

H70, kohort 6: 70-year-olds born in 1930

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Description

H70 is one of the longitudinal population studies from Gothenburg where representative study samples of older people have been followed over a long period of time (metadata related to the H85, 95+ and Prospective Population Study of Women studies can be found under the Related studies tab). H70 is a population-based study of normative aging in 70 year old populations which focuses on both medical and cognitive measures. H70 started in 1971 with the recruitment of 973 70-year-olds born in 1901-02 and participants have been intermittently followed for up to 30 years. Additional birth cohorts of 70-year-olds as well as 75-year-olds have also been studied and all cohorts have been followed to some extent longitudinally. The H70 study is coordinated by several research groups, primarily Geriatrics, Primary Health Care, Psychiatry, and Epidemiology.

The examination procedures at each study have been retained as identical as possible to provide results that can be compared over time. The study comprises a psychiatric interview, physical examination, a close informant interview, blood samples with extensive laboratory analysis and psychological tests. It also includes collecting data related to socioeconomic status, marital status, living conditions, housing situation, education, religion, hobbies and life events. Neurobiological investigations in the form of computed tomography (CT) and magnetic resonance imaging (MRI) of the brain and spinal puncture and analysis of brain-spinal fluid are also carried out. Register data from all the major hospitals, geriatric and psychiatric institutions and outpatient clinics in Gothenburg is evaluated to find cases of psychological and somatic diseases. Dementia, depression, psychotic disorders, sleep disorders, anxiety disorders, and post-traumatic stress disorder (PTSD) are diagnosed according to DSM-III-R and DSM-IV. Somatic diseases are classified according to established criteria.

Purpose:

The original aim was:

1. To contribute to the knowledge of normal ageing processes and of normal conditions within the age group
2. To make a survey of the social and medical conditions of the population.
3. To obtain basic data for planning the care of the elderly and
4. To offer the subjects a thorough medical examination

At the 2000-01 baseline examination 574 individuals participated (243 men and 331 women), which represents a response rate of 65% in total. Study participants were followed up at age 75 and 79. Surveys have been conducted in 2000, 2005 and 2009.

Data contains personal data

No

Unit of analysis

[Individual](#)

Population

The population originally consisted of a representative sample of 70-year-old men and women born in 1901/1902 and living in Gothenburg 1971/1972.

Time Method

[Longitudinal: Cohort/Event-based](#)

Sampling procedure

[Probability: Systematic random](#)

The study participants were mainly drawn as a representative, systematic sample from the population register.

Time period(s) investigated

2000 - Ongoing

Data format / data structure

[Numeric](#)

Data collection 1

- Instrument: (Structured questionnaire)

Geographic spread

Geographic location: [Sweden](#)

Geographic description: Gothenburg

Lowest geographic unit

Municipality

Responsible department/unit

Institute of Neuroscience and Physiology

Research area

[Elderly](#) (CESSDA Topic Classification)

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

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

[Gerontology, specialising in medical and health sciences](#) (Standard för svensk indelning av forskningsämnen 2011)

[Health](#) (CESSDA Topic Classification)

Keywords

[Weight \(physiology\)](#), [Care of the elderly](#), [Aged](#), [Ageing](#), [Health](#), [Old age](#), [Housing for the elderly](#), [Human behaviour](#), [Quality of life](#), [Medical care](#), [Ill health](#), [Medicinal drugs](#), [Diseases](#), [Dental health](#), [Smoking](#), [Physical mobility](#), [Sexual behavior](#), [Life events](#), [Symptoms](#), [Cardiovascular diseases](#),

