(sup2): 301-333.



Measuring Health Literacy



http://healthliteracy.bu.edu/

Source: Haun JN, Valerio MA, McCormack LA, Sorensen K, Paasche-Orlow M. Health Literacy Measurement: An Inventory and Descriptive Summary of 51 Instruments. *J Health Comm.* 2014;19(sup2): 301-333.



Affects on Health Outcomes

Low health literacy is linked to...

- Under-utilization of services
- Increased medication errors
- Poor knowledge about health
- Increased hospitalizations
- Poor health outcomes
- Increased healthcare costs



Source: Berkman N, Sheridan S, Donahue K, et al. Health Literacy Interventions and Outcomes: An Updated Systematic Review. Evidence Report/Technical Assessment No. 199. Prepared by RTI International-University of North Carolina Evidence-based Practice Center under contract No. 290-2007-10056-1. AHRQ Publication Number 11-E006. Rockville, MD. Agency for Healthcare Research and Quality. 2011.

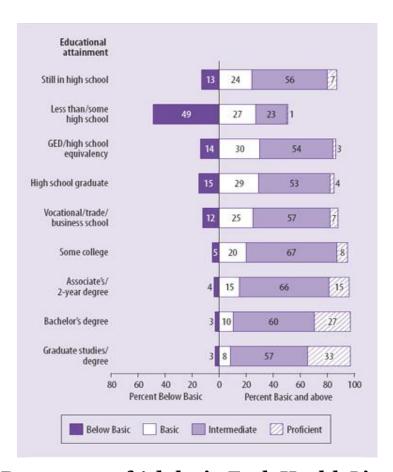


Activity Discuss in pairs

What are the challenges your patients or clients have understanding health information?



Who is at Risk? Less Educated



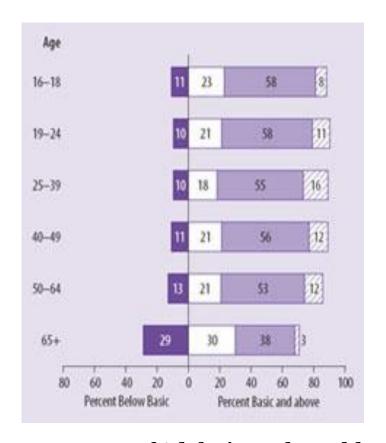
 Nearly 50% of adults with less than a high school diploma had Below Basic health literacy

Source: U.S. Department of Education, Institute of Education Science, National Center for Education Statistics, 2003 National Assessment of Adult Literacy. http://nces.ed.gov/naal/health-results.asp

Percentage of Adults in Each Health Literacy Level by Highest Educational Attainment



Who is at Risk? Older Adults



Percentage of Adults in Each Health Literacy Level by Age

 Adults in the oldest age group – age 65 and older – had lower health literacy than adults in the younger age groups

Source: U.S. Department of Education, Institute of Education Science, National Center for Education Statistics, 2003 National Assessment of Adult Literacy. http://nces.ed.gov/naal/health_results.asp



Health Literacy and Health Equity

Percentage of Whites in each literacy level	Percentage of Blacks in each literacy level	Percentage of Hispanics each literacy level
Below basic: 9%	Below basic: 24%	Below basic: 41%
Basic: 19%	Basic: 34%	Basic: 25%
Intermediate: 58%	Intermediate: 41%	Intermediate: 31%
Proficient: 14%	Proficient: 2%	Proficient: 4%

Source: U.S. Department of Education, Institute of Education Science, National Center for Education Statistics, 2003 National Assessment of Adult Literacy. http://nces.ed.gov/naal/health-results.asp



Who is at Risk? Everyone



Cindy Marks



Maria Rodriquez



Joseph Morton



Sabrina Kurtz-Rossi

In health care a high level of health literacy is expected and often assumed



What Are We Doing About It?

