Evaluation of developments in health care

Online surveys by a health insurance fund

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Faculty Disclosure

nothing to disclose



Online surveys by a health insurance fund

- 1. Health insurance fund & research: why?
- 2. Research methods
 - A. Exploitation data (DWH)
 - **B.** Surveys
- 3. Classical surveys on paper
- 4. Digital (r)evolution
- 5. Recommendations



1. Health insurance fund & research: why?

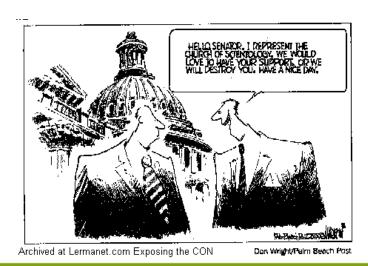
 Health insurance fund: « Associations of physical persons who promote the physical, psychological and social wellbeing of their members in a spirit of providence, mutual assistance and solidarity »

• more then only a payer = also a player



1. Health insurance fund & research: why?

- Mapping needs/gaps in health care system = need of solid data = 'evidence based'
- Formulate recommendations for improvement to the government but also to the insurance medicine
- Influence health policy







Jp uw gezondheid.

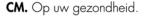
2.A.Research: Exploitation data (DWH)

- Health insurance fund has mass of data
 - Administrative data: age, increased compensation statute (indication of low income), benefits that one receives, ...
 - Reimbursement data: GP consultations, specialists, dentists, medicine use, hospitalizations, ...
- Christian Mutuality: health insurance fund (= data of million members) or IMA (Belgian population)



- No diagnoses
- Administrative data → corrections, input mistakes
- No out-of-pocket cost for members for ambulant care

Not all relevant information is available in data warehouses



2.B. research: Surveys

- Need for information directly from the members:
 - gain insight into non-refundable medical/social costs
 - mapping health behaviours (diet, exercise, coping with emotions, ...)
 - PROM (patient related outcome measurement) and PREM (experience)
 - perception/views on healthcare system ...
 - quality of life/services (chronically ill, care at end of life, ...)
- Information from our members:
 - Direct contact in the front office (members defence, social workers, counsellors, ...), signals from the organizations (Ziekenzorg, Altéo)
 - Surveys: In the past: send out a written questionnaire by regular mail
 - Focus groups

3. Classical surveys on paper

✓ Example: Financial impact of the chronically ill in Belgium (2008): issues

- Duration and cost:
 - Manual input of 5,748 questionnaires: duration = 6 months!
 - Cost of research > 80,000 euro (printing questionnaires, covering letter, postage costs and return costs, outsourcing manual input)
- Only possible every three years, due to large investment in time and money

- Changing context
 - IT opens up possibilities (e.g. mass mailings, online questionnaires, ...)
 - Citizens become more 'empowered', partner in health care
 - The press is always looking for the "vox populi" & figures
- Surveys with thousands of respondents become a major source of information





- ✓ Recent example 1:
 - (2013) Survey on the satisfaction with health care providers:
 - Online questionnaire sent by mail (in mail link to the questionnaire)
 - Sample: 200,000 people, representative of the Belgian population
 - 23,660 responses, 12% response rate (only reminders to young adults)
 - Cost:
 - only cost for sending e-mails (200,000 x 0.012 euro = 2.400 euro)

✓ Recent example 2:



- (2013) Survey of 'out of pocket' paid to specialist:
 - Sample: all members who received a reimbursement for an (ambulant) visit to a specialist
 - between 09/2012 and 06/2013: 686,899 members
 - Online questionnaire sent by mail: short and simple
 - Available data already entered: patient name, name of specialist, date of visit, official fees, reimbursement CM, co-payment (as stated on reimbursement certificate)
 - Ask for amount paid at the doctor's
 - Demand for knowledge of convention status of specialist consulted
 - 160,000 responses 25% response rate (106,000 useful and unique individuals)

4. Digital (r)evolution Strengths of online research:

- User-friendly/fast tool
 - online survey: send link to respondents and automatic basis analysis of the results collected
 - paper survey: enter answers manually afterwards, can take months; alternative of scanning is not possible for every type of questionnaire
- Cheap way to send questionnaire
 - Cost savings for printing, postage and (manual) input of answers (at least several 10,000s of euro)
 - Only costs for sending e-mail





4. Digital (r)evolution Strengths of online research:

- Interim results can be consulted at any time
- Results from each respondent who starts the questionnaire, are monitored
 - Possible to identify drop-outs after certain questions / % that fully completes questionnaire
 - = evaluation of the intelligibility/difficulty of questionnaire (Paper surveys: no insight about drop-outs)
- Querying large numbers (10,000s) of respondents possible
 - statements regarding rarer phenomena (e.g. satisfaction with oncologist, cost of implants)
- Direct response/link to events from data files is easy (e.g. examination after reimbursement of consultation with a particular health provider)

Paper survey

- Response: 25 %
- Expensive
- Big time investment
- Post processing needed
- Limited number of surveys (1,000s)
- Postal address readily available



Online survey

- Response: 10 25 %
- Cheap
- Fast processing
- Surveys entered directly
- Large number of surveys possible (10,000s)
- More difficult to have access to e-mail addresses





4. Digital (r)evolution Weaknesses of online research:

- 1 million e-mail address known = 31% (<-> address: +/-100%)
 - research of specific target groups (e.g. the disabled): sometimes insufficient available e-mail addresses
- Bias: only people with e-mail address specific group?
 - 78% of households have internet access at home and 81% of individuals consult the internet (FPS Economy, barometer of the Information Society, 2013)
- Sometimes lower response rate: 10% instead of 25% via paper surveys (especially difficult to find young people) but globally more answers
 - →unless they are linked to a particular reimbursement (unregistered payments, dental care): 25% response rate
 - →Unless reminder mail

5. Recommendations

- Surveys to be coordinated internally to prevent "survey fatigue"
- Database with e-mail addresses should be constantly updated
- Sample composition and respondents (if necessary: reweighing) must be as representative as possible
- Especially those interested in the subject will respond: be careful with interpretations
- Try to increase response (of certain target groups) by sending email reminder, e.g. if no response after 1 week
- consider test research evt with alternative research methods (written, face-to-face, focus group) -











Thank you for your attention!



Questions?

Experiences?





