

United Nations Regional Meeting on disability Measurement and Statistics in  
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# **Demographic and Health Survey 2014**

*The Experiences of Cambodia –the adoption of the Washington Group  
short set disability questionnaire*

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# Outline of presentation

- Background
- Objective
- Sample coverage
- Methodology
- Questionnaire
- Results

# Background

- Cambodia experienced near three decades of civil conflict from the 1970s through to the end of the 1990s, marked by a period of genocide by the Khmer Rouge in 1975-1979
- A history of civil and regional conflicts and current low income country status would lead to increase risk of disability
- The 2008 Population Census counted a prevalence rate of 1.4% of the Cambodian population as disabled from the question, *'if the persons is physically or mentally disabled give the appropriate code' according to categories of seeing, speech, hearing, movement and mental*
- The 2014 Cambodia Socio-Economic Survey adopts a functioning based measure of disability: *'Do you have any of the following: difficulty seeing, hearing, speaking, moving, feeling or sensing, psychological or behavioural difficulties, learning difficulties, fits, others?' For persons that experience difficulty in any of the nine domains, they are asked a second question: 'Is the difficulty mild, moderate or severe?'*
- The 2014 version of the survey returned a disability prevalence of 3.6%

# Background

- In 2009, Cambodia participates in the project on improvement of disability measurement and statistics in the Asia & Pacific region
  - Conducted cognitive test and pilot testing on data collection of the WG short set and extended set on disability statistics
  - Participated in a series of WG meeting
- In 2014, Cambodia has also participates in the regional project to conduct cognitive testing questions for Module on Disability Survey (MDS) and pilot survey on MDS, supported by Statistics Norway and WHO

# Objective

- The 2014 CDHS includes for the first time the internationally standardized Washington Group short set disability questionnaire
- The primary objective of the CDHS is to provide the updated data on infant and child mortality, fertility preferences, family planning behavior, maternal mortality, utilization of maternal and child health services, health expenditures, women's status, and knowledge and behavior regarding HIV/AIDS and other sexually transmitted infections
- This information contributes to policy decisions, planning, monitoring, and program evaluation for the development of Cambodia at both the national and local government levels

# Sample coverage

- The master sample is based on the 2008 Population Census served as the sampling frame for the CDHS 2014
- The survey covered a sample of 16,356 households with 18,012 women and 5,484 men between the age of 15 and 49
- The total sample size was 15,825 households (74,112 individuals) with a sample response rate of 99%
- To achieve a balance between the ability to provide estimates at the subnational level and limiting the sample size, 19 sampling domains were defined, 14 of which correspond to individual provinces and 5 of which correspond to grouped provinces:
  - *Fourteen individual provinces:* Banteay Meanchey, Kampong Cham, Kampong Chhnang, Kampong Speu, Kampong Thom, Kandal, Kratie, Phnom Penh, Prey Veng, Pursat, Siem Reap, Svay Rieng, Takeo, and Otdar Meanchey
  - *Five groups of provinces:* Battambang and Pailin, Kampot and Kep, Preah Sihanouk and Koh Kong, Preah Vihear and Stung Treng, and Mondul Kiri and Ratanak Kiri

# Sample Coverage

Number of households, number of interviews, and response rates, according to residence (unweighted), Cambodia 2014

Result	Residence		Total
	Urban	Rural	
<b>Household interviews</b>			
Households selected	4,512	11,844	16,356
Households occupied	4,399	11,538	15,937
Households interviewed	4,366	11,459	15,825
Household response rate <sup>1</sup>	99.2	99.3	99.3
<b>Interviews with women age 15-49</b>			
Number of eligible women	5,842	12,170	18,012
Number of eligible women interviewed	5,667	11,911	17,578
Eligible women response rate <sup>2</sup>	97.0	97.9	97.6
<b>Interviews with men age 15-49</b>			
Number of eligible men	1,641	3,843	5,484
Number of eligible men interviewed	1,540	3,650	5,190
Eligible men response rate <sup>2</sup>	93.8	95.0	94.6

<sup>1</sup> Households interviewed/households occupied

<sup>2</sup> Respondents interviewed/eligible respondents

# Methodology

- The 2014 CDHS was collected on each household member age 5 and older about whether he or she had difficulties with seeing, hearing, walking or climbing stairs, remembering or concentrating, performing self-care, or communicating
- The survey also collected information as to the severity of these disabilities, that is, whether a disabled person has some difficulty performing the listed activities, a great deal of difficulty, or cannot perform the listed activities at all



