

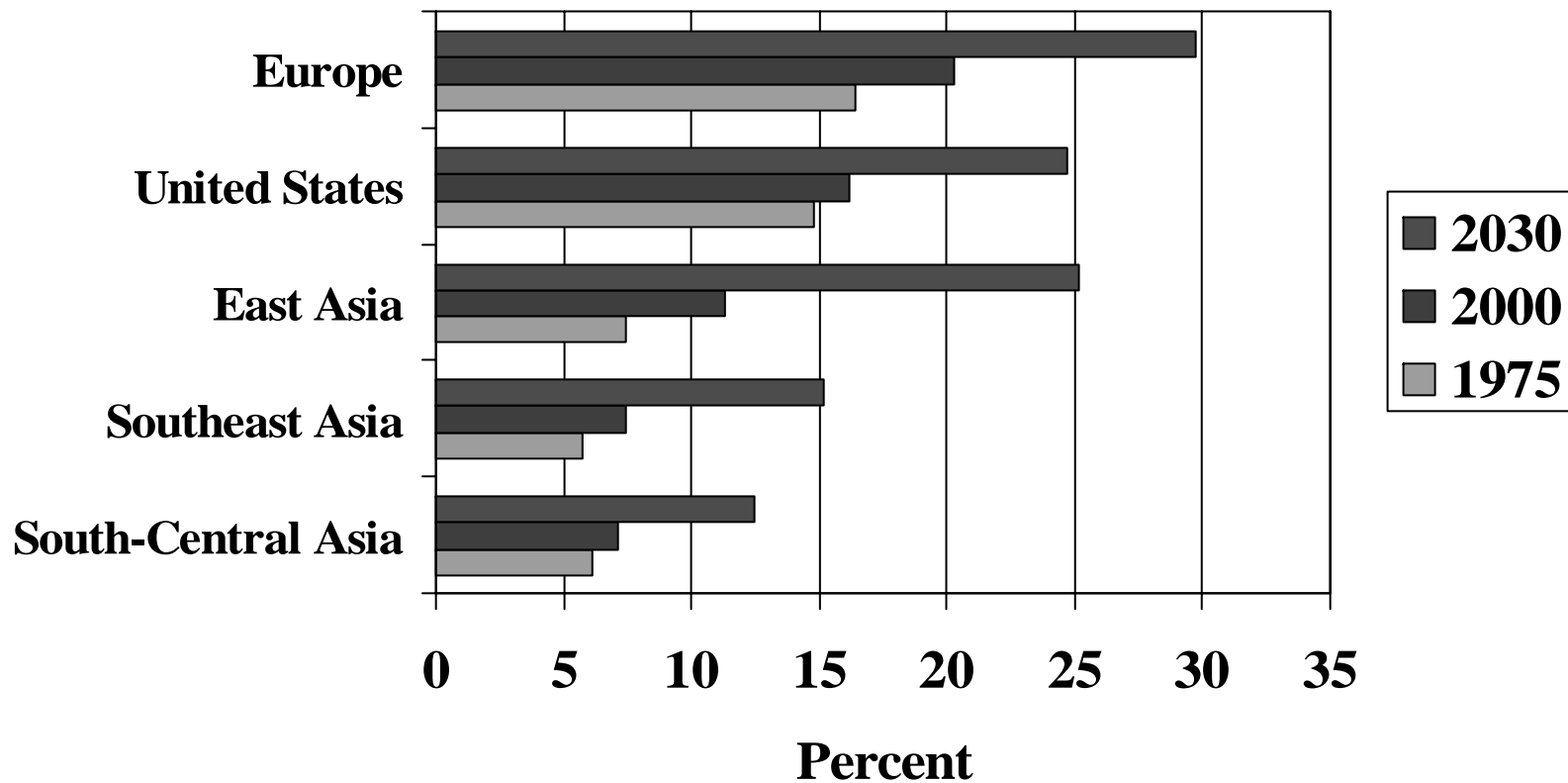
# **Disability Trends and Determinants in Older Ages in Asian Countries**

