



# Un atlas pour améliorer la qualité des soins?

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SPH Conference 2024 à Fribourg, 4 septembre 2024

# Focus: Variability of (lucrative, preference-sensitive) procedures Most of our care is 'Gray-zone Medicine'



e.g. accidents





JAMA I Special Communication

Waste in the US Health Care System

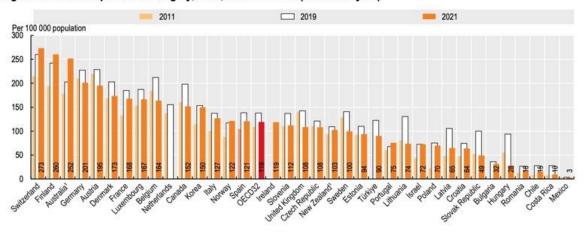
Estimated Costs and Potential for Savings

25%

William H. Shrank, MD, MSHS; Teresa L. Rogstad, MPH; Natasha Parekh, MD, MS

## Variability across countries – *Knee replacements*

Figure 5.28. Knee replacement surgery, 2011, 2019 and 2021 (or nearest year)

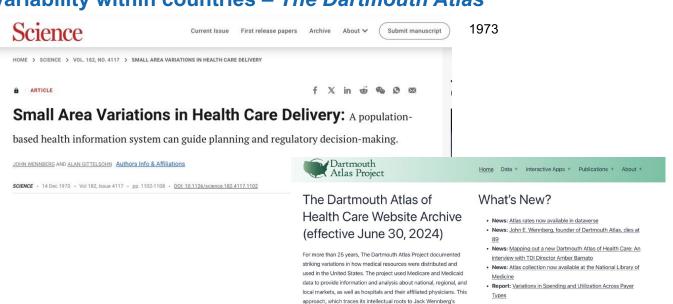


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Latest available data from 2020.
 Source: OECD Health Statistics 2023.



#### Variability within countries - The Dartmouth Atlas

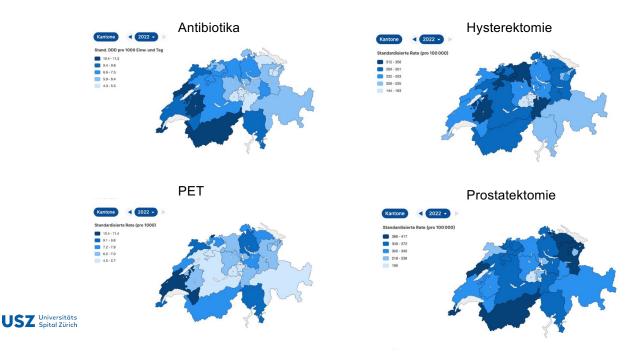


original 1973 Science article, established the field of small area

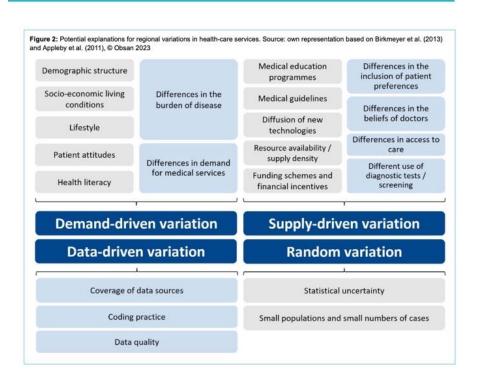
variations health services research.

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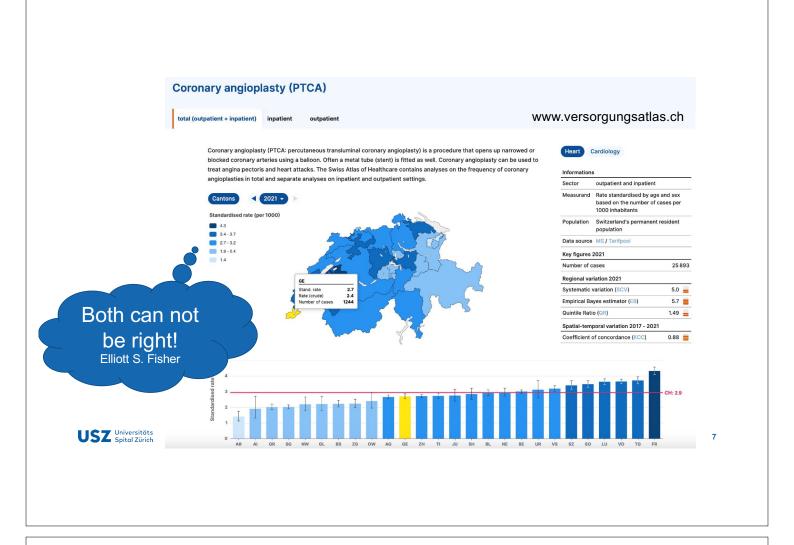
## Variability within countries – Der Versorgungsatlas (obsan)



