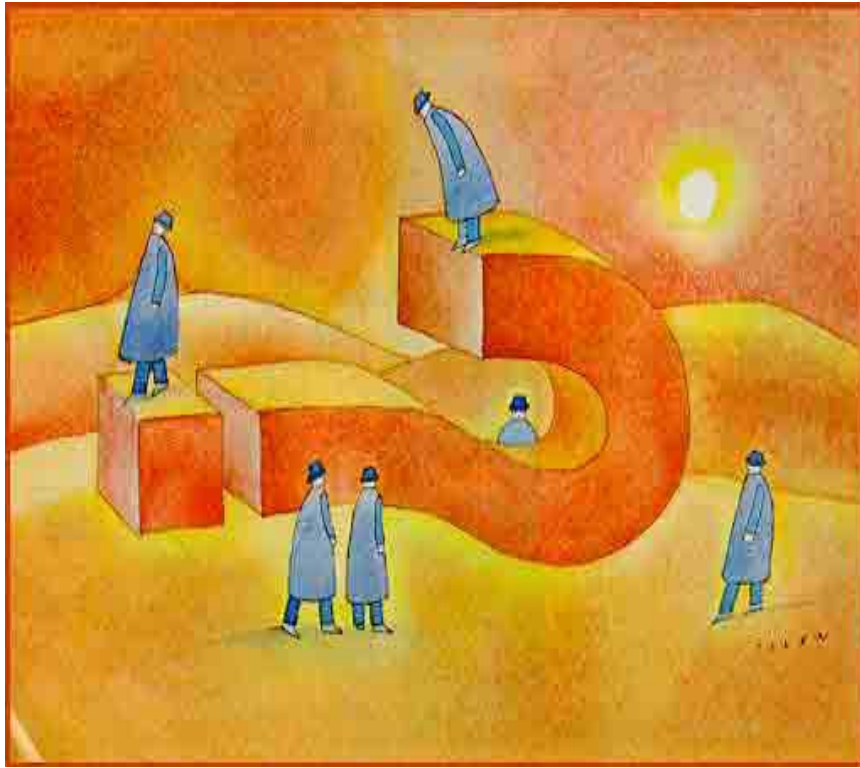


# Cognitive Interviewing



Washington Group Extended Set  
Dar es Salaam, Tanzania

October 7 - 9, 2009

# Goals for Question Evaluation:

- How do the respondents understand the survey question?
- Do respondents understand the survey question differently?
- Does the question mean the same in all the languages that it is asked?
- Does the question mean the same in all of the cultures that it is asked?

# Goals for Question Evaluation:

- In processing a question, do all respondents recall information and form an answer the same way?
- What groups should be considered for comparability?
- Age? Education? Income? Gender? Health Status?

# A good question is...

1. relevant to the research agenda

and

2. relevant to each potential respondent's  
experience and knowledge

# Respondents...

- Serve as informants to their situation or experience
- Make sense of a question within the context of their own lives
- Do not know why they are being asked the question
- Do not use scientific or abstract concepts
- Can understand a question completely differently from the intent

# Why Question Evaluation?

## 1. To fix problems

- Ensure questions capture intended concept
- Ensure that data will be comparable
  - Translation problems
  - Socio-cultural and economic-related differences

# Why Question Evaluation?

## 2. To identify and document what the question measures

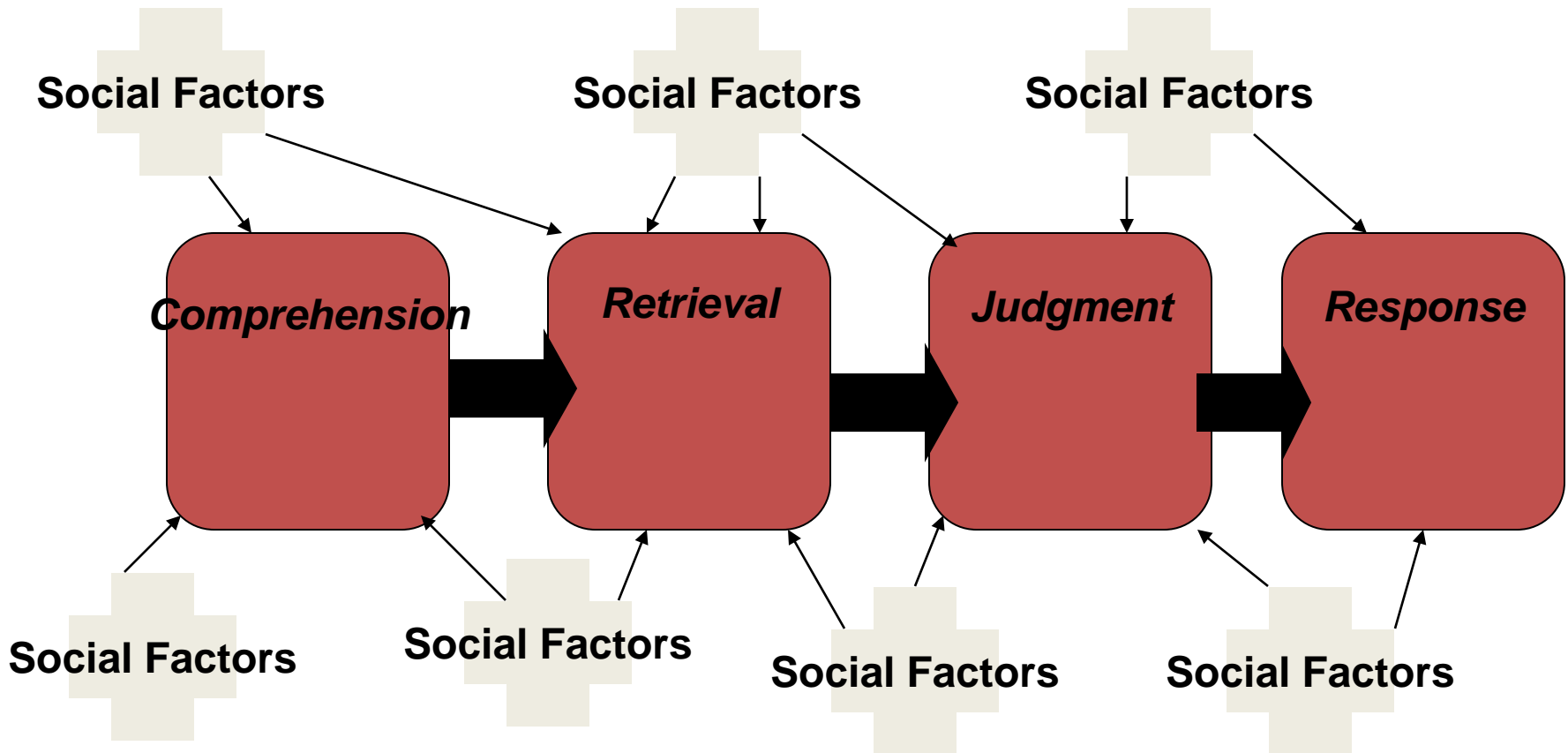
- Not just what is wrong with the question
- Identify non-problematic differences
  - Patterns of interpretation
  - Patterns of calculation, estimation, and forming answers
- To support data users when conducting analysis of survey data