# Disability Questionnaire

- The 2014 CDHS adopts the WG short set disability questionnaire, containing of 6 functional domains: Seeing, Hearing, Walking or Climbing, Remembering and Concentrating, Self-care, and Communicating
- Each household completed a household questionnaire with the person with most knowledge of the household responding on behalf of all members
- Separate questionnaires were administered to female and male household members aged 15-49 years

# CDHS 2014 - Disability Questionnaire

## DISABILITY (IF AGE 5 YEARS AND OLDER)

LINE NO.	PROBLEM OF VISION	PROBLEM OF HEARING	PROBLEM OF WALKING OR CLIMBING	PROBLEM OF REMEMBERING OR CONCENTRATING	PROBLEM WITH SELF-CARE	PROBLEM OF COMMUNICATING
	1	2	3	4	5	6
	<p>Does [NAME] have difficulty seeing, even if wearing glasses?</p> <p>IF NO, CIRCLE "1" IF YES, PROB: With some difficulty? IF YES CIRCLE "2" With a lot of difficulty? IF YES CIRCLE "3" Cannot see at all? IF YES CIRCLE "4" II DON'T KNOW CIRCLE "5"</p>	<p>Does [NAME] have difficulty seeing, even if using a hearing aid?</p> <p>IF NO, CIRCLE "1" IF YES, PROB: With some difficulty? IF YES CIRCLE "2" With a lot of difficulty? IF YES CIRCLE "3" Cannot see at all? IF YES CIRCLE "4" II DON'T KNOW CIRCLE "5"</p>	<p>Does [NAME] have Difficulty walking or climbing steps?</p> <p>IF NO, CIRCLE "1" IF YES, PROB: With some difficulty? IF YES CIRCLE "2" With a lot of difficulty? IF YES CIRCLE "3" Cannot see at all? IF YES CIRCLE "4" II DON'T KNOW CIRCLE "5"</p>	<p>Does [NAME] have difficulty remembering or concentrating?</p> <p>IF NO, CIRCLE "1" IF YES, PROB: With some difficulty? IF YES CIRCLE "2" With a lot of difficulty? IF YES CIRCLE "3" Cannot see at all? IF YES CIRCLE "4" II DON'T KNOW CIRCLE "5"</p>	<p>Does [NAME] have difficulty with self-care such as washing all over or dressing?</p> <p>IF NO, CIRCLE "1" IF YES, PROB: With some difficulty? IF YES CIRCLE "2" With a lot of difficulty? IF YES CIRCLE "3" Cannot see at all? IF YES CIRCLE "4" II DON'T KNOW CIRCLE "5"</p>	<p>Because of a physical, mental or emotional health condition, does [NAME] have difficulty communicating, for example understanding others or others understanding him/her?</p> <p>IF NO, CIRCLE "1" IF YES, PROB: With some difficulty? IF YES CIRCLE "2" With a lot of difficulty? IF YES CIRCLE "3" Cannot see at all? IF YES CIRCLE "4" II DON'T KNOW CIRCLE "5"</p>
1	N YS YA YT DK 1 2 3 4 5	N YS YA YT DK 1 2 3 4 5	N YS YA YT DK 1 2 3 4 5	N YS YA YT DK 1 2 3 4 5	N YS YA YT DK 1 2 3 4 5	N YS YA YT DK 1 2 3 4 5
2	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5
3	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5
...	...	...	...	...	...	...
9	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5
10	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5

N= NO  
YS= YES SOME DIFFICULTY  
YA= YES A LOT OF DIFFICULTY

YT= YES CANNOT ... AT ALL (TOTALLY)  
DK= DON'T KNOW

# Defining Disability

Types of disability	Level of difficulty			
	No difficulty	Yes, some difficulty	Yes, a lot of difficulty	Yes, cannot do at all
Seeing		X	x	x
Hearing		X	x	x
Walking/climbing		X	x	X
Remembering/ concentrating		X	x	X
Self-care		X	x	X
Communicating		X	x	X

# Defining of Disability

- We adopt a general measure of disability as:
  - Persons who experience at least some difficulty in any of the six functioning domains referred throughout the report as ‘any disability’
  - Persons who experience a lot of difficulty or cannot do in at least one of the six functioning domains, referred throughout the report as ‘severe disability’

