Health literacy & your patient's health outcomes

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Today's objectives:

Describe factors affecting patients literacy levels

Discuss the importance of literacy in attaining compliance with infection prevention processes

Share an example of transforming instructions written at a high school level to a 4 – 5th grade level.

What is health literacy?

Health literacy:

- The ability to obtain, process, and understand basic health information and services to make appropriate health decisions
- The skills necessary for an individual to participate in the health care system and maintain good health (reading, writing, calculating numbers, communicating and using health technology).

Quick look at literacy statistics

National Assessment of Adult Literacy (NAAL) 2003 Literacy level percent of the adult US population:

- Proficient 12%
- Intermediate 53%
- Basic 21%
- Below basic 14%
- Over a third of U.S. adults—77 million people—would have difficulty with common health tasks, such as following directions on a prescription drug label or adhering to a childhood immunization schedule using a standard chart.

http://health.gov/communication/literacy/issuebrief/#top

Bringing low literacy alive

- Parkland 1998 Reading Study incident re appointment dates
- Pam's story re 'non-resectable malignancy'
- CH (CMC) nurse story about timing of feeding for infant
- Pastoral care incident re 'resusitative efforts'

Factors affecting patient's literacy levels:

Age

- Adults 65 or older were more likely to have below basic or basic health literacy skills than those under 65.
- Age had relatively little relationship to health literacy among adults who were under 65 years of age.
- For those over 75 years of age, more than two-thirds had below basic or basic health literacy

Factors affecting patient's literacy levels:

Education

While health literacy increased with higher educational attainment, 44 percent of high school graduates and 12 percent of college graduates had below basic or basic health literacy.

Education	Proficient	Intermediate	Basic	Below basic
Less than high school	1%	23%	27%	49%
High school grad/GED	3%	53%	29%	15%
Other college attendance or degree	10%	65%	19%	6%
Bachelor's degree or higher	30%	58%	9%	3%

Factors affecting patient's literacy levels:

Ethnicity

Ethnic group	Proficient	Intermediate	Basic	Below basic
White	14%	58%	19%	9%
Black	2%	41%	33%	24%
Hispanic	4%	31%	24%	41%
Other	12%	54%	21%	13%

Factors affecting patient's literacy levels:

Insurance source

 Well over half of uninsured persons, Medicare beneficiaries, and Medicaid beneficiaries have basic or below basic health literacy.

Insurance source	Proficient	Intermediate	Basic	Below basic
Employer	14%	62%	17%	7%
Private	9%	54%	24%	13%
Medicare	3%	40%	30%	27%
Medicaid	3%	37%	30%	30%
No insurance	6%	41%	25%	28%

Factors affecting patient's literacy levels:

Income

- Based on the NAAL research, adults living below the poverty level have lower average health literacy than adults living above the poverty threshold.
- In adults who receive Medicaid, 30% have "Below Basic" health literacy.

http://nnlm.gov/outreach/consumer/hlthlit.html

Health information sources:

- Sixty two percent of adults with proficient health literacy use the Internet 'some' or 'a lot' for health information
- Adults in the below basic level rarely use digital resources for health information.
- Adults at the below basic level were the least likely to use any written material to obtain information on health topics.
- For all levels, no single type of print materials was as important as non-print sources, including broadcast media such as radio or television.
- Information from health professionals was one of the most important sources of information on health topics for all health literacy levels.

And, remember:

- Health literacy depends on the context. Even people with strong literacy skills can face health literacy challenges, such as when:
 - They are not familiar with medical terms or how their bodies work.
 - They have to interpret numbers or risks to make a health care decision.
 - They are diagnosed with a serious illness and are scared or confused.
 - They have complex conditions that require complicated self-care.

