Working Collaboratively for the First Community-based Comprehensive Health Survey of a US Deaf Community

Rochester Prevention Research Center:
National Center for Deaf Health Research
University of Rochester

Presenters:

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Communication Rules

- Turn-taking the interpreters can only interpret for one speaker at a time
- Wait for the delay
- Be aware of others -- deaf people use different cues (visual rather than auditory) to indicate they want to make a comment

Take Home Messages

- ASL is not English
- Deaf sign language users comprise understudied disparity populations
- Community-based participatory research is essential to the survey adaptation process

Outline

- Background
- Review <u>a few</u> steps in the survey development process
- Describe survey interface (screen shots)

 You can see the actual survey after the presentation, near the NCDHR posters Are you currently taking medications?

Sign Language

- American Sign Language (ASL)
 - Different from English

English-based signing

Not measured by census/surveys

Deaf people who use ASL

- Usually adults deaf since birth or childhood
- Late-deafened adults very different
- "Rubella bulge"

Why Deaf people?

- HP2010 objectives
- Disparities in access to research
 - Modality
 - Language
 - Literacy
- Disparities in health & healthcare

Rochester NY

- Many sign language users
- Rochester Deaf Health Task Force
- Rochester Prevention Research Center: National Center for Deaf Health Research
 - health promotion & disease prevention with deaf ASL-users and their families
 - Local & national connections
 - Core project is to create an accessible survey to collect data

Social similarities

- Use of a non-English language
- Socialize & partner/marry within community
- Cultural norms different than those of the majority community
- Children often become bicultural/bilingual

Opportunity similarities

- Many have lower education level, income,
 & literacy than the general population
- Often encounter prejudices that limit opportunities
- Often have limited access to English language-based information

Healthcare similarities

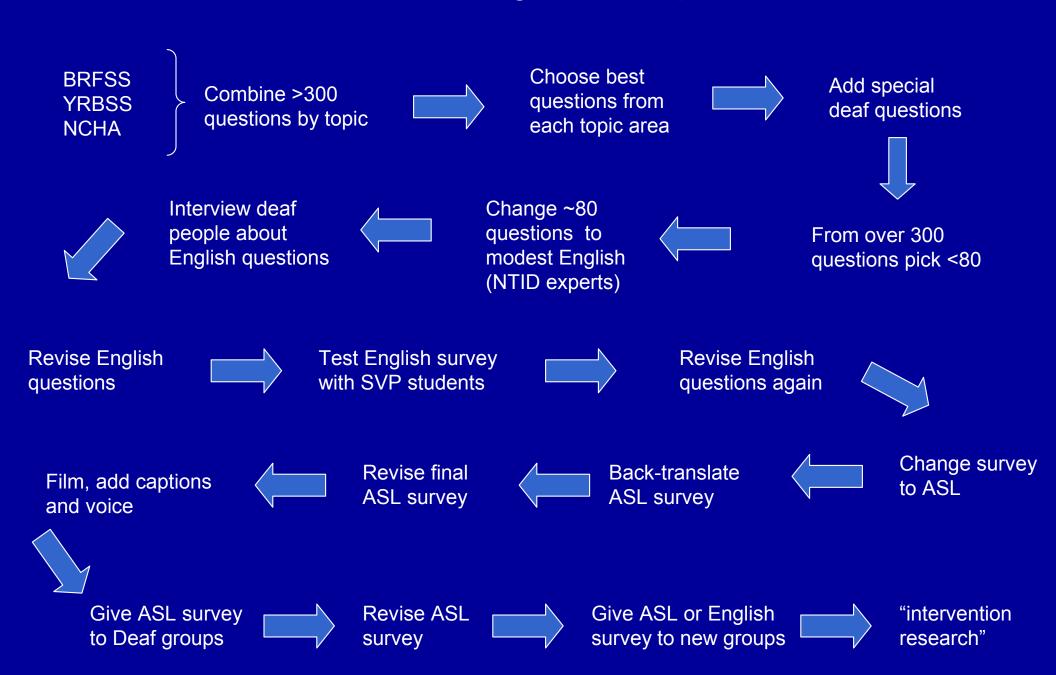
- Infrequently encounter a doctor from their own cultural group
- Often experience language differences as barrier to good healthcare
- Often experience cultural insensitivity as barrier to good healthcare
- Often have limited health knowledge
- Poorer health status than general population
- Less frequent physician visits than general population

