

PERMANENT SAMPLE OF SOCIALLY INSURED PERSONS

Echantillon Permanent(e) Steekproef EPS (AR/KB 09/05/2007)



Version: 2010 - R6

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INTRODUCTION

The permanent sample (EPS) is an instrument designed by IMA-AIM and the governmental partners to study and monitor health care consumption and expenditure in Belgium.

PARTNERS

IMA-AIM RIZIV-INAMI KCE FPB-BFP FODSZ-SPFSS FODVG-SPFSP WIV-ISP

DATA COLLECTION

data are routinely

reimbursement invoice

collected by the seven

Belgian Health Insurance

All health care

The EPS managing committee consists of Partners and Privacy Protection Commission representatives.

EPS data collection, data management, maintenance and control, flag derivation... are performed by IMA-AIM.

EPS IN NUMBERS sample (S) + oversample (OS)

- Individuals: ca. 275.000 (S) ca. 50.000 (OS)
- Data collection years: 2002 2010 (feb 2012)
- Records: 30 to 40 million records per year
- Variables/flags: 72 Health care / 56
 Pharmacologic / 67 Socio-demographic
- Data volume: 7 GB incoming data and 9 GB flag data per year
- Covers: € 650.000.000 of the 2010 health care budget

IMA – AIM

- Joint venture of the 7 Health Insurance Organizations
- Founded in 2002
- Expertise in health insurance data
- Expertise in data analyses
- About 20 projects a year
- Partner for projects of KCE, INAMI-RIZIV, cancer registry and other governmental organizations, universities ...

SAMPLING

Creation of a list of all theoretically possible Social Security Numbers in Belgium from 1890-2018.

Stratified sampling by gender and month/year of birth

1/40 : one in forty random sample

VIEW 1

VIEW 2

VIEW X

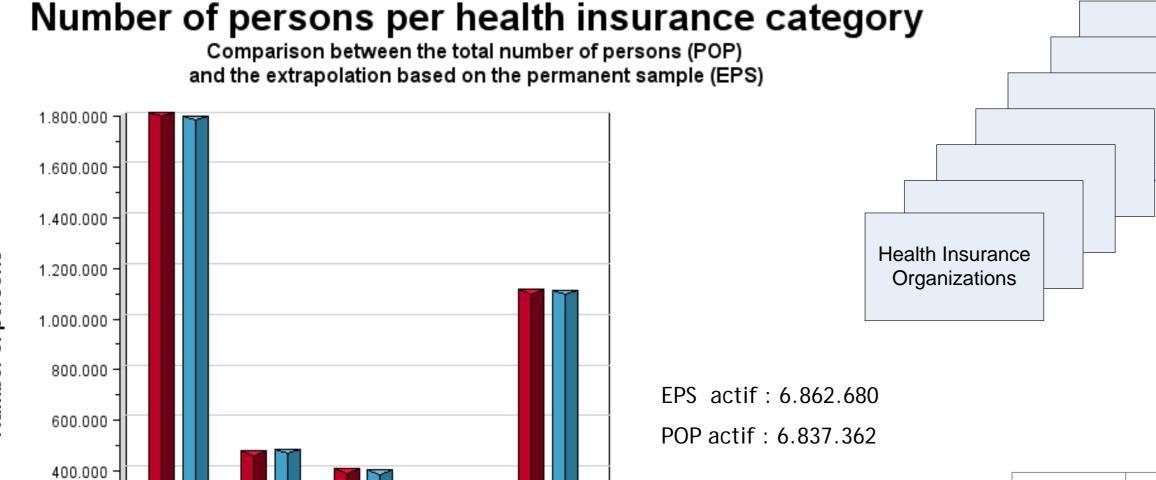
1/20 : oversampling > 65 years old population

Actual EPS population obtained by extracting the ID's of the theoretical list sample from the seven Health Insurance Organizations member populations.

Organizations through the management of their member's health insurance. The Social Security Number is hashed before sending (C1) and again by a TTP (C2).