Key IP patient concerns:

- Reading and following through on isolation signs
- Follow through with instructions, treatments and precautions re protecting self, family or the public
- Taking medicines
- Understanding disease transmission
- Reporting key information to the healthcare professional in a timely way

Low literacy: impact on health care & IP

- Enter the healthcare system sicker
- Increased hospitalizations, longer stays
- Greater ER use
- Lower use of preventive services (mammography, flu shots, immunizations, well visits)
- More likely to have chronic conditions
- Ineffective use of prescriptions

Low literacy: impact on health care & IP

- Misunderstanding of treatment plans
- Poorer ability to demonstrate medication taking
- Poorer ability to interpret labels and health messages
- Physical navigation
- Completing forms registration, questionnaires, consents

Low literacy: impact on health care & IP

- Difficulty with basic written directions and numerical information
- Regulatory information rights & responsibilities
- Shame avoid healthcare system, hide lack of comprehension, don't ask questions
- Increased morbidity and mortality
- Increased health care costs at all levels

Low literacy: impact on health care & IP References: http://www.agingsociety.org/agingsociety/publications/fact/fact_low.html http://health.gov/communication/literacy/quickguide/factsliteracy.htm http://archive.ahrq.gov/clinic/epcsums/litsum.htm http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1492599/ http://www.medscape.com/viewarticle/739582_2 http://www.cecity.com/ncpa/2012_projects/health_literacy/article.htm

Bringing low literacy alive • Parkland ED story re diabetic patient • Physician story re 'pushing fluids'

What to do

- Assume low literacy unless you know otherwise for sure
- Speak slowly
- Use common words, examples, visuals
- Focus on what to do, not the microbiology
- Simple handouts specifically formulated

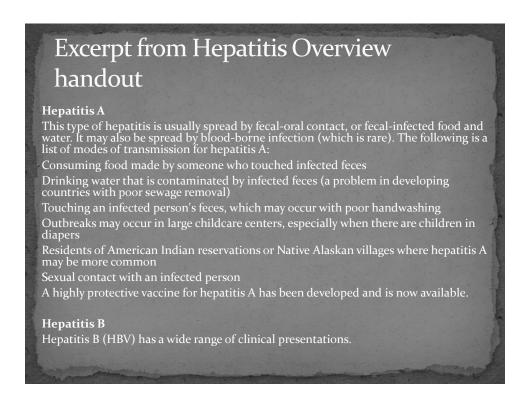
What to do

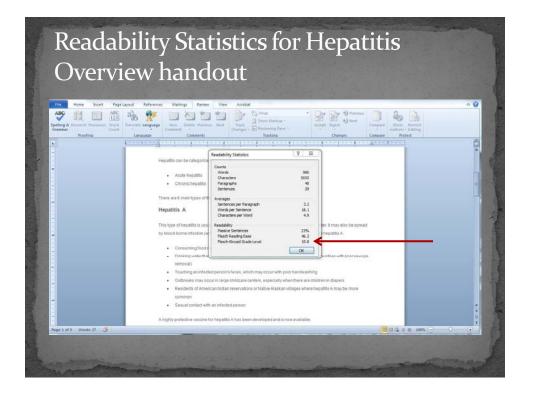
- Low literacy videos
- Teach-back evaluation method
- Involve family, friends prn
- Push for better med labelling (simple words, explicit instructions)
- Electronic healthcare games and engagement with social media platforms

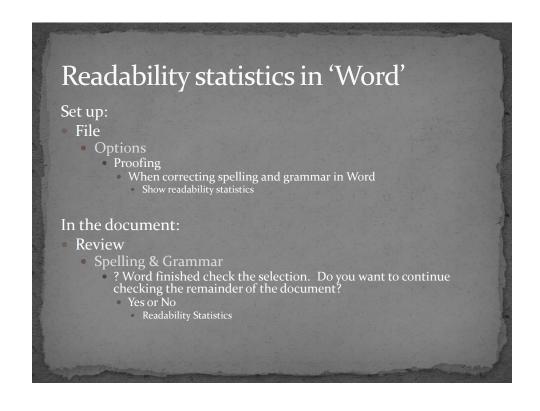
(http://www.sciencedirect.com/science/article/pii/S0195670115000614)

