# Statistical analysis for public health and policy making

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#### The big picture

WHO Health Systems Performance

OECD Health Care Quality Indicators Project

DG-SANCO Public Health Portal

#### Gold standards

AHRQ Quality of Care Indicators

http://www.qualityindicators.ahrq.gov/

applying the Quality Indicators to their own data.



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#### Regione Umbria

DVSS Project

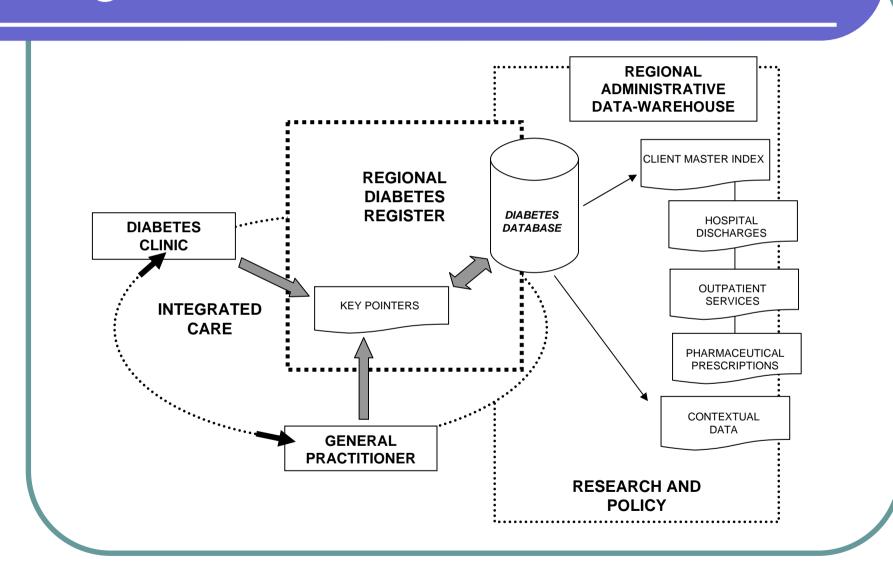
http://www.umbriasalute.org/

"Document for the eValuation of health determinants and regional health System Strategies"

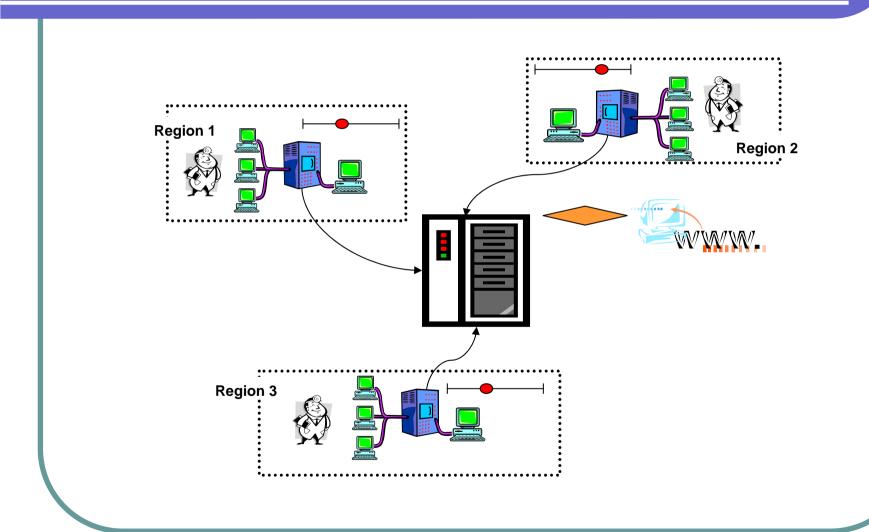
#### Health outcomes

- Diabetes
  - Multifactorial determinants
  - Multilevel strategies
    - Acute care
    - Community care
    - Self-care
    - Prevention
  - Data Source? Bits everywhere!