# Good Questions=Question Evaluation

- Empirical study, Evidence-based
  - Not opinion
- Cognitive Test
  - To understand the ways in which a question performs among different respondents  
(Are there question design problems?)
- Field Test
  - To understand the extent to which the performance differs across respondents  
(How big of a problem is it?)



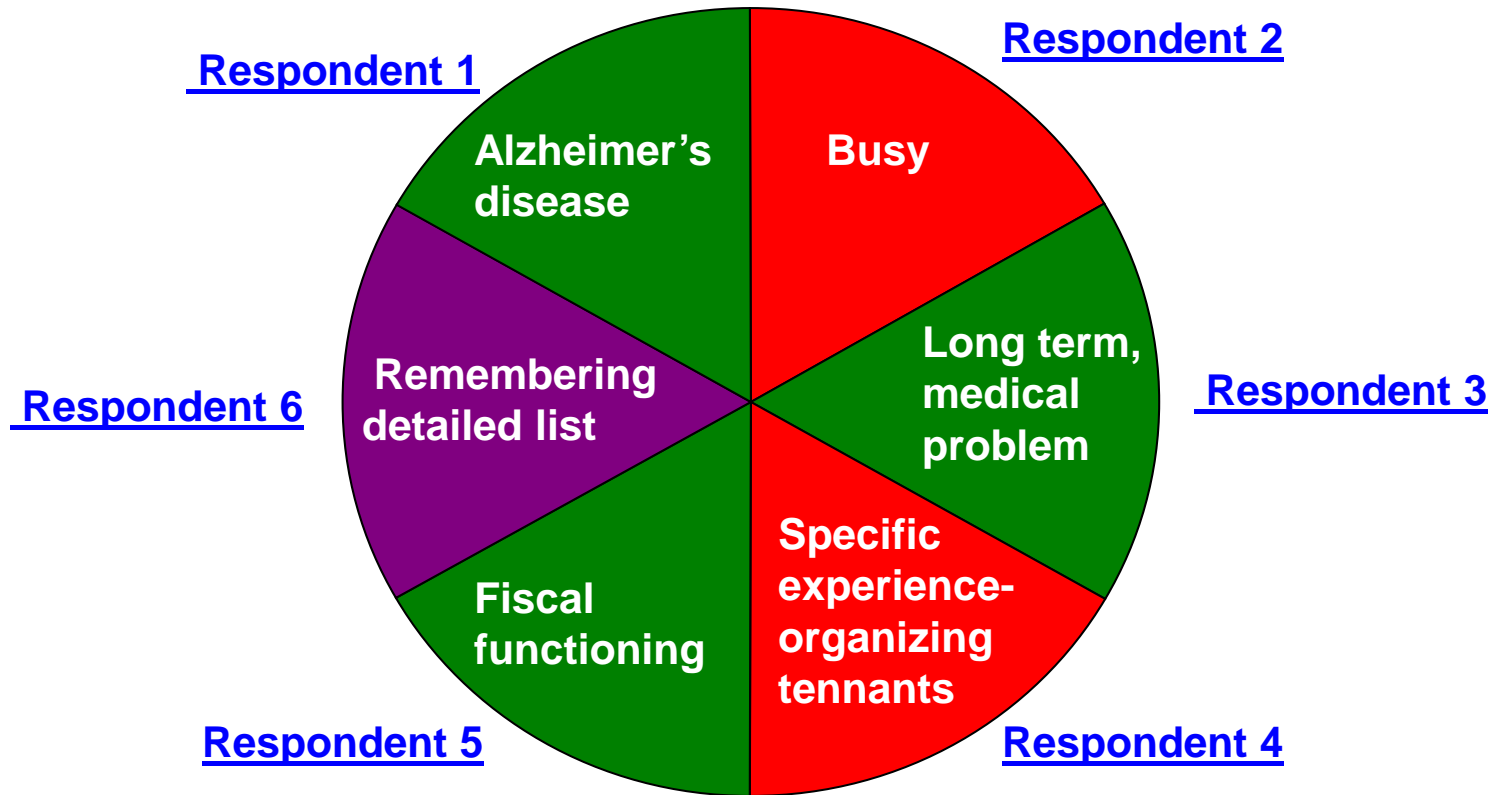
# Question Response Process



# Cognitive Interviews

- Designed to understand how respondents comprehend, retrieve, judge, respond to questions
- Through this examination, can identify
  - potential response errors
  - patterns of interpretation
- Provide insight into social-cultural factors that impact the response process

Overall, during the past 4 weeks, how much difficulty did you have with thinking clearly and solving daily problems?

