

# Computer related musculoskeletal ill-health among upper-secondary school pupils 2005 - Reliability data-Observation data

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## Associated documentation

0848q.pdf (179.12 KB)

0848q2.pdf (85.29 KB)

0848q3.pdf (147.37 KB)

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## Research principal

[Arbetslivsinstitutet](#)

## Description

The data collection was performed in high schools in the counties of Stockholm, Södermanland, Uppsala and Västmanland during the autumn of 2005.

The study consisted of two parts:

1. Questionnaires for the students.
2. Ergonomic evaluation of the schools computer workplaces and a short interview with the person responsible for the computers at the school.

An information letter was sent to the school leaders where the setup and implementation of the study were explained. After that the school leaders were contacted by telephone and asked if their school wished to participate in the study. If they chose to take part, they were asked to send a record of all students in the second grade to Working Life Institute (Arbetslivsinstitutet). From these lists a selection of classes was made. Then a new contact with the school leader was made, where the leader was asked to inform the teachers concerned by the study. In addition, each teacher got a letter

with information about the study. The students got information about the study from their teachers and from the first page in the questionnaire.

The ambition was to have a researcher from the Working Life Institute present at the school when the students answered the questionnaire. The completed questionnaires were gathered by the teachers or the researcher and brought to the Working Life Institute where they were de-identified. After that the questionnaires were sent to the company "Tabell och Form AB" for scanning and a primary data preparation.

Ergonomists from the Working Life Institute visited all selected schools to perform an ergonomic evaluation, according to a structured checklist, of the student's computer workplaces and to do a short interview with the person responsible for the computers at the school.

Purpose:

The aim of the study was to describe range of computer usage in school and in spare time and the prevalence of difficulties, especially in the locomotive organs, among high school students. The aim was also to examine if there is a connection between computer time and physical difficulties.

### **Data contains personal data**

No

### **Language**

[Swedish](#)

### **Unit of analysis**

[Individual](#)

### **Population**

Students year 2 in the gymnasium

### **Time Method**

[Cross-section](#)

### **Sampling procedure**

Slumpmässigt urval i 2 steg. Bland de 216 gymnasieskolorna som fanns i undersökningsområdet gjordes ett slumpmässigt urval av 40 skolor, utan hänsyn till om skolan drevs i kommunal eller privat regi. Därefter gjordes ett slumpmässigt urval av 186 stycken ÅK2-klasser vid dessa skolor, utan hänsyn till program. På två små skolor blev inga klasser valda och därmed kvarstod 38 skolor i studien. Studiegruppen utgjordes av samtliga elever i de utvalda klasserna, sammanlagt 3852 elever. Antalet elever som besvarade frågeformuläret var 2830, svarsfrekvens 73 %.

### **Time period(s) investigated**

2005-09 - Ongoing

### **Variables**

285

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

**Data format / data structure**

[Numeric](#)

**Geographic spread**

Geographic location: [Sweden](#)

Geographic description: Stockholm, Södermanland, Uppsala and Västmanland counties

**Research area**

[Working conditions](#) (CESSDA Topic Classification)

[Youth](#) (CESSDA Topic Classification)

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

[Health](#) (CESSDA Topic Classification)

[Higher and further education](#) (CESSDA Topic Classification)

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

**Keywords**

[Ill health](#), [Physical activities](#), [Lighting](#), [Television viewing](#), [Pain](#), [Back pain](#), [Headaches](#), [Sleep](#), [Teacher-student relationship](#), [Educational environment](#), [Social environment](#), [Computer literacy](#), [Access to information and communications technology](#), [Secondary schools](#), [Working conditions](#), [Computers](#), [Height \(physiology\)](#), [Weight \(physiology\)](#)

**Publications**

Hansson Risberg, E., Palm, P., Isaksson, A., Mortimer, M., Palmerud, G., Toomingas, A., & Wigaeus Tornqvist, E. (2006). Elevers datorarbetsplatser i gymnasieskolan. Arbetslivsrapport nr 2006:38. National Institute for Working Life, Work and Health. ISSN 1401-2928.

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**Accessibility level**

Access to data through SND

Access to data is restricted

**Use of data**

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**Versions**

Version 1.0. 2006-06-01

**Related research data in SND's catalogue**

[Computer related musculoskeletal ill-health among upper-secondary school pupils 2005 - Questionnaire to students](#)

[Computer related musculoskeletal ill-health among upper-secondary school pupils 2005 - Interview with person responsible for the school's computers](#)

[Computer related musculoskeletal ill-health among upper-secondary school pupils 2005 - Observation of computer workplaces](#)

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