# Results

## Disability among General Population

- About 10% of population age 5 and over have some form of disability
- The prevalence of disability increases with age, from 2% among children age 5-14 to 44% among those age 60 and above
- The prevalence of disability is 13% among persons age 35-59

## Disability among General Population

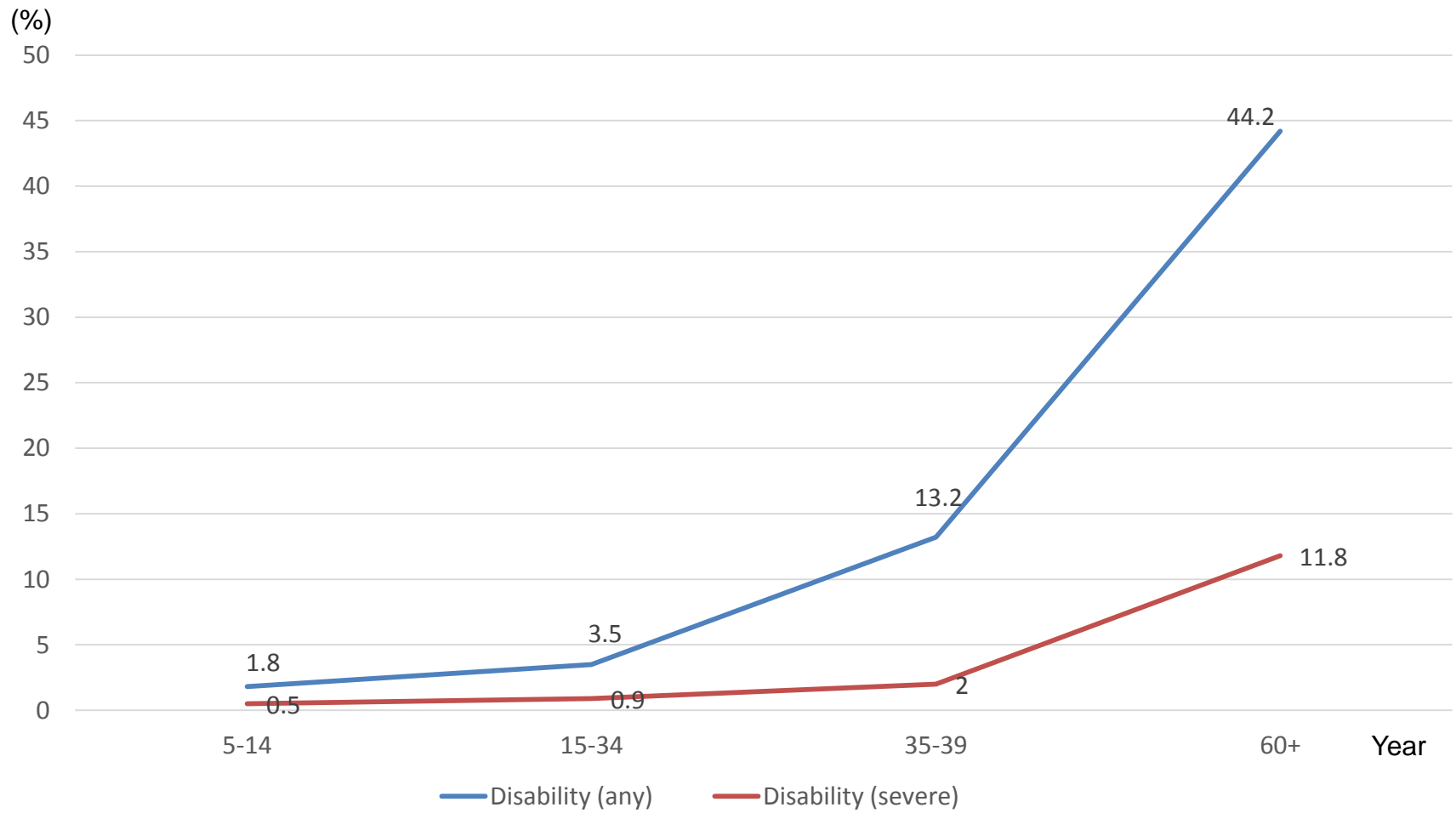
- Overall, 10% of household members age 5 and older suffer with at least one form of disability.
- 21% of household members who were ill or injured in the 30 days prior to the interview are disabled.
- The most common types of disabilities reported in the survey are difficulties in seeing, walking or climbing stairs, and concentrating.
- One in 10 men who are not currently employed are disabled, as compared with only 5 percent among other men.

