Japan Gerontological Evaluation Study

## JAGES HEART 2012:

Health Equity Assessment and Response Tool

## Achievement and Challenges

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- Current process development of the JAGES HEART (Health Equity Assessment and Response Tool)/AFC (Age Friendly Cities ) indicators 2012
- Challenges of JAGES HEART/AFC indicators



# Japan Gerontological Evaluation Study (JAGES)

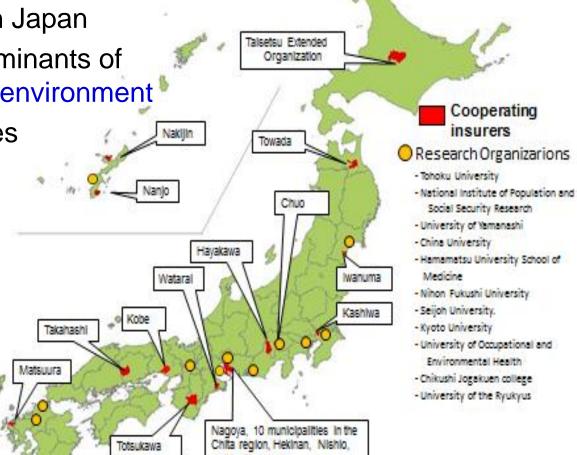
One of the few population-based gerontological surveys in Japan

 Focused on social determinants of health (SDH) and social environment

In 2010/11 questionnaires were sent to 170,000 older people and responded by 112,123 individuals across 31 municipalities

in 12 prefectures

(response rate: 66.3%)







## Survey Items

- Health status indicators: self-rated health, chronic conditions, health behavior, oral health, nutrition/diet, tobacco, alcohol, ADL/IADL, etc
- Psychological indicators: depression, subjective well-being, etc
- Social indicators: social support, social capital, social participation
- Socioeconomic status indicators: income, education, relative deprivation, pension, etc
- Environmental indicators: road safety, parks and recreation, accessibility, etc

## Purpose of JAGES benchmark system

- To benchmark using multi-faceted indicators for improving the performance of the public long-term care insurance(LTCI)
  - Particularly, prevention for functional decline
  - Based on ideas of social determinants of health
     ≒Age Friendly Cities (AFC) indicators
- From 2010, funded by the Ministry of Health, Labour and Welfare, Japan





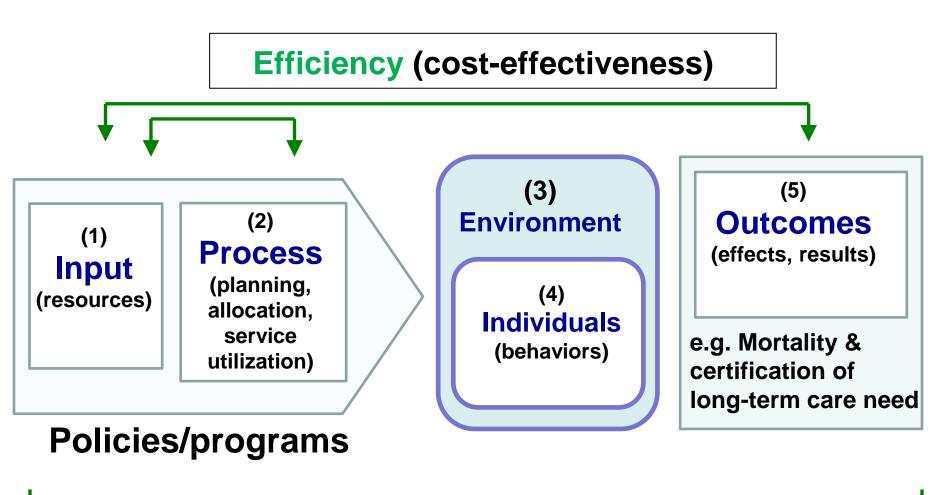
#### Development Process of Indicators

- STEP 1
  - Framework building: what should be covered and valid for the purpose
- STEP 2
  - Selection of indicators: importance, intervention potential, acceptability, etc.
- STEP 3
  - Reality: Ease of data collection
- STEP 4
  - Refinement: reliability and validity of indicators, etc.



#### **Policy Evaluation Indicators Framework**

5 elements and 2 dimensions



**Equity** (among regions and social classes)

#### Current process development

- In collaboration with WHO Kobe Center, JAGES HEART 2011 has been developed, which harmonized with Urban HEART
- After instruction from WKC, we held a workshop with 24 researchers
- Fitted the 71 indicators into the Urban HEART framework
- Core 23 indicators were developed using JAGES data, and were revised in 2012