Differences

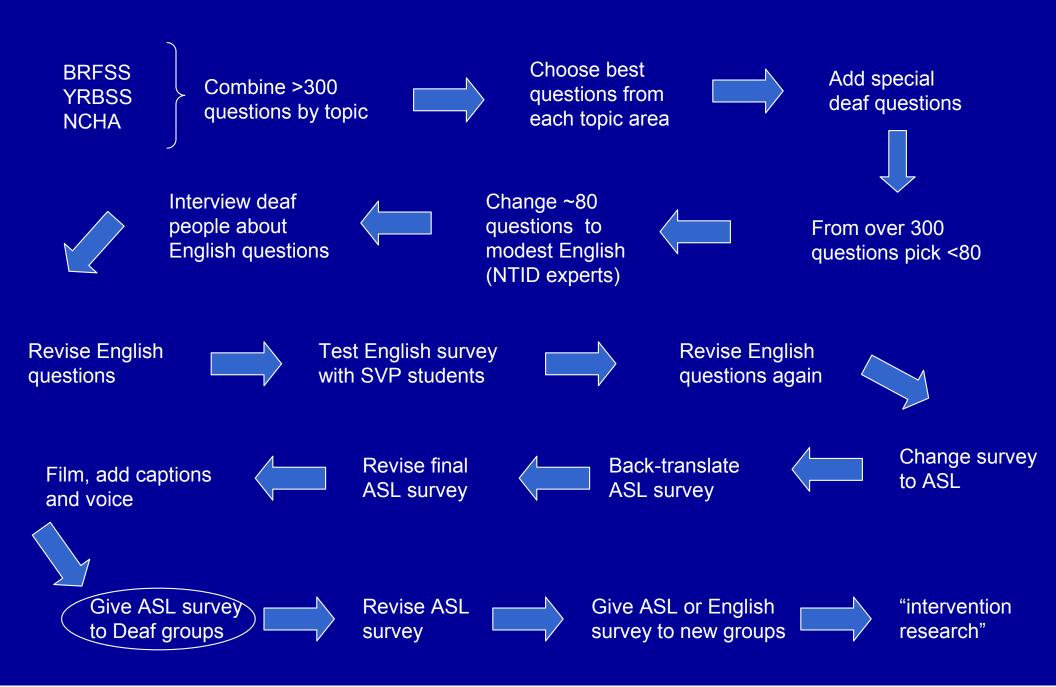
- Deaf culture often transmitted from peers (horizontally) rather than from parents (vertically)
- Doctors/researchers often expect deaf people to have fluency in written English
- Doctors/researchers often expect deaf people to speechread English
- Americans with Disabilities Act applies to deaf people