## Disability prevalence by severity, gender and location of residence, CDHS 2014

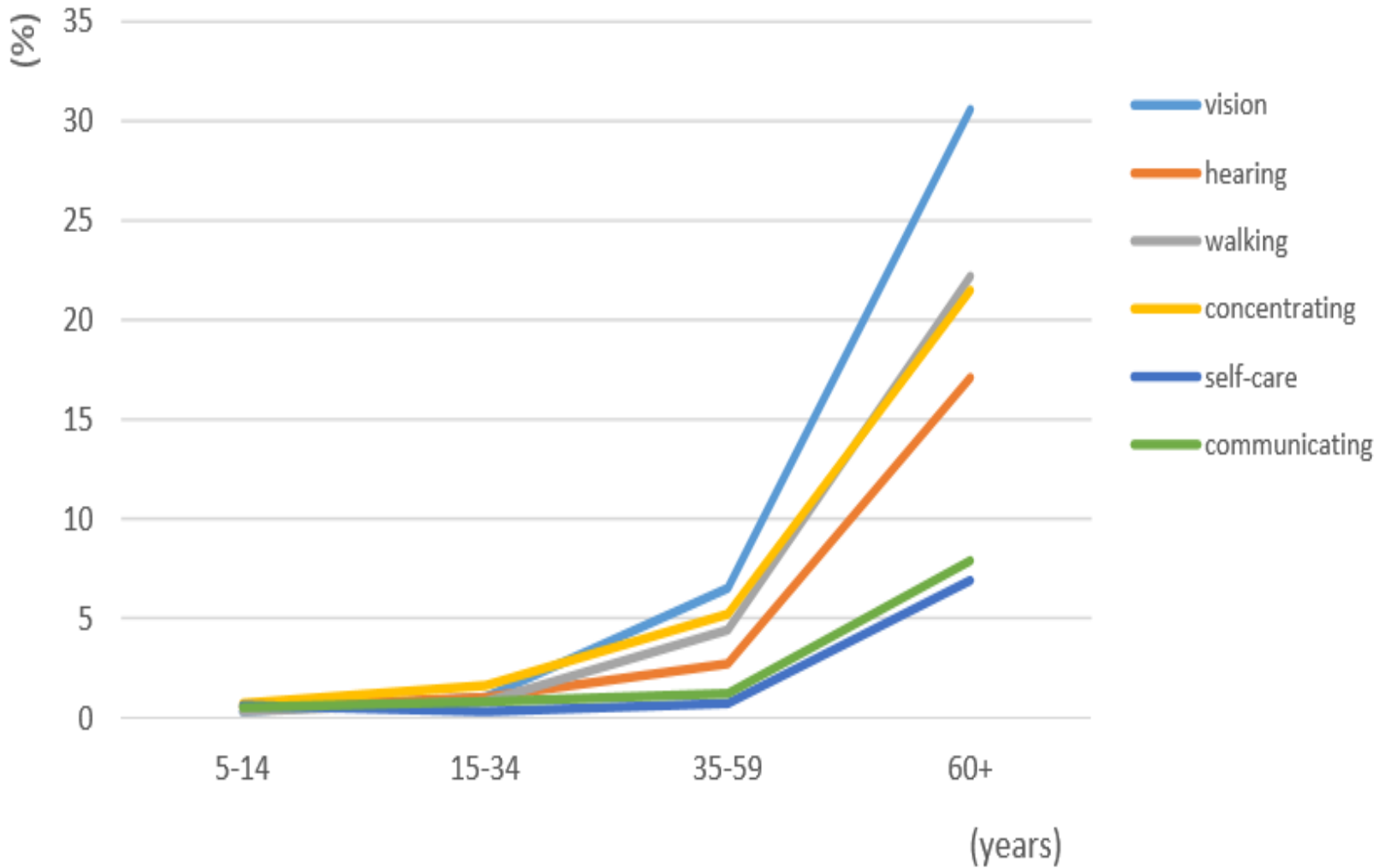
	<b>Cambodia</b>			<b>Urban</b>			<b>Rural</b>		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Disability (any)	9.5	10.4	8.4	9.6	10.6	8.5	8.6	9.2	7.9
Disability (severe)	2.1	2.3	1.9	2.1	2.3	1.9	2.2	2.3	2.1



