

# Are there good alternatives or add-ons to surveys?

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#### The dilemma of current survey research

The idea of surveys:

Relevant research question

 $\rightarrow$  survey



Alternative, less problematic tools?

- → research questions suitable to these tools
  - → valid results to wrong questions?



#### What do survey researchers study?

Study types of risk behavior

(6+, risky drinking, max amounts,..)

Compare population subgroups

Follow change in time

#### The aims with these=?

- Monitoring of change
- Identification of opportunities and ways of intervention
- Understanding mechanisms and connections



#### Potential alternatives to surveys and/or for validation and triangulation of survey data?

Administrative data / data that is created for other purposes

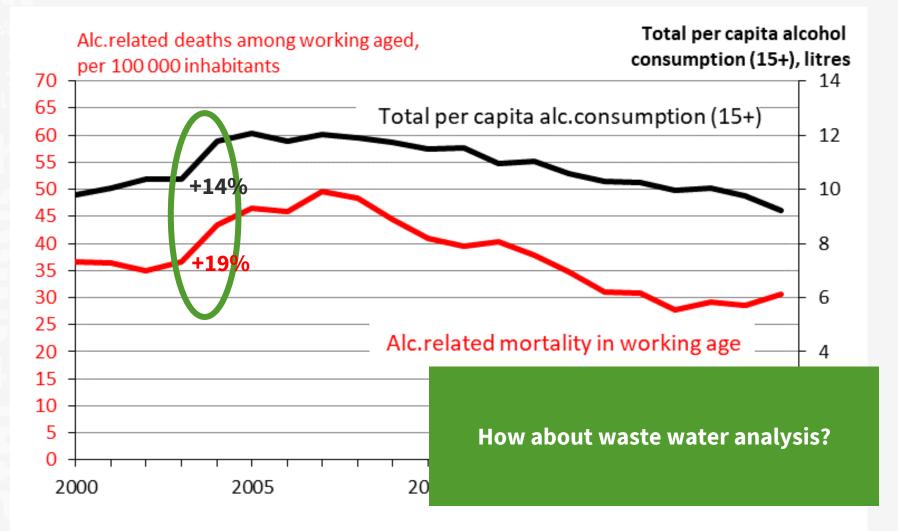
- sales data
- mortality and hospitalization data
- "Big data", e.g. club card or sales receipt data
- Waste water analysis!

#### Other types of designs

- qualitative study on an under-represented population (e.g. young urban men)
- experimental studies



### Monitoring of policy impacts: surveys (no change) vs. statistics, Finland 2004





### Triangulation/validation or alternative data sources: when needed or useful? (examples)

- Estimating the level of a key parameter (e.g. number of heavy drinkers or volume of drinking)
  - E.g. estimates of global burden of alcohol (per capita consumption)
  - From drug research: capture recapture methods?
- Specific research questions (rather than monitoring and prevalence)
  - new technologies, sensors



## Triangulation/validation or alternative data sources: challenges?

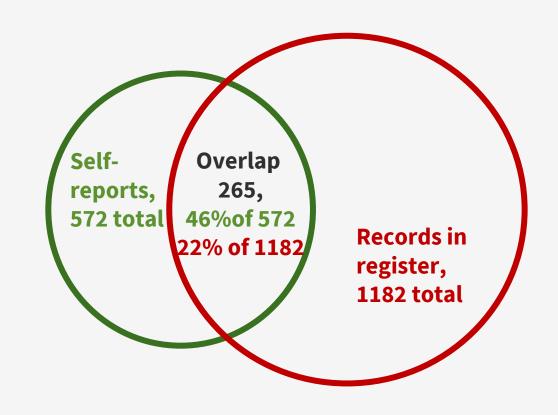
- Statistics/register data not necessarily available for relevant divisions like socioeconomic status
  - or gives a different picture: alcohol harm paradox
- Long delays to get statistics / register data
- Mortality /registered hospitalizations a narrow extract from all harms, and not a good proxy of amounts drunk/drinking patterns
- Hospitalizations: treatment systems and practices vary even within countries and over time



# Comparison of the prevalence of treatment for alcohol problems in two data sources (Finland, same individuals):

- as reported in a survey (12 months)
- as seen in health care registers (response year + preceding year)

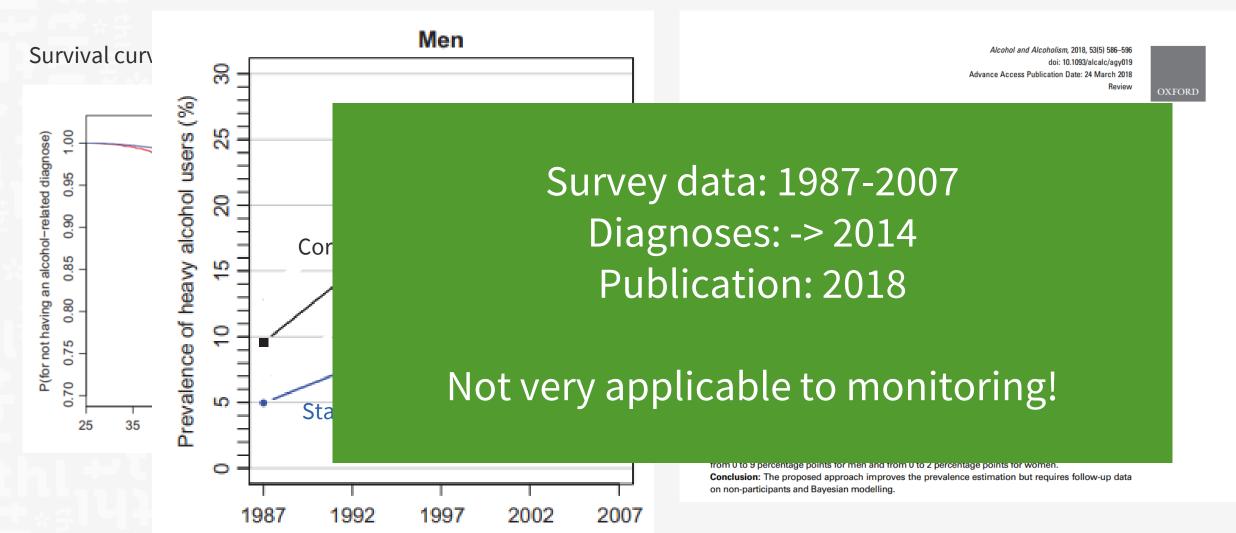
No golden standard!



Mäkelä P, Rautiainen E, Partanen A, Kuussaari K (2021) NAD 38(2)125-140.



# Using register data to correct prevalence estimates? (% heavy drinkers)





#### **Conclusions?**

- Hard to find a replacement for surveys to find out how population's drinking patterns change
- No easy solutions available (yet?) to replace surveys, and many solutions cannot be used in monitoring efforts in practice

