

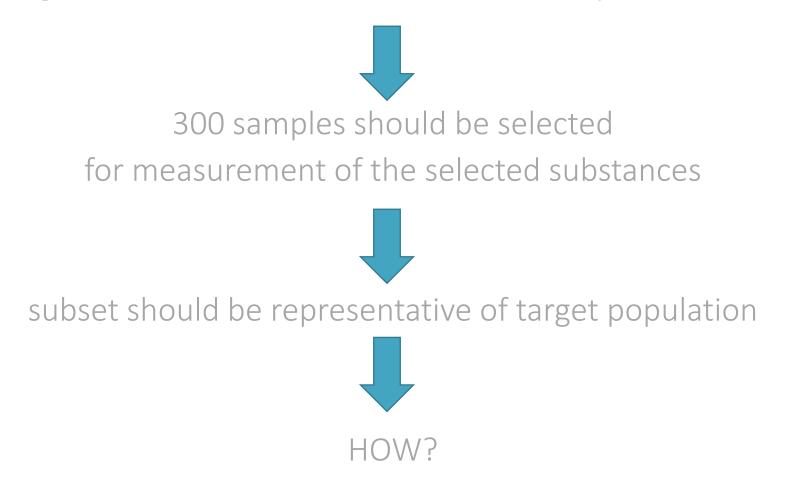
HBM4EU project

science and policy for a healthy future

Selecting a representative subset of samples Eva Govarts - VITO 2nd HBM4EU Training School 2018



Aligned studies: some data collections sample size > 300



Apply exclusion criteria:

- Occupationally exposed?
- Living in the same catching area < 5 years

Stratification by relevant variables

Random selection

Which variables are important?

- Sex of the participant
 - \rightarrow equal number of males-females
- Age of the participant

 \rightarrow age groups are already defined

• Educational level of the (household/mother of) the participant

 \rightarrow at least 10% of each category of education (low-medium-high education based on ISCED)

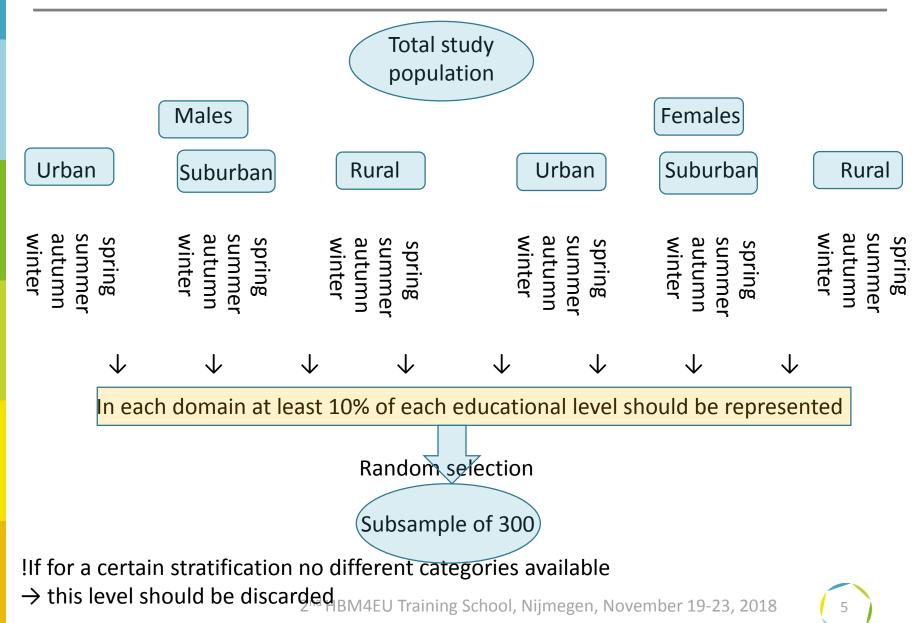
• Level of urbanization

→ proportionate distribution from urban, suburban, rural area? For country? For data collection?

Seasonal variation

 \rightarrow samples spread over all seasons (if available)

Stratification scheme



→ method for selecting survey participants that is a non-probabilistic version of stratified sampling

- 1. Study population is first segmented into mutually exclusive subgroups (~stratified sampling)
- 2. Subjects are selected based on a specified proportion (non-probability sampling)

Steps to follow:

- 1. Divide the sample population into subgroups
- 2. Figure out the weightages of the subgroups
- 3. Select an appropriate sample size
- 4. Survey while adhering to the subgroup population proportions

These steps should be automatically programmed! Support by statistical working group!

Thank you for your attention

Any questions?



2nd HBM4EU Training School, Nijmegen, November 19-23, 2018



Contacts VITO HBM4EU data management team:

Sylvie.Remy@vito.be Eva.Govarts@vito.be Liese.Gilles@vito.be Greet.Schoeters@vito.be HBM4EU.datamanagement@vito.be

HBM4EU@vito.be

Speaker's information

Eva Govarts works as researcher – biostatistician at the Flemish Institute for Technological Research (VITO), Mol, Belgium. She received training in biomedical sciences, applied and biostatistics. In HBM4EU she is task leader of task 10.4 on the data analysis and generation of European reference values (RVs) and together with Greet Schoeters she is co-leading WP10.



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 733032.