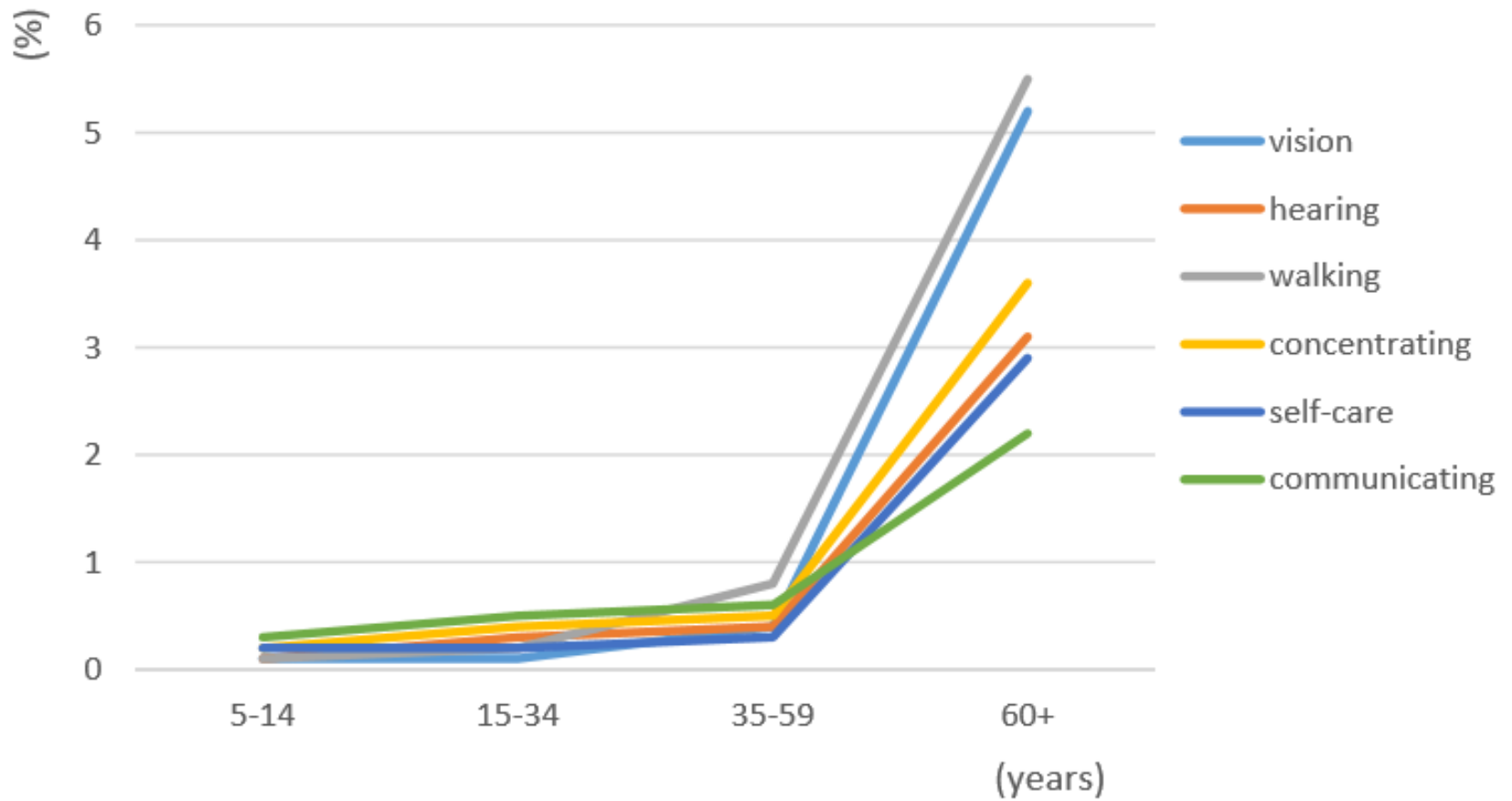
# Disability prevalence by age and severity, CDH 2014



