Data availability and analytical capacity: enhancing information at meaningful levels of analysis

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WHY A ML / MS APPROACH IS NEEDED?

Proportion of in-patient mortality within 30 days after AMI admission in 2009 (ECHI Indicator)

In-hospital mortality after AMI admission at English hospitals, 2009

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Standardised coronary artery bypass grafting utilisation rate per 10,000 inhabitants in Denmark 2009 by Health Regions

REGIONAL LEVEL IS NOT ENOUGH

Standardised coronary artery bypass grafting utilisation rate per 10,000 inhabitants in Denmark 2009 by Kommuners

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A DEEPER LOOK MAY BE ALSO NEEDED

Ischaemic Heart Disease Mortality in OECD countries 2013.

Ischaemic Heart Disease Mortality in Barcelona over the period 2000-2008 (INEQcities).

CHALLENGES THAT WE HAVE TO ADDRESS

- Lack of data disaggregated at the units of interest
- Lack of interest in the secondary use of routinely collected data
- Limited access to data, in particular to individual data
- Limits to the reporting at smaller units
- Methodological gaps on how to adequately the research design to a MS/ML approach, how to manage data from many sources, and how to conduct relevant analyses
- Lack of logistic capacity to manage and analyse big amounts of data