MULTIPLE DIMENSIONS OF HEALTH AMONG FILIPINO OLDER PERSONS: RESULTS FROM THE 2007 PHILIPPINE LONGITUDINAL STUDY ON AGING (PLSOA)

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- Examine the prevalence of various dimensions of health among Filipino older persons by age and sex.
- Examine the association between self-reported health (SRH) and other health dimensions.

Data and Methods

- 2007 Philippine Longitudinal Study on Aging (PLSOA)
- Nationally representative sample of older people age 60+
- □ N = 3105
- Ordered logistic regression

Dimensions of Health

- 1. Self reported Health
 - Very healthy
 - Healthier than average
 - Of average health
 - Somewhat unhealthy
 - Very unhealthy

2. Sensory Impairment

Hearing= Can hear well

Vision = Can see well

- 3. Functional Health: Independence in ADLs
 - a. Take a bath
 - b. Dress
 - c. Eat
 - d. Stand from a bed or chair; sit down on a chair
 - e. Walk
 - f. Go outside the house
 - g. Use the toilet

- 4. Functional Health : Independence in Instrumental Activities of Daily Living (IADLs)
 - a. Prepare own meals
 - b. Leave the home to purchase necessary items
 - c. Take care of financial matters
 - d. Use the telephone
 - e. Clean and do other light housework
 - f. Take public transportation
 - g. Take medications as prescribed

5. Mobility (Nagi indicators)

- a. Walk 200 to 300 meters
- b. Climb 10 steps without resting
- c. Stand for 2 hours
- d. Continue to sit for 2 hours
- e. Bend or stoop knees
- f. Raise hands above head
- g. Extend arms
- h. Grasp with fingers
- i. Lift an object approximately 10 kg
- i. Lift an object approximately 5 kg

- 6. Physical Health: Free from Chronic Diseases
 - a. Angina, myocardial infarction, etc.
 - b. Cancer
 - c. High blood pressure
 - d. Diabetes
 - e. Arthritis, neuralgia or rheumatism
 - f. Cataracts
 - g. Incontinence

- 7. Experience of Pain in the last 30 days
 - None
 - Mild
 - Moderate
 - Severe to extreme pain
- 8. Sleep Satisfaction

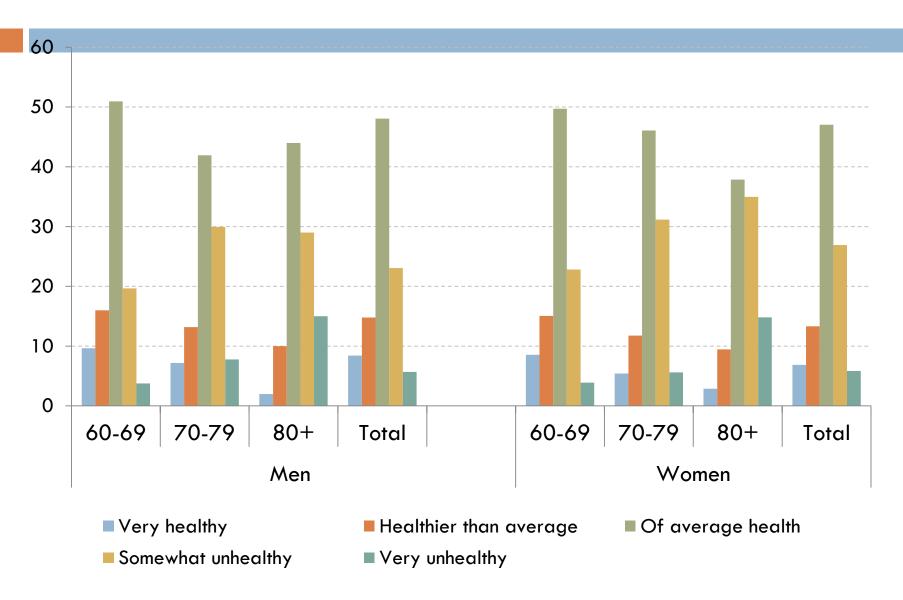
9. Social Participation

- a. Engaged in volunteer work in church or community
- b. Member of any other type of non-religious organization
- c. Currently working
- d. Given financial support to children
- e. Given food/meal support to children
- f. Given material support to children
- g. Given companionship support to children
- h. Involved in the care of grandchildren