# Disability (any) prevalence by type of functioning difficulty, 2014



# Disability (severe) prevalence by type of functioning difficulty, 2014



## Disability prevalence by age category, functional limitation category and level of functional difficulty, CDHS 2014

	Seeing	Hearing	Walking	Remembering	Self-care	Communicating
		hearing	walking	& concentrating		
<i><u>Any level of functional difficulty</u></i>						
5-14	0.3	0.5	0.3	0.7	0.6	0.5
15-34	1.0	1.0	0.8	1.6	0.3	0.8
35-59	6.5	2.7	4.4	5.2	0.7	1.2
60+	30.6	17.1	22.2	21.5	6.9	7.9
All age sample	5.1	2.8	3.7	4.2	1.1	1.5
<i><u>Moderate to severe level of functional difficulty</u></i>						
5-14	0.1	0.1	0.1	0.2	0.2	0.3
15-34	0.1	0.3	0.2	0.4	0.2	0.5
35-59	0.4	0.4	0.8	0.5	0.3	0.6
60+	5.2	3.1	5.5	3.6	2.9	2.2
All age sample	0.7	0.6	0.9	0.7	0.5	0.6

# Percentage of population aged 5 years and over by type of disabilities and background characteristics, CDHS 2014

Background characteristic	No difficulty	<u>Some difficulty, a lot of difficulty, or cannot do</u>						<u>A lot of difficulty or cannot do</u>					
		Seeing	Hearing	Walking	Concentrating	Self-care	Communicating	Seeing	Hearing	Walking	Concentrating	Self-care	Communicating
<b>Total</b>	90.5	5.1	2.8	3.7	4.2	1.1	1.5	0.7	0.6	0.9	0.7	0.5	0.6
<b>Age</b>													
5-14	98.2	0.3	0.5	0.3	0.7	0.6	0.5	0.1	0.1	0.1	0.2	0.2	0.3
15-34	96.5	1.0	1.0	0.8	1.6	0.3	0.8	0.1	0.3	0.2	0.4	0.2	0.5
35-59	86.8	6.6	2.7	4.4	5.2	0.7	1.2	0.4	0.4	0.9	0.5	0.3	0.6
60+	55.7	30.5	17.0	22.3	21.5	6.9	7.9	5.3	3.2	5.5	3.6	3.0	2.2
<b>Sex</b>													
Male	91.5	4.2	2.5	3.1	3.5	1.0	1.3	0.5	0.6	0.8	0.6	0.4	0.6
Female	89.5	5.9	3.1	4.2	4.9	1.2	1.7	0.8	0.6	0.9	0.8	0.5	0.6

# Percentage of population aged 5 years and over by type of disabilities and background characteristics, CDHS 2014

Background characteristic	No difficult y	<u>Some difficulty, a lot of difficulty, or cannot do</u>						<u>A lot of difficulty or cannot do</u>					
		Seeing	Hearing	Walking	Concentr ating	Self-care	Communi cating	Seeing	Hearing	Walking	Concen trating	Self-care	Communi cating
<b>Marital status<sup>1</sup></b>													
Never married	94.9	1.5	1.5	1.3	2.3	0.9	1.9	0.3	0.6	0.6	1.0	0.4	1.3
Married	88.4	6.4	3.1	4.4	4.9	0.8	1.1	0.6	0.5	0.8	0.4	0.3	0.3
Widowed	63.1	25.0	14.7	19.2	18.4	6.2	7.1	4.6	2.8	5.3	3.6	2.8	2.2
Divorced	86.9	6.2	2.8	3.6	6.3	1.6	2.7	0.8	0.8	0.7	1.5	0.9	1.4
<b>Education</b>													
No education	79.4	12.0	7.7	9.1	10.4	3.8	5.1	2.3	2.1	2.4	2.5	1.8	2.4
Primary	91.3	4.5	2.4	3.2	3.5	0.7	1.0	0.5	0.4	0.7	0.4	0.3	0.3
Secondary	94.5	2.6	1.1	1.9	2.2	0.4	0.5	0.2	0.1	0.4	0.3	0.1	0.2
Higher	97.2	1.3	0.4	0.4	1.7	0.0	0.2	0.1	0.1	0.1	0.1	0.0	0.1

