### Health Literacy: A Cancer Communication Research Agenda

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

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# Faculty

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- 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

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National Adult Literacy Act of 1991

### **Health Literacy > Reading**

## Health Literacy: What We Know

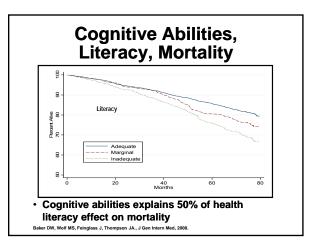
- Use of preventive services
- Delayed diagnoses (prostate cancer)
- Understanding of medical condition
- Adherence to medical instructions
- · Self-management skills
- Risk of hospitalization
- Physical and mental health
- Mortality risk

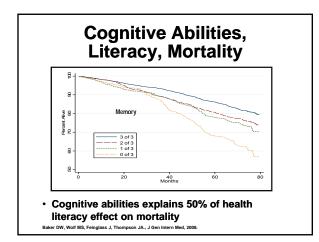
### Cognitive Function: What We Know

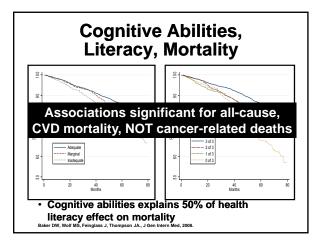
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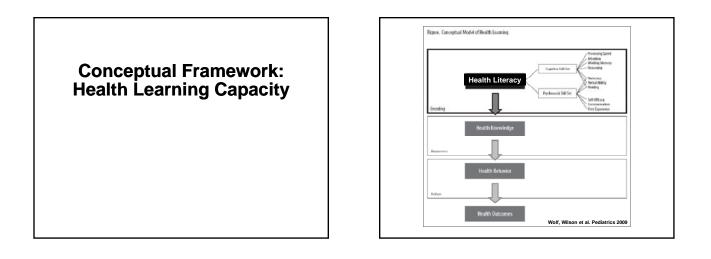
### What We Know: Similarities

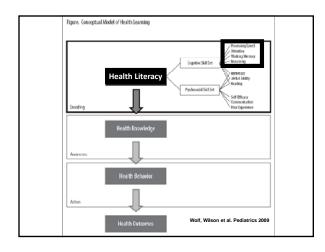
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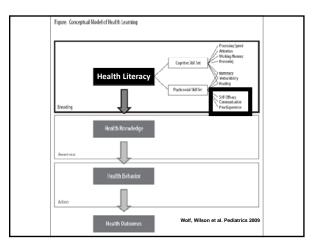


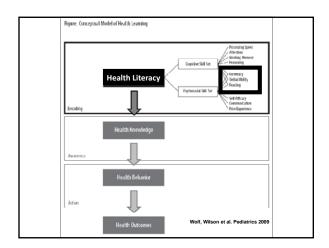


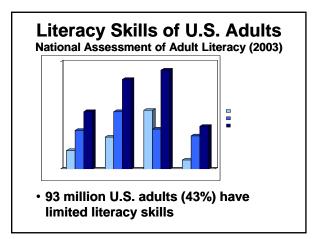


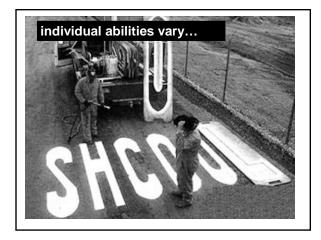




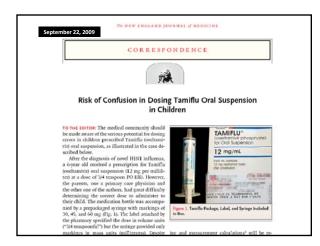




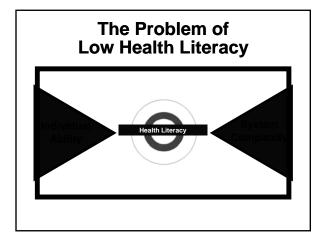


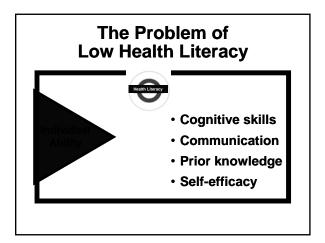


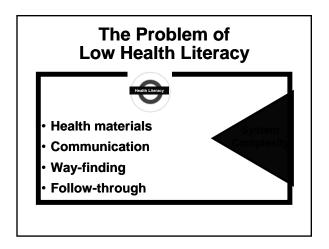


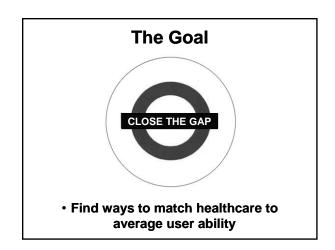












# Health Literacy Targets Individual skills – improve learning & retention Health materials – examine modality, improve design Clinician skills – consider

- 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

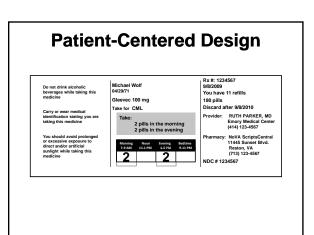
- Quality control shifted from physician to patient
  - February 4, 2007 (The Boston Globe)
    - "I take the pills until I develop a funny rash on my hands, then I back off a bit."

Pancreatic cancer patient taking Xeloda

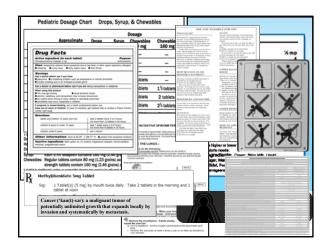
## A New Issue in Cancer: Rx Adherence

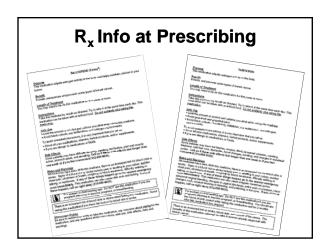
Disease	# of Studies
HIV	892
Hypertension	463
Diabetes	433
Asthma	370
ANY CANCER	130

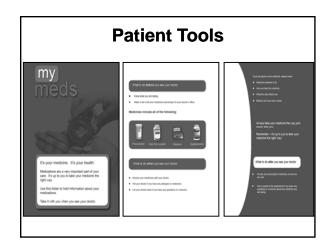


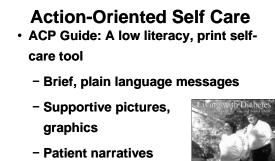












- Chunked information
- Non-linear approach





### 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**

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