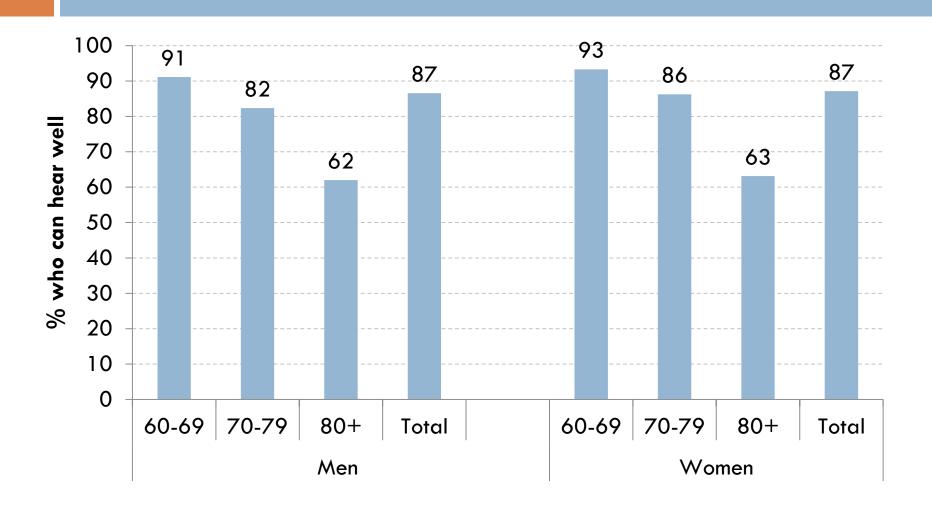
- 10. Social Support
 - Living with someone else
- 11. Financial Health
 - Present income enough to meet expenses