ADVANTAGES

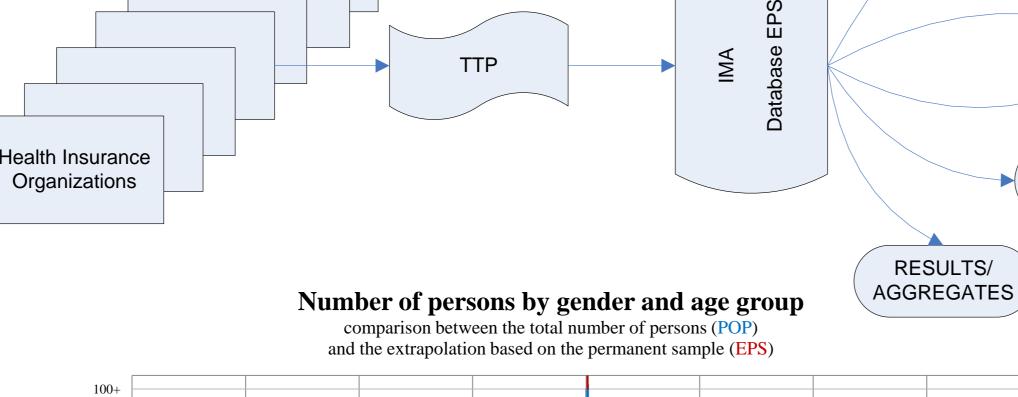
- Natural inflow of newborns / immigrants
- Natural outflow of deceased /emigrants
- Information on individual level
- Permanent availability on line
- Representativeness
- Manageable size
- High level of detail
- Longitudinal design: 10 years follow up

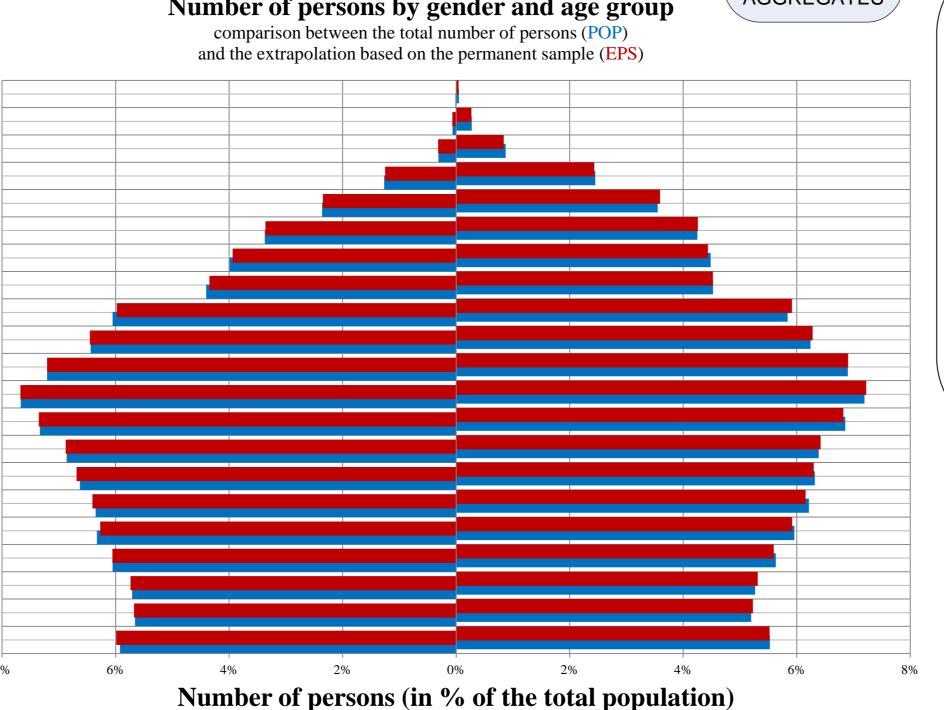


Health

insurance

category





DATA ATTRIBUTES

EPS contains data on:

- Specific reimbursement codes by procedure, service, admission, drug delivery, etc... incl. date, provider, institution, cost ...
- Socio-demographic patient characteristics: age, gender, social status...