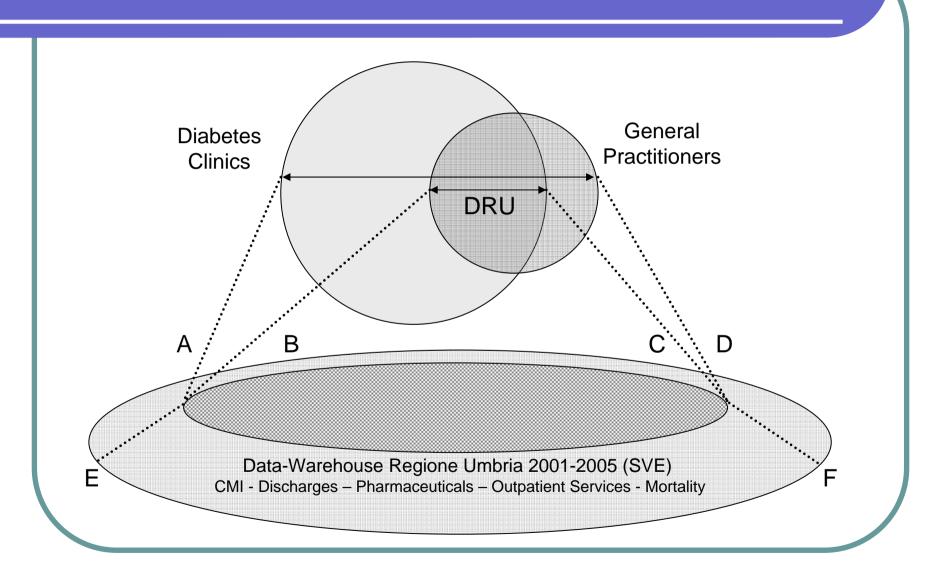
#### Regional Data-Warehouse



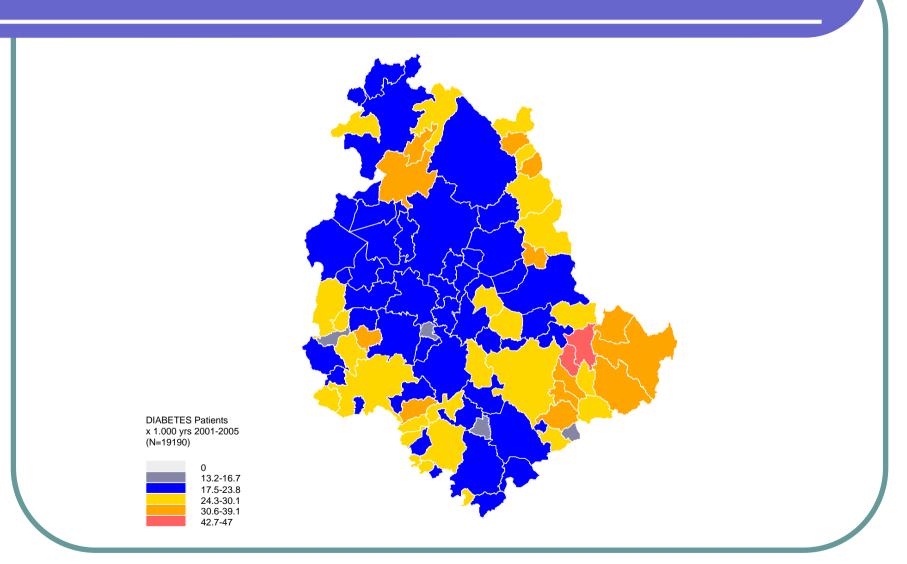
## Distributed Analysis



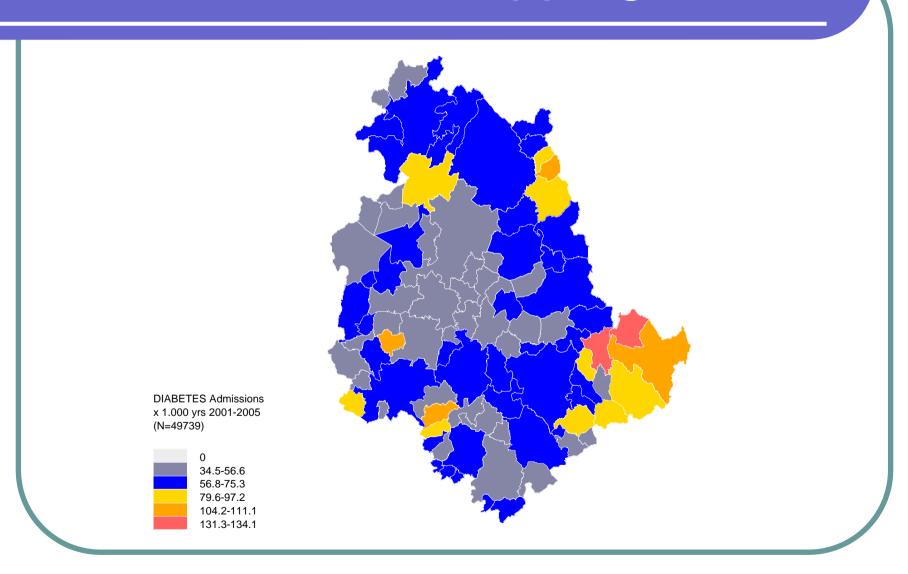