RESULTS

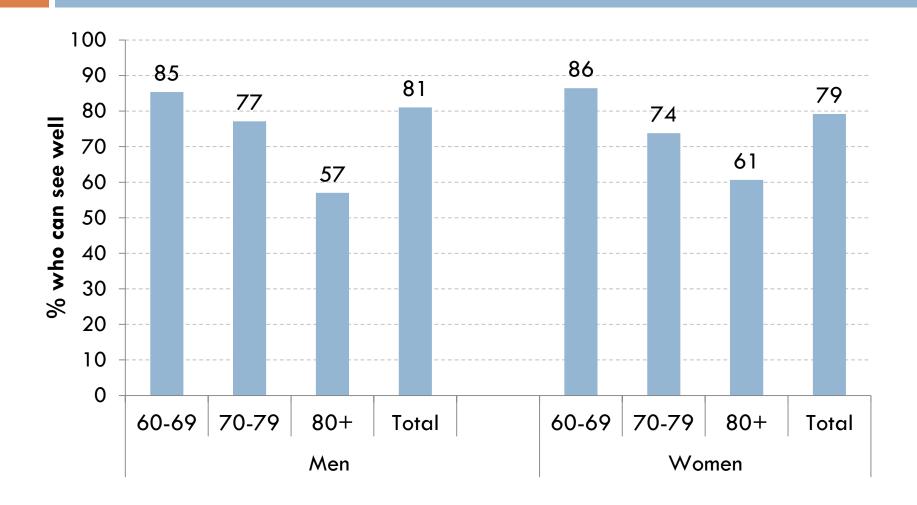
Self-reported Health by Age and Sex



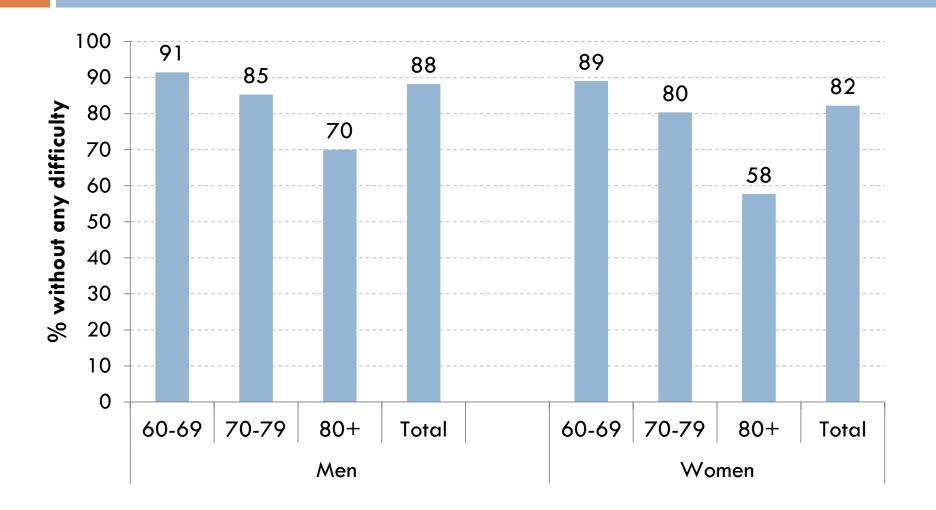
Hearing Ability by Age and Sex



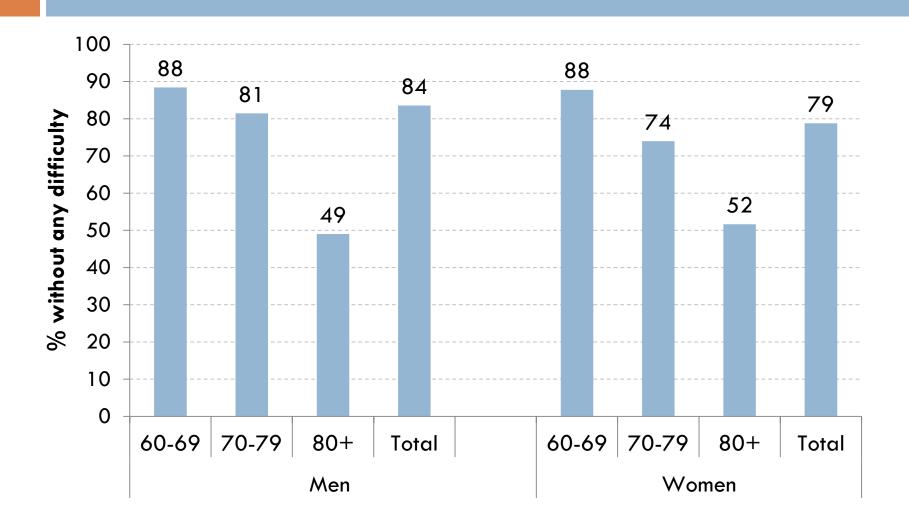
Clarity of Vision by Age and Sex



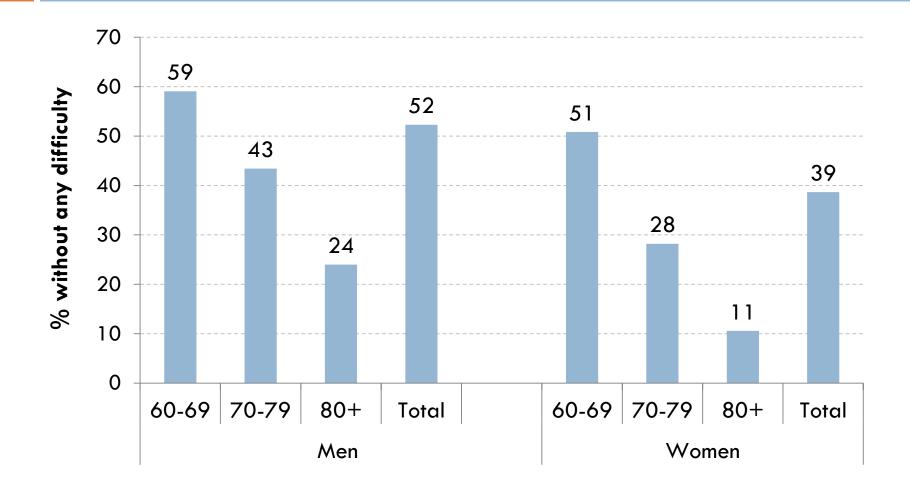
Independence in ADLs by Age and Sex



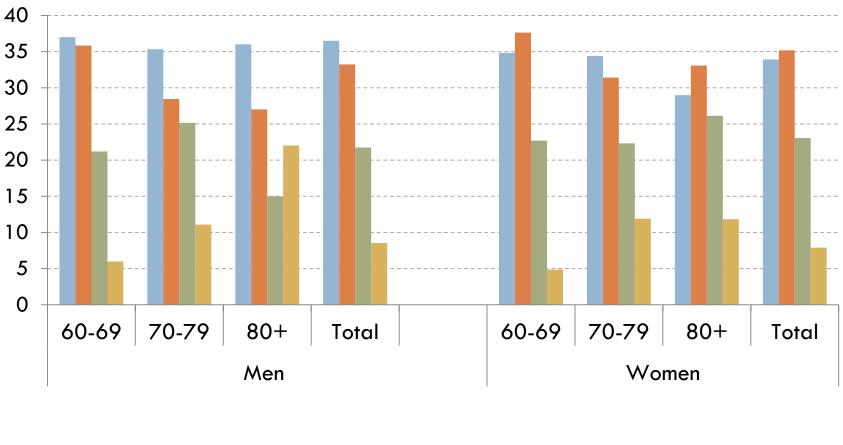
Independence in IADLs by Age and Sex



Independence in Mobility by Age and Sex



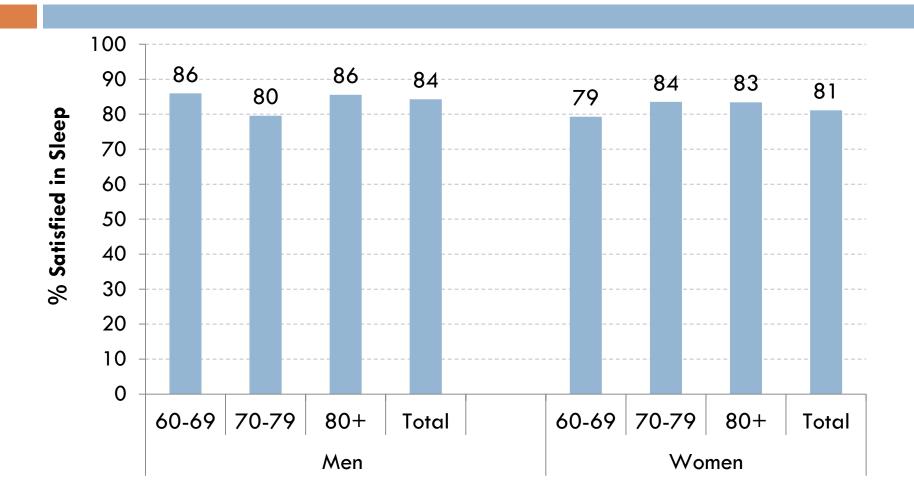
Experience of Pain by Age and Sex



None

Mild Moderate Severe to Extreme pain

Sleep Satisfaction by Age and Sex



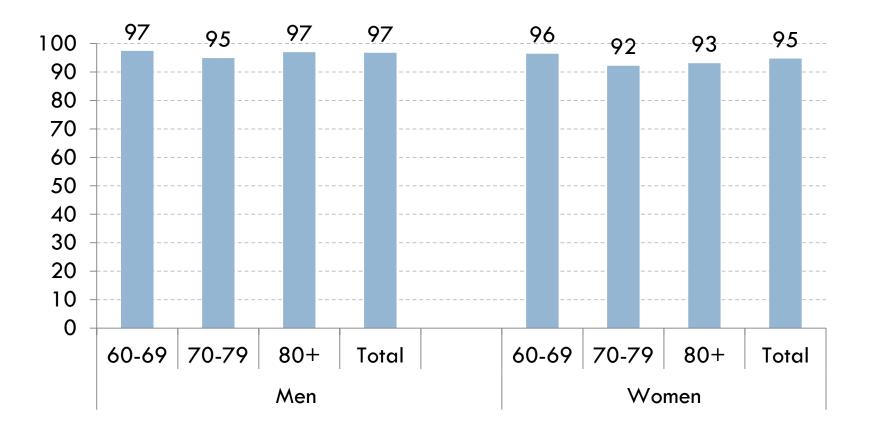
Chronic Diseases by Age and Sex

Free from following	Men				Women				
chronic diseases	60-69	70-79	80+	Total	60-69	70-79	80+	Total	
Angina, myocardial									
infarction, etc	81	79	87	81	77	79	82	78	
Cancer	99	98	100	99	99	99	99	99	
High blood pressure	70	69	66	70	61	55	64	59	
Diabetes	91	91	92	91	87	90	94	89	
Arthritis, neuralgia or									
rheumatism	49	48	37	48	49	41	37	45	
Cataracts	80	75	58	77	81	69	68	76	
Incontinence	75	75	60	74	74	65	52	68	
Free from all chronic									
diseases	23	25	12	23	16	14	9	14	

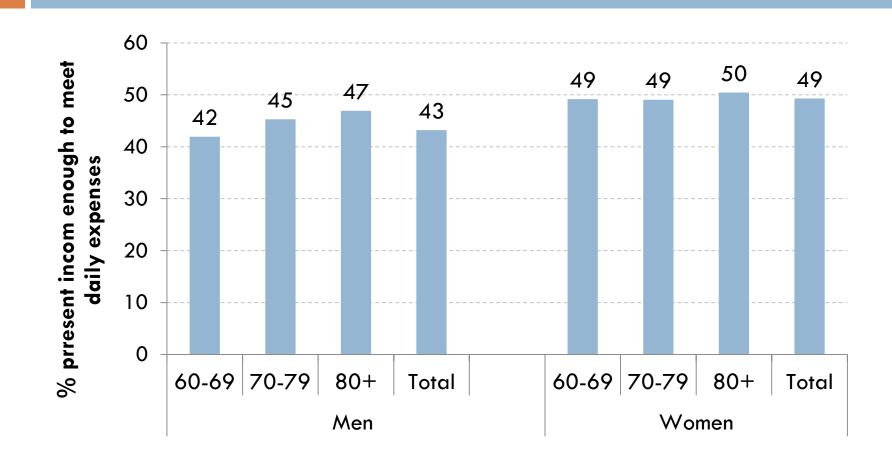
Social Participation by Age and Sex

	Men				Women			
Social Participation Indicators	60-69	70-79	80+	Total	60-69	70-79	80+	Total
% Engaged in volunteer work in								
church or community	26	19	13	23	25	16	10	20