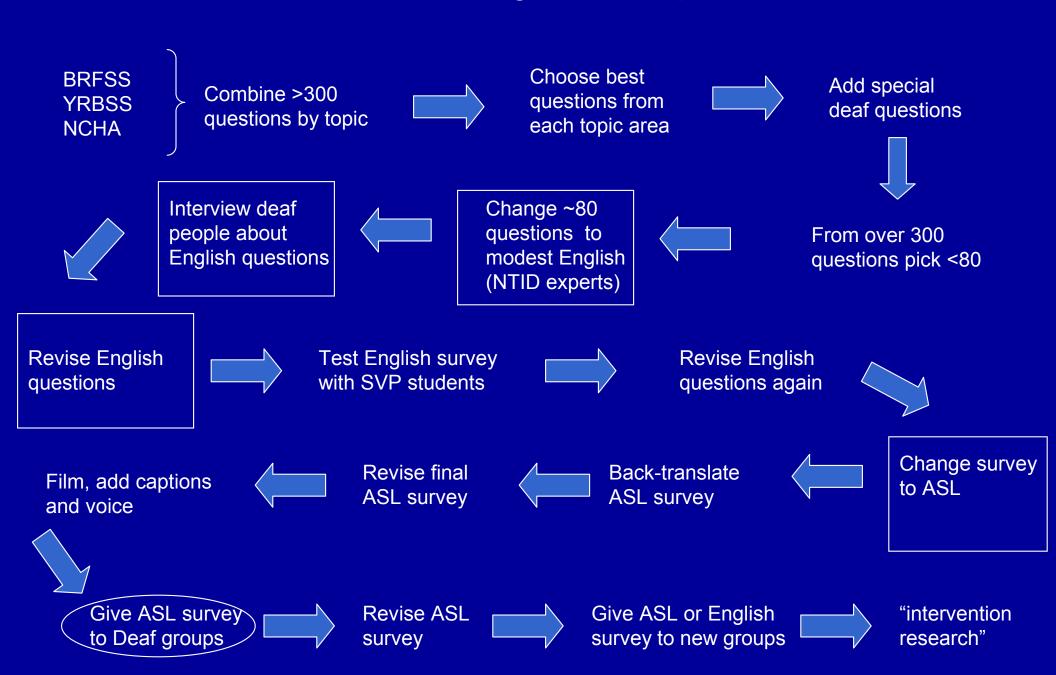
Core Project Steps



Core Project Steps



Core Project Steps



Adapt English

- Linguists reviewed original English
 - "Do you wear a helmet when you ride a motorcycle?" changed to "When you ride a motorcycle, do you wear a helmet?" [from NCHA]
- In-depth individual cognitive interviews
 - "... blood cholesterol tested ..." [from BRFSS]

Dictionary

- Addresses fund of information
- Similar in function to BRFSS explanations
 - Mammogram
- Consistent with purpose
 - Compare with other groups
 - Compare pre- & post- intervention



Translations

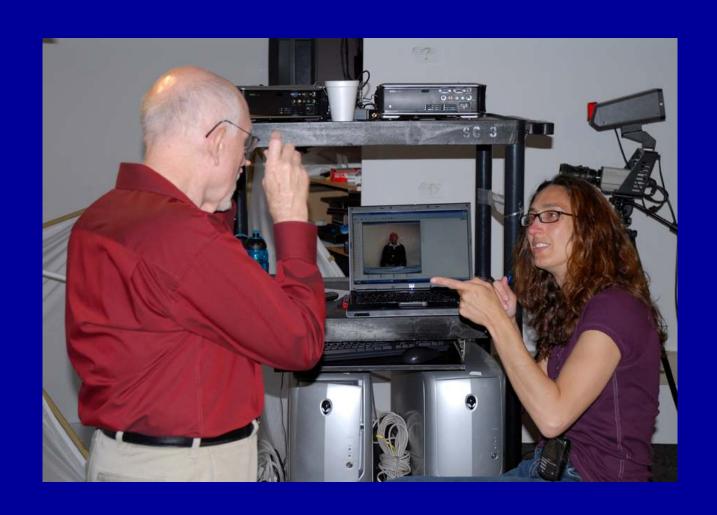
- Bilingual fluent community members & researchers
- Two teams
 - ASL
 - English-based sign
- Script video-recorded
- Independent back-translations
- Sometimes further decisions made in the studio

ASL Translation

- 6 team members
 - 3 from DHCC
 - 3 from NCDHR Research Committee
- Decision examples
 - Include question stem in response
 - Education level question -> 11 items

EBS Transliteration

- 4 team members
 - 1 from DHCC
 - 1 from NCDHR Research Committee
 - 2 from community
- Task to match English source and ASL translation
- Decision examples
 - Voice track

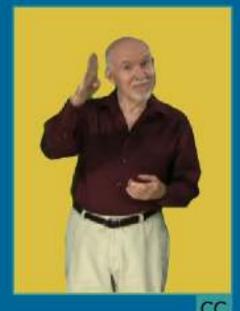


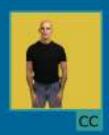
Interface design

- Accessible for broad range of education levels
- Strong feedback from the community about confidentiality
- Survey collects a lot of data













My name is Patrick. You can touch on the other signers. You can pick a different signer at any time. When you are done. Touch next.



Introduction





inside a circle appear.