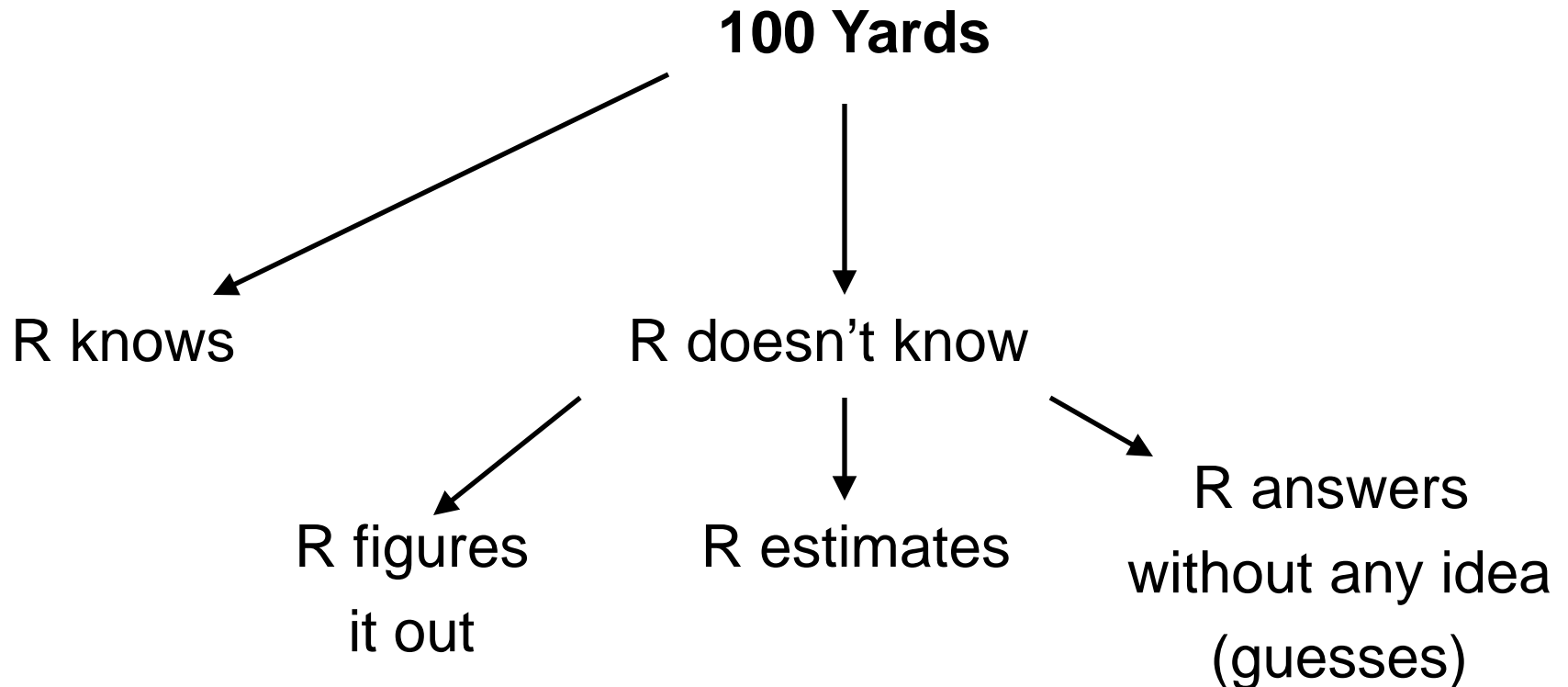


# Analysis of Cognitive Interviews

- Identify patterns across respondents
  - Types of interpretations
  - Ways of forming an answer
  - Types of response problems or errors
- Compare that finding to the next interview
  - Is it the same? If not, how is it different?
- Revelations from the comparisons are the cognitive interview findings

# Example

Overall during the past four weeks, how much difficulty did you have with walking short distances, for example 100 yards/meters?



# Washington Group Cognitive Test

- 10 countries:
  - Cambodia, Canada, Fiji, Kazakhstan, Maldives, Mongolia, Philippines, South Africa, Sri Lanka, United States
- 143 cognitive interviews
  - Captured “the story” of how R answered the question
  - Conducted in language of the respondent
  - Interview notes translated into English
- Q-Notes:
  - New application, developed for this project
  - On-line data entry
  - Allows for fast, in-depth analysis

# Q-Notes

Home

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  - Themes
  - Edit Answers
- Help
- Change Password
- Sign Out

Welcome to Q-Notes, Kristen

To begin, select the project you would like to work on.

Date	Project Name	Investigator
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10/08-12/08	<a href="#">NHANES A-CASI Sensitive Questions</a>	Heather
2/2/09	<a href="#">Washington Group International Disability Testing Round 2</a>	Kristen Miller

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# Q-NOTES

## Interview Details

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- Project
- Questions
- Themes
- Edit Answers
- Help**
- Change Password**
- Sign Out**

### Interview Information

Respondent ID:	<input type="text" value="PHILIPPINES 10"/>	Interview Date:	<input type="text" value="3/6/2009"/>
Interviewer:	<input type="text" value="MBaluyot"/>	Place of Interview:	<input type="text" value="Pasig"/>
Language of Interview:	<input type="text" value="Tagalog"/>		
Country:	<input type="text" value="PHILIPPINES"/> ▼	Age:	<input type="text" value="50"/>
Gender:	<input type="text" value="Female"/> ▼	Marital Status:	<input type="text" value="Currently Married"/> ▼

### Notes

#### Interview Narrative:

The interview was conducted at the respondent's house that was a little bit warm. An electric fan was used to ease the perspiring respondent. She was obese & feel hot most of the time. From time to time, we pause because she seems to have difficulty breathing. According to her, she had an ashrma attack two (2) days ago.

#### Summarizing Memo:



# Response Details

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- Help**
- Change Password**
- Sign Out**

## Response Information

IDR2M3.4: Do you have difficulty walking 100 (meters/yards) on level ground, that would be about (insert country-specific example) [without the use of your [insert aid]]?

