Health Literacy: A Cancer Communication Research Agenda

Satellite Conference and Live Webcast Tuesday, June 1, 2010 12:00 – 2:00 pm Central Time

Produced by the Alabama Department of Public Health Video Communications and Distance Learning Division

Faculty

Michael S. Wolf, PhD, MPH Associate Professor, Medicine & Learning Sciences Associate Division Chief, General Internal Medicine Feinberg School of Medicine Northwestern University Chicago, Illinois



Disclosures

- Research funding
 - National Institutes of Health (NCI, NHLBI, NIA)
 - Agency for Healthcare Research and Quality (AHRQ)
 - Missouri Foundation For Health
 - California Endowment
 - Foundation for Informed Medical Decision Making
 - Industry (McNeil, Abbott, Pfizer)

Acknowledgements

- Northwestern
 - David Baker, MD, MPH
 - Stacy Cooper Bailey, MPH
 - -Laura Curtis, MS
 - Joe Feinglass, PhD
 - Darren Kaiser
 - Anjali Pandit, MPH

Acknowledgements

- Emory
 - -Ruth Parker, MD
 - Kara Jacobson, MPH
- LSUHSC
 - Terry Davis, PhD



Acknowledgements

• Harvard

-Will Shrank, MD, MSHS

- UConn/St. Francis
- Greg Makoul, PhD

 Community partners



- JoAnn Pearson Knox
- Pear Moraras
- -Mickey Eder, PhD

- Linking medicine to
 - Cognitive Psychology
 - Communication Science
 - Human Factors/Engineering
 - Learning Sciences/ Education
 - Marketing/Management
 - Neuropsychology
 - Public Health



Understanding and Promoting Health Literacy

- Help patients and families
 - -<u>Understand</u> their health & healthcare
 - -<u>Translate</u> knowledge to recommended actions
 - <u>Apply</u> problem-solving skills to new situations

Understanding and Promoting Health Literacy

- <u>Foster</u> ongoing health learning opportunities
- -Instill health-promoting attitudes

Overview

- Health literacy defined
- A cognitive factors perspective
- Owning the problem
 - -It's us, not you
- Practical solutions
- Looking forward

Literacy and Health Literacy

- Functional literacy
 - The ability to read, write and speak in English, and compute and solve problems at levels of proficiency necessary to function on the job and in society, to achieve one's goals, and develop one's knowledge and potential

- National Adult Literacy Act of 1991

Literacy and Health Literacy

- Health literacy
 - The capacity to obtain, process, and understand basic health information and services needed to make appropriate health decisions

- Institute of Medicine, 2004

Literacy and Health Literacy

- Functional literacy
 - The ability to read, write and speak in English, and compute and solve problems at levels of proficiency necessary to function on the job and in society, to achieve one's goals, and develop one's knowledge and potential

National Adult Literacy Act of 1991

Health Literacy > Reading

Health Literacy: What We Know

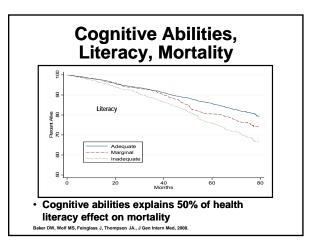
- Use of preventive services
- Delayed diagnoses (prostate cancer)
- Understanding of medical condition
- Adherence to medical instructions
- · Self-management skills
- Risk of hospitalization
- Physical and mental health
- Mortality risk

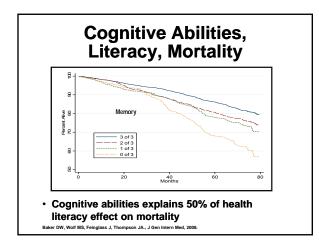
Cognitive Function: What We Know

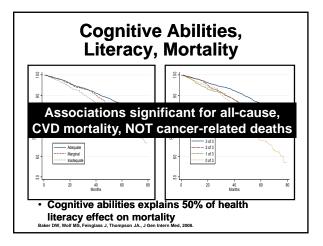
- Use of preventive services
- Understanding of medical condition
- Adherence to medical instructions
- Self-management skills
- Physical and mental health
- Mortality risk

