

# YATSS - Young Adult Twin Study in Sweden

**SND-ID:** 2024-470.

**Is part of collection at SND:** [The Swedish Twin Registry](#)

## Associated documentation

YATSS\_codebook.xlsx (192.39 KB)

YATSS\_Instrument\_DCQ\_svensk.pdf (183.47 KB)

YATSS\_survey\_structure.pdf (1.21 MB)

## Creator/Principal investigator(s)

[Paul Lichtenstein](#) - Karolinska Institutet, Department of Medical Epidemiology and Biostatistics

## Research principal

[Karolinska Institutet](#) - Department of Medical Epidemiology and Biostatistics / The Swedish Twin Registry

## Principal's reference number

FOR 4-304/2013

## Description

A twin study on health and behavior in young adult twins born between 1985 and 1992 was conducted. The aim of the study was to examine how genetic and environmental factors influences diseases. The study included questions about gastrointestinal disorders, pulmonary disease, asthma/allergy, arthritis, affective disorders and symptoms, eating disorders , fibromyalgia, chronic fatigue syndrome and women's health. The sample consisted of both identical (monozygotic) and fraternal (dizygotic) twins, including same-sex and opposite-sex pairs. Conducted in 2013, the study had a total of 6,870 participants out of 16,244 invited.

Participants were also asked to provide DNA samples via saliva for zygosity determination and genotyping. A total of 4,000 twins who participated in the YATSS survey were genotyped.

The YATSS study includes the following question areas:

ADHD

Alcohol

Allergy

Autism

Burnout

CES-D - Center for Epidemiologic Studies Depression Scale -11 items, Iowa Form

Chronic fatigue syndrome

DCQ - Dysmorphic Concerns Questionnaire (BDD) - 7 items, swedish version

Demography

MDD - Major Depressive Disorder - 31 items

Eatingdisorders

Education and occupation

Epilepsy

EPQ - Eysenck Personality Questionnaire - 9 items

Fibromyalgia  
GAD - Generalised Anxiety Disorder - 19 items  
Headache  
Hoarding - HRS-I (Hoarding Rating Scale-Interview) - 4 out of 5 items  
IBS - Irritable Bowel Syndrome  
Illicit drugs  
Medical history  
Menstruation och reproductive history  
OA & RA - Osteoarthritis and Rheumatoid arthritis  
OCD - Obsessive Compulsive Disorder - 12 items  
Physical activity  
Performance  
Psychosis  
Reflux  
Sexual risk behavior  
SIL - sick leave  
Sleep  
Smoking and snuff use  
Trauma  
Urinary tract infection  
Socio-economic index - classification mainly based on information about individuals profession

**Data contains personal data**

Yes

**Sensitive personal data**

Yes

**Type of personal data**

Pseudonymised, health data, social security number, lifestyle, exposures, names, addresses, survey responses

**Code key exists**

Yes

**Language**

[English](#)

[Swedish](#)

**Unit of analysis**

[Individual/Patient](#)

**Population**

Twins born in Sweden between 1985-05-01 and 1992-06-30

**Time Method**

[Cross-section](#)

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

### **Study design**

Cohort study

### **Description of study design**

Data collection was conducted via a web survey, but also via paper questionnaires if participants desired it. Participation in the study was based on informed consent.

### **Sampling procedure**

The sample was based on all twins born in Sweden between May 1985 and June 1992 according to the Medical Birth Registry (the National Board of Health and Welfare). Twins who had declined further participation in the twin registry, had protected identity, had emigrated, or had died were excluded. Both complete twin pairs and individual twins were invited to participate in the study.

### **Biobank is connected to the study**

The study has collected samples/material which are stored in a scientific collection or biobank

Scientific collection or biobank name: KI Biobank

Type(s) of sample: DNA from saliva

### **Variables**

1130

### **Number of individuals/objects**

6870

### **Response rate/participation rate**

42%

Out of 16,244 invited participants, 6,870 responded, resulting in a response rate of 42%.

