## **GSA** Webinar Series

Health Literacy Considerations for Cancer Prevention Initiatives With Older Adults

SUPPORTED BY THE GSA INNOVATION FUND: THE GENERATIVITY EFFECT



#### Webinar Presenter



Rima E. Rudd, ScD, MSPH
Senior Lecturer on Health Literacy, Education, and Policy
Department of Social and Behavioral Sciences
Harvard T.H. Chan School of Public Health



# Health Literacy Considerations for Cancer Prevention Initiatives With Older Adults

Rima E. Rudd, ScD, MSPH
Harvard T.H. Chan School of Public Health
June 2019

Special challenges Concerns Noted preferences

THE FOCUS ON OLDER ADULTS

## Older Adults: Literacy & Health

PIAAC shows that while skills decrease with age, the need for managing one's health and well-being increases.

Source: *Numeracy Practices and Numeracy Skills Among Adults*, OECD Working Papers, No. 177. OECD. 2018.

5

## Special Challenges

#### Age-related changes:

- Decline in literacy practices
- · Limited literacy skills
- Decline in cognitive abilities
- Development of physical impairments [vision & hearing]
- Psychosocial issues [e.g. ageism, isolation, time related stressors]

#### Concerns:

- Agency
- Memory
- Unrealistic Expectations
- Taboo subjects

#### Social norms:

- Social stigma/bias
- Difficult conversations
- Difficult decisions

Abstract concepts Fear avoidance

#### A FOCUS ON CANCER PREVENTION

7

### **Preventive Care**

Older adults who <u>score</u> higher on the most recent literacy survey (PIAAC) have an increased probability of having done the following in the past year:

- Dentist visit
- Mammogram (Women)
- Pap smear (Women)
- Screen for prostate cancer (Men)

Source: Feinberg 2013 PIAAC analysis

## Literacy Issues Related to Cancer Prevention

- The assessed *demands* of health-related literature far exceed the documented literacy skills of the public
- *Cancer*, long used as a negative metaphor, remains a fearful topic
- *Prevention* is an abstract concept compared with more concrete terms such as treatment

9

## Our Challenge

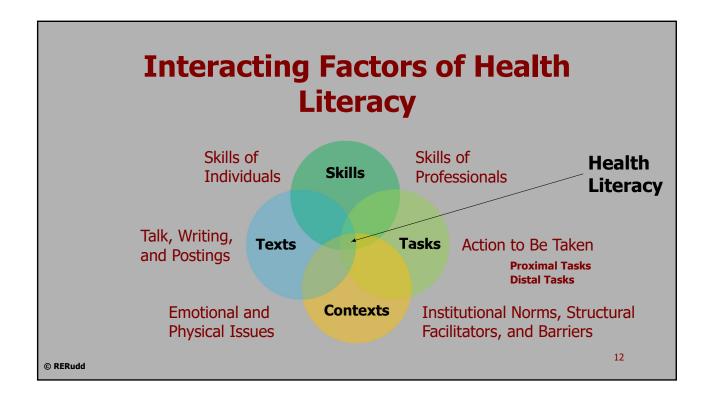
Studies of doctors' communication skills, of the needs of elderly patients with cancer, and of available cancer information indicate that cancer communication has not met the documented literacy needs of the public or of the older adult population in particular.

Source: Rudd, Gerontologist, 2019

Can we do better with cancer prevention efforts?

New understanding of health literacy Practice considerations for each component

## HEALTH LITERACY INSIGHTS AND GUIDELINES



## Health Literacy Insights for Practice: **Skills** of Older Adults

- 1992 NALS:
  - 71% demonstrated limited prose literacy
  - 68% had difficulty finding and processing quantitative information
  - 80% had difficulty filling out forms, reading, following directions, using schedules
  - Many do not believe that they have a problem

- 2003 NAAL:
  - 3% scored as proficient with health literacy skills
- 2003 HALS:
  - ~80% performed in the two lowest levels of proficiency
  - Retired adults living below the poverty level have the lowest score

- 2011 PIAAC:
  - Literacy, numeracy, and digital problem solving skills decline with age

13

### **Difficulties Faced**

15 million U.S. older adults (age 55-74) have low literacy skills (level 1 and below) and are likely to have difficulty to:

- Obtain, process, and understand basic health information
- Navigate the healthcare system
- Share personal information
- · Engage in self-care and chronic-disease management
- Understand probability/risk

Source PIAAC 2011
Office of Disease Prevention and Health Promotion

## **Improve Skills**

- Support and increase adult education opportunities
- Support and increase patient education opportunities
- Integrate patient-centered care with community resources

15

### **Reduce Demands**



- Slow the pace of talk
- Provide summaries (e.g. via notetakers, handouts)
- Adhere to plain language guidelines
- Apply teach-back
- Provide health education sessions
- Improve health materials
- Leverage technological advances

## **Noted Preferences**

- Slower paced talk
- Accessible information
- Clear layout, design, and organization in materials
  - Health messages and educational materials
  - Forms
  - Directions
- Aides such as notetakers and navigators
- Adaptive technology

17

## Health Literacy Insights for Practice: **Skills** of Health Professionals

Consider communication preparation for health professionals

- Speaking
  - Teach-back
- Listening and feedback
- Teaching
- Writing
- Choosing appropriate materials

**Assessment?** 

### **Enhance Skills**

- Raise Awareness:
  - Literacy of US adults
  - Challenges for elders
- Encourage Practice:
  - Visit prep
  - Turn-taking
  - Teach-back
  - Question asking encouragement
  - Reviews
  - Follow-up

- Provide Aides:
  - Note takers
  - Distribution of appropriate materials, reminder cues, follow-up plan
- Improve Opportunities:
  - Professional preparation
  - Licensing exams
  - Continuing education program
  - Grand rounds

19

### **Reduce Demands**

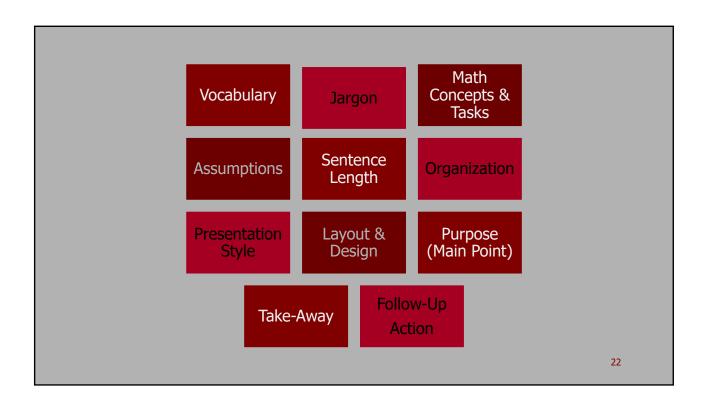


Attend to institutional norms, practices, and policies

- Patient load
- Support staff
- Time
- Preparation time
- Access to suitable materials

## Health Literacy Insights for Practice: **Texts**

- More than 3,000 published studies indicate that health materials are written at levels that <u>far exceed</u> the documented skills of the U.S. public
- Available information is not necessarily accessible
- Multiple guidebooks and assessment tools are freely available <u>but</u> are infrequently used/cited in the development and design of materials



## **Clarify Information**

- Apply knowledge/lessons learned to ease the burden
- Talk with
- Use plain language/ "translations" into every day words
- Offer explanations
- Do the math

- Follow design guidelines to ease reading and comprehension
- Provide introductions (purpose and main point)
- Organize and highlight
- Summarize key points
- Provide action steps

23

## Sample Strategies

- Talk and Writing:
  - Encourage the story
  - Reflect insights and experience
  - Attend to emotions
  - Engage in turn taking
  - Assume responsibility for communication
  - Check for clarity
  - Organize messages
  - Attend to vocabulary
  - Highlight key messages
  - Apply plain language guidelines

- Data:
  - Use clear charts and visuals
  - Use tested decision aids
- Medicine:
  - Offer full explanations
  - Provide Rx for learning
  - Conduct brown bag medicine check
- Support an empowering relationship

## Do the Math

#### **Helpful Actions**

- Provide numeric information: Numbers matter
- Reduce cognitive effort required
- Provide meaning and context for numeric information
- Draw attention to important information
- Set up appropriate systems to assist and review