% Member of any other type of								
non-religious organization	21	24	25	22	24	25	20	24
% Currently working	54	39	15	47	44	25	7	33
% Given financial support to								
children	58	44	40	53	52	36	29	44
% Given food/meal support to								
children	54	43	41	50	47	30	22	39
% Given material goods to children	25	13	10	21	18	9	8	14
% Given companionship support to								
children	15	13	13	15	18	13	9	15
% Involved in the care of								
grandchildren	55	51	29	52	64	53	33	56

Percentage Living with Someone else by Age and Sex



Financial Status by Age and Sex



ORDERED REGRESSION RESULTS

Dependent Variable

Self reported Health

- 1. Very healthy
- 2. Healthier than average
- 3. Of average health
- 4. Somewhat unhealthy
- 5. Very unhealthy

Ordered Logistic Regression Results

		Level of
Independent Variables	Odds Ratio	significance
Age	1.13	ns
Age squared	1.00	ns
Sex (1 =male)	1.14	ns
Marital status (1=currently married)	1.08	ns
Education (reference = college)		
No schooling	1.14	ns
Elementary	1.07	ns
High school	1.03	ns
Can see well	0.58	***
No hearing difficulty	0.63	***
Independent in activities of daily living	0.63	***
Independent in Instrumental activities of daily living	0.82	ns
Independent in mobility	0.58	***
Free from :		
Angina	0.82	*
Arthritis	0.92	*
High blood pressure	0.69	***
Incontinence	0.72	***
Present income enough to meet expenses	0.74	***