### **Data format / data structure**

[Numeric](#)

[Text](#)

### **Data collection 1**

- Mode of collection: Self-administered questionnaire
- Description of the mode of collection: Paper or web questionnaire
- Time period(s) for data collection: 2013-03 - 2014-01
- Data collector: Karolinska Institutet
- Instrument: CES-D (Structured questionnaire)

The CES-D scale is used to rate how often over the past week respondents experienced symptoms associated with depression, such as restless sleep, poor appetite, and feeling lonely.

DOI: 10.1177/089826439300500202

DOI: 10.1177/014662167700100306

- Instrument: DCQ (Structured questionnaire)

The DCQ is a self-report measure with seven items which ask about cognitive and behavioural

aspects of dysmorphic concern. See document YATSS\_Instrument\_DCQ\_svensk.pdf

DOI: 10.3109/00048679809062719

DOI: 10.1046/j.1440-1614.2001.00860.x

DOI: 10.3109/00048671003596055

- Instrument: OCD (Structured questionnaire)

A scale that measures symptoms of obsessive-compulsive disorder.

DOI: 10.1037//1040-3590.14.4.485

- Instrument: HRS-I (Structured questionnaire)

A five-item semi-structured interview that assesses the features of compulsive hoarding (clutter, difficulty discarding, acquisition, distress and impairment).

DOI: 10.1016/j.psychres.2009.05.001

- Instrument: MDD (Structured questionnaire)

Major Depressive Disorder

Diagnostic and Statistical Manual of Mental Disorders, 4th Edition, Text Revision (DSM-IV-TR; APA, 2000).

- Source of the data: Registers/Records/Accounts: Medical/Clinical, Registers/Records/Accounts

### **Geographic spread**

Geographic location: [Sweden](#)

Geographic description: Nationwide

### **Responsible department/unit**

Department of Medical Epidemiology and Biostatistics / The Swedish Twin Registry

### **Funding**

- Funding agency: Karolinska Institutet
- Funding information: Government grants

### **Ethics Review**

Stockholm - Ref. 2012/2107-31/3

Ethics application approved on 9th of January 2013

### **Research area**

[Drug abuse, alcohol and smoking](#) (CESSDA Topic Classification)

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

[Public health, global health, social medicine and epidemiology](#) (Standard för svensk indelning av forskningsämnen 2011)

[Reproductive health](#) (CESSDA Topic Classification)

[General health and well-being](#) (CESSDA Topic Classification)

[Physical fitness and exercise](#) (CESSDA Topic Classification)

[Diet and nutrition](#) (CESSDA Topic Classification)

[Psychology](#) (CESSDA Topic Classification)

### **Keywords**

[Health](#), [Genetics](#), [Twins](#), [Phenotype](#), [Identical twins](#), [Zygosity](#)

## **Publications**

Ivanov, V. Z., Nordsletten, A., Mataix-Cols, D., Serlachius, E., Lichtenstein, P., Lundström, S., Magnusson, P. K. E., Kuja-Halkola, R., & Ruck, C. (n.d.). Heritability of hoarding symptoms across adolescence and young adulthood: A longitudinal twin study. In PLoS ONE (No. e0179541; Vol. 12, Issue 6). <https://doi.org/10.1371/journal.pone.0179541>

**DOI:** <https://doi.org/10.1371/journal.pone.0179541>

**SwePub:** <oai:gup.ub.gu.se/255524>

## **Accessibility level**

Access to data through an external actor

Access to data is restricted

## **License**

[CC0 1.0](#)

## **Homepage**

[The Swedish Twin Registry](#)

## **Contact for questions about the data**

[str-research@meb.ki.se](mailto:str-research@meb.ki.se)

## **Is part of collection at SND**

[The Swedish Twin Registry](#)

## **Download metadata**

[DataCite](#)

[DDI 2.5](#)

[DDI 3.3](#)

[DCAT-AP-SE 2.0](#)

[JSON-LD](#)

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