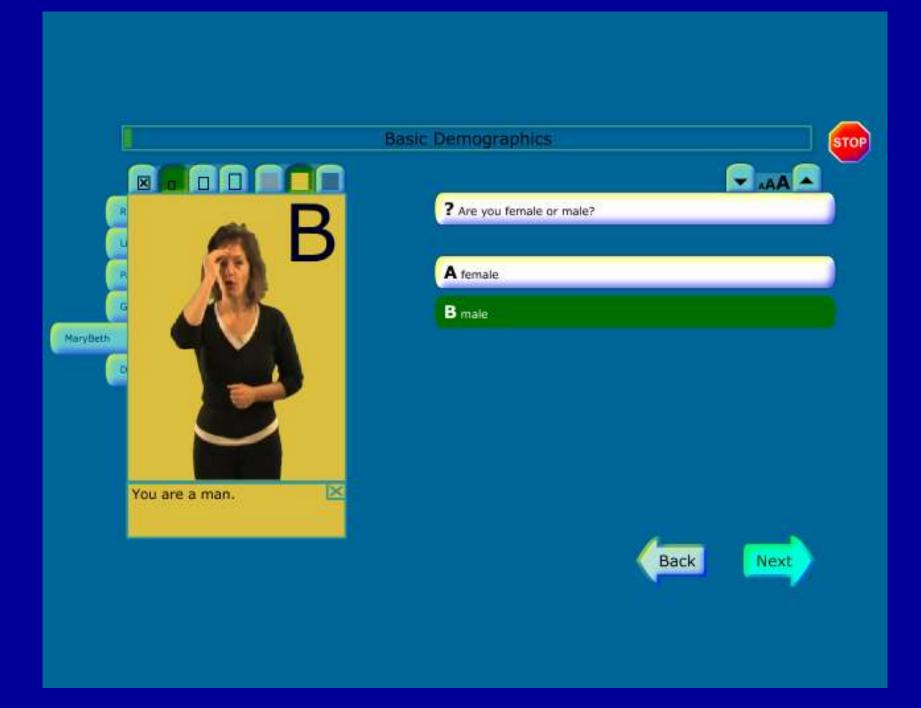
During the survey questions, sometimes you will see that the letter "I' with a circle around it will appear. Touching the "I' will open a dictionary. You may see a word or sign that is unfamiliar. In this example we use the word "cholesterol". Touch the 'I' and a panel with the word being defined will slide out from the right. A sign explanation of the word will be given and then the English text version will appear. To close the dictionary, touch the box with the X in the top right corner.

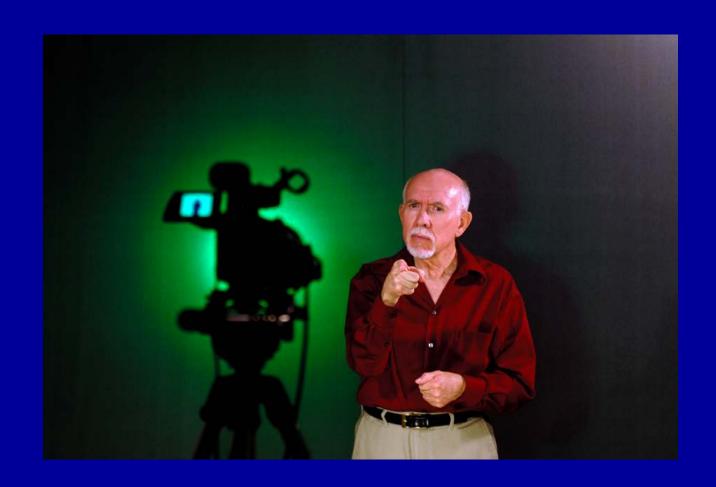
(i)Cholesterol

- A Example Answer 1
- B Example Answer 2
- C Example Answer 3

Back

Next





Survey Experience

Early data collection

Summary of data collected 2/29 – 3/17 2008

- 115 surveys
 - 58% at NCDHR
 - Community locations include
 - Deaf club
 - Apt complex with many deaf residents
 - U of R department with many deaf faculty/staff
- 40 exit interviews

Exit Interviews Early data collection

- A lot of positive feedback
- Concerns about the survey length
- Some discomfort with some topics
 - violence, mental health, alcohol
- No questions should be dropped
- Suggestions for future topics



