Effects of Survey Mode on Responses On Social Connectedness Questions Among Older Adults

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Social Policy Research Associates



Outline

- Background for the study
- Measuring social connectedness
- Research questions
- Study design
- Analytical sample
- Findings

Background

Social isolation affects older adults

AARP Foundation designed an **intervention** to reduce it

Need to measure **outcomes** across different programs

Selecting measures: Duke Social Support Index (DSSI)

Social Isolation as a public health issue

• Older adults are among those most at risk

 The WHO now lists "social support networks" as a determinant of health

 Addressing social isolation is a priority in some advanced industrialized nations (UK, Japan)

 Robust body of scientific evidence that having adequate social support is linked to physical and mental health benefits

Connect2Affect

• An intervention designed to help connect older adults by enabling them access to community information using their voice through an Alexa device



Connects residents through peer-to-peer mentors

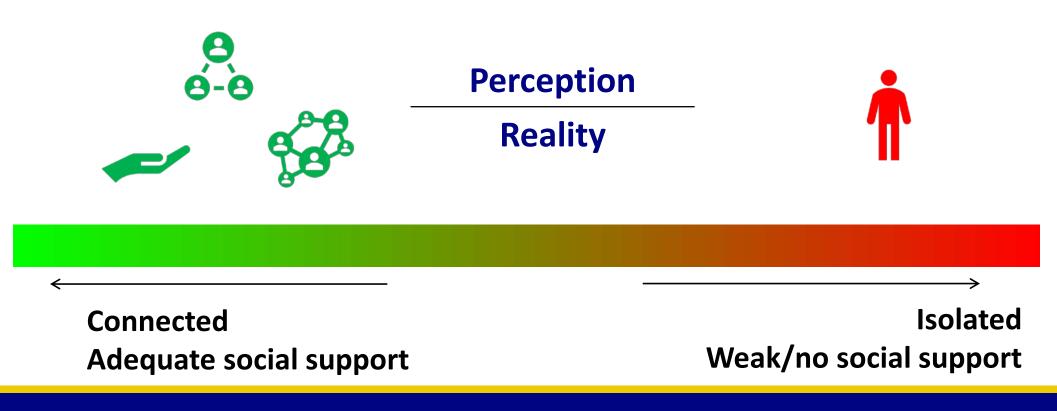


On-demand access to information

Supports active engagement

Measuring Social Connectedness

Social support as a measure of social connectedness



What is the Duke Social Support Index?

• A composite measure of social support among older adults

• An original (35 items) and abbreviated version (10 items)

 Designed to be administered in person by trained interviewers The DSSI measures 4 key dimensions of social support:

- 1. Social network size
- 2. Social interaction
- 3. Subjective social support
- 4. Instrumental support

10-Item Duke Social Support Index

NETWORK SIZE & SOCIAL INTERACTION

Q1. Other than members of your family, how many persons in this area within one hour's travel of your home do you feel you can depend on or feel very close to?

Q2. How many times in the past week did you spend time with someone who does not live with you – that is, you went to see them, or they came to visit you, or you went out together?

Q3. How many times in the past week did you talk or text with someone on the telephone – friends, relatives, or others?

Q4. About how often in the past week did you go to meetings of clubs, religious groups, or other groups that you belong to (other than at work)?

10-Item Duke Social Support Index

SUBJECTIVE SOCIAL SUPPORT

Q5. Do family and friends understand you

Q6. Do you feel listened to by family and friends?

Q7. Do you feel useful to family and friends?

Q8. Do you know what's going on with family and friends?

Q9. Do you feel you have a definite role in family and among friends?

Q10. Can you talk about your deepest problems with some family members or friends?

1= Most of the time2= Some of the time3= Hardly ever

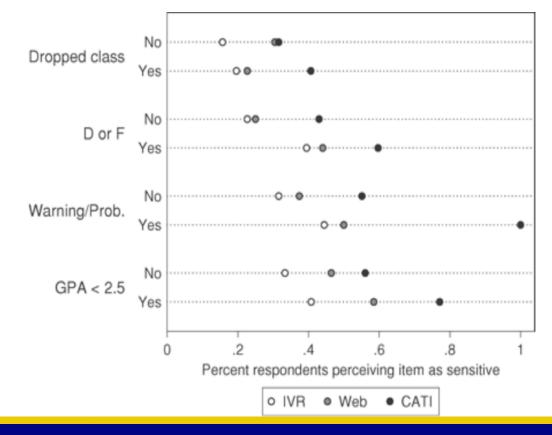
Will Survey Mode Affects Answers?