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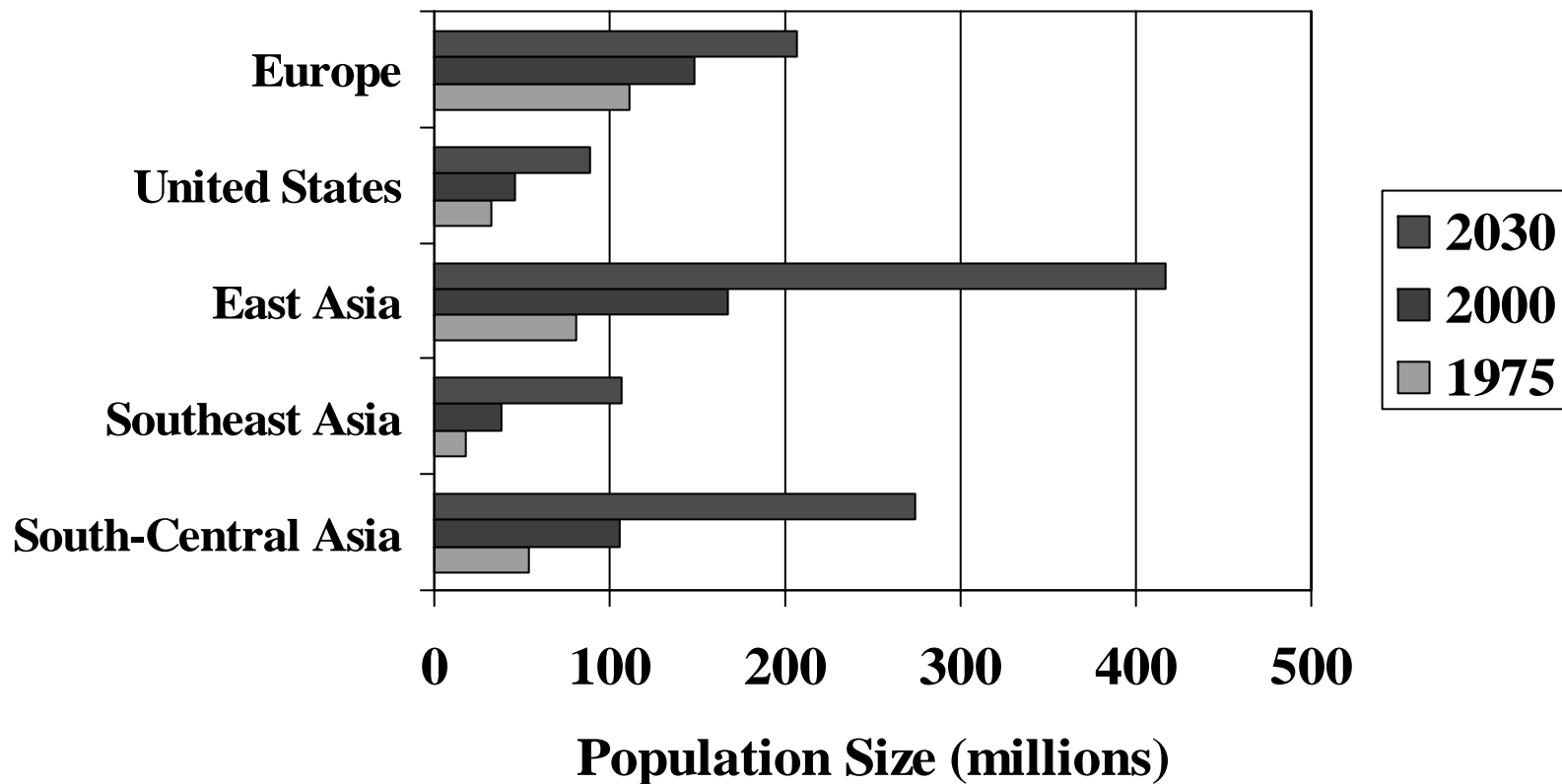
Presentation for the Panel Session on  
Aging with Disability: A Global Perspective  
U-M Council for Disability Concerns  
University of Michigan  
October 27, 2006