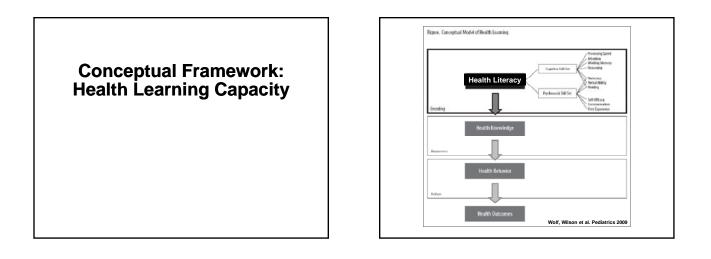
What We Know: Similarities

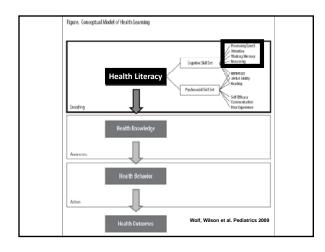
- Use of preventive services
- Understanding of medical condition
- Adherence to medical instructions
- Self-management skills
- Physical and mental health
- Mortality risk

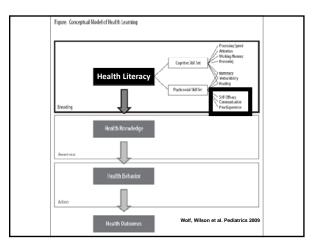


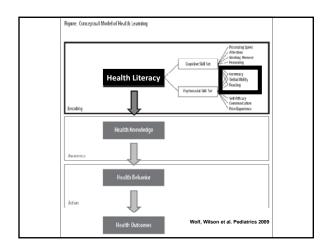


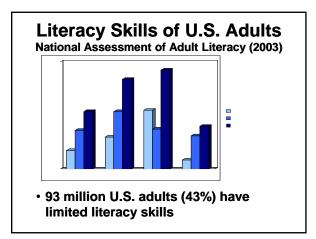


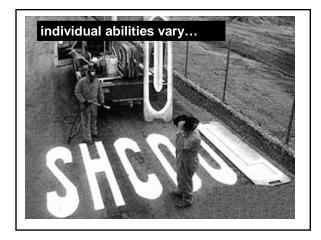




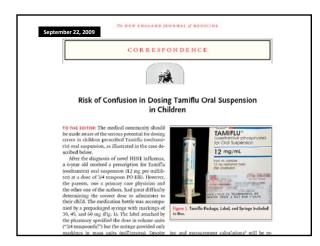




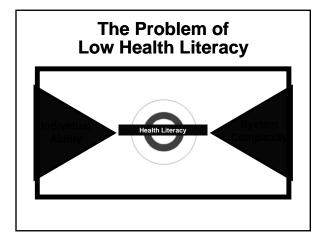


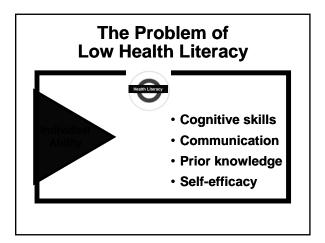


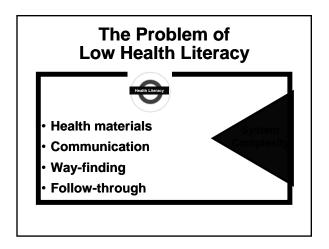


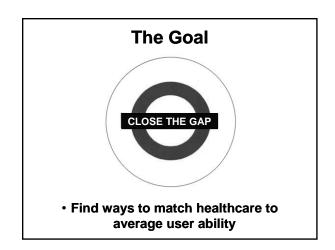












Health Literacy Targets Individual skills – improve learning & retention Health materials – examine modality, improve design Clinician skills – consider

- Clinician skills consider communication strategies
- Health system design human factors



Pathways in Prostate Ca.