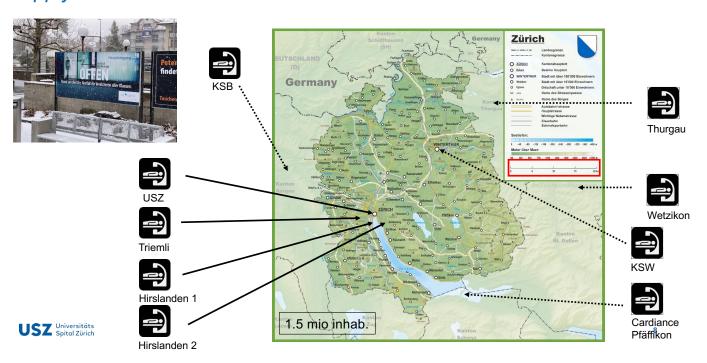
Swiss Med Wkly. 2023;153:3440



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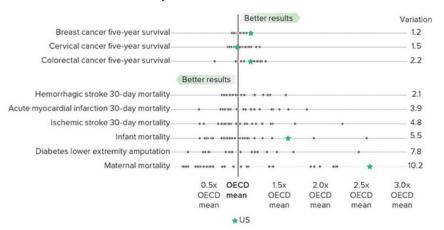


## Supply-driven demand?



#### Additional variables? Variability of outcomes

FIGURE 1.4 Health outcomes can vary as much as tenfold across countries.



The chart plots the degree of outcomes variation across selected OECD countries for nine common health conditions. In many, US outcomes lag the OECD mean—in the case of maternal mortality, by more than two-and-a-half times.

 $Note: AMI\ stands\ for\ acute\ myocardial\ infarction.\ Most\ recent\ data\ are\ from\ 2016\ to\ 2019\ (infant\ and\ maternal\ mortality),\ 2015\ to\ 2017\ (AMI,\ stroke,\ and\ diabetes),\ and\ 2010\ to\ 2014\ (cancer\ survival).\ Not\ all\ metrics\ reported\ by\ United\ States.$ 

Source: OECD.

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Stefan Larsson, Patient priority (McGrawHill 2022)

#### Additional variables? Variability of practice

JAMA Health Forum.

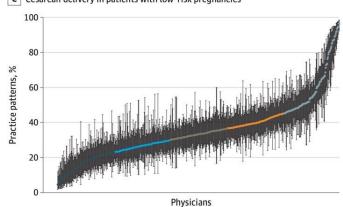
JAMA Health Forum. 2022;3(1):e214698. doi:10.1001/jamahealthforum.2021.4698

Original Investigation

# Physician Practice Pattern Variations in Common Clinical Scenarios Within 5 US Metropolitan Areas

Zirui Song, MD, PhD; Sneha Kannan, MD; Robert J. Gambrel, MS; MA; Molly Marino, PhD, MPH; Muthiah Vaduganathan, MD, MPH; Mark A. Clapp, MD, MPH; Jacqueline A. Seiglie, MD; Patricia P. Bloom, MD; Athar N. Malik, MD, PhD; Matthew J. Resnick, MD, MPH

C Cesarean delivery in patients with low-risk pregnancies

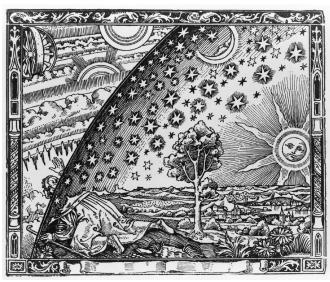




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It is difficult to get a man to understand something, when his salary depends on him not understanding it.

> Upton Sinclair (1878 – 1968)



Flammarion, Paris 1888



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