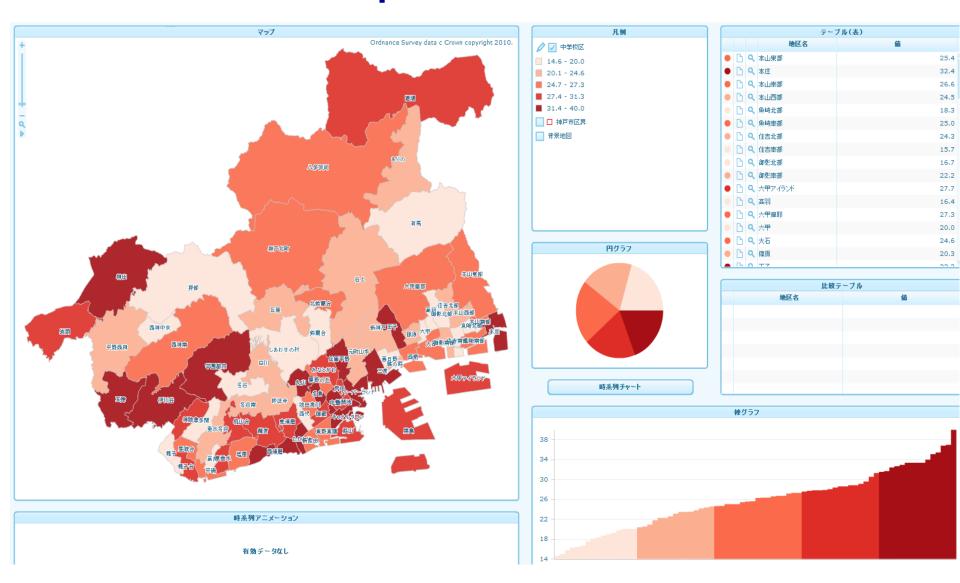


## Core indicators 2011

- 1. All-cause mortality
- Proportion of people eligible for long-term care
- 3. Proportion of new certifications for long-term care requirement
- 4. Proportion of people with a high QOL
- Self rated health
- 6. Cause-specific mortality
- 7. Rate of response to Basic checklist
- 8. Number of remaining teeth
- 9. low BMI
- 0. Depression
- Parks or roads suitable for walking
- 12. Number of falls in a year
- Proportion of having health checkup (over the past year)

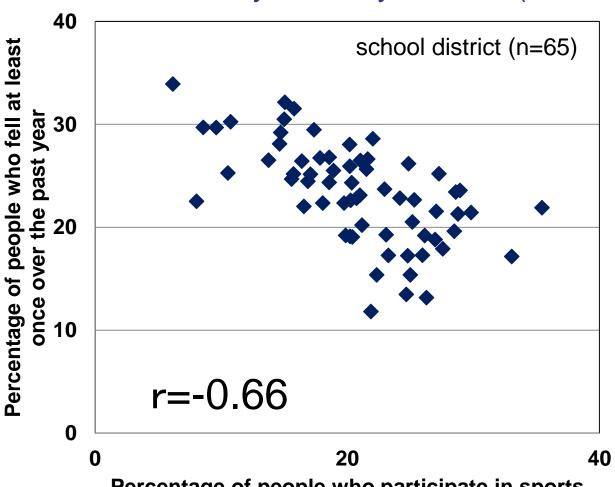
- Proportion of people with smoking habits
- 15. Walking time
- 16. Number of "shut-in" older individuals
- 17. Proportion of participation in sports clubs
- 18. Proportion of volunteer participation
- Number of projects for social exchange such as 'salons' (community center programs)
- 20. Average taxable income
- 21. Proportion of welfare benefits
- Budget amount for projects to prevent the need for long-term care (per older individual)
- 23. Long-term care insurance premium (by income class)

### Example of Web GIS



## Fall rate and rate of sports organization participation by school district

Only 65-74 year olds (n=16,713)

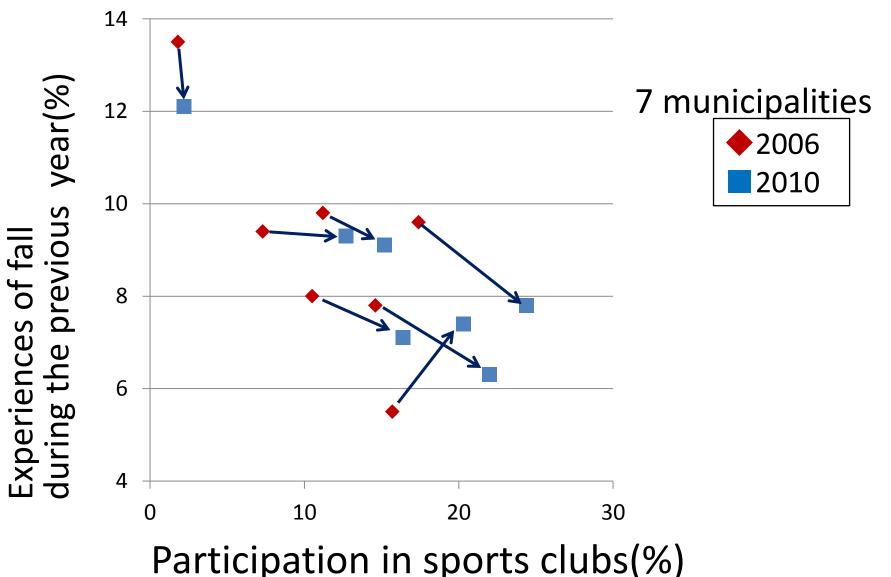


Percentage of people who participate in sports organization activities once a week or more