- 2 studies (Bennett et al. J Clin Oncol, 1998; Wolf et al. Urology, 2006) highlight delays in screening/dx
- Problems also suggested in decision making process (McCaffrey et al., Med Decision Making 2009)

In Treatment: The Case of Cancer Meds

- Increasing number of solid pill-form cancer meds
 - 1 in 4 cancer drugs under development are oral meds
- Chemotherapies available at community pharmacy

In Treatment: The Case of Cancer Meds

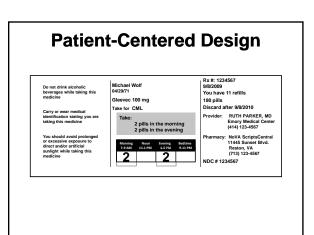
- Quality control shifted from physician to patient
 - February 4, 2007 (The Boston Globe)
 - "I take the pills until I develop a funny rash on my hands, then I back off a bit."

Pancreatic cancer patient taking Xeloda

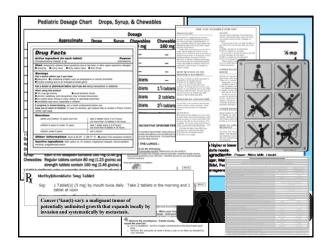
A New Issue in Cancer: Rx Adherence

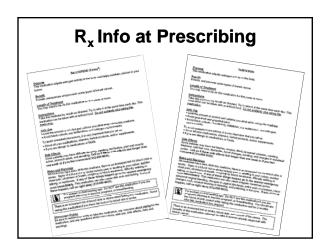
Disease	# of Studies
HIV	892
Hypertension	463
Diabetes	433
Asthma	370
ANY CANCER	130

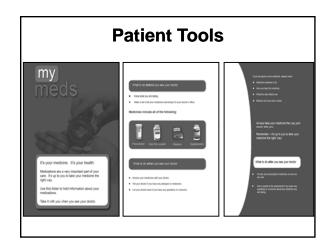


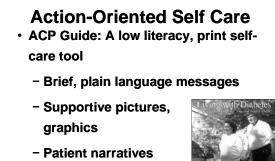












- Chunked information
- Non-linear approach





Education is Not A One-Time Endeavor!

- Follow-up necessary to move patients forward
- Front load activities
- ACP Guide min. 6 follow-up calls or in-person encounters

Education is Not A One-Time Endeavor!

0 1 2 3 4 5 6 7 8 9 10 11 12

- Baseline clinic visit
- Telephone call follow-up
- Clinic visit OR telephone call followup
 - Carve-In vs. Carve-Out

Standards Needed

- Health materials
- Communication training
 - "Universal precautions"
- Coordination of care processes
- Measurement/evaluation indicators
- Set policy, health provider incentives

Standards Needed

- Medicare Part D: Medication Therapy management
- KP Plan: Stanford Patient Self-Management

Provider Communication Skills

- Three common strategies
 - 'Teach Back'
 - Current recommended standard
 - Teach-to-Goal
 - Learning Mastery
 - Guided Imagery
 - Implementation Intention

Moving Forward

- What are we asking of individuals and families?
- How are we supporting them?
 - Clear, concise & consistent health information
 - Consider the 'patient' perspective
 - -What is the 'need-to-know'?
 - Limit, layer, prioritize
 - Follow-up!

Moving Forward

- Involve everyone
 - Education, medicine, pharmacy, public health, social services
 - Set local and federal policies to enforce
 - Develop new measures to evaluate progress

Contact Information

Michael S. Wolf, PhD MPH Associate Professor, Medicine & Learning Sciences Associate Division Chief – Research Division of General Internal Medicine Northwestern University Feinberg School of Medicine 750 N. Lake Shore Drive, 10th Floor Chicago, IL 60611 (312) 503 – 5592 mswolf@northwestern.edu