3.4 { (މަލްދިވެހިރާއްޖޭގެ ދަށުގައި ) } ..... 3.4 1. ހުށަހަޅާ ސަލާމަތް ގަވާއިދު

100 (މިނިޔާ ޖަދުގައި ) ހުށަހަޅާ ސަލާމަތް ގަވާއިދު 2. ސަލާމަތް ގަވާއިދު ހުށަހަޅާ ސަލާމަތް ގަވާއިދު

ހުށަހަޅާ ސަލާމަތް ގަވާއިދު ހުށަހަޅާ ސަލާމަތް ގަވާއިދު? 3. ސަލާމަތް ގަވާއިދު ހުށަހަޅާ ސަލާމަތް ގަވާއިދު

4. ހުށަހަޅާ ސަލާމަތް ގަވާއިދު / ސަލާމަތް ގަވާއިދު ހުށަހަޅާ ސަލާމަތް ގަވާއިދު

Respondent MALDIVES 7  
 ID:  
 Interviewer: LHakeem [Send Email](#)  
 Interview Date: 3/31/2009  
 Answer: Yes - some difficulty

Notes

know may be very far. but when gave the example to tof the football ground then she immediately said no difficulty.

Save Memo

Others' Summarizing Memos:

Stephanie: Potential error when the respondent takes the question too literally. Interpretation of categories (i.e., difficulty) may vary -- one example = frequency of difficulty vs. level of difficulty. Heather: Difficulty = pain MSchneider: rural dwellers tend to walk long distances and therefore rarely have difficulties in mobility. Soccer is a very popular sport in rural

Analysis

- Themes
Response Consistency
Distance Considered
Aid Instruction
Administrator Code Only
Add New Theme
Help

Category:

Add New Category

- No, not intended distance
Yes, intended distance
No, not intended distance
Missing - Cannot assess

She said she don 100 meter

Delete Theme Information

Update

View Question List

Next Question

- Home**
- Project Options
- Interviews**
- Questions**
- Print Out**
- Analysis**
- Administration Options
- Users
- Project
- Questions
- Themes
- Edit Answers
- Help**
- Change Password**
- Sign Out**

Select Question:

Do you have any difficulty walking or climbing steps?

Answers:

Theme: Response Consistency [Category](#)

Output: Notes  All Categories

Theme: Administrator Code Only [Category](#)

Output: Notes  All Categories

Field	Output	Sort Order
Race	<input type="checkbox"/>	<input type="text"/>
Hispanic	<input type="checkbox"/>	<input type="text"/>
Age	<input type="checkbox"/>	<input type="text"/>
Country	<input type="checkbox"/>	<input type="text"/>
Language	<input type="checkbox"/>	<input type="text"/>
Gender	<input type="checkbox"/>	<input type="text"/>
Education	<input type="checkbox"/>	<input type="text"/>
Income	<input type="checkbox"/>	<input type="text"/>
Question Answer	<input type="checkbox"/>	<input type="text"/>
Narrative	<input checked="" type="checkbox"/>	<input type="text"/>

- Income  [v]
- Question Answer  [v]
- Narrative  [v]
- Location  [v]
- Marital Status  [v]
- Theme Notes  [v]

Group Results?

Reset

Output Results

[Print](#)

RespondentID	Narrative
Canada 13	Probed: Cannot walk at all - am in a wheelchair
MONGOLIA 2	Spinal cord injury owing to the car accident.
MONGOLIA 8	
South Africa 2	she considere both walking and climbing; for her the issue is enteriy with or without her wheelchair and then depends on whether he battery if properly charged or not. She said she refers to 'walking to the shops' when referring to going there in her wheelchair.
SRI LANKA 12	
SRI LANKA 4	She said she can't walk due to knee problem.
United States 18	

**Do you have difficulty walking 100 (meters/yards) on level ground, that would be about (insert country-specific example) [without the use of your [insert aid]]?**

**Do you have difficulty... even when using your [insert aid]?**

	<b>No - no difficulty</b>	<b>Yes - some difficulty</b>	<b>Yes - a lot of difficulty</b>	<b>Cannot do at all</b>
<b>No - no difficulty</b>	8	2	3	2
<b>Yes - some difficulty</b>		2	3	6
<b>Yes - a lot of difficulty</b>	<b>South Africa #3</b>		1	2
<b>Cannot do at all</b>			1	2

# Benefits of Study

- Based on empirical evidence
- Insight into interpretative processes
- Allows for comparative analysis

# Washington Group Cognitive Test

- 10 countries:  
Cambodia, Canada, Fiji, Kazakhstan, Maldives, Mongolia, Philippines, South Africa, Sri Lanka, United States
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# Q-NOTES

## Interview Details

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Respondent ID:	<input type="text" value="PHILIPPINES 10"/>	Interview Date:	<input type="text" value="3/6/2009"/>
Interviewer:	<input type="text" value="MBaluyot"/>	Place of Interview:	<input type="text" value="Pasig"/>
Language of Interview:	<input type="text" value="Tagalog"/>		
Country:	<input type="text" value="PHILIPPINES"/>	Age:	<input type="text" value="50"/>
Gender:	<input type="text" value="Female"/>	Marital Status:	<input type="text" value="Currently Married"/>

### Notes

#### Interview Narrative:

The interview was conducted at the respondent's house that was a little bit warm. An electric fan was used to ease the perspiring respondent. She was obese & feel hot most of the time. From time to time, we pause because she seems to have difficulty breathing. According to her, she had an ashrma attack two (2) days ago.

#### Summarizing Memo:

# Response Details

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3.4 (މަތިން 100 މީޓަރު / 100 ފޯޓް) ގަވާއިދުގައި ފަސޭހަވާގޮތަށް ފަތުރުކުރުމަށް ދަތި ހުރިނോ?

100 (މީޓަރު / ފޯޓް) ގަވާއިދުގައި ފަސޭހަވާގޮތަށް ފަތުރުކުރުމަށް ދަތި ހުރިނോ?

1. ނުދަތި ހުރެއެވެ.

2. ދަތި ހުރެއެވެ.

