

Health Literacy & Socio-cultural Tailoring of Health Promotion Education In Public Housing Neighborhoods

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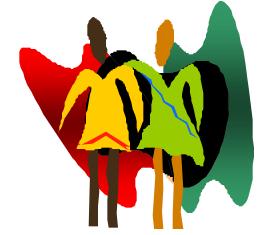
Augusta, GA



Smoking Cessation Intervention

"Sister to Sister"

- Originated from a partnership
 - Academicians
 - Community health workers
 - Community residents
 - Local housing authority
- African American Women
 - Ages 18-85, Low income, public housing





- Funding received by:
 - American Legacy Foundation
 - Georgia Cancer Coalition
- Other team members
 - Stacey Crawford, CHW
 - Tonya Freeman, CHW
 - Women of Underwood Homes
 - Amber Brown, PhD student



Literacy

Fn 27 urdlzxi giuxk, hmil ookn zl rbai qvto bieh rhnurod.

Up bo jmmjufsbuf, mfuufst bsf pomz mfuufst. Cpplt, qbqfst, boe mbcfmt nblf op npsf tfotf uibo epft uif hbscmf fzf dibsu. To 27 million people, both sides of this page look identical.

To an illiterate, letters are only letters. Books, papers, and labels make no more sense than does the garble of an eye chart.

Image: online presentation by Victoria Weill, MSN, CRNP (9/06)

National Organization Nurse Practitioner Faculties, University of Pa.

"...to improve health and reduce the burden of illness in society..."



Health Literacy

A person's capacity to obtain, process understand & make decisions about health information (USDHHS, 2000).

At Risk Population

- · Lower educational achievement
- Living in poverty
- Elderly
- Disproportionate to minorities
 (IOM, 2004)





Background

- Low literacy & health literacy
 - -contributes to health disparities
 - negatively impacts response to health information & health management.
- Cultural preferences
 - impact comprehension & engagement in health education designed to improve health behaviors & outcomes.



Purpose of Project

Tailor intervention materials used in smoking cessation study

- Literacy, health literacy
- -Socio-cultural preferences

Goal- To improve readability, satisfaction, comprehension, and ultimately impact health behavior





Process

1. Assess

- Readability of current materials
- Health literacy level of participants

2. Consult

- Graphic Designer
- Health Literacy Institute
- 3. Revise & Field Test
- 4. Revise & Field Test



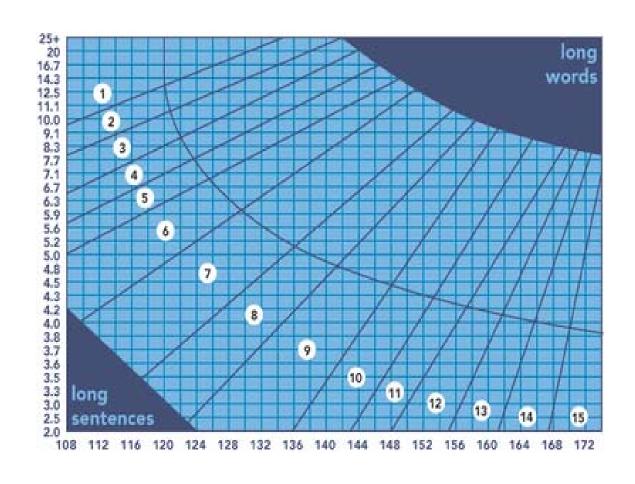


Readability of Materials

FRY Formula

- Syllables
- Sentences
- Results:

 10-12th grade reading level



-Fry, E. (1977). Elementary Reading Instruction. NY: McGraw Hill



Health Literacy Level

Reading & Pronunciation Tests

- Rapid Estimate of Adult Literacy in Medicine (REALM)
- Wide Range Achievement Test (WRAT)

Comprehension Test

- Test of Functional Health Literacy in Adults (TOFHLA)
- Newest Vital Sign (NVS)
 Weiss, BD, Mays, MZ, Martz, W, Castro, KM, Dewalt, DA, Pignone, MP, Mockhee, J & Hale, F. (2005). Quick Assessment of Literacy in Primary Care: The Newest Vital Sign



Results: 7th grade reading level

Rapid Estimate of Adult Literacy in Medicine

List 1	List 2	List 3
Fat	Fatigue	Allergic
Flu	Pelvic	Menstruai
Pill	Jaundice	Testicle
Dose	Infection	Cohris
Εyε	Exercise	Emergency
Stress	Behavior	Medication
Smear	Prescription	Occupation
Nerves	Notify	Sexually
Germs	Gallbladder	Alcoholism
Meals	Calories	Irritation
Disease	Depression	Constipution
Сапсег	Miscarriage	Gonorthea
Caffeine	Pregnancy	Inflammatory

Davis et al. (1993). Rapid estimate of adult literacy in medicine: a shortened screening instrument. Fam Med.25(6):391-5.
"...to improve health and reduce the burden of illness in society..."



