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Health Status and Functional Capacity of Indonesian Elderly at the District Level

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Active Ageing (WHO 2002)

 the process of optimizing opportunities to enhance *health*, *participation*, and *security* in order to enhance quality of life as people age

Outline

- o Aims
- o Data
- Results:
 - SRHS
 - Functional Capacity (FC)
 - o Overall
 - o 4 ADLs
 - o An IADL
 - Association between SRHS and FC
- Concluding Remarks

Aims

 to fill the gap on the knowledge of ageing and health in Indonesia by examining SRHS, and functional capacity (ADLs and IADLs) of older persons

 To tests the hypothesis that SRHS is associated with functional capacity

Data

- 2005 SUPAS (Intercensal Population Census), nationwide survey covered all provinces except Aceh province and District of Nias
- Selected sample: Population aged 60+
- The first nation-wide survey gathered information on elderly
- Published data (29 Volumes)
- Unit of Analysis: district level (388 districts)

Method

Descriptive analysis

- Each of the selected variables presented in relative number to the total elderly population in each district
- Presented in charts
- Pearson correlation
- Univariate and Multivariate regressions

Variables

• Health Variables:

- SRHS (3 responses: Baik (good/healthy), Cukup (not bad/somewhat healthy), Kurang (bad/somewhat unhealthy))
- Functional Limitation (Yes/No)
 - 4 ADLs (getting dressed, using toilet, taking a bath, eating)
 - 1 IADL (preparing meals)
- Region: Java/Bali (JB)
 - and Outside Java/Bali (OJB)
- Type of districts: cities/regencies
- o Sex



Districts in JB are mostly older populations than those in OJB



Districts in OJB are generally young populations



Sex differential in Good SRHS



Many districts have higher percentages of Elderly being functionally independent



Sex differential in Physical independency



Many districts with no difficulty in each of ADLs













ADLs by Region and Type of Districts: Indonesia, 2005



Needing help in Meal Preparation



Cities in JB have the highest percentage of elderly needing help in meal preparation than those in others

Good SRHS and Physical Independence : Regression Analysis

Good SRHS is more likely to increase/improve physical independency

			Model				
Variables	1	2	3	4	5	6	7
Good SRHS	+	+	+	+	+	+	+
Region		+	+			+	+
Type of Districs			-				-
Sex					Ŧ	+	+
R square	0.083	0.253	0.263	0.036	0.193	0.313	0.232

Note: Reference group (RG) for each dichotomous variables is as follows Outside Java/Bali (OJB), Regency, and Male

Region and sex play important role in physical independence

Good SRHS is statistically significant on affecting difficulty in eating and taking a bath

Eating			Model				
Variables	1	2	3	4	5	6	7
Good SRHS	-	0	-	-	-	0	-
Region		-	-			-	-
Type of Districs			+				+
Sex					0	0	0
R square	0.021	0.079	0.103	0.017	0.018	0.075	0.96

Note: Reference group (RG) for each dichotomous variables is as follows Outside Java/Bali (OJB), Regency, and Male

Taking a Bath			Model				
Variables	1	2	3	4	5	6	7
Good SRHS	-	-	0	-	-	-	-
Region		-	-			-	-
Type of Districs			0				0
Sex					+	+	+
R square	0.025	0.052	0.053	0.025	0.033	0.064	0.064

Districts in Java/Bali have lower percentages of elderly needing help in either eating or taking a bath than those in OJB

Good SRHS is statistically significant on Needing help in Meal Preparation

			Model				
Variables	1	2	3	4	5	6	7
Good SRHS	-	-	-	-	-	-	-
Region		+	+			+	+
Type of Districs			+				+
Sex					-	-	-
R square	0.084	0.119	0.364	0.035	0.106	0.143	0.365

Districts in Java/Bali or cities have higher percentages of elderly needing help in meal preparation than those in OJB

Concluding Remarks

- Health inequality with more districts have high percentage of unhealthy older persons. Yet, most districts have high physical independence.
- Good SRHS and functional capacity varies greatly by district, implying that policy making process at district level should pay attention to their local needs.
- Region, type of districts and sex also play important role in SRHS and physical independence.
- The two variables have strong positive correlation.



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