



**Smarter Health Care** National Research Programme

**Epidemiology, Biostatistics and Prevention Institute** 

# How do guidelines and recommendations influence medical treatment?

#### Agnė Ulytė

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## How do we know what is happening in health care system?

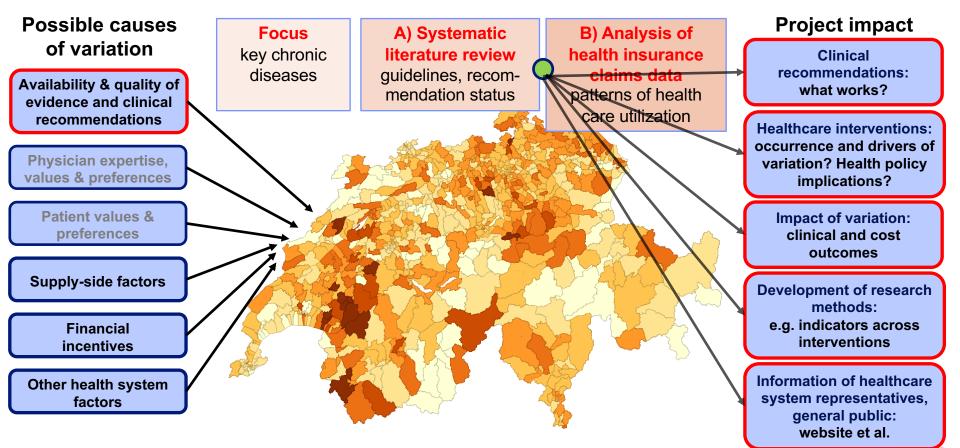






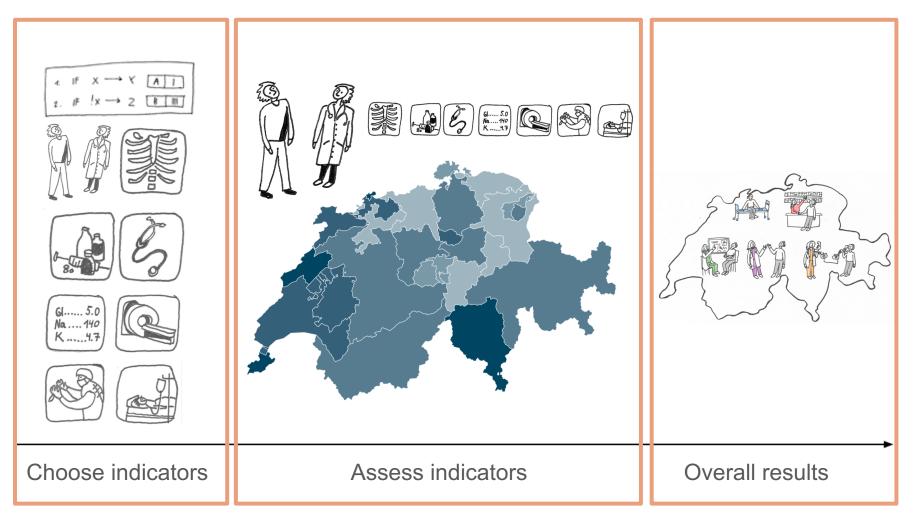
#### Geographic variation in the utilization of health care interventions: what is the role of recommendations and other influences?

Matthias Schwenkglenks, Viktor von Wyl, Holger Dressel, Oliver Reich, Eva Blozik, Beat Brüngger, Caroline Bähler, Klazien Matter-Walstra, Oliver Gruebner, Wenjia Wei, Agne Ulyte