Different Answers on Web & Phone

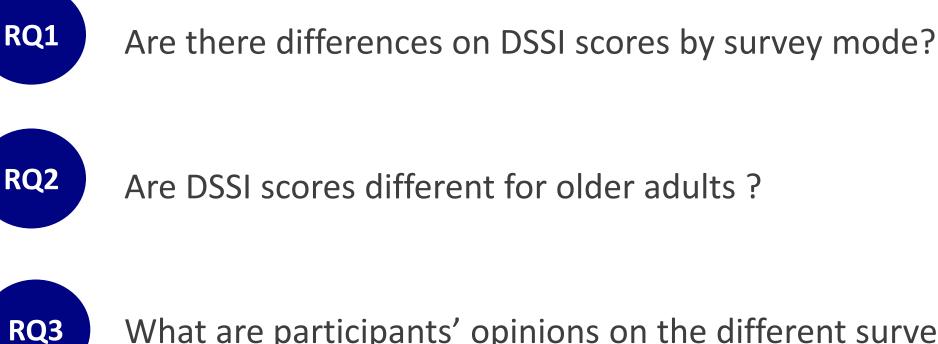
% giving answer in each survey mode

Very satisfied with your	Web Phone	Diff.
Family life	440-062	18
Social life	29 <mark>0-0</mark> 43	14
There is a lot of discriminati	on against	
Gays and lesbians	480-62	14
Blacks	44 🔶 🔿 54	10
Hispanics	420-054	12
Women	31 () 33	2

Mean Sensitivity Ratings, by Item, Mode, and True Status

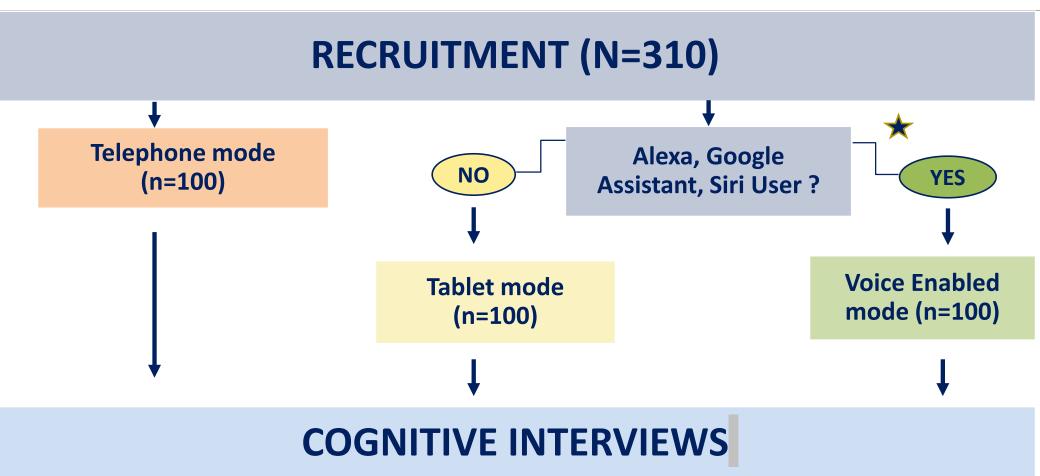


Research Questions



What are participants' opinions on the different survey modes?

Study Design: Testing Survey Modes



Screener Criteria

- Criteria for the screener
 - County
 - Age (50+)
 - Gender
 - Race/Ethnicity
 - Disability/Impediments
 - Income
 - Marital Status
 - Household size
 - User Alexa, Google Assistant, Siri