<sup>1</sup> Marital status was asked only for household members age 15 or older

# Percentage of population aged 5 years and over by type of disabilities and provinces, CDHS 2014

Region/province	No difficult y	Some difficulty, a lot of difficulty, or cannot do						A lot of difficulty or cannot do						
		Seeing	Hearing	Walking	Concentra ting	Self-care	Communi cating	Seeing	Hearing	Walking	Concent rating	Self-care	Communi cating	
Banteay Meanchey	89.8	6.4	2.0	4.1	2.8	1.2	1.0	1.5	0.4	0.4	0.8	0.3	0.2	0.4
Kampong Cham	88.2	6.6	4.0	4.5	4.4	1.1	1.8	2.6	1.0	0.8	0.8	0.9	0.7	0.8
Kampong Chhnang	94.7	3.6	1.8	1.9	1.7	1.1	1.1	1.6	0.6	0.4	0.6	0.5	0.5	0.3
Kampong Speu	94.9	1.9	2.2	1.5	1.2	0.7	1.4	1.9	0.4	0.7	0.7	0.7	0.5	0.6
Kampong Thom	92.5	4.5	2.7	2.9	2.3	1.1	1.0	2.1	0.6	0.8	1.1	0.5	0.6	0.6
Kandal	88.9	6.3	4.0	2.6	5.3	1.4	2.1	2.7	0.9	0.9	1.0	0.7	0.6	0.8
Kratie	92.7	3.1	2.1	1.7	3.4	0.8	1.9	1.7	0.4	0.4	0.5	0.6	0.3	0.9
Phnom Penh	91.0	4.8	2.4	2.3	4.5	0.7	1.1	2.5	0.9	0.4	0.9	0.7	0.2	0.7
Prey Veng	90.8	5.2	3.0	3.2	3.9	1.4	1.8	2.0	0.6	0.5	1.0	0.5	0.5	0.7
Pursat	91.8	4.6	2.2	4.7	3.5	1.4	1.7	2.5	0.6	0.5	1.2	0.6	0.7	0.7
Siem Reap	89.6	5.0	3.6	2.8	5.3	0.8	1.5	1.3	0.3	0.4	0.4	0.5	0.3	0.4
Svay Rieng	90.4	5.4	2.9	2.6	3.9	0.4	1.0	1.5	0.3	0.4	0.5	0.7	0.2	0.5
Takeo	94.0	2.8	1.9	2.9	3.3	1.6	1.9	1.5	0.6	0.4	0.8	0.7	0.5	0.6
Otdar Meanchey	93.3	4.3	1.8	3.2	2.0	1.0	1.0	2.3	0.9	0.7	1.1	1.0	0.5	0.5
Battambang/Pailin	80.3	9.7	2.8	12.4	11.0	1.1	1.2	3.4	1.1	0.6	1.7	1.4	0.4	0.6
Kampot/Kep Preah Sihanouk/	93.8	2.7	2.4	2.9	2.5	2.6	2.6	2.5	0.9	0.8	1.1	0.9	0.9	0.7
Koh Kong	95.6	1.9	1.3	1.7	1.7	0.9	1.1	0.7	0.2	0.1	0.3	0.2	0.3	0.1
Preah Vihear/														
Stung Treng	85.0	8.8	5.1	4.0	7.4	0.8	1.2	1.9	0.5	0.5	0.6	0.6	0.2	0.5
Mondul Kiri/														
Ratanak Kiri	97.8	1.0	0.9	0.6	0.5	0.2	0.4	0.8	0.3	0.2	0.3	0.2	0.1	0.2

# Percentage of population aged 5 years and over by type of disabilities and provinces, CDHS 2014

<b>Region/province</b>	No difficulty	<b>Some difficulty, a lot of difficulty, or cannot do</b>						<b>A lot of difficulty or cannot do</b>						
		Seeing	Hearing	Walking	Concentrating	Self-care	Communicating	Seeing	Hearing	Walking	Concentrating	Self-care	Communicating	
<b>Residence</b>														
Urban	91.3	4.8	2.3	3.0	4.0	0.9	1.1	2.2	0.7	0.4	0.9	0.6	0.3	0.6
Rural	90.3	5.1	2.9	3.8	4.3	1.1	1.6	2.1	0.7	0.6	0.8	0.7	0.5	0.6
<b>Ill or injured in the past 30 days</b>														
Yes	79.3	11.8	6.3	10.3	10.0	3.1	3.5	5.8	2.2	1.4	2.9	1.6	1.5	1.4
No	92.0	4.2	2.3	2.8	3.4	0.8	1.2	1.6	0.5	0.5	0.6	0.6	0.3	0.5