# Percent of Population Age 60+ by Region: 1975, 2000 and 2030



# Size of the Age 60+ Population by Region: 1975, 2000 and 2030



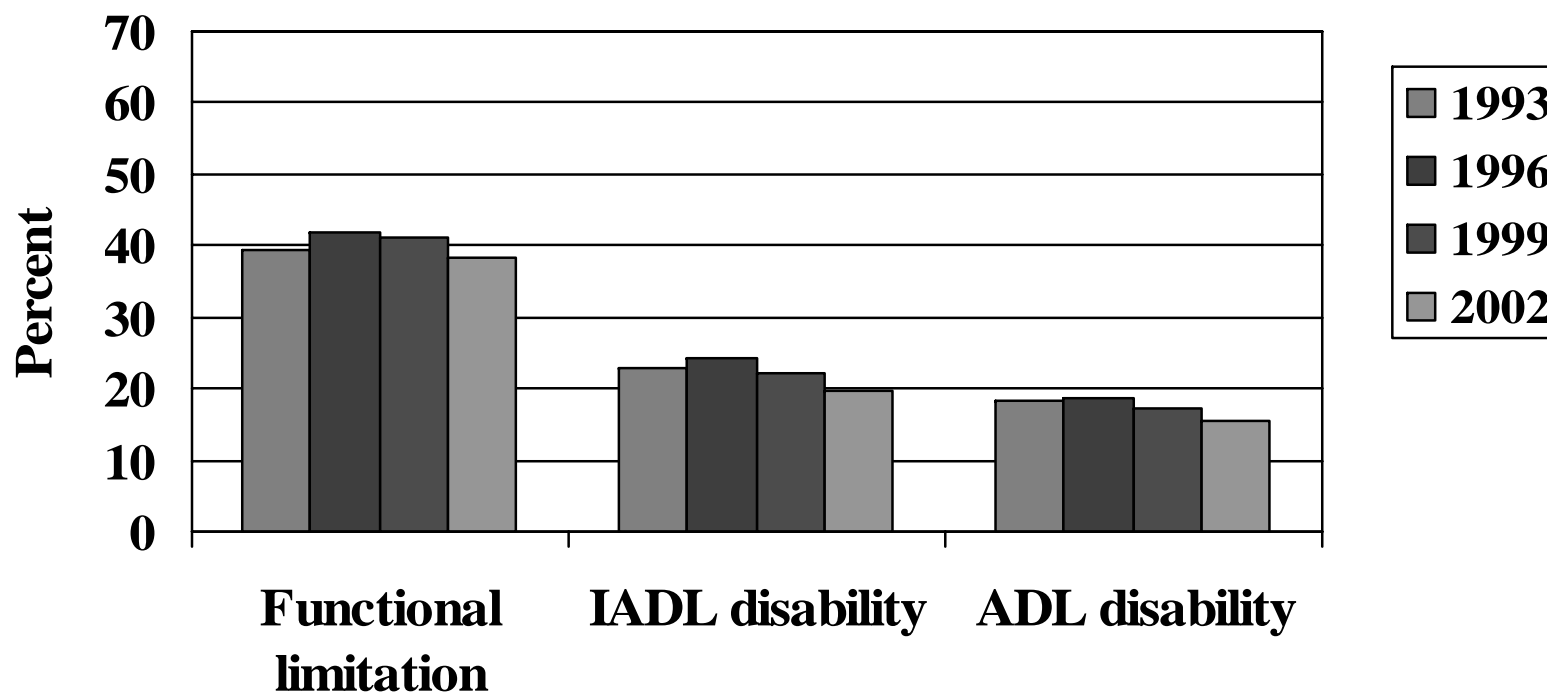
# Measures

# Disability and functioning measures

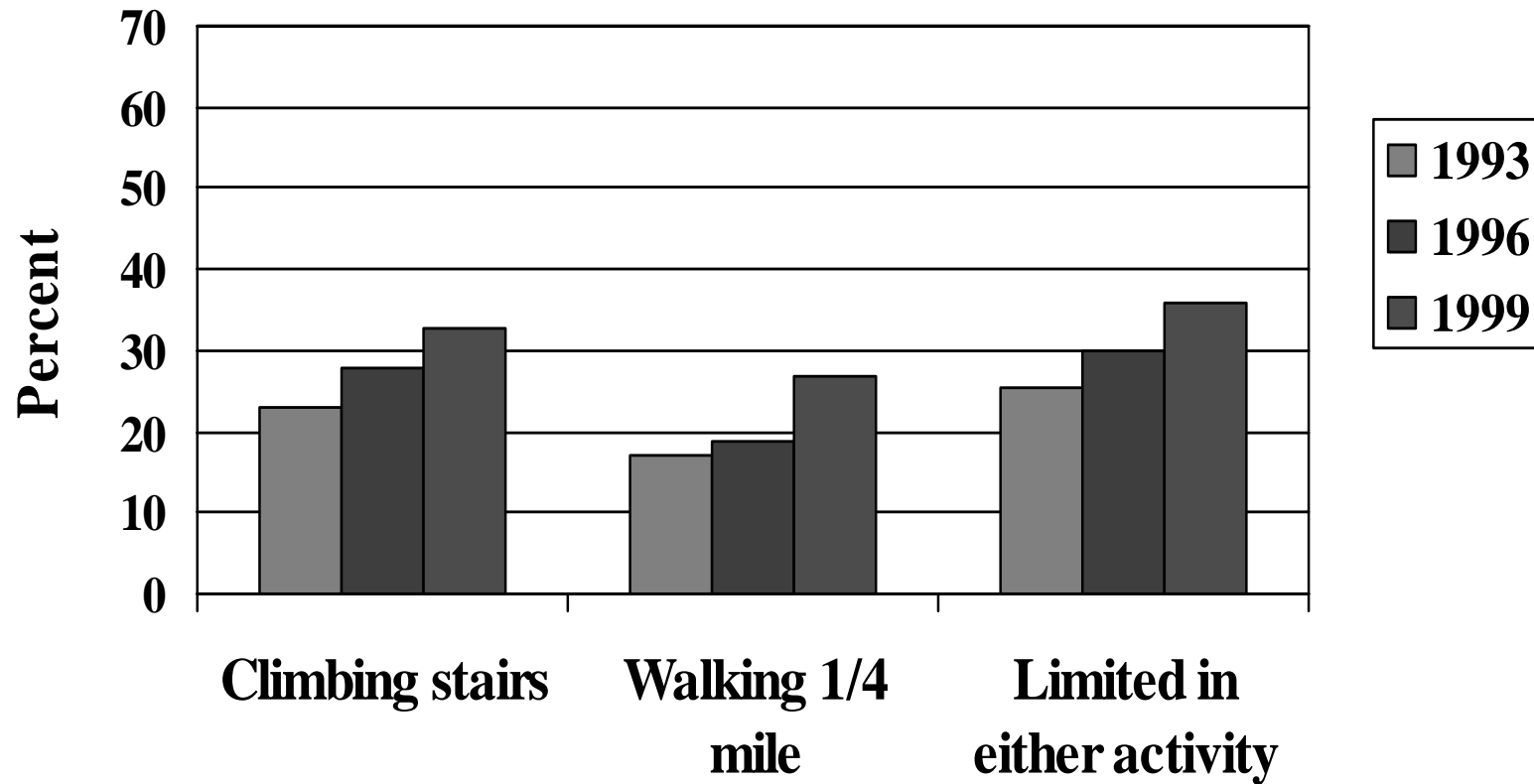
- Activities of Daily Living (ADL)
  - Bathing, dressing, eating, transferring, walking across a room, using a toilet, grooming
- Instrumental Activities of Daily Living (IADL)
  - Shopping, managing money, using transportation, light housework, heavy housework, using telephone, preparing own meals
- Physical functioning activities
  - Crouching, reaching, grasping, lifting, climbing stairs, walking  $\frac{1}{4}$  mile, standing, grasping with fingers

