Classification Algorithms in Global Mortality

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Background

- In most developing countries, people do not have regular access to a physician

- A good portion of deaths occur outside of a hospital

➢ It is hard to determine actual cause of death (important for disease tracking, policymaking, etc…)

Background

- To address this problem, the "verbal autopsy" is used:
    - Interview family & friends of the deceased
    - Administer a standard questionnaire + record a narrative
    - Submit to physician committee for classification

Challenges & collaboration

- Can we classify verbal autopsies automatically & reproduce physicians' work? (saves time & $$$)

- What data should be collected? (e.g., dimensionality reduction)

- Looking for collaboration with DM/ML & Bayesian stats researchers

Thanks!

- http://www.biomedcentral.com/1741-7015/12/20

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THANK YOU VERY MUCH!