3. ވަރަށް ދަތި ހުރެއެވެ.

4. ގަވާއިދުގައި ފަސޭހަވާގޮތަށް ފަތުރުކުރުމަށް ދަތި ހުރެއެވެ.

Respondent MALDIVES 7  
 ID:  
 Interviewer: LHakeem [Send Email](#)  
 Interview Date: 3/31/2009  
 Answer:

Notes

know may be very far. but when gave the example to tof the football ground then she immediately said no difficulty.

Save Memo

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Stephanie: Potential error when the respondent takes the question too literally. Interpretation of categories (i.e., difficulty) may vary -- one example = frequency of difficulty vs. level of difficulty. Heather: Difficulty = pain MSchneider: rural dwellers tend to walk long distances and therefore rarely have difficulties in mobility. Soccer is a very popular sport in rural

Analysis

- Themes
Response Consistency
Distance Considered
Aid Instruction
Administrator Code Only
Add New Theme
Help

Category:

Add New Category

- No, not intended distance
Yes, intended distance
No, not intended distance
Missing - Cannot assess

She said she don 100 meter

Delete Theme Information

Update

View Question List

Next Question

- Home
- Project Options
- Interviews
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- Print Out
- Analysis
- Administration Options
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- Questions
- Themes
- Edit Answers
- Help
- Change Password
- Sign Out

Select Question:

Do you have any difficulty walking or climbing steps?

Answers:

Theme: Response Consistency [Category](#)

Output: Notes  All Categories

Theme: Administrator Code Only [Category](#)

Output: Notes  All Categories

Field	Output	Sort Order
Race	<input type="checkbox"/>	<input type="text"/>
Hispanic	<input type="checkbox"/>	<input type="text"/>
Age	<input type="checkbox"/>	<input type="text"/>
Country	<input type="checkbox"/>	<input type="text"/>
Language	<input type="checkbox"/>	<input type="text"/>
Gender	<input type="checkbox"/>	<input type="text"/>
Education	<input type="checkbox"/>	<input type="text"/>
Income	<input type="checkbox"/>	<input type="text"/>
Question Answer	<input type="checkbox"/>	<input type="text"/>
Narrative	<input checked="" type="checkbox"/>	<input type="text"/>

- Income  [v]
- Question Answer  [v]
- Narrative  [v]
- Location  [v]
- Marital Status  [v]
- Theme Notes  [v]

Group Results?

Reset

Output Results

[Print](#)

RespondentID	Narrative
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South Africa 2	she considere both walking and climbing; for her the issue is enteriy with or without her wheelchair and then depends on whether he battery if properly charged or not. She said she refers to 'walking to the shops' when referring to going there in her wheelchair.
SRI LANKA 12	
SRI LANKA 4	She said she can't walk due to knee problem.
United States 18	

**Do you have difficulty walking 100 (meters/yards) on level ground, that would be about (insert country-specific example) [without the use of your [insert aid]]?**

**Do you have difficulty... even when using your [insert aid]?**

	<b>No - no difficulty</b>	<b>Yes - some difficulty</b>	<b>Yes - a lot of difficulty</b>	<b>Cannot do at all</b>
<b>No - no difficulty</b>	8	2	3	2
<b>Yes - some difficulty</b>		2	3	6
<b>Yes - a lot of difficulty</b>	<b>South Africa #3</b>		1	2
<b>Cannot do at all</b>			1	2

# Benefits of Study

- Based on empirical evidence
- Insight into interpretative processes
- Allows for comparative analysis

# Limitations of Study

- Lengthy protocol, hard to cover
- For each item, not always complete data

Therefore,

- Must consider these limitations when making conclusions
- Use field test to fill in gaps
- Gained understanding for making methodological improvements



# Washington Group Cognitive Test

- 10 countries:  
Cambodia, Canada, Fiji, Kazakhstan, Maldives, Mongolia, Philippines, South Africa, Sri Lanka, United States
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# Q-NOTES

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### Interview Information

Respondent ID:	<input type="text" value="PHILIPPINES 10"/>	Interview Date:	<input type="text" value="3/6/2009"/>
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Language of Interview:	<input type="text" value="Tagalog"/>		
Country:	<input type="text" value="PHILIPPINES"/> ▼	Age:	<input type="text" value="50"/>
Gender:	<input type="text" value="Female"/> ▼	Marital Status:	<input type="text" value="Currently Married"/> ▼

### Notes

#### Interview Narrative:

The interview was conducted at the respondent's house that was a little bit warm. An electric fan was used to ease the perspiring respondent. She was obese & feel hot most of the time. From time to time, we pause because she seems to have difficulty breathing. According to her, she had an ashrma attack two (2) days ago.

#### Summarizing Memo:

# Washington Group Cognitive Test

- 10 countries:
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# Q-NOTES

## Interview Details

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### Interview Information

Respondent ID:	<input type="text" value="PHILIPPINES 10"/>	Interview Date:	<input type="text" value="3/6/2009"/>
Interviewer:	<input type="text" value="MBaluyot"/>	Place of Interview:	<input type="text" value="Pasig"/>
Language of Interview:	<input type="text" value="Tagalog"/>		
Country:	<input type="text" value="PHILIPPINES"/>	Age:	<input type="text" value="50"/>
Gender:	<input type="text" value="Female"/>	Marital Status:	<input type="text" value="Currently Married"/>

### Notes

#### Interview Narrative:

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#### Summarizing Memo:



know may be very far. but when gave the example to tof the football ground then she immediately said no difficulty.

