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PCSI – BLED SLOVENIA

HOSPITAL HEALTH DATA: TRANSFORMING THE COLLECTION AND TRANSMISSION SYSTEM

How do hospital physicians evaluate the data collection and coding load?

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You have questions ? Mail us at:
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Background

Why launch a questionnaire evaluating the time spent on data production?

French DRG-based information system (PMSI)*
- ICD-10 codes
- Procedures codes
- Drugs & medical devices

- **In 2024 : 104 datasets**
- Between 2011 and 2021 :
  - **+22% hospitalization recordings**
  - **+29 new datasets** ≈ 190 variables

Other data
- Quality data
- Hospital's management
- Register
- Research

- **More than 100 datasets**

Dataset on *Chronic renal disease*

- Enables to assess whether hospital pathways comply with recommendations
- Enables funding to be adjusted
- Very difficult to produce

How much time do physicians spend each week to help produce these datasets?

**PMSI : Program for the Medicalization of Information Systems*

Method

Process

- Online questionnaire from **6th December 2022** to **24th March 2023**
- Distributed to medical information's head in hospitals with medical, surgical and obstetric facilities, for transmission to clinical departments (volunteers)

Content (3 parts)

1. **Standard identifying variables** (hospital's ID number, department speciality, etc.)
2. **Organizational process** for collecting ICD-10 codes: professional or non-professional
   - ***Professional****: no participation of physicians in the diagnosis coding process, which is made by professional coders*
   - ***Non-professional****: physicians participate in the code selection and/or code priorization*
3. **Average weekly time per physician** required to produce different types of data

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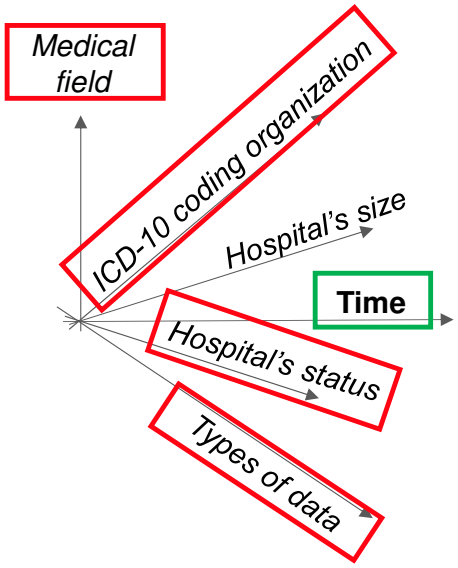
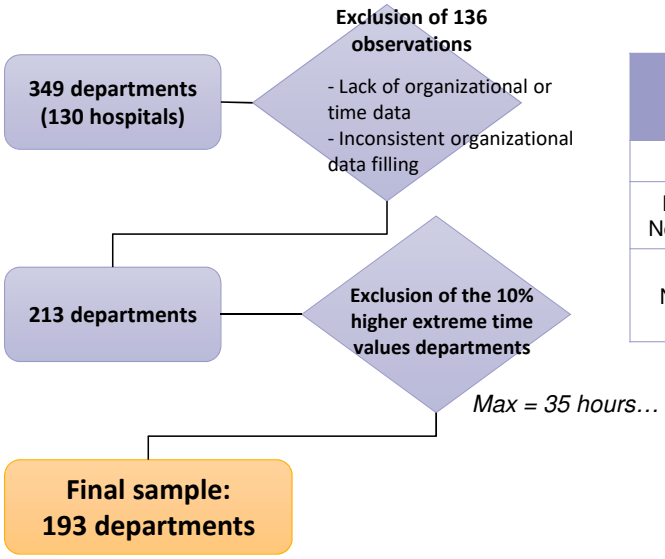
Analytical dimensions



Due to a lack of data, we could only analyze four dimensions

Sampling

Sample selection



Distribution

Medical field	Medicine		Surgery		Critical care / Anesthesia	Emergency departments
Total (193)	**93**		**65**		**28**	**7**
Private hospitals (33) / Non-profit hospitals (125)		85	25	40		
Professional (93) / Non-professionnal (65) ICD-10 coding	46 *50%*	47 *50%*	47 *72%*	18 *28%*		

Legend

Professional ICD-10 coding (volume)	*Volume % of total*	*Lack of observation*

Due to Student's t-distribution, the statistical analysis of time focuses on median comparisons