Sources: Apter,2007; Peters, 2006; Ancker, 2006; Zikmund-Fisher, 2019

25

## Consider Difficulties

## **Ease the Burden:** Move Up and Left

Source: Apter 2008

Numeracy Element	Level of Patient Mastery		
	Describe	Interpret	Decision- Making
Reading numbers, counting, telling time			
Arithmetic operation			
Estimation of size, trend			
Frequency			
Percentage			
Problem-solving and inferring the mathematical concepts to be applied			
Logic			
Reading tables			
Reading graphs			
Reading maps			
Estimation of error, uncertainty, variability			
Relative versus absolute			
Risk cumulative, relative, conditional)			
			26

## Provide a Context for Data Not Just a Number

- Focus on increasing information evaluability
- Provide user-relevant contextual information
   Such as: thresholds, comparison standards, meaningful categories, significant difference

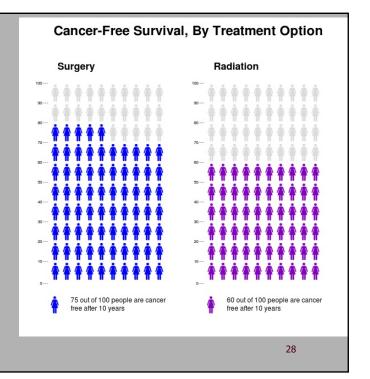
Source: Zikmund-Fisher, 2019

27

## Helpful Data Display

- Provide easy comparisons
- Use icon graphics or bar charts

Source: Zikmund-Fisher iconarray.com



## **Apply Scientific Rigor**

- Conduct rigorous formative research
- Engage with members of the intended audience
- Follow existing guidelines for the presentation of information
- Pilot test and revise with members of the intended audience
- Assess and revise using existing tools

29

## Health Literacy Insights for Practice: **Tasks**

#### **Proximal Tasks**

Those tasks one must perform while using texts, such as:

- Locate information
- Compare and contrast
- Interpret

#### **Distal Tasks**

Those tasks one must perform after using the texts, such as:

- Follow directions
- Calculate [e.g. dosage, time]
- Use tools
- Monitor and measure
- Document

## **Deconstruct Tasks**

Deconstruct health activities to understand the complexity of health tasks, health texts, and health-related tools

31

## **Simplify Proximal Tasks**

**Example: Forms** 

- No overlay with design
- Plain language principles followed
- Adequate entry space large enough for handwritten entry
- Logical groupings
- No dependent questions (if yes/if no)
- Clear answer options
- Explanations for new structures
- Option for NA

## Simplify Distal Tasks

### **Examples:**

- Pilot test instructions and revise as needed
- Develop and review plans
- Set up demonstrations for new tools
- Provide illustrations
- Develop reminder cues

33

## Health Literacy Insights for Practice: **Contexts**

Consider the environment within which activities take place

Examine the capacity of professionals and health institutions to provide accessible information and to support the active engagement of people seeking care and services

## A Complex Environment

- A work setting and a care setting
- A foreign land
- Design Elements
- Atmosphere
- Expectations
- Demands
- Appropriate behaviors

- Culture of its own
  - Language
  - Dress
  - Protocols
  - Behaviors
  - Expectations
  - Sanctions

35

## Change

- Identify and minimize emotional and physical distractors
- Consider appropriate learning times and processes
- Identify and minimize constraints (such as time issues)
- Examine policies, protocols, and regulations that could support facilitating factors (agency, dignity, clarity)

### **Assess Environmental Factors**

#### **Walk-About**

Navigation: one issue in the interaction of person and place

Signage: metaphor for complexity

- First impressions
- Walking interview
- Analysis

Source: Rudd et al 2019

#### HLE2

#### Assessment tool:

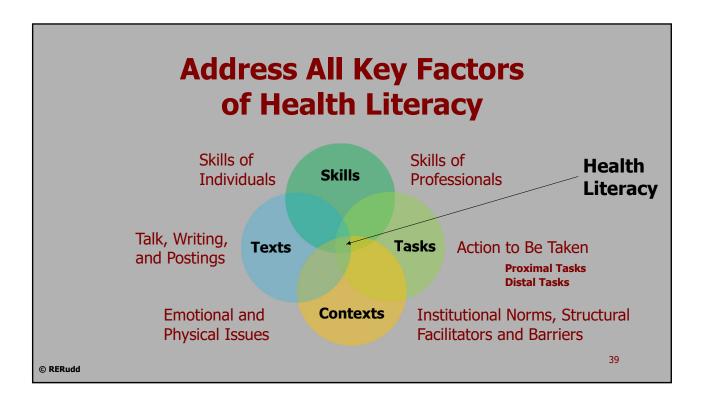
- Organizational policies
- Institutional practices
- Navigation
- Culture and Language
- Communications