# Trends

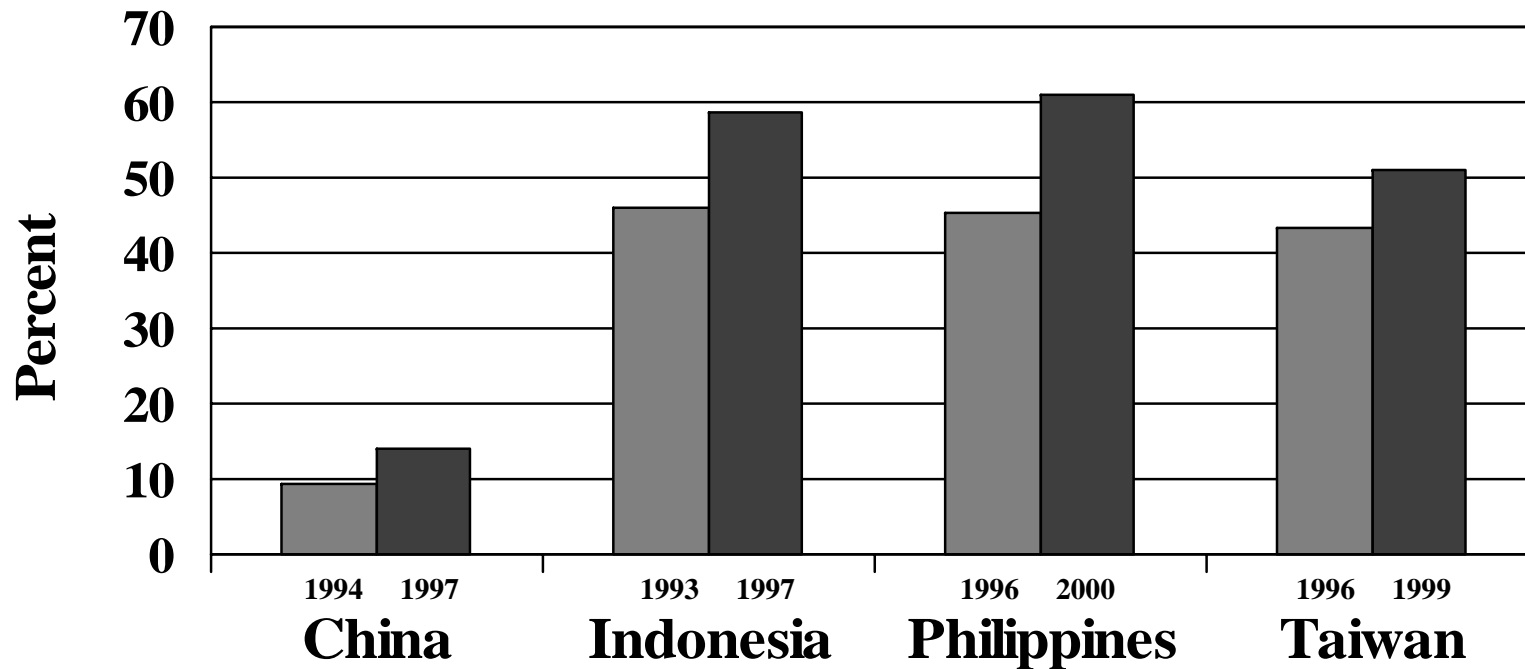
## Prevalence of functional limitation, IADL and ADL disability among older Japanese: 1993-2002