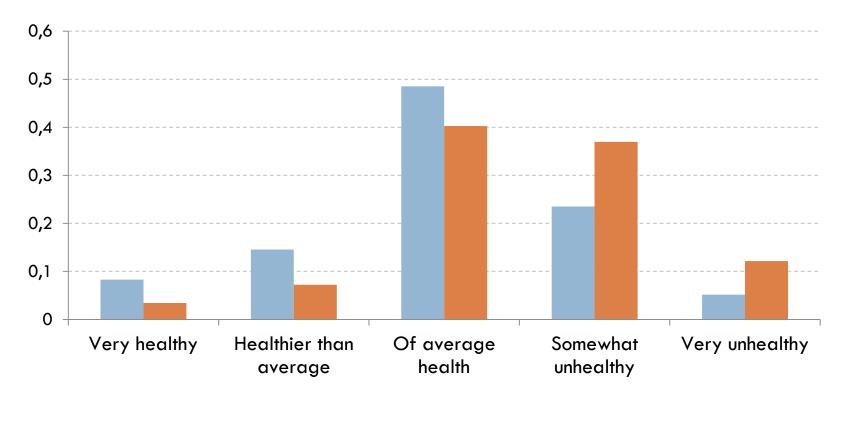
Notes: ***p value <.001, * p value <.05, ns= not significant

Ordered Logistic Regression Results (Con't)

		Level of
Independent Variables	Odds Ratio	significance
Experience of pain (reference =severe to extreme pain)		
No pain	0.36	***
Mild pain	0.44	***
Moderate pain	0.78	ns
Satisfied in sleep	0.59	***
Social participation		
Given financial support to children	0.90	ns
Given food/meal support to children	0.97	ns
Given material goods to children	1.21	ns
Given companionship support to children	1.06	ns
Involved in the care of grandchildren	0.86	*
Member of any other type of non-religious organization	1.03	ns
Engaged in volunteer work in churh or community	0.81	*
Currrently working	0.67	***
Social support		
Living with someone else	0.75	ns

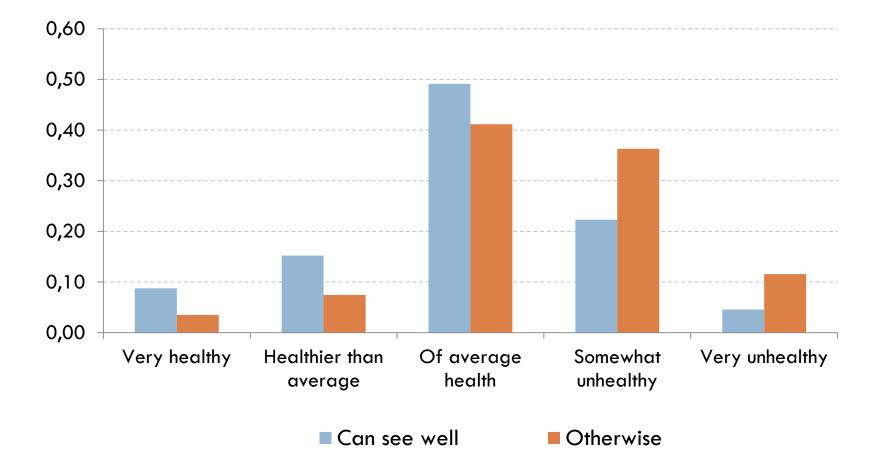
Notes: ***p value <.001, * p value <.05, ns= not significant