[Nutritional and metabolic diseases](#), [Cancer](#), [Bacterial and virus diseases](#), [Public health](#), [Oral health](#), [Mental health](#), [Sexual health](#), [Medical history](#), [Genetic disorders](#), [Haematologic diseases](#), [Skin diseases](#), [Endocrine disorders](#), [Congenital disorders](#), [Musculoskeletal diseases](#), [Eye diseases](#), [Ear diseases](#), [Anthropometric data](#), [Respiratory system](#), [Haematologic system](#), [Cardiovascular system](#), [Immune system](#), [Psychology](#), [Activities of daily living](#), [Accidental falls](#), [Physical examination](#), [Epidemiologic methods](#), [Body constitution](#), [Visual perception](#), [Dementia](#), [Tooth diseases](#), [Hearing](#), [Psychiatry](#), [Geriatric psychiatry](#), [Life style](#), [Geriatrics](#), [Geriatric nursing](#), [Memory](#), [Longitudinal studies](#), [Motor activity](#), [Exercise](#), [Psychological tests](#), [Socioeconomic factors](#), [Sexuality](#), [Survival](#), [Thyroid diseases](#), [Risk factors](#), [Mortality](#), [Neoplasms](#), [Ear diseases](#), [Respiratory system](#), [Public health](#), [Physical fitness](#), [Cardiovascular diseases](#), [Oral health](#), [Mental health](#), [Disease](#), [Social conditions](#), [Social support](#), [Quality of life](#), [Chronic disease](#), [Injuries](#), [Cognition disorders](#), [Sensory impairments](#), [Ageing population](#), [Social care](#), [Bereavement](#), [Public health risks](#), [Height \(physiology\)](#), [Exercise \(physical activity\)](#), [Near - towards a national e-infrastructure for aging research in sweden](#)

Publications

Berg S, Mellström D, Persson G, Svanborg A. Loneliness in the Swedish aged. *J Gerontol* 1981;36:342-349.

Skoog I. Psychiatric epidemiology of old age: the H70 study - the NAPE Lecture 2003. *Acta Psychiatr Scand*. 2004;109:4-18.

Rockwood K, Mitnitski A, Song X, Steen B, Skoog I. Long-term risks of death and institutionalisation of elderly people in relation to deficit accumulation at age 70. *J Am Ger Soc* 2006;54:975-979.

Fredén Klenfeldt I, Karlsson B, Sigström R, Waern M, Östling S, Marlow T, Gustafson D, Skoog I. Prevalence of Obsessive-compulsive Disorder in Relation to Depression and Cognition in an Elderly Population. *Am J Geriatr Psychiatry*. 2014 Mar;22(3):301-8. doi: 10.1016/j.jagp.2012.09.004. Epub 2013 Mar 13.

Kern S, Skoog I, Ostling S, Kern J, Börjesson-Hanson A. Does low-dose acetylsalicylic acid prevent cognitive decline in women with high cardiovascular risk? A 5-year follow-up of a non-demented population-based cohort of Swedish elderly women. *BMJ Open*. 2012 Oct 3;2(5). doi:pii: e001288. 10.1136/bmjopen-2012-001288. Print 2012. PubMed PMID: 23035037; PubMed Central PMCID: PMC3488756.

Ruitenbergh A, Skoog I, Ott A, Aevarsson O, Witteman JC, Lernfelt B, van Harskamp F, Hofman A, Breteler MMB. Blood Pressure and Risk of Dementia: Results from the Rotterdam Study and the Gothenburg H-70 Study. *Dement Geriatr Cogn Disord* 2001;12:33-39.

Persson G, Svanborg A. Marital coital activity in men at the age of 75: relation to somatic, psychiatric, and social factors at the age of 70. A prospective study on a representative material. *J Am Geriatr Soc* 1992;40:439-444.

Steen B, Bruce A, Isaksson B, Lewin T, Svanborg A. Body composition in 70-year-old males and females in Gothenburg, Sweden. A population study. *Acta Med Scand Suppl*. 1977;611:87-112.

Persson G. Five-year mortality in a 70-year-old urban population in relation to psychiatric diagnosis, personality, sexuality and early parental death. *Acta Psychiatr Scand* 1981;64:244-253.

Silveira E, Skoog I, Sundh V, Allebeck P, Steen B. Health and well-being among 70-year-old migrants living in Sweden - results from the H70 gerontological and geriatric population studies in Göteborg.