## Prevalence of functional limitation among older Taiwanese: 1993-1999

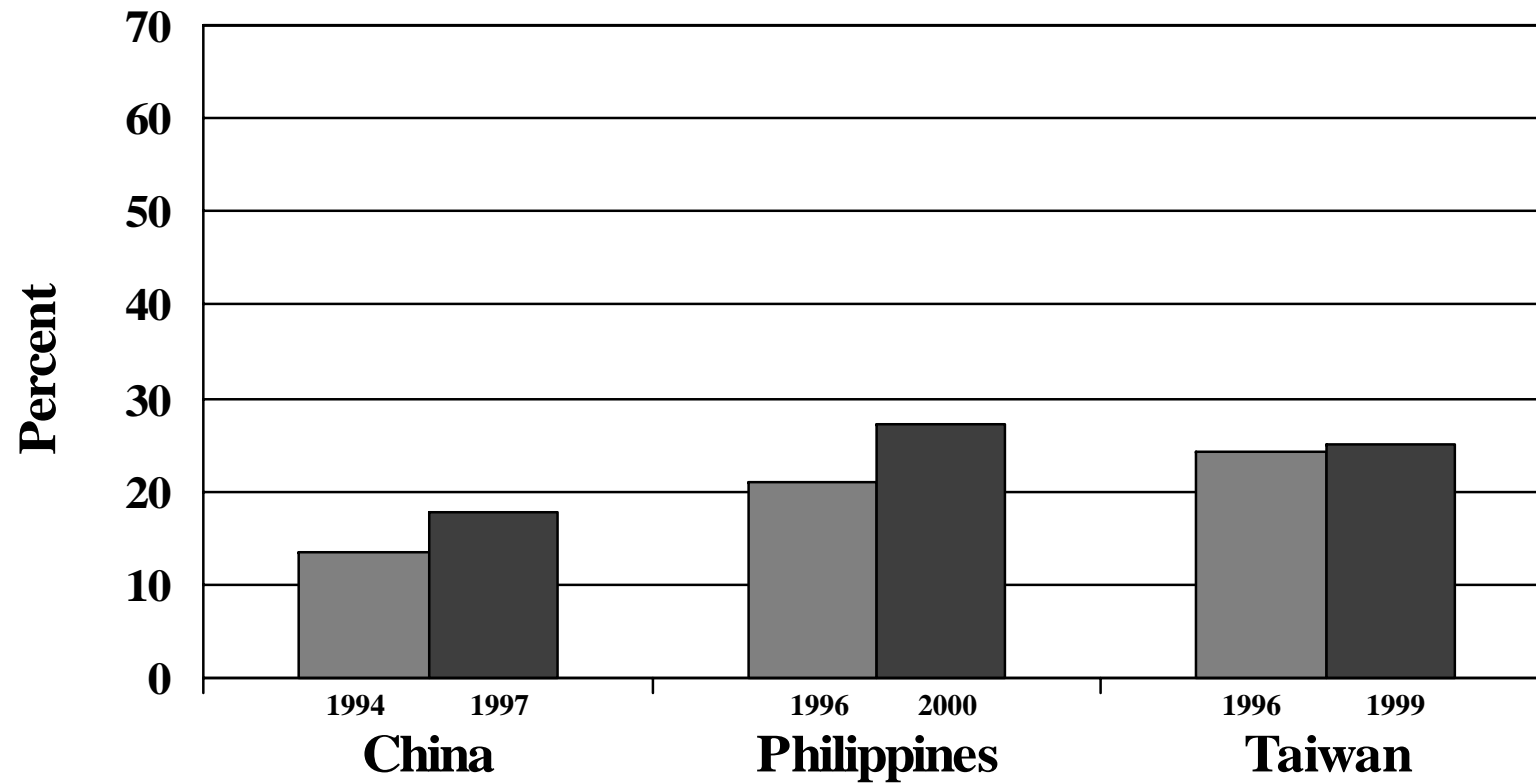


## Prevalence of functional limitation, among persons age 60+ at two different time points



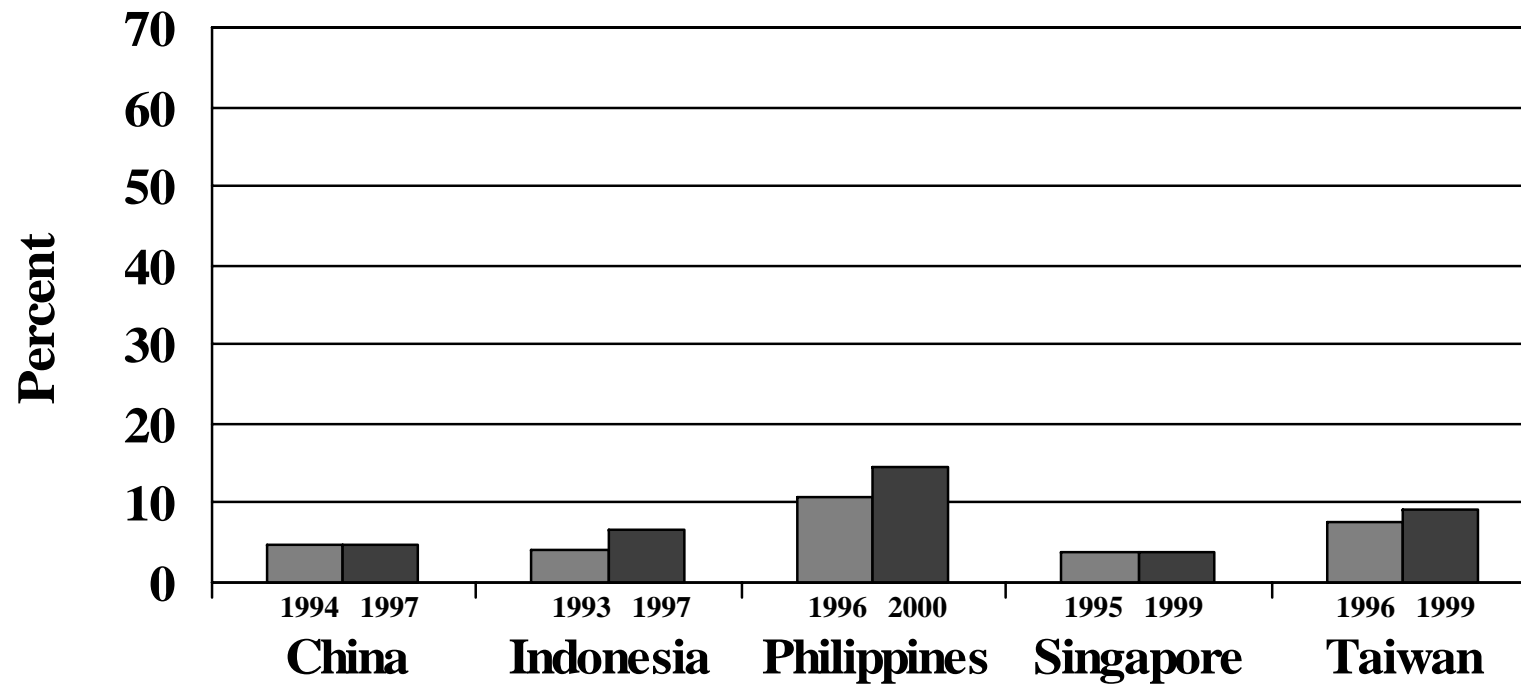
Ofstedal et al., forthcoming, *Journal of Cross-Cultural Gerontology*