Number of inhabitants per province

2002 2003 2008 2009 No. No. No. No. No. individuals individuals individuals individuals individuals 84.9 Sample 258.413 261.096 84.9 269.592 85.0 271.880 84.9 274.179 84.8 46.577 15.1 15.2 45.887 *15.1* 47.750 15.0 48.392 *15.1* 48.987 Oversampling 100.0 100.0 100.0 100.0 304.300 100.0 307.673 317.342 320.272 323.166

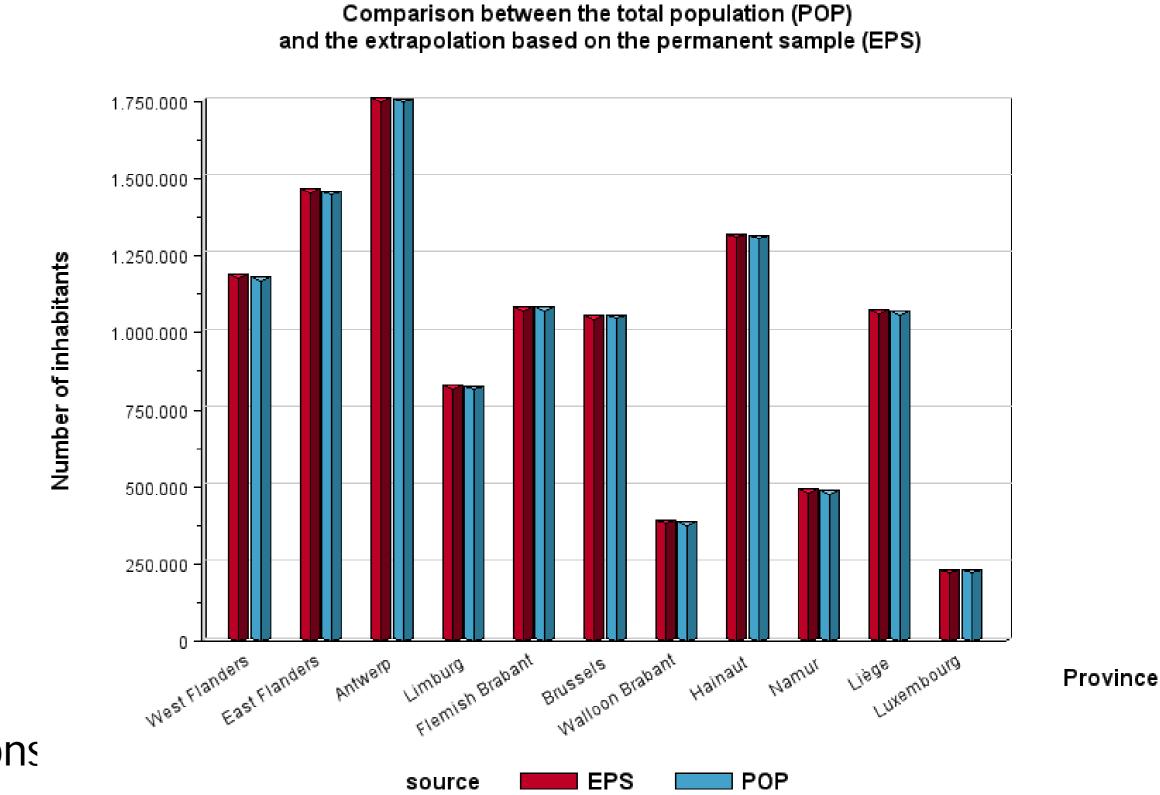
70-74

25-29

20-24

15-19

10-14



ACCESS TO EPS

LIMITATIONS

Representativeness is borderline or

insufficient for rare medical events.

Access to EPS is strictly regulated and limited to dedicated persons in each of the partner organisations

Third parties, such as university researchers, regional authorities, the cancer registry, etc. can request access to selected EPS data to answer specific research questions through a formalized request process. Fees for data extraction and analysis are charged.

CONCLUSION

In the near future, EPS is likely to become an essential instrument helping public health authorities and stakeholders making better-informed decisions.

Are you interested in using EPS for your research? Ask for request procedures: eps@intermut.be.

The authors acknowledge the partners and the privacy commission.