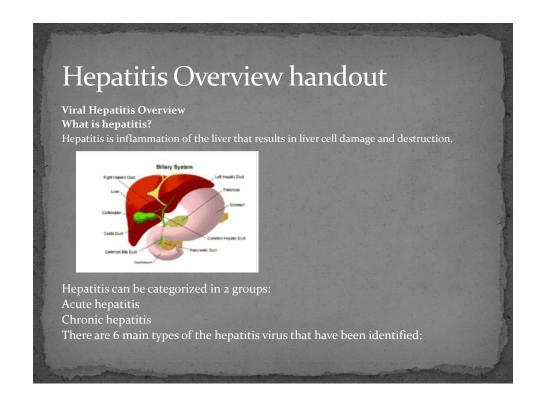
Word list Instead of: Use • Tell your . . . Notify your . . . Germs Organisms • Wash your hands Hand hygiene Use degermer Hand hygiene Isolation Keep away from others Pass the germ to others Contagious Touch/touching Contact Usual meds won't cure Resistant Medication Medicine Malignancy Cancer

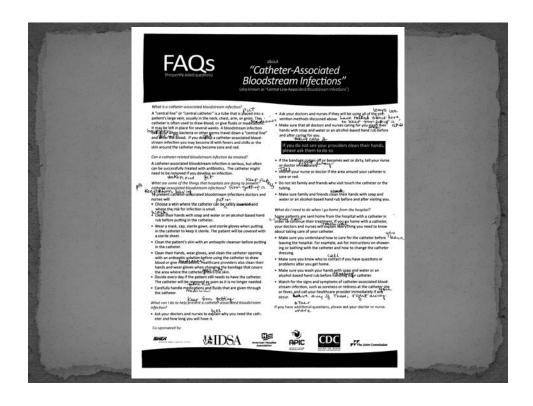
Let's look at some handouts Hepatitis Overview handout from http://healthinfo.spectrumhealth.org/Library/Encyclopedia/85,Poo395

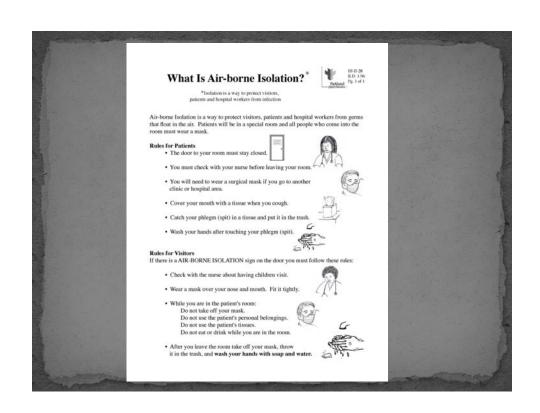


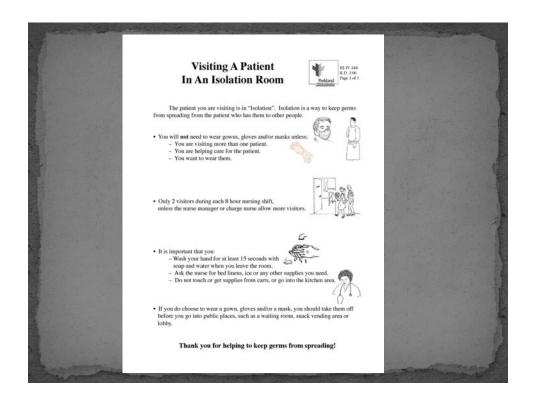












Take away points:

- Talk and teach as if your patient has low literacy skills until/unless you know otherwise for sure!
- Use teaching techniques that optimize learning in patients with low health literacy
- Know what to look for in handouts formatted for low literacy patients and choose these
- Evaluate patient learning: use the teach-back method, return demonstration. Re-teach prn