



Procedure-based Performance Measures

Performance by the Structure of Healthcare

- Availability of prevention and treatment services
- Performance scores peaked and clustered nationally (NCQA)
- Less reliable at discerning quality-of-care across health plans
- Diminished utility for accreditation benchmarking
- Diminished utility for comparative performance rating



Non-procedure-based Performance Measures

Performance by the Process of Healthcare

- Patient-centered <u>reporting</u> of experiences with health care
- Consumer <u>rating</u> of health plans, clinicians and groups
- Deep well of variables for comparative performance rating
 - Demographics
 - Satisfaction trends
 - Rating trends



CAHPS

Consumer Assessment of Healthcare Providers and Systems

- Health Plans
 - CAHPS 5.0 Adult and Child Commercial
 - CAHPS 5.0 Adult and Child Medicaid
- Delivery Systems
 - CAHPS 2.0 Clinician and Groups
- Supplemental Items
 - Cultural Competency, Health Literacy, Health IT
 - Patient Centered Medical Home



Vulnerable Populations Suboptimal Response

Socio-epidemiology

• Ethno-medical: Cultural mores; perceived value

■ Socio-economic: Access & utilization; education & literacy

Socio-political

• Immigration: Fear of deportation; Trust

Incarceration: Perception of health systems; TrustSocial Isolation: Homelessness; addiction; Trust



Vulnerable Populations Suboptimal Response

Communication

• Language: Idiomatic variation in use

Literacy: Text challenges

Survey Literacy: Familiarity & experience

Oracy: Verbal Compliment to written information
 Phone: Cell use; trust (BRFSS very low response)

Mail: Chore; trust



Need for Cognitive Balance in Survey Research

Cognitive Capacity

- Aging
- Chronic diseases
- Medicines
- Stress

Cognitive Demand

- Survey design
- Research design
- Setting



Assessing Cognitive Demand Display Design Principles

Perceptual:

- ✓ Legible displays
- ✓ Top-down processing
- ✓ Redundancy gain

Attention:

- ❖ Minimize access cost
- Proximity compatibility principle

Memory:

- ☐ Consistency
- ☐ Predictive aiding
- ☐ Visual information

Handout

Cognitive Display & Design Principles for Cross-cultural Survey Development



Assessing Cognitive Demand Cognitive Design Principles

. Simplicity: Graphic complexity; readability

2. Natural Order: Reading flow left-right, top-bottom

3. Attractiveness: User-friendly design [Imagery, white space]

4. Consistency: Item type; response tasks; variation in readability

5. Clarity: Navigation; wording; verbiage

SNACC

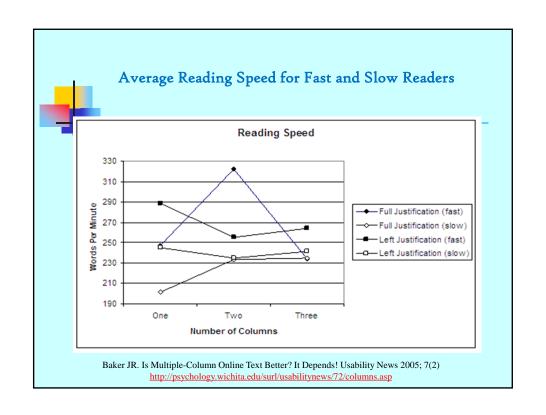
Hand Out: Patient Centered Medical Home Item Examples