# Percentage of population aged 5 years and over by type of disabilities and background characteristics, CDHS 2014

Background characteristic	Some difficulty, a lot of difficulty, or cannot do							A lot of difficulty or cannot do					
	No difficulty	Seeing	Hearing	Walking	Concentrating	Self-care	Communicating	Seeing	Hearing	Walking	Concentrating	Self-care	Communicating
<b>Sought advice or health facility contact</b>													
Did not seek treatment	64.4	20.2	8.9	18.3	18.7	3.9	7.4	3.5	3.7	3.8	3.0	2.5	4.0
Public sector	77.5	12.3	6.6	11.4	11.0	4.7	5.1	2.4	2.0	3.3	1.4	2.3	1.9
Private pharmacy	80.4	9.7	4.5	6.8	9.2	2.8	2.8	2.1	1.1	2.4	2.0	1.2	1.2
Other private facilities	78.1	11.3	6.7	10.3	9.3	2.7	3.0	2.2	1.1	2.9	1.6	1.2	1.2
Other/missing	75.7	13.6	4.9	9.2	8.2	1.0	1.3	1.1	0.5	2.0	0.5	0.5	0.4
<b>Transport cost</b>													
Free/no cost	77.2	12.5	6.0	9.9	9.7	2.9	2.9	2.9	1.1	2.9	1.3	1.5	0.9
Paid money	78.6	10.9	6.2	9.8	9.6	3.1	3.5	1.8	1.3	2.8	1.7	1.3	1.5
Other/don't know/missing	66.9	17.9	8.9	16.8	16.7	4.1	6.9	3.1	3.2	4.0	2.9	2.6	3.9
<b>Treatment cost</b>													
Free/no cost	74.6	13.1	7.0	12.7	12.4	4.7	5.0	1.9	1.9	2.1	1.2	2.1	1.3
Paid money	78.5	11.2	6.1	9.6	9.3	2.9	3.2	2.2	1.2	2.8	1.6	1.4	1.3
Other/don't know/missing	65.1	19.3	8.3	17.7	17.4	4.1	7.0	3.1	3.3	4.0	2.7	2.4	4.0
<b>Health care financing mechanism</b>													
Health equity fund	72.2	13.0	6.3	16.8	11.1	3.3	3.3	1.7	1.9	2.8	1.0	1.3	1.0
Other subsidy	74.4	15.6	2.8	5.4	5.7	1.3	2.5	0.0	0.0	0.0	0.0	0.0	0.0
Insurance	(77.2)	20.8	10.4	10.4	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Out of pocket	77.8	11.7	6.3	10.0	10.0	3.1	3.6	2.3	1.4	2.9	1.7	1.5	1.5

# Percentage of population aged 15-49 with a physical disability by sex and employment status, CDHS 2014

Background characteristic	Some difficulty, a lot of difficulty, or cannot do							A lot of difficulty or cannot do					
	No difficulty	Seeing	Hearing	Walking	Concentrating	Self-care	Communicating	Seeing	Hearing	Walking	Concentrating	Self-care	Communicating
<b>Employed in the 12 months preceding the survey</b>													
Currently employed <sup>1</sup>	95.1	2.3	0.9	1.0	1.8	0.0	0.3	0.1	0.1	0.1	0.0	0.0	0.1
Not currently employed	94.4	2.7	1.0	1.9	2.2	0.0	0.2	0.1	0.0	0.2	0.3	0.0	0.1
<b>Not employed in the 12 months preceding the survey</b>	93.8	2.4	0.8	2.0	2.7	0.4	0.8	0.3	0.1	0.7	0.2	0.1	0.3
<b>Total</b>	94.7	2.3	0.9	1.3	2.0	0.1	0.4	0.2	0.1	0.2	0.1	0.0	0.1
<b>Employed in the 12 months preceding the survey</b>													
Currently employed <sup>1</sup>	95.2	1.8	0.9	1.2	1.6	0.3	0.2	0.2	0.0	0.2	0.1	0.1	0.0
Not currently employed	89.8	2.5	4.4	2.3	3.8	0.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0
<b>Not employed in the 12 months preceding the survey</b>	94.8	1.4	0.2	3.0	1.7	0.3	1.1	1.0	0.2	0.7	0.3	0.0	0.3
<b>Total</b>	94.9	1.8	1.0	1.4	1.7	0.3	0.3	0.2	0.0	0.2	0.1	0.1	0.0

<sup>1</sup> "Currently employed" is defined as having done work in the past 7 days. Includes persons who did not work in the past 7 days but who are regularly employed and were absent from work for leave, illness, vacation, or any other such reason.

Thank you !