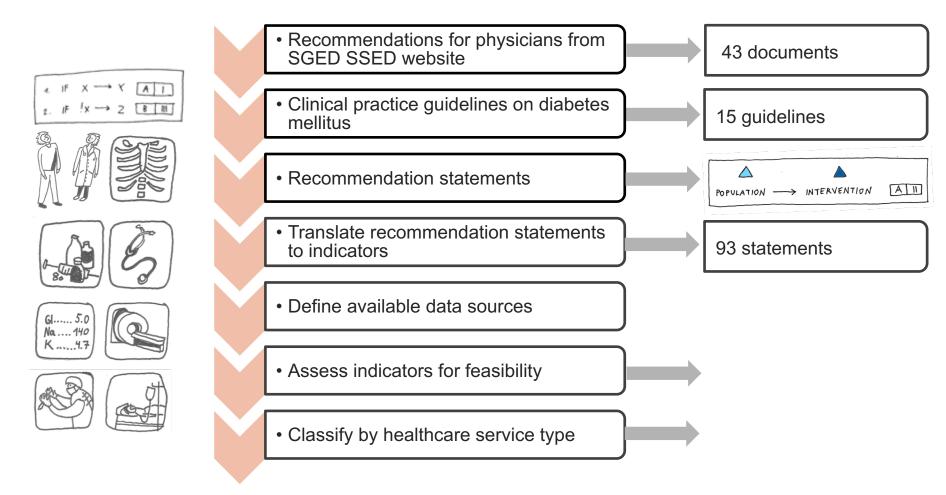


#### **Project overview**



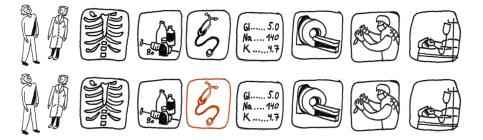


#### 1. Choose what to study – case of diabetes





#### 1. Choose what to study: results



93 potential indicators

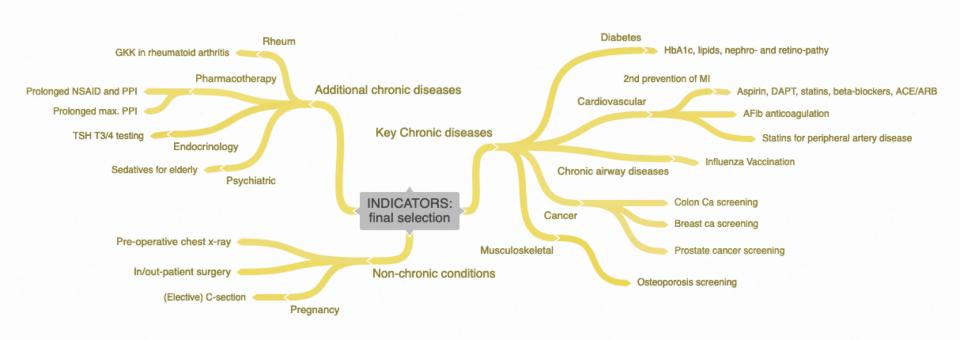
9 (10%) feasible for research Services represented unequally.

Disease stage	Service type	N of indicators	N of feasible
		93	9 (10%)
Screening	Screening	3	2
Risk factor	Screening, prevention	6	0
Disease 🧲	Screening	1	0
	Diagnosis	2	0
	Control	11	5
	Treatment	65	1
	Secondary prevention	5	0