Revision of Materials

Consultation with experts in literacy and visual design

Multiple field testing with neighborhood

residents

Match literacy
 & socio-cultural
 preferences



[&]quot;...to improve health and reduce the burden of illness in society..."



Effective Written Materials

- Monosyllabic words
- Short sentences
- Active voice
- Single concept
- Color

- Readability <5th grade
- Simple layout
- Large font
- Bullets
- Q&A format



Vocabulary

Abnormal	Not Normal
Advantages	Things that work
Beneficial	Helpful
Circulation	Blood flow
Consider	Think about
Difficulty	Trouble with
Fatigue	Worn out
Risk Factors	Things that increase your chance of



Cultural Sensitivity

Surface Structure

- Graphic
- Linguistics
- Music
- Food

Deep Structure

- Religion/Spirituality
- Family/Kinships
- Storytelling
- Collectivism

Resnicow, K, Baranowski, T, Ahluwalia, JS, Braithwaite, RL. Cultural sensitivity in public health: defined and demystified. *Ethn Dis.* 1999;9:10-21.



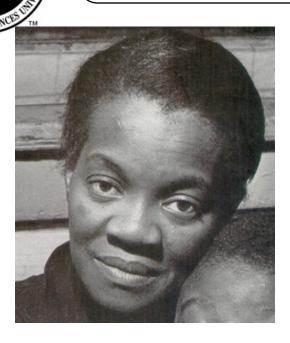
Field Testing Effective

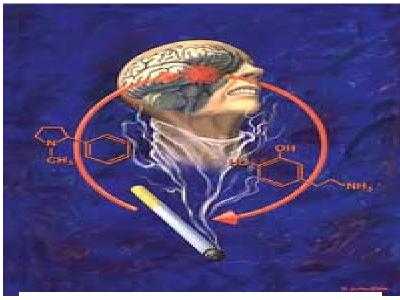






Field Testing Not Effective











Trigger Situations and Plans to Control Them

Look at the following list of typical triggers. Do any of them sound familiar to you? What are your own triggers? What causes you to reach for a cigarette?

____ Working under pressure

____ Driving a car

__ Feeling blue

____ Talking on the telephone

___ Having a drink

____ Drinking coffee

___ Watching television

____ Finishing a meal

____ Watching someone else smoke







Findings

Pictures

- All races, ages, gender
- Photos, illustrations, clip art
- Match content message
- Caption for pictures
- Abstract -confusing



Findings

Content

- Health and Risks
- Family and Kinship
- Positive, Not alone
- Focused Action



Smoking Cessation Materials

- Readability- 4-5th grade level
- Simple page layouts with white space
- Visual illustrations to explain concepts
- Colorful ethnic graphics & photos of "ordinary women"
- Integrated socio-cultural themes of spirituality, collectivism, and kinship

[&]quot;...to improve health and reduce the burden of illness in society..."



Outcomes

- Readability
- Satisfaction
- Preferences
- Comprehension
- Health Behaviors





Implications

- Serve individuals and the target population more effectively
- Insights for strategies that reduce health disparities in this community
- Participation by target population
- Next- RCT impact long-term behavioral outcome





Videos: Health Literacy

In Plain Language
 'You Can't Tell By Looking"

http://classes.kumc.edu/general/amaliteracy/

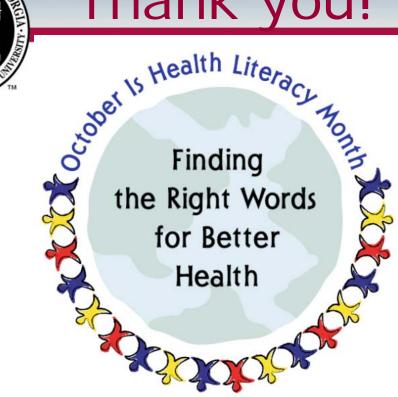
· Help your Patients Understand

http://www.ama-

assn.org/ama/pub/category/8035.html



Thank you!





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