Neighborhood environment and chronic pain among older adults

Swedish Annual Level of Living Survey

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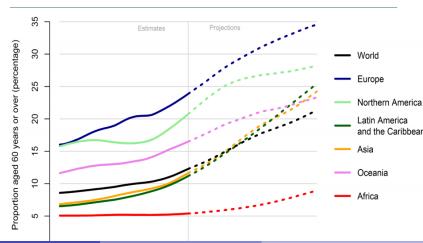
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Introduction

 World population is ageing (UN, 2017)[unitednationsWorldPopulationAgeing2017a].

Percentage of population aged 60 years or over by region, from 1980 to 2050



Introduction - Older adults

- Longer life = more opportunities
 - Seek further careers, educations as individuals.
 - Valuable contributions to society.
- but it depends on.... health.



Introduction - Older adults

• Life expectancy = healthy life expectancy (disability free).



Data source: National Institute of Health and Nutrition. Health Japan 21 (the second term) Analysis and Assessment Projection



Introduction - Older adults

- End of healthy life = Lost functional ability and become care-dependent.
- Determinants of care dependent = physical disorders, especially from fall.
- Pain, is one of the biggest factor for falls, and even mental health.

Number of subjects \geq 60

Number of subjects ≥60 without missing data for relavant variables

Baseline 2016, n=2724

Baseline 2016, n=2526



Introduction - Pain

- Fact of pain.
 - Pain is a determinant factor for physical function decline.
 - Associated healthcare cost with pain.
 - Current issues with pain, mainly treatment.



Introduction - Pain and neighborhood

- Neighborhood environment
 - ▶ Some individual risk factors have been found for pain, i.e. SES.



Objectives

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 To investigate whether neighborhood deprivation is associated with chronic pain among older adults.

Hypothesis

 Older adults living in deprived areas would have higher risk of having/developing chronic pains.

Implication

 The findings lead to further investigations for what modifiable factors lie in neighborhood deprivation and pain.



Methods - Data source

Data source

- Swedish Annual Level of Living Survey
 - ► The Swedish Living Condition Surveys (ULF/SILC).
 - ► Started since 1975 .
 - Changed from face-face to phone interviews in 2008 .
 - ► In 2008, it has been harmonized with European Statistics on Income and Living Conditions (EU-SILC).

Study subjects

- Those who participated in ULF in 2008 2013 (3 time points).
- Those who participated in ULF in 2014 2018 (3 time points).



Methods - Variables

Туре	Name	Description
		'
Outcome	Serious/Severe pain	Do you suffer from pain?
		Would you say the ailments are
		severe or minor? (2014 2018)
		Are the ailments are severe or
		minor? (2008 2013).
Primary exposure	Neighborhood deprivation index	Linked with the measures by
		SAMS.
Covariates	Basic characteristics	Age, gender, immigration sta-
		tus.
	Socio-economic status	Education, occupation, marital
		status, income.
	Physical activity	Frequencies of leisure time ac-
	, ,	tivities, i.e. walking, outdoor
		sports.
	Mental conditions	Problems of anxiety, worry,
	Wientan conditions	fear.
	Social relations	Living alone, social contact
	Social relations	
		time, have friends.

References