**Assess indicators** 

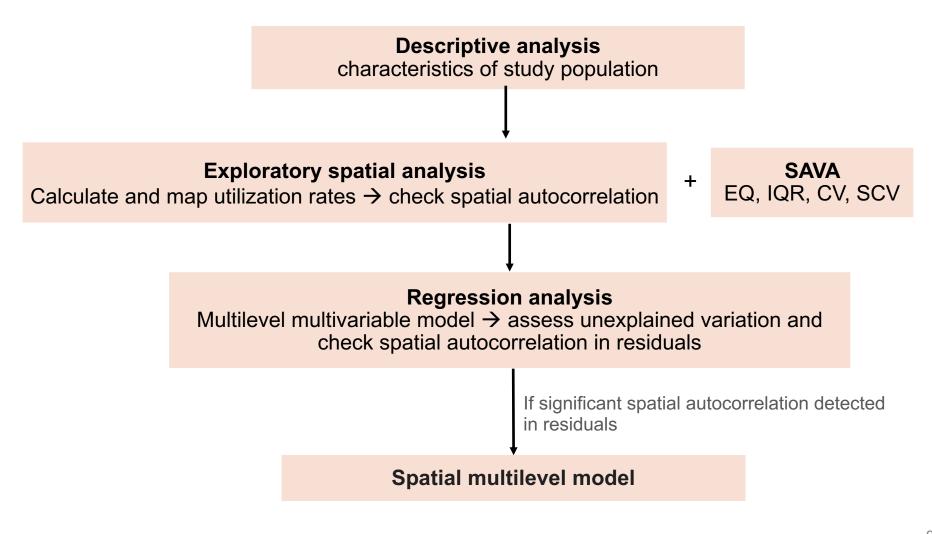
#### **1. All indicators**





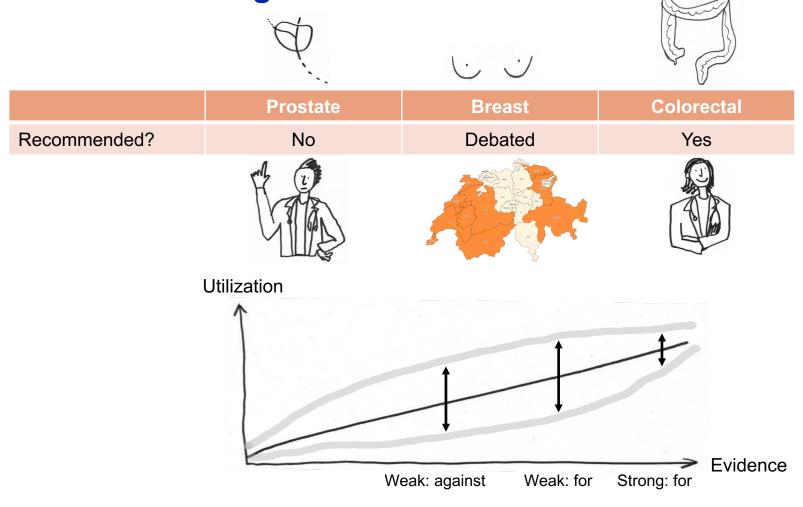
Assess indicators

### 2. Investigating variation – analysis approach





## 2. Case study – prostate, breast and colorectal cancer screening





Assess indicators

**Overall results** 

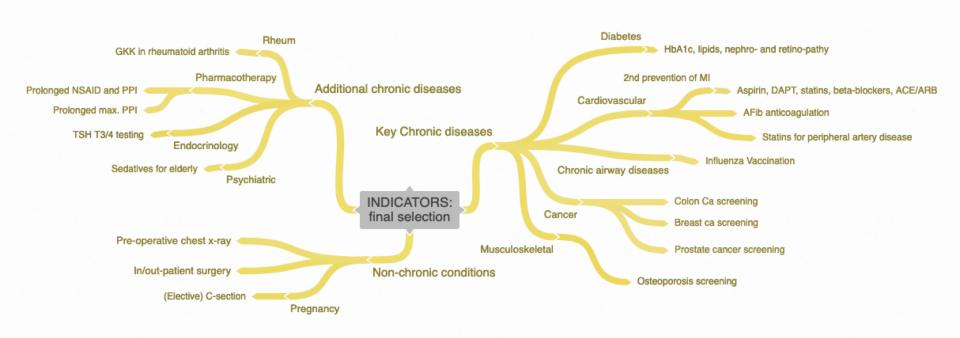
#### 2. Case study: results



Assess indicators

**Overall results** 

#### 3. All indicators





**Assess indicators** 

**Overall results** 

### 3. All indicators: Variation



Assess indicators

**Overall results** 

### 3. All indicators: Deductible



Assess indicators

**Overall results** 

## 3. All indicators: Supplementary hosp. insurance



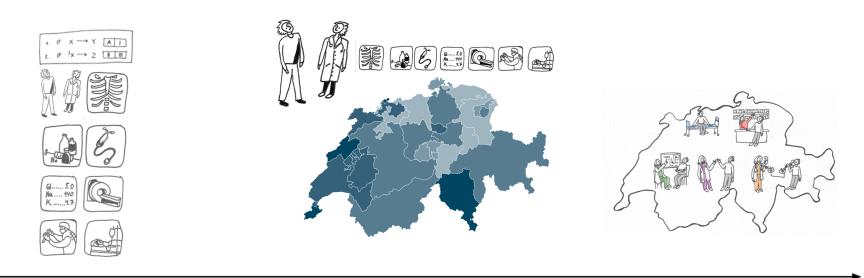
Assess indicators

**Overall results** 

### 3. All indicators: Managed care plan



#### What have we learned?



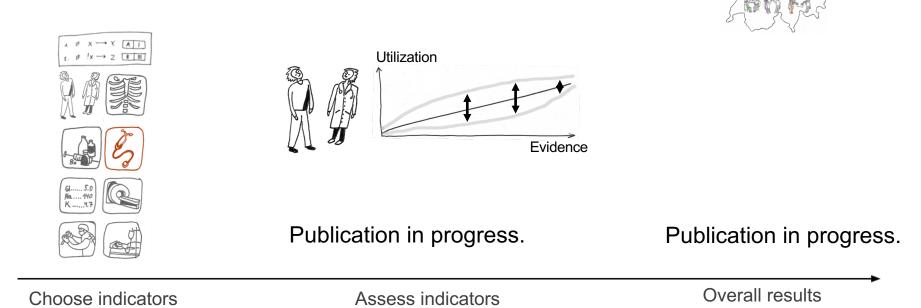
Choose indicators

Assess indicators

**Overall results** 



#### What have we learned?



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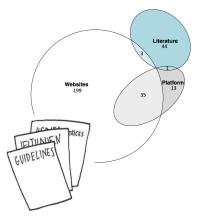


#### What else is there in the project?

Swiss guidelines review

Financial outcomes of guideline adherence

Publication in progress.



Diabetes complications screening

Publication in progress.

Health outcomes evaluation with claims data

Publication in progress.

#### Preoperative chest X-ray







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