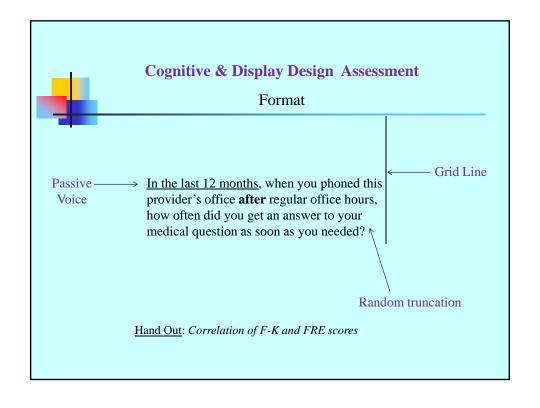


CAHPS

Patient Centered Medical Home Supplemental Items

- **16.** In the last 12 months, when you phoned this provider's office **after** regular office hours, how often did you get an answer to your medical question as soon as you needed?
 - □ ¹Never
 - □ ²Sometimes
 - □ ³Usually
 - □ ⁴Always
- 17. Some offices remind patients between visits about tests, treatment or appointments. In the last 12 months, did you get any reminders from this provider's office between visits?
- **38.** In the last 12 months, did you and anyone in this provider's office talk at each visit about all the prescription medicines you were taking?
 - □ ¹ Yes
 - □ 2 No
- **39.** In the last 12 months, did anyone in this provider's office ask you if there was a period of time when you felt sad, empty, or depressed?
 - □ ¹ Yes
 - □ 2 No







Cognitive Design and Display A

Reading Difficulty

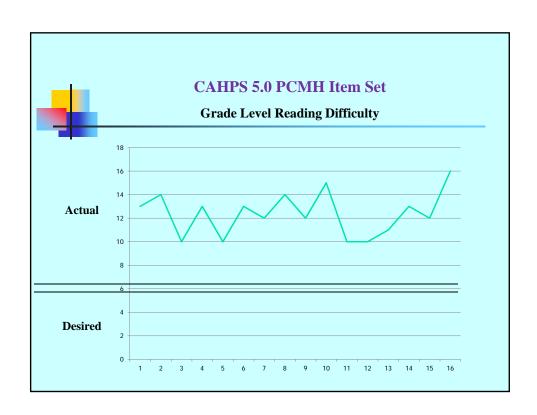
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Reading Difficulty

Flesch-Kincaid Grade Level: 14
Flesch Reading Ease: 53

Hand Out: Correlation between F-K Grade Level and Flesch Reading Ease Scores





Cognitive Design and Display Simplification

Wording

<u>In the last 12 months</u>, when you phoned this provider's office **after** regular office hours, how often did you get an answer to your medical question as soon as you needed?

14/53

In the last 12 months

When you phoned this provider's office **after** regular office hours, *how often* did you get an answer to your *medical* question *as soon as* you needed?

12/54

When you called this doctor's office **after** regular hours did you get answers to your questions when you needed? 9/67

Hand Out: CAHPS-E PCMH Item Set examples



Cognitive Design and Display Simplification

Font

When you called this doctor's office **after** regular hours did you get answers to your questions when you needed? 9/67

- □¹Never
- □²Sometimes
- □³Usually
- □⁴Always

When you called this doctor's office **after** regular hours did you get answers to your questions when you needed?

- \square ^INever
- □²Sometimes
- □3Usually
- □4Always



Simple Sentence Fragment Model The Premise

- Cognitive burdens are associated with diminishing cognitive capacity and reading skills
- ♣ Diminishing reading skills means slower reading
- ♣ Short length text promotes improved reading and comprehension
- ♣ Simple sentence fragments are shorter and convey one idea



Simple Sentence Fragments The Premise

- SSF reading difficultly lower than for whole sentence
- Think of: Actual temperature vs. wind chill (feels colder)
- ♣ Actual sentence reading difficulty vs. fragment difficulty (reads easier)

Sentence and its sentence fragments have the same number of words and syllables and therefore reading difficulty sentence fragments are read in shorter sections mitigating reading difficulty



Simple Sentence Fragment Method Each fragment conveys one idea

When you called this doctor's office **after** regular hours did you get answers to your questions when you needed? 9/67

When you called this doctor's office. **after** regular hours. did you get answers to your questions when you needed? 3/82

Reads like

Actual reading difficulty 9/67

3/82

- ♣ Create Fragments
- ♣ Add end punctuation
- ♣ Assess reading difficulty
- ♣ Remove end punctuation



Before & After Simplification and Fragmentation

In the last 12 months, when you phoned this
provider's office after regular office hours, how
often did you get an answer to your medical
question as soon as you needed?

- Never
- Sometimes
- \Box Usually
- ☐ Always

In the last 12 months:

When you called this doctor's office **after** regular hours did you get answers to your questions when you needed?

- ☐ Never
- Sometimes
- □ Usually□ Always
- 3/82

14/53