### Save Memo

#### Others' Summarizing Memos:

Stephanie: Potential error when the respondent takes the question too literally. Interpretation of categories (i.e., difficulty) may vary -- one example = frequency of difficulty vs. level of difficulty.  
Heather: Difficulty = pain  
MSchneider: rural dwellers tend to walk long distances and therefore rarely have difficulties in mobility. Soccer is a very popular sport in rural

### Analysis

- Themes
  - Response Consistency
  - Distance Considered**
  - Aid Instruction
  - Administrator Code Only
- [Add New Theme](#)
- [Help](#)

### Category:

[Add New Category](#)

- No, not intended distance
- Yes, intended distance**
- No, not intended distance
- Missing - Cannot assess

She said she don  
100 meter

[Delete Theme Information](#)

[View Question List](#)

[Next Question](#)



- Home**
- Project Options
- Interviews**
- Questions**
- Print Out**
- Analysis**
- Administration Options
- Users
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- Questions
- Themes
- Edit Answers
- Help**
- Change Password**
- Sign Out**

Select Question:

Do you have any difficulty walking or climbing steps?

Answers:

Theme: Response Consistency [Category](#)

Output: Notes  All Categories

Theme: Administrator Code Only [Category](#)

Output: Notes  All Categories

Field	Output	Sort Order
Race	<input type="checkbox"/>	<input type="text"/>
Hispanic	<input type="checkbox"/>	<input type="text"/>
Age	<input type="checkbox"/>	<input type="text"/>
Country	<input type="checkbox"/>	<input type="text"/>
Language	<input type="checkbox"/>	<input type="text"/>
Gender	<input type="checkbox"/>	<input type="text"/>
Education	<input type="checkbox"/>	<input type="text"/>
Income	<input type="checkbox"/>	<input type="text"/>
Question Answer	<input type="checkbox"/>	<input type="text"/>
Narrative	<input checked="" type="checkbox"/>	<input type="text"/>

- Income  [v]
- Question Answer  [v]
- Narrative  [v]
- Location  [v]
- Marital Status  [v]
- Theme Notes  [v]

Group Results?

Reset

Output Results

[Print](#)

RespondentID	Narrative
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MONGOLIA 2	Spinal cord injury owing to the car accident.
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SRI LANKA 12	
SRI LANKA 4	She said she can't walk due to knee problem.
United States 18	

**Do you have difficulty walking 100 (meters/yards) on level ground, that would be about (insert country-specific example) [without the use of your [insert aid]]?**

**Do you have difficulty... even when using your [insert aid]?**

	<b>No - no difficulty</b>	<b>Yes - some difficulty</b>	<b>Yes - a lot of difficulty</b>	<b>Cannot do at all</b>
<b>No - no difficulty</b>	8	2	3	2
<b>Yes - some difficulty</b>		2	3	6
<b>Yes - a lot of difficulty</b>	<b>South Africa #3</b>		1	2
<b>Cannot do at all</b>			1	2

know may be very far. but when gave the example to tof the football ground then she immediately said no difficulty.

Save Memo

Others' Summarizing Memos:

Stephanie: Potential error when the respondent takes the question too literally. Interpretation of categories (i.e., difficulty) may vary -- one example = frequency of difficulty vs. level of difficulty. Heather: Difficulty = pain MSchneider: rural dwellers tend to walk long distances and therefore rarely have difficulties in mobility. Soccer is a very popular sport in rural

Analysis

- Themes
Response Consistency
Distance Considered
Aid Instruction
Administrator Code Only
Add New Theme
Help

Category:

Add New Category

- No, not intended distance
Yes, intended distance
No, not intended distance
Missing - Cannot assess

She said she don 100 meter

Delete Theme Information

Update

View Question List

Next Question

- Home**
- Project Options
- Interviews**
- Questions**
- Print Out**
- Analysis**
- Administration Options
- Users
- Project
- Questions
- Themes
- Edit Answers
- Help**
- Change Password**
- Sign Out**

Select Question:

Do you have any difficulty walking or climbing steps?

Answers:

Theme: Response Consistency [Category](#)

Output: Notes  All Categories

Theme: Administrator Code Only [Category](#)

Output: Notes  All Categories

Field	Output	Sort Order
Race	<input type="checkbox"/>	<input type="text"/>
Hispanic	<input type="checkbox"/>	<input type="text"/>
Age	<input type="checkbox"/>	<input type="text"/>
Country	<input type="checkbox"/>	<input type="text"/>
Language	<input type="checkbox"/>	<input type="text"/>
Gender	<input type="checkbox"/>	<input type="text"/>
Education	<input type="checkbox"/>	<input type="text"/>
Income	<input type="checkbox"/>	<input type="text"/>
Question Answer	<input type="checkbox"/>	<input type="text"/>
Narrative	<input checked="" type="checkbox"/>	<input type="text"/>

- Income  [v]
- Question Answer  [v]
- Narrative  [v]
- Location  [v]
- Marital Status  [v]
- Theme Notes  [v]

Group Results?

Reset

Output Results

[Print](#)

RespondentID	Narrative
Canada 13	Probed: Cannot walk at all - am in a wheelchair
MONGOLIA 2	Spinal cord injury owing to the car accident.
MONGOLIA 8	
South Africa 2	she considere both walking and climbing; for her the issue is enteriy with or without her wheelchair and then depends on whether he battery if properly charged or not. She said she refers to 'walking to the shops' when referring to going there in her wheelchair.
SRI LANKA 12	
SRI LANKA 4	She said she can't walk due to knee problem.
United States 18	

**Do you have difficulty walking 100 (meters/yards) on level ground, that would be about (insert country-specific example) [without the use of your [insert aid]]?**

**Do you have difficulty... even when using your [insert aid]?**

	<b>No - no difficulty</b>	<b>Yes - some difficulty</b>	<b>Yes - a lot of difficulty</b>	<b>Cannot do at all</b>
<b>No - no difficulty</b>	8	2	3	2
<b>Yes - some difficulty</b>		2	3	6
<b>Yes - a lot of difficulty</b>	<b>South Africa #3</b>		1	2
<b>Cannot do at all</b>			1	2

# Benefits of Study

- Based on empirical evidence
- Insight into interpretative processes
- Allows for comparative analysis



# Benefits of Study

- Based on empirical evidence
- Insight into interpretative processes
- Allows for comparative analysis

# Limitations of Study

- Lengthy protocol, hard to cover
- For each item, not always complete data

Therefore,

- Must consider these limitations when making conclusions
- Use field test to fill in gaps
- Gained understanding for making methodological improvements

# UPPER BODY

Lifting and Picking Up

# Upper Body-Lifting Questions

Do you have difficulty raising a 2 liter jug of water from waist to eye level?