Adjusted Probability of Self-reported Health by Hearing Ability

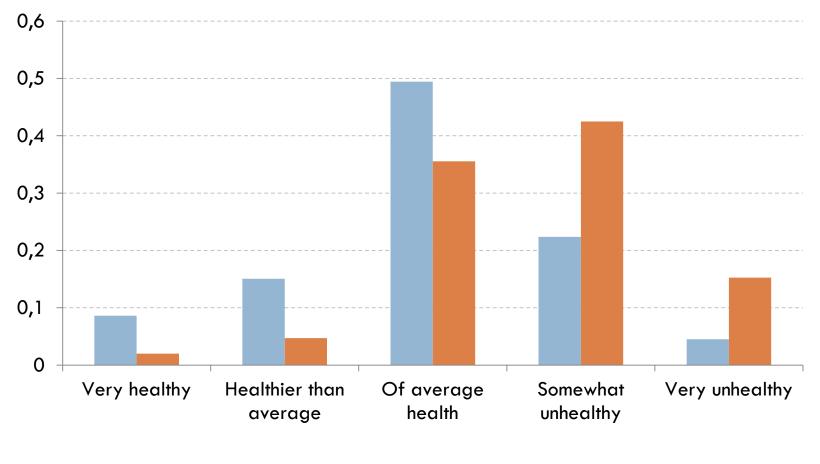


No hearing difficulty
Otherwise

Adjusted Probability of Self-reported Health by Clarity of Vision

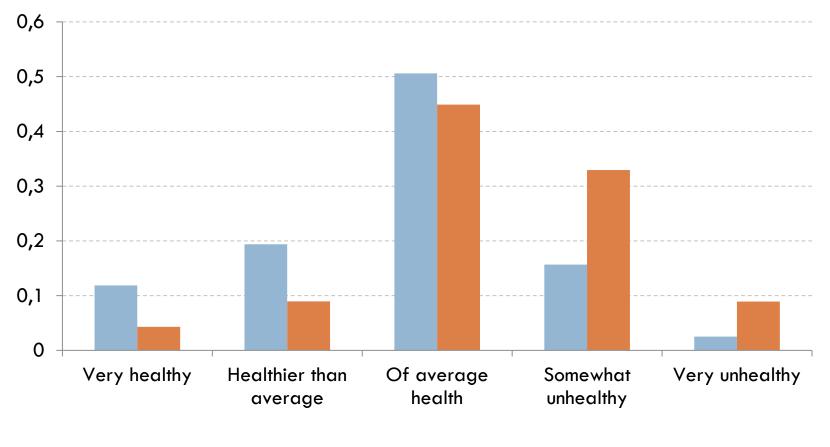


Adjusted Probability of Self-reported Health by ADLs



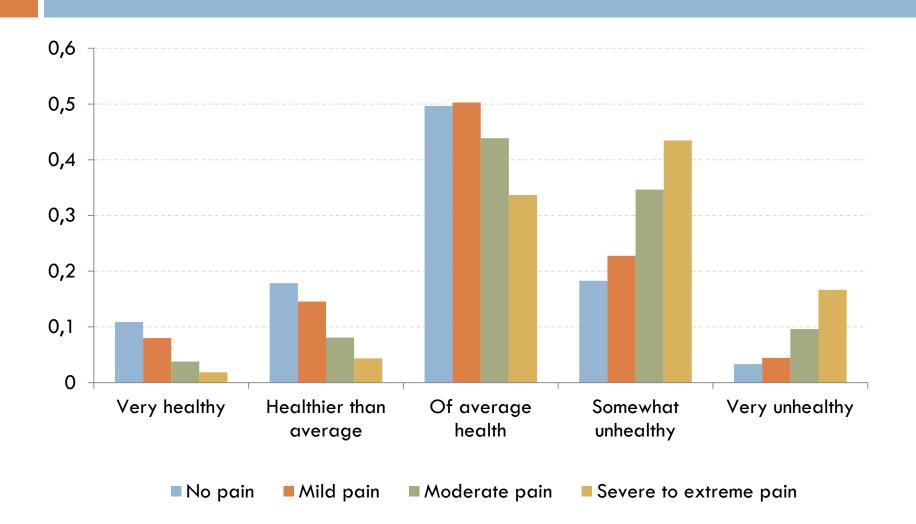
No difficulty
Otherwise

Adjusted Probability of Self-reported Health by Nagi Indicators

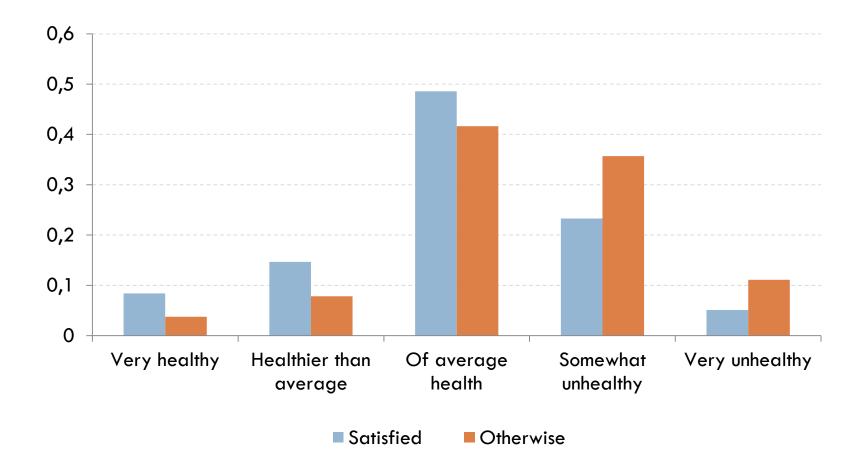


No difficulty otherwise

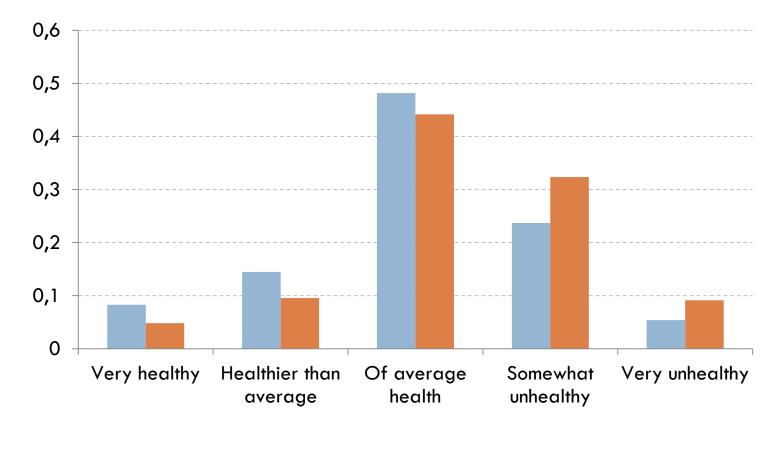
Adjusted Probability of Self-reported Health by Experience of Pain in the last 30 Days