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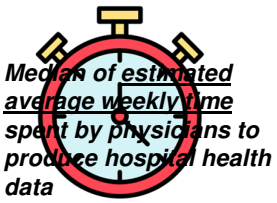
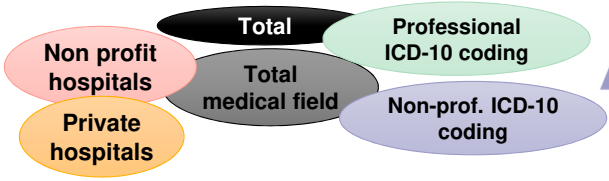
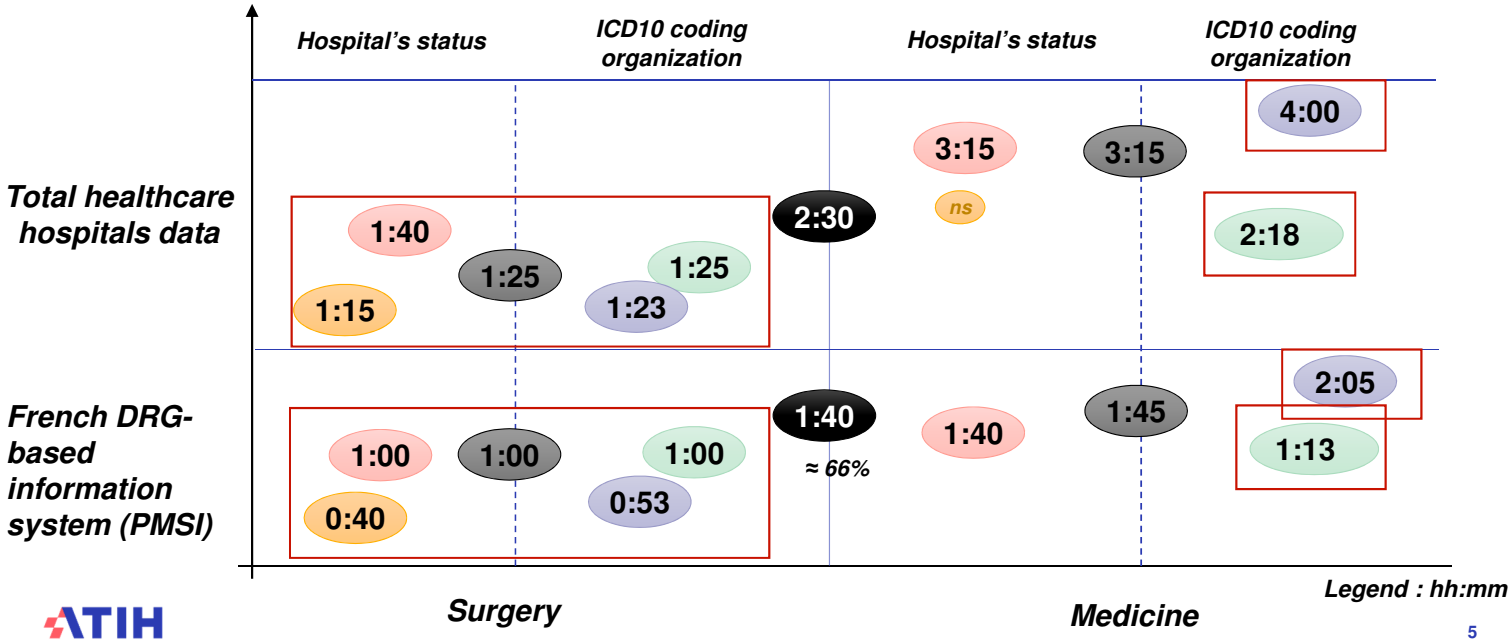
Results

Median analysis



Median of estimated average weekly time spent by physicians to produce hospital health data





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Discussion

Main observations

- Greater dispersion of overall time for non-profit hospitals than for-profit ones.
- An overall 2.5 hours median, with a greater burden in medicine than in surgery.
- Coding professionalization might help reducing the amount of time spent by physicians to produce hospital health data

Limits

- Low volume of observations
- Physicians individual factors not taken into account
- Collection bias

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