Recruiting Strategies



Panel Participants





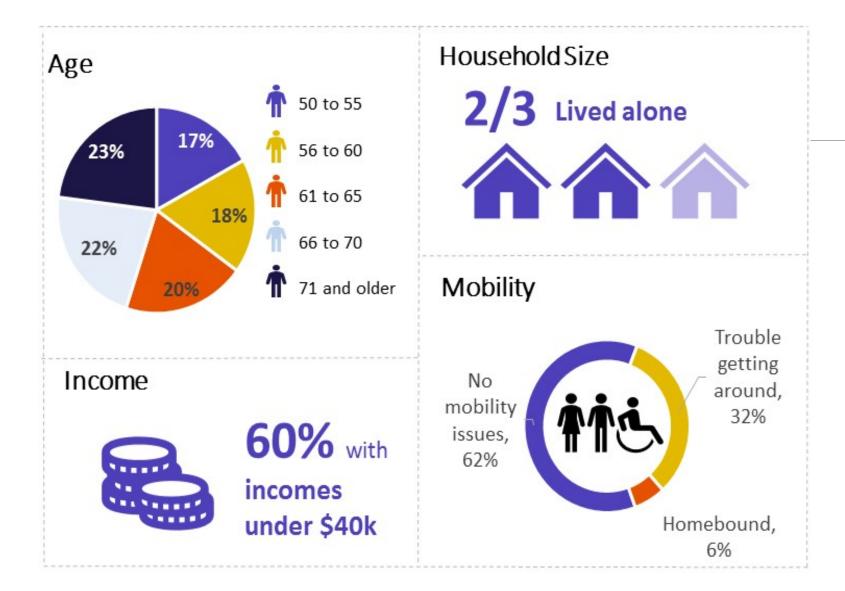
Recruitment strategies

for voice enabled and

Stratified Random Sample tablet samples and

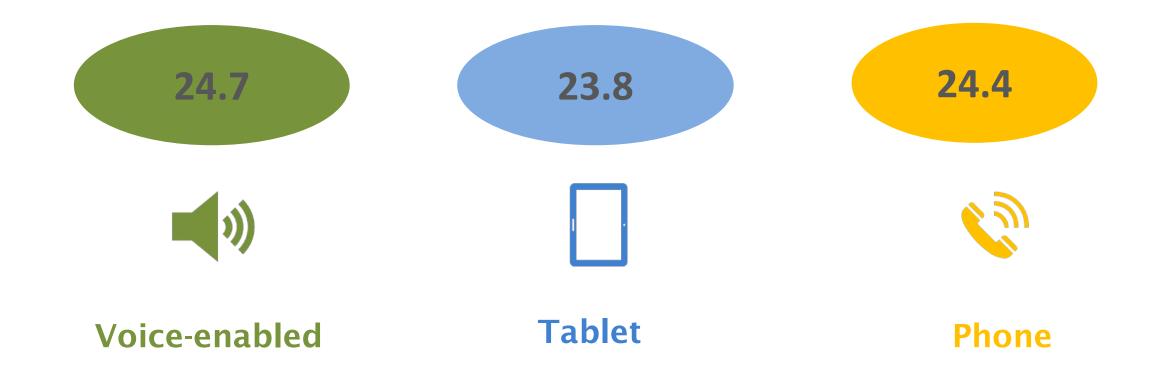
phone sample were

somewhat different



Demographic Characteristics of Study Participants

RQ1 Are there differences on DSSI scores by survey mode?



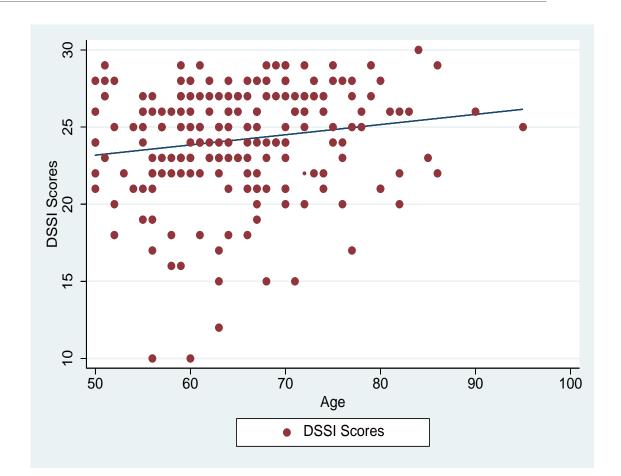
RQ1 Differences on DSSI scores by survey mode

DSSI Score 10-items	VOICE ENABLED	TABLET	PHONE	Wardian et.al.
Mean (SD)	24.7 (2.86)	23.8 (3.68)	24.4 (3.61)	24.4 (3.28)
Range	18-29	10-29	10-30	

RQ2 Are DSSI scores different for older adults?