Adjusted Probability of Self-reported Health by Sleep Satisfaction

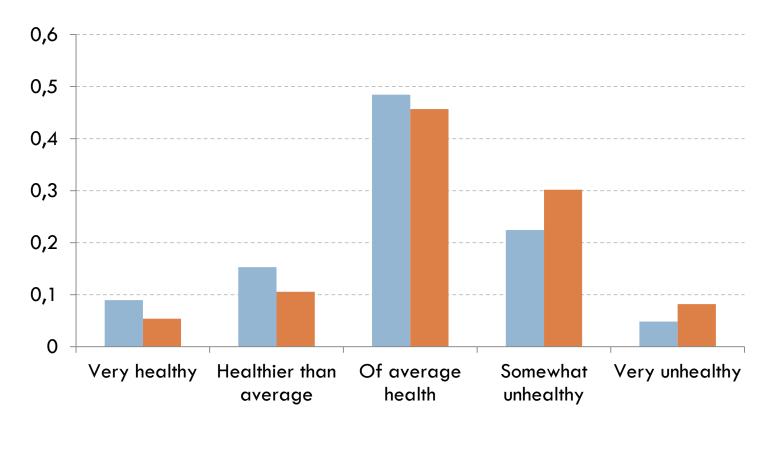


Adjusted Probability of Self-reported Health by Presence of Angina, Myocardial Infarction, etc.



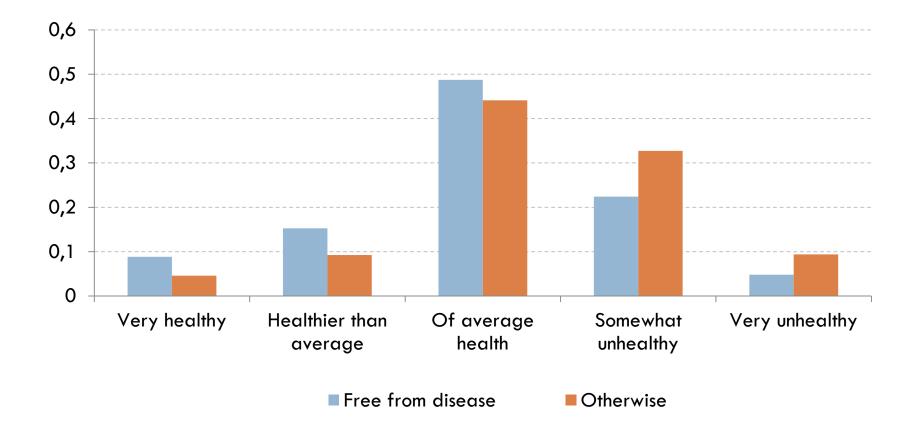
Free from disease
Otherwise

Adjusted Probability of Self-reported Health by Presence of High blood Pressure

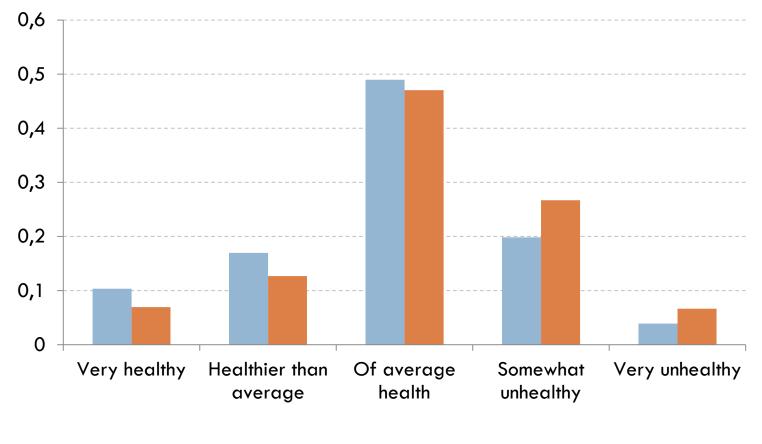


Free from disease
Otherwise

Adjusted Probability of Self-reported Health by Presence of Incontinence

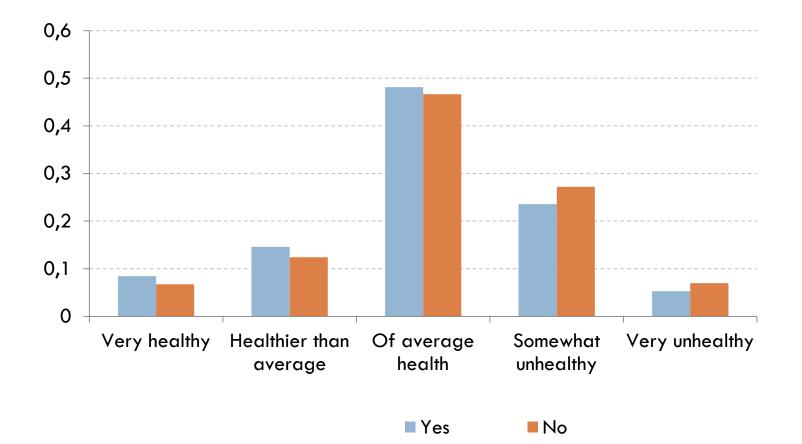


Adjusted Probability of Self-reported Health by Engagement in Volunteer Work in Church or Community