Soc Psychiatry Psychiatr Epidemiol 2002;37:13-22.

Nilsson-Ehle H, Jagenburg R, Landahl S, Svanborg A, Westin J. Decline of blood haemoglobin in the aged: a longitudinal study of an urban Swedish population from age 70 to 81. *Br J Haematol*. 1989 Mar;71(3):437-42.

Lak V, Guo X, Skoog I. Secular trends in lung function and its relation to survival in Swedish 75-year olds 1976-2006. *Age Ageing*. 2012 Nov;41(6):735-40.

Sacuiu S, Gustafson D, Sjögren M, Guo X, Östling S, Johansson B, Skoog I. Secular changes in cognitive predictors of dementia and mortality in 70-year-olds. *Neurology* 2010;75(9):779-85.

Palsson SP, Östling S, Skoog I. The incidence of first-onset depression in a population followed from the age of 70 to 85. *Psychol Med* 2001;31:1159-1168.

Hörder H, Skoog I, Frändin K. Health-related quality of life in relation to walking habits and fitness: a population-based study of 75-year-olds. *Qual Life Res*. 2013 Aug;22(6):1213-23. doi: 10.1007/s11136-012-0267-7. Epub 2012 Sep 22.

Sigström R, Skoog I, Sacuiu S, Karlsson B, Fredén Klenfeldt I, Waern M, Gustafson D, Östling S. The prevalence of psychotic symptoms and paranoid ideation in a non-demented population sample of 70-82 year olds. *Int J Ger Psychiatry* 2009;24:1413-1419.

Nilsson-Ehle H, Jagenburg R, Landahl S, Svanborg A, Westin J. Haematological abnormalities and reference intervals in the elderly. A cross-sectional comparative study of three urban Swedish population samples aged 70, 75 and 81 years. *Acta Med Scand*. 1988;224(6):595-604.

Karlsson B, Sigström R, Waern M, Östling S, Gustafson D, Skoog I. The Prognosis and Incidence of Social Phobia in an Elderly Population. A 5-Year Follow-up. *Acta Psych Scand* 2010; 122:4-10.

Liebetrau M, Hamann GF, Skoog I. White matter lesions as a risk factor for stroke and dementia. *Nervenarzt* 2005;76:708-715.

Sigström R, Ostling S, Karlsson B, Waern M, Gustafson D, Skoog I. A population-based study on phobic fears and DSM-IV specific phobia in 70-year olds. *J Anxiety Disord*. 2011;25(1):148-53. .

Persson G. Sexuality in a 70-year-old urban population. *J Psychosom Res* 1980;24:335-342.

Mellström D, Rundgren A, Jagenburg R, Steen B, Svanborg A. Tobacco smoking, ageing and health among the elderly: a longitudinal population study of 70-year-old men and an age cohort comparison. *Age Ageing*. 1982 Feb;11(1):45-58.

Beckman N, Waern M, Gustafson D, Skoog I. Secular trends in self reported sexual activity and satisfaction in Swedish 70 year olds: cross sectional survey of four populations, 1971-2001. *Brit Med J* 2008; 337:151-154.

Persson G. Prevalence of mental disorders in a 70-year-old urban population. *Acta Psychiatr Scand* 1980;62:119-139.

Persson G. Life event ratings in relation to sex and marital status in a 70-year-old urban population. *Acta Psychiatr Scand* 1980;62:112-118.

Waern M, Marlow T, Östling S, Morin J, Skoog I. Secular changes in at-risk drinking in Sweden: Birth

cohort comparisons in 75-year-old men and women 1976-2006. *Age Ageing*. 2014 Mar;43(2):228-34. doi: 10.1093/ageing/aft136. Epub 2013 Sep 25.

Persson G. Relation between early parental death and life event ratings among 70-year-olds. A test of a sensitization theory. *Acta Psychiatr Scand* 1980;62:392-397.