- On average, older adults have higher DSSI scores than younger adults
 - Statistically significant
 - Modest magnitude

 This relationship is consistent across survey modes



RQ2 Are DSSI scores different for older adults?

• The relationship between DSSI scores and age is not monotonic

- Measuring connectedness at stages of transition:
 - Before retirement
 - Right after retirement
 - Among the elderly

Age	DSSI Scores	
Age 60 or younger	23.5	
61 – 65 years old	23.9	
66 – 75 years old	24.8 *	
76 years old and older	24.2	

RQ3

Participants' Opinions About Voice-Enabled Mode

Alexa doesn't rely on rapport between an interviewer and a respondent, and at the same time it protects the person taking the survey from being embarrassed to share that level of intimate detail about themselves, especially if they don't feel good about their social network. I enjoyed taking the survey using Alexa a lot, it was fun. It was fun because it seemed that Alexa communicated with me personally, her voice was crisp, and she could hear clearly. I had a very good experience.

... this device is listening all the time

Did you see? It turned off...

... this device could be a good therapist.

Data Collection Notes: Voiced-Enabled

- General enthusiasm to use Alexa
- Instructions were *really* necessary (repeating, how to restart)
- Issues with navigation:
 - o Ability to go back
 - Alexa not recognizing answers (e.g. twice/couple)
 - Alexa going silent/turning off
- Participants' willingness to persist
- Back-end data

RQ3 Participants' Opinions About Tablet Mode

It was very easy to use the iPad, the screen size, everything was in bold, easy to navigate, big enough, even though I have carpal tunnel. ... I probably need a thinner finger

... I'm not sure how to enter the number here

I felt like a techy by the time I was done.

... this works well for me, but my brother has Parkinson's, so it depends

Data Collection Notes: Tablet

- •About one quarter of participants needed help:
 - Difficulty figuring out on placing your finger in the box to enter info
 Difficulty using iPad's integrated keyboard
- Issues with navigation:
 - Larger font-size
 - A "back button" to verify/change an answer
 - The need to scroll down to see "next" button
 - An "end" button
 - Stylus pen (arthritis)

RQ3

Participants' Opinions About Phone Mode

I like to do surveys over the phone because I'm in my own personal space, I feel comfortable It's refreshing to hear a real human on the phone

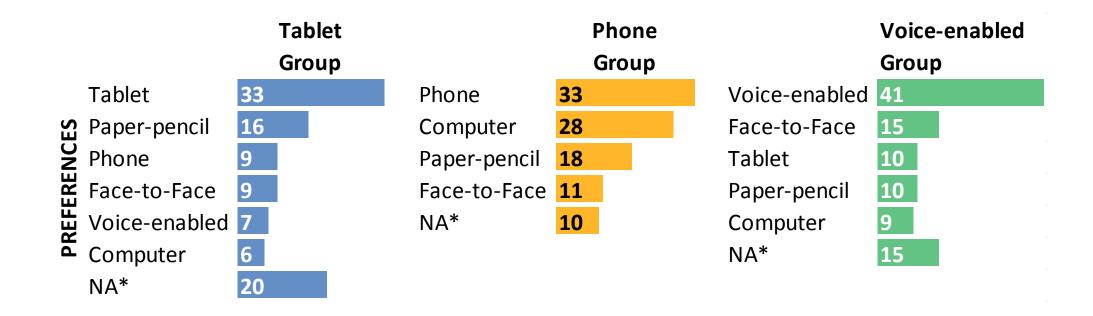
I only agreed to participate because AARP is a trusted source, I get their magazine

I am cautious when I answer the phone because of the scams

Data Collection Notes: Phone

- Difficulty gaining participation, alternative modes of recruiting
- Reluctancy to answer calls from unknown numbers
- Issues during calls:
 - Adjust the pace and repeating
 - Hearing issues
 - Pressure to be off the phone
 - > Answering participants' questions in 'real time'

Survey Mode Preferences Among Participants



Source: Cognitive interviews. (*) NA includes respondents who did not express a clear preference for a single survey mode, preferring two or more modes equally.

Q & A

renatta_defever @spra.com