37

## Health Literacy Environment Considerations

- Policies and Protocols
- Institutional Practices
- Navigation
- Communication
  - Written materials
  - Forms
  - Websites
  - Patient Portals
- Culture and Language

- Institutional Contracts
  - Forms
  - Test results
  - Response letters
  - Instructions
  - Directions
  - Patient education
  - Doctor's notes
  - -Measures and trends



## The Appeal of Health Literacy Work

From the Philosophic or Political Perspective:

- Links to social justice
- Links to health disparities
- Links to international consensus: Literacy as a Right (Universal Declaration of Human Rights, 1948)

From the Practical Perspective:

- Literacy can be improved
- Communication skills can be improved
- Texts are malleable and can be made easier to access
- Processes can be examined and modified
- Environments can be examined and changed
- Action is plausible and possible

### **Time for Action**

**Documented:** Significant proportions of adults in most industrialized

nations have limited literacy and numeracy skills

**Documented:** Literacy skills are linked to social factors **Documented:** Literacy skills are linked to health outcomes

**Documented:** Mismatch between reading level of health materials and

average reading skills of adults

**Documented:** Health systems and health care processes have become

increasingly complex

Implications: Health Disparities
Action: Remove Barriers

41

## **Apply Rigor**

#### **Practice**

- Attention to adult literacy assessments
- Respectful attention to health communication

## Insistence on scientific rigor

- Formative research
- Testing with members of the intended audiences

#### **Policy Changes**

- Plain language initiatives
- Professional education and training
- Regulations for development and dissemination of health information
  - Professional norms & practices
  - Institutional Review Boards and rigorous standards
  - Contractual obligations

### Resources

## Sample of Freely Available Measures

CDC: Health Literacy Index, Measure of written health information

AHRQ: PEMAT, Measure of written and AV health information

Canada: Canadian Public Health Association: Working with low literacy seniors HSPH: Health Literacy Site

- HLE2: Assessment tool for the Health Literacy Environment of Hospitals and Health Centers
- SAM
- PMOSE/IKIRSCH

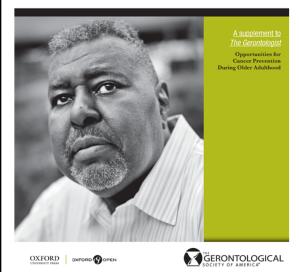
43

#### Questions?

- We will not be using the "raise hand" feature today
- Please use the "questions" feature accessible on the right side of your screen
- If we do not get to all of the questions today, we will email responses after the webinar



## The GERONTOLOGIST



## Opportunities for Cancer Prevention During Older Adulthood

- ✓ Free to view
- ✓ Sponsored by CDC's Division of Cancer Prevention and Control



https://academic.oup.com/gerontologist/issue/59/Supplement\_1

#### Webinar Evaluation

In an effort for continual improvement, we would like to hear your thoughts. Please provide feedback by clicking the survey link at the end of the webinar.

Thank you again and we hope you enjoyed the program!



#### Thank You

Visit GSA's webinar page to register for upcoming webinars on cancer prevention or view archived recordings:

- Health Literacy Considerations for Cancer Prevention Initiatives With Older Adults (Friday, June 28, 2019)
- Sun Protection and Sunburn Among Older U.S. Adults (Friday, August 2, 2019)

www.geron.org/cancerprevention



4

#### Thank You

GSA: Advancing Innovation in Aging

- The nation's oldest and largest interdisciplinary organization devoted to research, education, and practice in the field of aging
- 5,500+ interdisciplinary members around the world touching all facets of aging
- Mission
- Promote multi- and interdisciplinary research in aging
- Translate and disseminate research findings
- Promote/advocate for education/awareness on aging across disciplines
- Foster application of research into policy development
- To view other GSA webinars, visit geron.org/webinar