## Diabetes landing



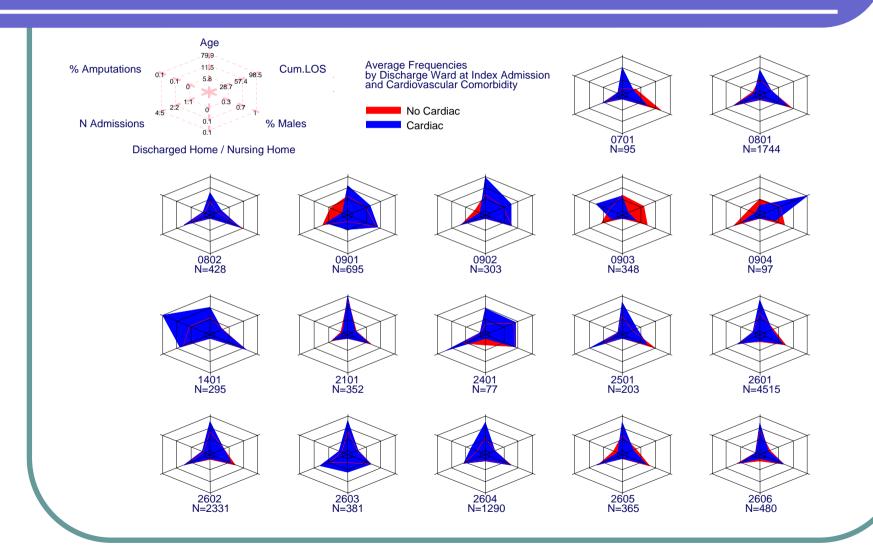
# Population-based Mapping



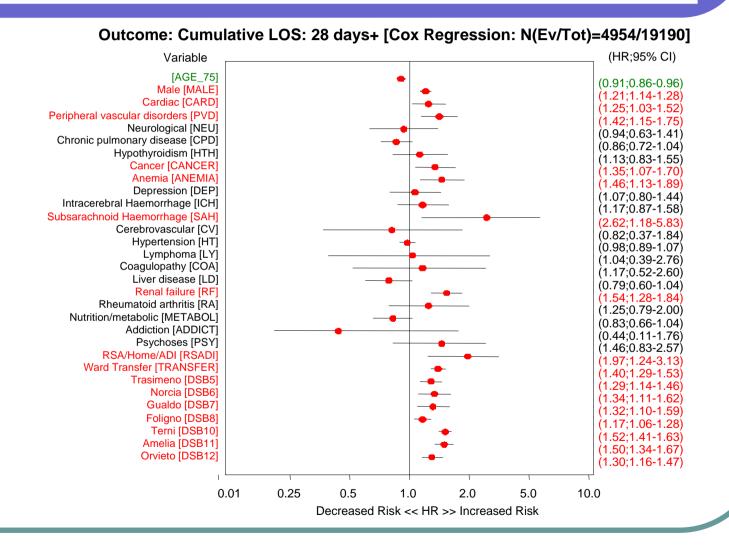
# Service-oriented mapping



#### Service Detail



#### Modeling Service



## Modeling Health Outcomes

