Linking Health Data with Social Science Data

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DDA – Danish Data Archive
DDA provides dissemination service for:

- **Cross section surveys**
  Traditional surveys like attitudes and behaviour towards x, y, z ... dating back to the 1960’s)

- **Time series**
  E.g. Danish Value Surveys (1980’s), election studies (1970’s), leisure studies (1960’s)

- **Epidemiological data - Cohort and panel studies**
  E.g. Danish National Birth Cohort (start 1997), Database on ageing (start 1997, initial cohort born 1920-1945), Danish Child Cohort Study (initial cohort born 1968) and The Danish Twin Registry (1870)

- **Register data**
  In the pipeline

Data resources making us a stand alone research infrastructure;

HOWEVER...
The present research environment

- We will all agree that combining different kinds of information and data is essentials to research today and in the future.
- Personal identification numbers is the obvious bridge to link between various data resources.
- However to limit linking to unique ID numbers on a person-to-person level will be to turn our backs to great research potentials by linking our data resources (in less strict manners).
‘Broad’ linking

• Linking is in this sense regarded as connecting two (or more) datasets which is not collected in the same series, cohort, panel etc.

• The concept is comparable to the big data challenge – the point being that there is a lot to gain in research potentials from linking datasets (there are not that big or let’s call them big data and be trendy:)

IASSIST 2014: Integrated Data Discovery and Access: Building Data Collections
Linking creates new knowledge from existing knowledge

A few examples/ideas to illustrate research potentials

- Changes in leisure habits (sedentary behaviour) and overweight and diabetes occurrence
- Preference for a certain kind of behaviour by children from pedagogues, teachers and parents(!) and the growth in children diagnosed with the term ADHD
- Attitudes towards elderly people and the development in the average age for retirement.
- Attitudes towards own health and the rise in people suffering from (unconventional) illnesses like whiplash, Chronic Fatigue Syndrome etc.
- Growth in people suffering from stress and sudden heart diseases (without a prior history of illness)
- Political attitudes and genes (do not fit criteria however)
- ... and more

Be carefully of course
‘Broad’ linking is made possible by contextual metadata

- DDI-Lifecycle offers a standard for conceptual metadata both on study level and on variable level.
- Metadata that is structured to allow extensive linking within and across resources
Human readable & machine readable information

... on study level:
- Temporal coverage
- Geographical coverage
- Topical coverage
- Universe
- Keywords

... on variable level:
- Subuniverses
- Concepts
- Questions
- Categories and codes
Danish Leisure Study, 1987: Postal Questionnaire for Adults

Principal Investigator
Inger Koch-Nielsen, Det Nationale Center for Socialforskning (NCS), Jacob Vedej-Petersen, Det Nationale Center for Socialforskning (NCS).

Description
Purpose
See abstract

Abstract
This data material forms part of a major survey of people's time consumption. The survey comprises the following data files:


The questions deal with the following issues:

- The respondent's main occupation and sidelines, if any; whether the respondent works on weekdays, in the weekend, in the evening or at night; furthermore, the respondent is asked whether she/he works a reduction of working hours.
- Whether the respondent uses some of her/his leisure time on other people (on visits), in the home, goes in for sport and exercise, music or other home activities.
- Whether the respondent's habits regarding TV, radio, video and record player as well as reading habits.
- Whether the respondent's use of public libraries, school libraries and research libraries.
- Whether the respondent participates in in-service training and in activities in associations, clubs, etc.

Keywords
gramophone, shift work, Church, National, sports, exercise, political affiliation, CD player, record player, library habits, newspaper, reading habits, church attendance, compact disc player, political attitudes, movements, radio programmes, video tape recorder, music, spare time activities, transport, means of, reduction of working hours, TV programmes, moonlighting, personal computer in household, time consumption, leisure, night work, weekend work, working hours, reduction of clubs, PC in household, video habits, associations, radio, in-service training, activities, spare time, National Church, TV, training, in-service training.

Classification
Society and culture: Time use, labour and employment; Employment, Politics: Mass political behaviour, attitudes/opinion, Education, Information and communication: Mass media, Health: Physical fitness and exercise, Society and culture; Social behaviour and attitudes, Society and culture: Cultural activities and participation, Society and culture: Leisure, tourism and sport

Universe
Age limits: The observational units of the survey as a whole are families or households, the observational units of the part-surveys are individuals.

Geographic Coverage
National, DK

Data set
Order data
Variables: 407
Respondents
In data set: 3303
Original sample: NA

Method
Kind of data: Survey data
Time dimension: Cross-sectional (one time) study - partial replication. Similar subjects were examined in 1964 (DDA-0003), 1975 (DDA-0048), 1982 (DDA-0542), 1983 (DDA-1828, DDA-3905 and DDA-3906) and 1998 (DDA-4755).
Sampling procedure: NA
Action to minimize loss: In connection with the telephone interview part of the survey (see DDA-1343) the respondents were given a reminder if the postal questionnaire had not been returned; the interviewer might help the respondent by the completion. After the completion of the telephone interview written reminders were sent (towards the end of April) to the respondents who had not completed the telephone interview.

http://dda.dk/catalogue/1342?lang=en
Search Results
Showing results 1 to 50 of 207 total.

**Health Behaviour of School Children, 1984-1985.**

**Study:** Skolebørnsundersøgelsen (HBSC), 1984-85

**Found in:**
Health Behaviour of School Children, 1984-1985... om 11-15 åriges skolebørns sundhedsafærd, "Health Behaviour in School... sundhedsafærd, "Health Behaviour in School... sundhedsafærd, "Health Behaviour in School... sundhedsafærd, "Health Behaviour in School Children". It is an essential health political objective in ... in the WHO programme 'Healthhealth political objective in ... behaviour in a more health policyHealth: NutritionHealth: Physical fitness and exerciseHealth: Drug abuse, alcohol and smokingHealth: Behaviour of school childrenHealth: Behaviour of school children

**Hospital Admissions in Storstrøm, 1977-1978**

**Study:** Hospitalsindlæggelser i Storstrøms Amtskommune 1977-78

**Found in:**
... of hospitals, i.e. their contribution to the health of the population ... to being health of the population ... to being health of the population ... to being health of the population ... to being health of the population... to being health sectorHealth: Health care and medical treatmentHealth: General healthhealth economic theoryHealth: Healthservice

**Working Conditions and Health of Women in Denmark, 1976-1977**

**Order study**
The challenges to ‘broad’ linking

- More proofs of why and how (Amalie would have given that;)
- Acknowledgement of studies conducted this way
- Use of the DDI-L standard outside the archives
- Use of controlled vocabularies by data service providers (researchers and data managers, too😊)
- Registries for resources available (in DDI-L)
- Software for allowing users to make comparisons of metadata
- Software for sharing knowledge among data users and data service providers
- …
• Joined forces between researchers, data managers and data service providers

Well we always say that;... but if we do it will be BIG

• QUESTIONS???

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