Nilsson LV. Prevalence of mental disorders in a 70-year-old urban sample. A cohort comparison. *J Clin Exp Gerontology* 1983;5:101-120.

Sonn U, Frändin K, Grimby G. Instrumental activities of daily living related to impairments and functional limitations in 70-year-olds and changes between 70 and 76 years of age. *Scand J Rehab Med* 1995; 27: 119-28.

Nilsson J, Karlsson B, Sigström R, Waern M, Östling S, Guo X, Skoog I. The prevalence of Generalized Anxiety Disorder according to DSM-IV and ICD-10 among non-demented 75-year-olds in Gothenburg, Sweden. *Am J Ger Psychiatry* (in press).

Nilsson L. Mental diseases in an urban population examined at the age of 70 and 5 years later. *Nordisk Gerontologisk Tidskrift, Norsam-Nyt Suppl* 1982;42-43.

Nilsson-Ehle H, Jagenburg R, Landahl S, Svanborg A. Blood haemoglobin declines in the elderly: implications for reference intervals from age 70 to 88. *Eur J Haematol*. 2000 Nov;65(5):297-305.

Hörder H, Skoog I, Frändin K. Health-related quality of life in relation to walking habits and fitness: a population-based study of 75-year-olds. *Qual Life Res* 2013; 22(6):1213-23. doi: 10.1007/s11136-012-0267-7.

Rinder L, Roupe S, Steen B, Svanborg A. Seventy-year-old people in Gothenburg. A population study in an industrialized Swedish city. *Acta Med Scand*. 1975 Nov;198(5):397-407.

Frändin K, Grimby G, Mellström D, Svanborg A. Walking habits and health-related factors in a 70-year-old population. *Gerontology* 1991; 37: 281-8.

Persson G. Personality dimensions in a 70-year-old urban population. Norms for the MNT scales and sex and age relations. *Acta Psychiatr Scand* 1980;62:476-485.

Wiberg P, Waern M, Billstedt E, Östling S, Skoog I. Secular trends in the prevalence of dementia and depression in Swedish septuagenarians 1976- 2006. *Psychol Med*. 2013 Dec;43(12):2627-34. doi: 10.1017/S0033291713000299. Epub 2013 Mar 12.

Landahl S, Lindblad B, Roupe S, Steen B, Svanborg A. Digitalis therapy in a 70-year-old population. *Acta Med Scand*. 1977;202(6):437-43.

Nilsson J, Östling S, Waern M, Karlsson B, Sigström R, Guo X, Skoog I. The 1-Month Prevalence of Generalized Anxiety Disorder According to DSM-IV, DSM-V, and ICD-10 Among Nondemented 75-Year-Olds in Gothenburg, Sweden. *Am J Geriatr Psychiatry*. 2012 Nov;20(11):963-72. doi: 10.1097/JGP.0b013e318252e749.

Nilsson L, Persson G. H70 Hälsoundersökning av 70-åringar i Göteborg. Mentalt hälsotillstånd. *Läkartidn* 1980;77:3757-3759.

Sacuiu S, Gustafson D, Johansson B, Thorvaldsson V, Berg S, Sjögren M, Guo X, Östling S, Skoog I. The pattern of cognitive symptoms predicts time to dementia onset. *Alz & Dem* 2009;5:199-206.

Thorvaldsson V, Skoog I, Hofer SM, Börjesson-Hanson A, Ostling S, Sacuiu S, Johansson B. Nonlinear blood pressure effects on cognition in old age: separating between-person and within-person associations. *Psychol Aging*. 2012 Jun;27(2):375-83. Epub 2011 Oct 10.

Östling S, Pálsson S, Skoog I. The incidence of first-onset psychotic symptoms and paranoid ideation in a representative population sample followed from age 70 to 90 years. Relation to mortality and later development of dementia. *Int J Geriatr Psychiatry* 2007;22:520-528.