- Reduce barriers, create health literate organizations and systems
- Increase the health literacy on individuals, families and communities
- Create policies to promote population health literacy

Source: Berkman N, Sheridan S, Donahue K, et al. Health Literacy Interventions and Outcomes: An Updated Systematic Review. Evidence Report/Technical Assessment No. 199. Prepared by RTI International-University of North Carolina Evidence-based Practice Center under contract No. 290-2007-10056-1. AHRQ Publication Number 11-E006. Rockville, MD. Agency for Healthcare Research and Quality. 2011.



Health Literacy Policy

- Plain Language Writing Act (2010)
- Affordable Care Act (DHHS, 2010))



- Services Standards (OMH 2013)
- Shanghai Declaration on health literacy and sustainable development (WHO 2016)



Health Literacy and Adult Education



English language learners working on a cancer health literacy curriculum

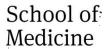
Source: Santos MG, Handley MA, Omark K, and Schillinger D. ESL Participation as a Mechanism for Advancing Health Literacy in Immigrant Communities. *J Health Comm.* 2015;19(sup2):89-105.



Attributes of a Health Literate Organization

- 1. Has **leadership** that makes health literacy integral to its mission structure and operation
- 2. Integrates health literacy into planning, evaluation, patient safety and quality improvement
- 3. Prepares the workforce to be health literate and monitors progress
- 4. Includes **populations served** in the design, implementation and evaluation of health information and services
- 5. Meets need of populations with a range of health literacy skills while avoiding stigmatization
- 6. Uses health literacy strategies in interpersonal communication and confirms understanding at all points of contact
- 7. Provide easy access to health information and services and **navigation assistance**.
- 8. Designs and distributes print, audiovisual, and social media content that is easy to understand and act on
- 9. Addresses health literacy in high-risk situations, including care transitions and communications about medicine
- 10. Communicates clearly what **health plans** cover and what individuals with have to pay for services.

Source: Institute of Medicine Roundtable on Health Literacy. Attributes of a Health Literate Organization http://iom.edu/~/media/Files/Perspectives-Files/2012/Discussion-Papers/BPH Ten HLit Attributes.pdf



Create a Shame-free Environment



Questions are the Answer www.ahrq.gov/QuestionsAreTheAnswer

Encourage questions

- What is the problem?
- What do I need to do?

Engage all staff

- Front desk
- Medical Assistants
- House Keeping

Source: American Medical Association Foundation and American Medical Association. *Health Literacy and Patient Safety: Help Patients Understand.* Chicago, IL: American Medical Association; 2007.



Avoid Jargon

<u>Jargon</u> <u>"Living room" language</u>

Diagnosis..... Cause of your illness

Anti-inflammatory...... Lowers fever and swelling

Nasal congestion...... Stuffy nose

Lesion...... Wound, sore, cut

Risk factor...... Will increase your chance ...



Check for Understanding





Source: American Medical Association Foundation and American Medical Association. *Health Literacy and Patient Safety: Help Patients Understand.* Chicago, IL: American Medical Association; 2007.



Provide Language Assistance

- Interpreter services
- Translation of materials



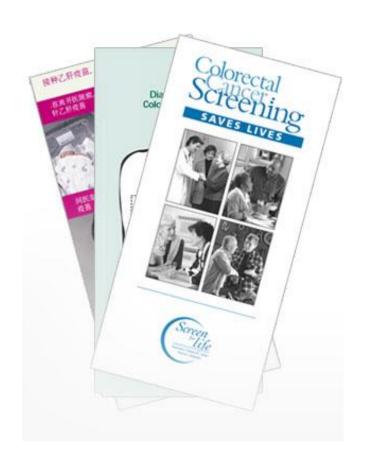
Communicating Effectively Through an Interpreter Kaiser Permanente



Birth control methods brochures in five languages. Action for Boston Community Development (ABCD)



Plain Language: A Strategic Response



- Communicate in everyday language
- Use images that are relevant to your audience
- Limit information to need to know
- Break complex information into chunks

Source: Stableford S, Mettger W. (2007). Plain Language: A Strategic Response to the Health Literacy Challenge. *Journal of Public Health Policy*. 28:71-93.



Key Points

- Low health literacy is linked to poor health outcomes and increased costs
- Health literacy is a health equity issue
- Interventions aim to build skills AND reduce complexity
- Use plain language as a strategic response

