

Association between air pollutants on stroke and myocardial infarction in Scania

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Associated documentation

Enkät-1.pdf (203.14 KB)

Creator/Principal investigator(s)

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Research principal

[Lund University](#) - Department of Occupation and Environmental Medicine

Description

Information about diabetes diagnosis, hypertension and atrial fibrillation, smoking and physical inactivity were collected via postal survey. This information were afterwards completed with information about first case of ischemic stroke from Riks-Stroke (national quality registry for acute stroke) or the Lund stroke registry, demographic registrydata (education, year of birth, sex, marital status and country of birth) and individual exposure for air pollution through geo-coding by home address connected to a coordinated set emission database.

Purpose:

To study short- and long term effects by air-pollutants on stroke and myocardial infarction in Scania

Survey responses are also available for 4700 controls living in Scania and matched on year of birth and sex.

Unit of analysis

[Individual](#)

Population

Skåningar födda 1923-1965, första insjuknande i ischemisk stroke 2001-2006, i livet 1 oktober 2008 och med giltiga bostadsadressuppgifter

Study design

Case-control study

Sampling procedure

[Non-probability: Purposive](#)

Time period(s) investigated

2008-11 - 2008-12

Variables

66

Number of individuals/objects

4621

Response rate/participation rate

70%

Data format / data structure

[Numeric](#)

Data collection 1

- Mode of collection: Self-administered questionnaire: paper
- Time period(s) for data collection: 2008-11 - 2008-12
- Source of the data: Population group

Geographic spread

Geographic description: Scania

Responsible department/unit

Department of Occupation and Environmental Medicine

Ethics Review

Lund - Ref. 490/2007

Research area

[Medical and health sciences](#) (Standard för svensk indelning av forskningsämnen 2011)

[Health sciences](#) (Standard för svensk indelning av forskningsämnen 2011)

[Occupational health and environmental health](#) (Standard för svensk indelning av forskningsämnen 2011)

[Health](#) (CESSDA Topic Classification)

Keywords

[Blood pressure](#), [Residence characteristics](#), [Stroke](#), [Workload](#), [Noise](#), [Marital status](#), [Diabetes mellitus](#), [Epidemiology](#), [Hypertension](#), [Nitric oxide](#), [Air pollution](#), [Education](#), [Brain ischemia](#), [Nitrogen dioxide](#), [Ambient exposure](#), [Toxicity](#), [Scania](#), [Epihealth](#), [Epihealth_skåne](#)

Publications

Oudin Anna . Short- term and long- term exposure to air pollution and stroke risk: Exploring methodological aspects. 2009, Lund University. Doctoral thesis.

Oudin A, Forsberg B, Jakobsson K. Air Pollution and Stroke. *Epidemiology*, 2012;23(3): 505-506 doi: 10.1097/EDE.0b013e31824ea667

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Oudin A, Strömberg U, Jakobsson K, Stroh E, Björk J. Estimation of short-term effects of air pollution on

stroke hospital admissions in southern Sweden. *Neuroepidemiology*. 2010;34(3):131-42. doi: 10.1159/000274807.

Oudin A, Stroh E, Strömberg U, Jakobsson K, Björk J. Long-term exposure to air pollution and hospital admissions for ischemic stroke. A register-based case-control study using modelled NO(x) as exposure proxy. *BMC Public Health*. 2009 Aug 19;9:301. doi: 10.1186/1471-2458-9-301.

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Oudin A, Strömberg U, Jakobsson K, Stroh E, Lindgren AG, Norrving B, Pessah-Rasmussen H, Engström G, Björk J. Hospital admission for ischemic stroke: Does long-term exposure to air pollution interact with major risk factors? *Cerebrovasc Dis*. 2011;31(3):284-93. doi: 10.1159/000322600

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Access to data through an external actor

Access to data is restricted

Contact for questions about the data

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