29072 people who responded to postal surveys (response rate: 62.4%) from among those who were not eligible to receive long-term care benefits from 6 insurers (9 municipalities)

Fall rate: 11.8-33.9% Correlated to rate of sports organization participation

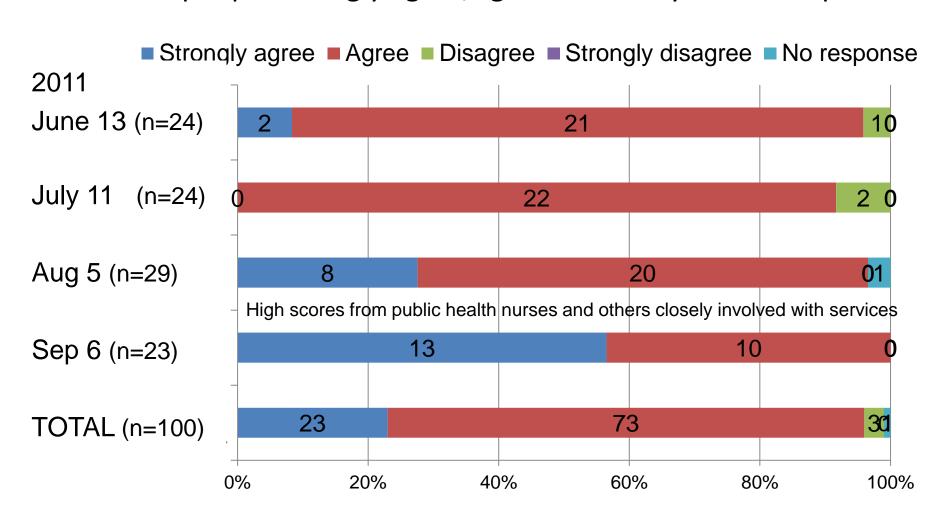
### Changes in rate (%) during four years



#### Officers supported the BM usefulness

#### Q: Is the BM system helpful?

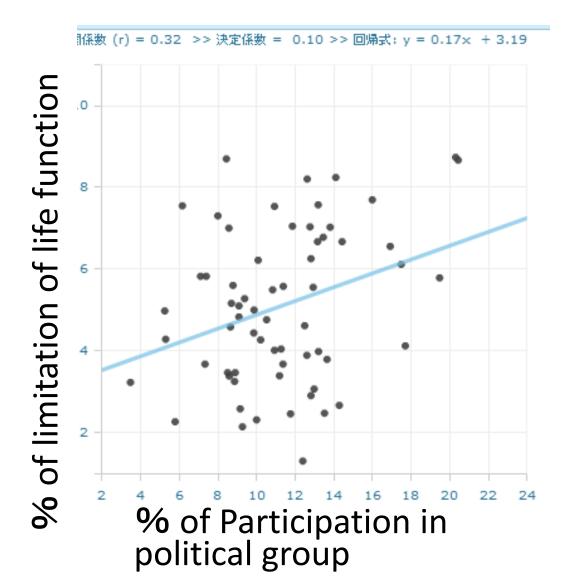
Most people strongly agree/agree the BM system is helpful



#### Availability of Index of Age Friendly Cities from JAGES project

AFC Index (in review)		JAGES- HEART	WebAtlas	JAGES data	AFC Index (in review)		JAGES- HEART	WebAtlas	JAGES data
DOMAIN	#	AVAILABILITY			DOMAIN	#	AVAILABILITY		
		■Available Resemblance		mblance	DOMAN	TF	Availa	able Rese	mblance
OUTDOOR SPACES AND BUILDINGS	1				SOCIAL PARTICIPATION	31			
	2					32			
	3					33			
	4					34			
	5					35			
TRANSPORTATION	6					36			
	7					37			
	8				COMMUNITY AND HEALTH	38			
	9				SERVICES	39			
	10					40			
	11					41			
HOUSING	12					42			
	13					43			
	14					44			
	15					45			
	16				HEALTH	46			
RESPECT AND SOCIAL	17					47			
INCLUSION	18					48			
	19					49			
	20					50			
	21					51			
	22				COMMUNICATION AND INFORMATION	52			
	23					53			
	24					54			
CIVIC PARTICIPATION	25					55			
AND EMPLOYMENT	26					56			
	27				ECONOMIC SECURITY	57			
	28					58			
	29				GOVERNANCE	59			
	30					60			
						61			

# % of Participation in political group & life function JAGES HEART 2011



Political group participation might be bad for your life function

## Conclusions

- WHO Kobe Center (WKC) has developed Urban HEART/AFC indicators.
- JAGES & WKC have developed JAGES HEART/AFC 2012 for older people in Japan based on SDH framework.
- LTCI officers support the potential of Benchmark system based on Urban HEART
- Further validations of indicators are needed
- To develop JAGES HEART & AFC indicators are valuable.