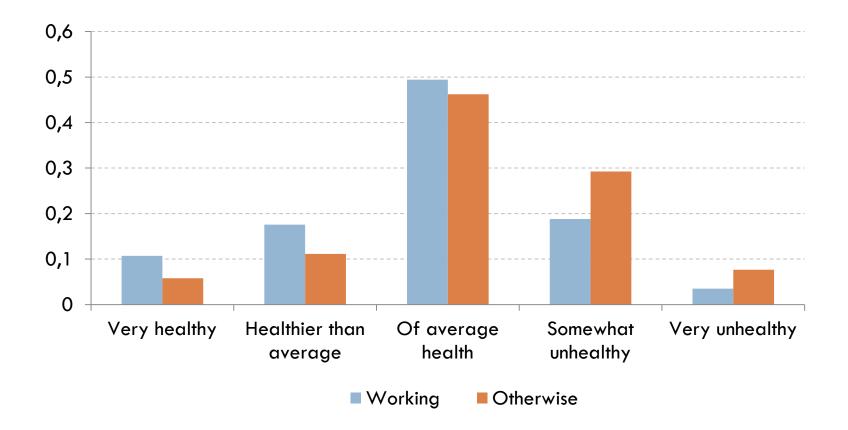


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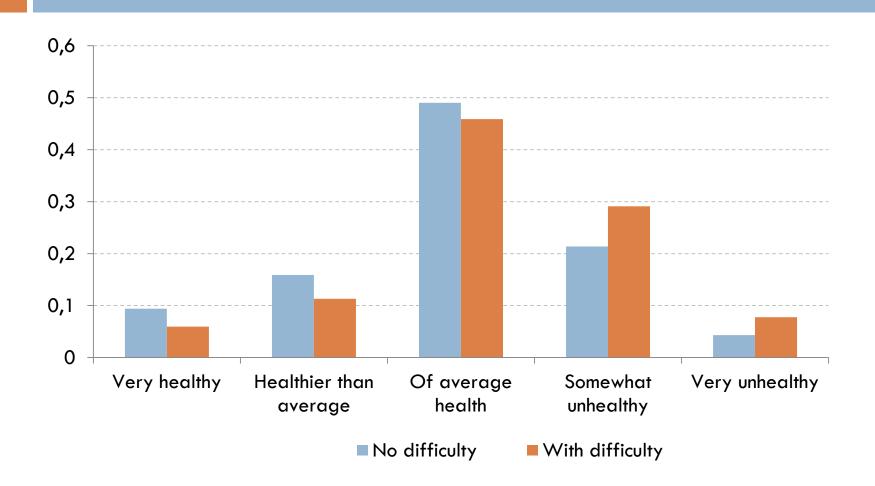
Adjusted Probability of Self-reported Health by Involvement in the Care of Grandchildren



Adjusted Probability of Self-reported Health by Work Status



Adjusted Probability of Self-reported Health by Difficulty in Meeting Expenses



Summary

Lack of impairment in hearing and vision, independence in ADLs and mobility, freedom from chronic diseases, sleep satisfaction, absence of pain in the last 30 days, involvement in the care of grandchildren, engagement in volunteer work in church or community, being in the workforce and having better financial status are associated with positive self-reported health, controlling for other demographic and health factors.

Summary

Controlling for other health indicators, basic demographic and socio-economic variables like age, sex, marital status and education did not emerge as significant predictors of self-reported health.

Body Mass Index by Age and Sex

	Men				Women			
	60-69	70-79	80+	Total	60-69	70-79	80+	Total
% Underweight	15	18	17	16	15	24	30	19
% Normal	57	59	69	58	54	56	54	55
% Overweight	22	17	(10)	20	21	15	14	19
% Obese	6	(6)	(5)	6	10	5	(2)	8
Mean BMI	23	28	22	24	24	23	21	23

Note : Figures in parentheses are based on less than 20 cases

Blood Pressure by Age and Sex

Unit: mmHg

	Men				Women			
	60-69	70-79	80+	Total	60-69	70-79	80+	Total
Systolic Blood								
Pressure	151.1	150.0	157.6	151.3	148.1	152.9	156.1	150.6
Diastolic Blood								
Pressure	87.8	84.2	83.4	86.5	85.3	84.2	81.3	84.4
Pulse Pressure	63.3	65.8	74.2	64.8	62.8	68.7	74.7	66.2

Q47	Now think about your family when you were growing								
	up, from birth to age 16. Would you say your family								
	during that time was pretty well off financially, about								
	average, or poor?								
	1 Pretty well off	2	Average	3	Poor				

H1 Now, think about your family when you were growing up, from birth to age 16. Would you say your family during that time was pretty well off financially, about average, or poor? 1____Pretty well-off 2____Average 3____Poor

THANK YOU!