Do you use any aids or equipment or receive help with lifting?

If Yes: What types of aids, equipment or assistance do you use?

Do you have difficulty raising a 2 liter jug of water from waist to eye level even when using your aid?

# Upper Body-Lifting Findings

## Assistive Device

- Respondents had difficulty thinking about the use of an aid for lifting
- Varied conceptualizations of what to count as an aid
  - Primarily, others' assistance
  - Using a grabber to reach things off a high shelf
  - Having their body be lifted from bed to wheel chair

# Upper Body-Lifting Findings

## Assistive Device

- These conceptualizations then made for confusion in the next jug question.
  - If it is others' assistance, they would not have a problem because the other person is accomplishing the activity
  - The grabber is irrelevant because it would not be used in this situation
  - Assistance lifting out of bed didn't pertain at all

# Upper Body-Lifting Findings

## Interpretations of Lifting

- Most considered lifting from waist up to eye level
- However, some respondents with knee or back problems thought of lifting an item from the floor and stated that they would have some difficulty.
- Evidence that respondents are evaluating their functional ability; Respondents clarified ‘I would need to use both hands’ or ‘I could do it with my one arm.’”

# Upper Body-Lifting Findings

## Weight/2-Liter Jug

- Much evidence that 2-liter works well when respondents think of 2-liter soda bottles (relatively consistent across countries)
- Still some evidence of not knowing weight (those not thinking of soda bottle)



# Cognitive Interview Data

## Respondent Interpretation of 2-Liter Weight

<b>Soda/Water Bottle</b>	<b>Other Valid Example</b>	<b>Did Not Know</b>	<b>Not Code-able</b>
<b>23% (18)</b>	<b>30% (23)</b>	<b>9% (7)</b>	<b>39% (30)</b>

N = 78

<b>N = 78</b>	<b>Bottle</b>	<b>Other Example</b>	<b>Did Not Know</b>	<b>Not Code-able</b>
<b>Cambodia (14)</b>	<b>1</b>	<b>7</b>	<b>0</b>	<b>6</b>
<b>Canada (8)</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>2</b>
<b>Fiji (2)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>
<b>Kazakhstan (9)</b>	<b>1</b>	<b>3</b>	<b>0</b>	<b>5</b>
<b>Maldives (17)</b>	<b>8</b>	<b>3</b>	<b>2</b>	<b>4</b>
<b>Mongolia (3)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>
<b>Philippines (7)</b>	<b>2</b>	<b>3</b>	<b>0</b>	<b>2</b>
<b>South Africa (4)</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>2</b>
<b>Sri Lanka (2)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>
<b>United States (13)</b>	<b>3</b>	<b>6</b>	<b>1</b>	<b>3</b>

<b>N = 78</b>	<b>Bottle</b>	<b>Other Example</b>	<b>Did Not Know</b>
<b>Men (30)</b>	<b>23.3% (7)</b>	<b>47% (14)</b>	<b>0</b>
<b>Women (48)</b>	<b>22.9% (11)</b>	<b>18.6% (9)</b>	<b>14.6% (7)</b>

<b>N = 78</b>	<b>Not Code-able</b>
<b>Men (30)</b>	<b>30% (9)</b>
<b>Women (48)</b>	<b>70% (21)</b>

# Upper Body-Picking Up Questions

Do you use any aids or equipment or receive help when using your hands or fingers?

If Yes: What types of aids, equipment or assistance do you use?

Do you have difficulty using your hands and fingers, such as picking up small objects, for example, a button or pencil, or opening or closing containers or bottles [*even when using your aid*]?

# Upper Body Findings

## Finger Question

- Interpretations
  - Primarily use of fingers—as is intended
  - But some evidence of picking things off the floor
  - Vision problems
- Evidence that respondents are evaluating their functional ability-- being able to do it with only one hand
- Aid for the finger question primarily included help from others

# Upper Body Embedded Questions

How old were you when the difficulty lifting began?

Is your difficulty lifting due to a health problem or something else?

Does your difficulty lifting limit your ability to carry out daily activities?

Does your difficulty lifting limit your ability to carry out other activities that are not part of your day-to-day life?

# Upper Body Embedded Set Findings

- No difference in phenomena captured as daily and non-daily activities
- Non-health problems were really health problems; using as a screener would screen out too many
- Tedious

(\*Same findings in all domains)

# Summary of Upper Body Cognitive Findings

- Relatively consistent interpretation of lifting and picking up, with some exceptions
- Assistive device clause creates some confusion
- 2-liter weight maybe more problematic for women
- Embedded set is problematic



# Revisions for Field Test Questionnaire

Assistive device: removed from this domain

2-liter weight: revised question to explicitly mention soda  
bottle

Interpretation:

Lifting up: bottle inserted into question to indicate  
drinking

Picking up: added follow up question to determine  
extent

Impact questions: revised (\*for all domains)

# Upper Body Field Test

Do you have difficulty raising a 2 liter bottle of water or soda from waist to eye level?

Do you have difficulty using your hands and fingers, such as picking up small objects, for example, a button or pencil, or opening or closing containers or bottles?

In answering this last question, were you thinking about bending down to pick up an object from the floor, picking up an object from a table, or something else?

# Upper Body Field Test

How old were you when the difficulty lifting or using your hands and fingers began?

How much does your difficulty lifting or using your hands and fingers limit your ability to carry out daily activities?

# Upper Body Field Test

Which of the following activities, if any, are you unable to do, or find it hard to do, because of your difficulty lifting or using your hands and fingers?

Working to support you or your family?

Working outside the home to earn an income?

Going to school or achieving your education goals?

Participating in leisure or social activities?

Getting out with friends or family?

Doing household chores such as cooking and cleaning?

