PUBLIC HEALTH BENEFITS OF INTEGRATED HEALTH INFORMATION SYSTEMS

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Methods

Study design and population

We constructed an open, real-time prospective observational cohort with national level coverage in Scotland using a unique dataset consisting of linked vaccination, primary care, laboratory testing, hospitalisation, and mortality data (see Figure 1 in Supplementary Material). Data were available for 5.4 million people in Scotland. [9] Primary care data derived from 940
Integrating health information systems in Belgium

Challenges
- Different sets of individual health data remain largely unconnected and unharmonized
- European requirements for data transfer
- Several successful linkage projects, but ad hoc

Opportunities
- Existence of a unique national register number
- Existence of technical platforms for data linkage and transfer
- Number of ambitious (technical) initiatives to harmonize and make data available
AHEAD project

Active push towards the development of a national health data platform

- Integrate currently scattered Belgian health information landscape
- Unravel legal, ethical and technical bottlenecks
- Prepare a roadmap for making health data accessible and harmonized
Integrating BE health information landscape

- Establish Belgian “national node” health information
  - focal point international data collection
  - + extend to other partners and stakeholders

- Document BE health information landscape
  - key data holders
  - health information and data linkages projects
  - tutorials on accessing health data

- Organize health information workshops
  - bring together key players
  - present new projects
  - discuss overarching issues
Unravelling legal, ethical and technical bottlenecks

- Case study: HIS+

Diagram showing Vital status, Socioeconomic status, Healthcare use, and Disease status over time from 2018 to 2038.
Unravelling legal, ethical and technical bottlenecks

• Ethical issues of advanced and longitudinal data linkages

• Citizen panel
  • share values, opinions and questions
  • formulate advice

• Collaboration with TEHDAS
Preparing a roadmap for making health data accessible and harmonized

• Synthesis of activities and insights
  • desk research
  • stakeholder interviews
  • HIS+ case study
  • citizen panel

• Practical roadmaps with possible scenarios and a clear framework

• Co-created in close collaboration with the key stakeholders
Contact

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