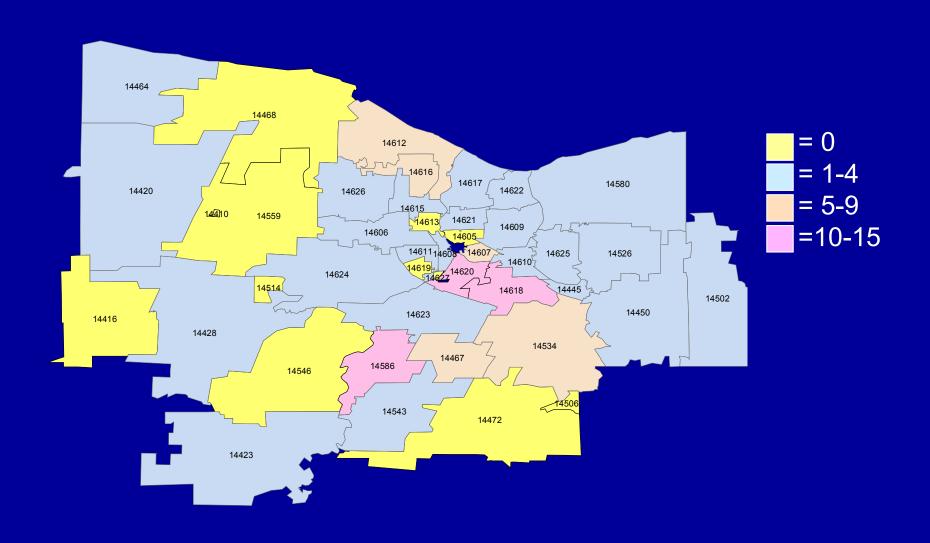
Demographics Early data collection

Men	50.5%
Age (median)	50 yo
Age (range)	18 - 77
Hispanic	2.9%
White	92.1%
Married	52.9%

Demographics Early data collection

Health = fair or poor	4.4%
Education	
Graduate degree	32.0%
College 4yr degree	16.5%
Some college	34.0%
HS graduate	13.6%
< HS	3.9%

Geographic distribution Early data collection



Deaf demographics

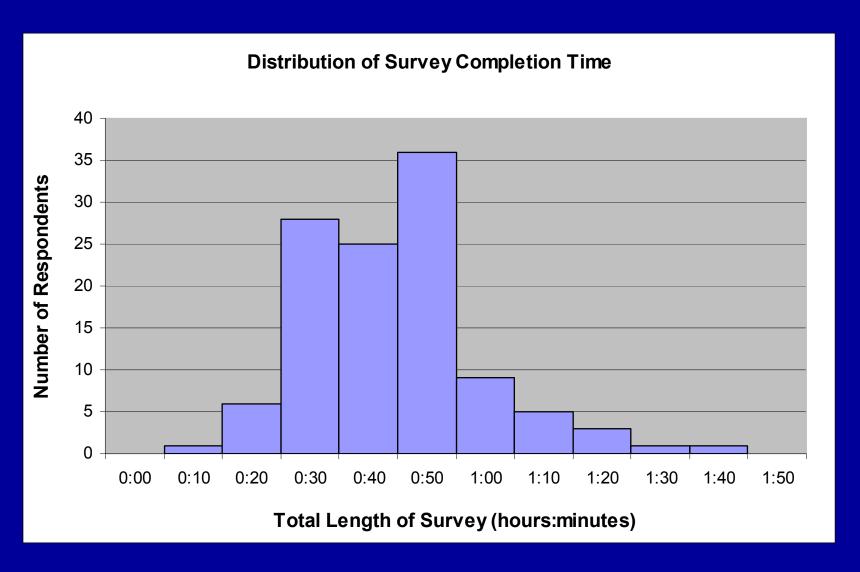
Early data collection

Deaf parent or sibling	31.4%
Age became deaf	
Birth	70.9%
< 1 year	13.6%
1 – 6 years	10.7%
don't know	4.9%

Survey time Early data collection

	Mean ± SD
Consent	5:51 ± 0:54
Instructions	6:18 ± 3:15
Survey	27:06 ± 13:21

Survey time Early data collection





Take Home Messages

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Questions?

Feedback?

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