Mosallanezhad Z, Hörder H, Salavati M, Nilsson-Wikmar L, Frändin K. Physical activity and physical functioning in Swedish and Iranian 75-year-olds - a comparison. *Arch Gerontol Geriatr* 2012; 55(2): 422-30.

Olesen PJ, Gustafson DR, Simoni M, Pantoni L, Ostling S, Guo X, Skoog I. Temporal Lobe Atrophy and White Matter Lesions are Related to Major Depression over 5 years in the Elderly. *Neuropsychopharmacology* 2010;35(13):2638-45.

Landahl S, Jagenburg R, Svanborg A. Blood components in a 70-year-old population. *Clin Chim Acta*. 1981 May;112(3):301-14.

Steen B, Isaksson B, Svanborg A. Intake of energy and nutrients and meal habits in 70-year-old males and females in Gothenburg, Sweden. A population study. *Acta Med Scand Suppl*. 1977;611:39-86.

Persson G, Nilsson LV, Svanborg A. Personality and sexuality in relation to an index of gonadal steroid hormone balance in a 70-year-old population. *J Psychosom Res* 1983;27:469-477.

Karlsson B, Klenfeldt IF, Sigstrom R, Waern M, Ostling S, Gustafson D, Skoog I. Prevalence of social phobia in non-demented elderly from a swedish population study. *Am J Geriatr Psychiatry* 2009;17:127-135.

Sjöberg L, Östling S, Waern M, Falk H, Skoog I. Secular changes in the relation between depression and social factors. A study of two birth cohorts of Swedish septuagenarians followed for 5 years. *J Affect Disord*. 2013 Sep 5;150(2):245-52. doi: 10.1016/j.jad.2013.04.002. Epub 2013 Apr 30.

Guo X, Matousek M, Sonn U, Skoog I, Björkelund C, Steen B. A longitudinal study on changes of movement performance and their relation to medical conditions in a female population followed from age 70 to 78. *Arch Gerontol Geriatr* 2003;36:127-140.

Nilsson LV. Incidence of severe dementia in an urban sample followed from 70 to 79 years of age. *Acta Psychiatr Scand* 1984;70:478-486.

Persson G. Psychogenic needs in a 70-year-old population. Norms for the CMPS and sex and age relations. *Acta Psychiatr Scand* 1980;62:464-475.

Billstedt E, Waern M, Duberstein P, Marlow T, Hellström T, Östling S, Skoog I. Secular changes in personalty: study of 75-year-olds examined in 1976-1977 and 2005-2006. *In J Geriatr Psychiatry* 2013;28(3):298-304.

Nilsson L, Skoog I. H-70 - de äldres hälsa. Fler resultat från projektet: Psykiska störningar. *Läkartidningen* 1989;86:2773-2774.

Bergh I, Steen G, Waern M, Sjöström B, Odén A, Steen B. Pain and depressive symptoms in 70-year old men and women: A Swedish population study. *Journal of pain and symptom management* 2003;26:903-912.

Duberstein PR, Palsson SP, Waern M, Skoog I. Personality and risk for depression in a birth cohort of 70-year-olds followed for 15 years. *Psychological Medicine* 2008;38:663-671.

Zhi X, Joas E, Waern M, Östling S, Börjesson-Hanson A, Skoog I. Prevalence of cardiovascular disorders and risk factors in two 75-year-olds birth cohorts examined in 1976-77 and 2005-06. *Aging Clin Exp Res*. 2013 Aug;25(4):377-83. doi: 10.1007/s40520-013-0058-1. Epub 2013 Jun 4.

Nilsson LV, Persson G. Prevalence of mental disorders in an urban sample examined at 70, 75 and 79 years of age. *Acta Psychiatr Scand* 1984;69:519-527.

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Accessibility level

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Access to data is restricted

Homepage

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Contact for questions about the data

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Related research data in SND's catalogue

[Prospective Population Study of Women in Göteborg \(PPSW\) - 1968](#)

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[H70, cohort 2: 70-year-olds born in 1906/07](#)

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