## Prevalence of IADL disability, among persons age 60+ at two different time points



Ofstedal et al., forthcoming, *Journal of Cross-Cultural Gerontology*

## Prevalence of ADL disability, among persons age 60+ at two different time points



Ofstedal et al., forthcoming, *Journal of Cross-Cultural Gerontology*

# Determinants

# Primary factors examined

- Demographic characteristics (age, sex, ethnicity, marital status, urban/rural residence)
- Socioeconomic status (education, occupation, income, household possessions, subjective economic well-being)
- Health status (chronic conditions, cognition, self-assessed health)
- Health behaviors (smoking, drinking, exercise)
- Psycho-social factors (social support, psychological well-being)

# Demographic Factors

<b>Country</b>	<b>Age</b>	<b>Female</b>	<b>Married</b>	<b>Minority</b>	<b>Urban</b>
<b>Cambodia</b>	+	+			-
<b>China</b>	+	+	+		+
<b>India</b>	+	+			-
<b>Indonesia</b>	+	+	ns		
<b>Japan</b>	+	+	-		ns
<b>Korea</b>	+	+			-
<b>Philippines</b>	+	+	ns		+
<b>Singapore</b>	+	+	+	+	
<b>Taiwan</b>	+	+	ns	-	
<b>Thailand</b>	+	+			ns

# Socioeconomic Factors

<b>Country</b>	<b>Education/ literacy</b>	<b>Income</b>	<b>Household possession/ assets</b>	<b>Occupation</b>	<b>Income adequacy/ satisfaction</b>
<b>Cambodia</b>	-				-
<b>China</b>	-	-	-	-	
<b>Japan</b>	-	ns			
<b>Philippines</b>	ns	ns			
<b>Singapore</b>	ns	-			-
<b>Taiwan</b>	-	-			
<b>Thailand</b>	-	-	-	-	

# Health Status and Health Behaviors

<b>Country</b>	<b>Chronic conditions</b>	<b>Cognitive impairment</b>	<b>Self-assessed health</b>	<b>Smoking</b>	<b>Drinking</b>	<b>Exercise</b>
<b>Japan</b>	+	+	-			
<b>Korea</b>			-			
<b>Philippines</b>			-	ns	ns	
<b>Taiwan</b>	+	+	-	+	ns	ns

# Psychosocial Factors

<b>Country</b>	<b>Depressive symptoms</b>	<b>Life satisfaction</b>	<b>Social contact</b>	<b>Subjective social status</b>	<b>Emotional/ instrumental support</b>
<b>Japan</b>	+	-	-		<b>ns</b>
<b>Korea</b>	+	-	-		
<b>Taiwan</b>	+		<b>ns</b>	-	<b>ns</b>

# Summary

- Trends in disability differ across countries
  - decline in Japan
  - increases in Taiwan, China, Indonesia, Philippines
- Important determinants of disability among older Asians include:
  - age, gender, socioeconomic status, physical and cognitive health, and psychosocial factors

# Future Research

- Continued monitoring of trends in disability and other aspects of health among older Asians
- More detailed analysis of determinants of disability, including underlying mechanisms
- Need for longitudinal data and analysis

# Data Resources

National Archive of Computerized  
Data on Aging (NACDA)

<http://www.icpsr.umich.edu/NACDA/>

Population Studies Center

<http://www.psc.isr.umich.edu/>

# Comparative Study of Aging and Health in Asia, 2001-2005

<http://aha.psc.isr.umich.edu/>

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