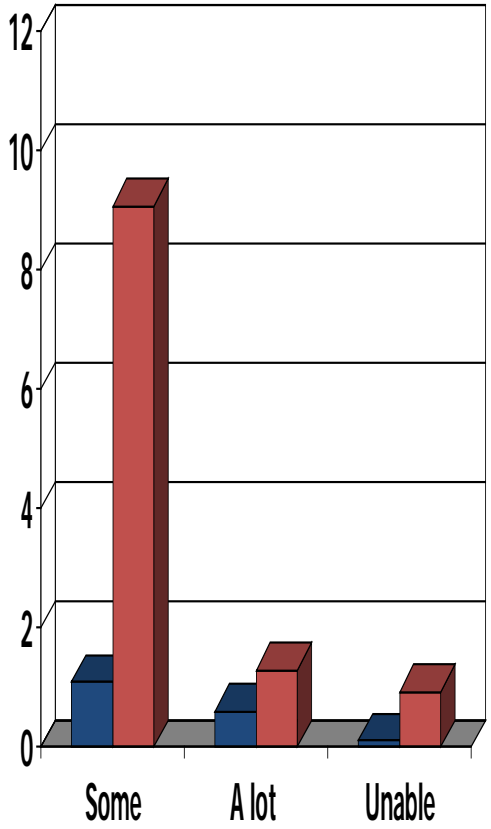
Using transportation to get to places you want to go?

Participating in religious activities?

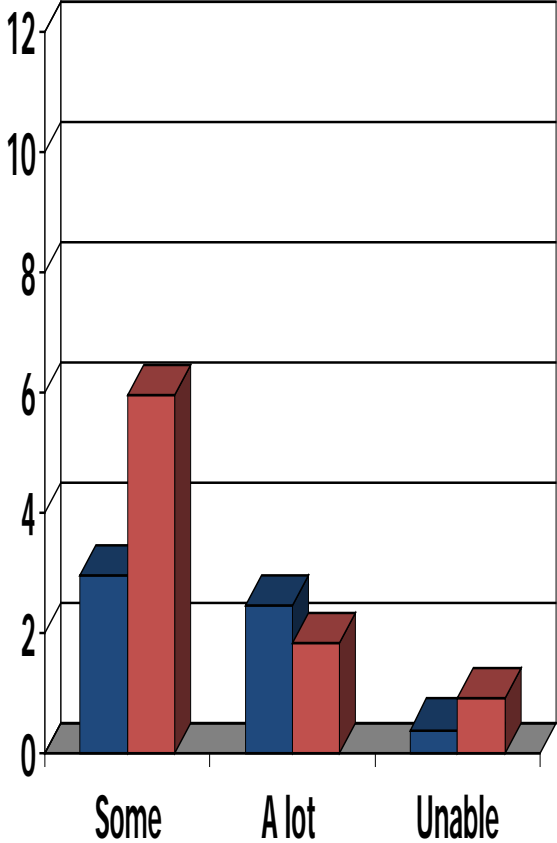
Participating in community gatherings?

# Field Test Data

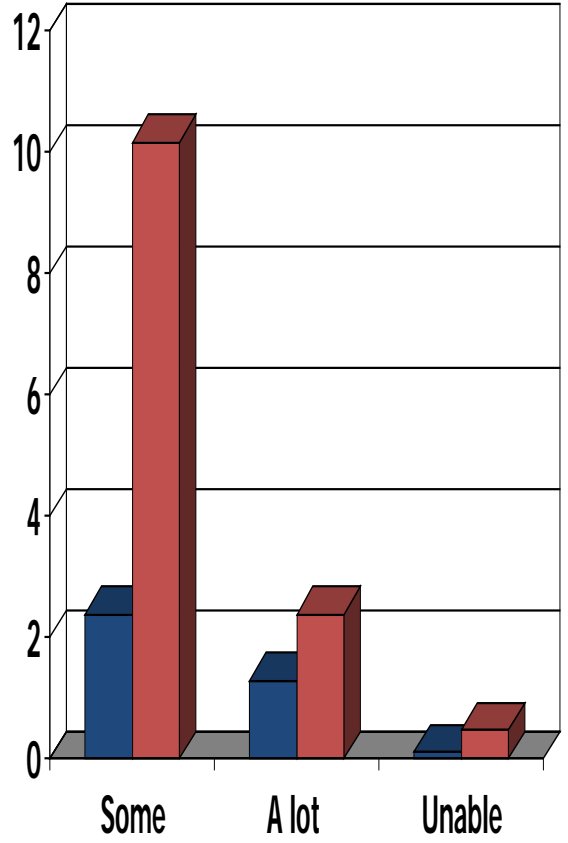
## Country Prevalence



**Self-Care Difficulty-Short set question**



**Lifting Difficulty**



**Picking Up Difficulty**

# Field Test Data: Picking up from floor or table vs. Difficulty using fingers

		No – no Difficulty	Yes – some difficulty	Yes – a lot of difficulty	Cannot do	Country Percentage
Floor	Maldives	217	5	5	0	25.6%
	Sri Lanka	124	22	6	1	41%
Table	Maldives	217	7	3	0	25.6%
	Sri Lanka	4	4	0	0	2.1%
Else	Maldives	422	6	4	0	48.8%
	Sri Lanka	111	79	19	3	56.8%
Maldives N=886; Missing Cases=123 Sri Lanka N=373; Missing Cases=716						

# Field Test Data:

Do you have difficulty walking or climbing stairs?

Picking up from floor, table or something else

	No – no Difficulty	Yes – some difficulty	Yes – a lot of difficulty	Cannot do
Floor	69.7%	17.4%	12%	.8%
Table	73.6%	13.2%	12.8%	.4%
Else	70.5%	19%	10.2%	.3%

N=1246

# Field Test Data: Picking up from floor or table vs. Difficulty using fingers

		No – no Difficulty	Yes – some difficulty	Yes – a lot of difficulty	Cannot do	Country Percentage
Floor	Maldives	217	5	5	0	25.6%
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N=1246

# Mongolia's Experiences