Assessing the impact of social policies on health in Brazil: CIDACS and the 100 million Brazilians cohort

Laura Rodrigues IDE  Big Data Workshop LSHTM March 2017
Good time to investigate the role of social inequalities and the impact of social and economic policies and interventions on health in Brazil
INFECTIOUS DISEASES NOTIFICATIONS

BENEFITS RECEIVED

.Linked datasets

FROM 2007 TO 2015 updating ….

To come:

Hospital episodes, growth monitoring, GPs, registries, educational performance

CADU

114 000 000 INDIVIDUALS

BIRTHS

DEATHS
ONGOING PROJECTS

1. Core funding - Biomedical resources – **Welcome Trust**

2. A collaboration between Brazil and the United Kingdom on *e-health* to establish a virtual cohort of 100 million Brazilians (Funder: MRC-FAPESB Newton Fund)

3. Evaluating the impact of social factors and interventions on *healthy growth and development*: the 100 million Brazilians cohort (Funders: MoH-CNPq-Gates)

4. Evaluation of effect of social determinants and of impact of social programs on incidence, frequency of disability and treatment outcomes of leprosy in the 100 million Brazilians cohort. (Funder: MRC_CONFAP Newton Fund)

5. Impact of a conditional cash transfer programme on HIV/AIDS and Tuberculosis and forecast of its differential effectiveness (Funder: **Wellcome Trust – UK**)

6. Studies and evaluations of social assistance programs and policies developed by the MDS. (Funder: **MDS**)

7. Impact of a conditional cash transfer programme on Leprosy. (Funder: MRC-FAP-DF)

8. Effect of Zika vírus infection on children and adults (Funder: MoH-Brazil)

Several ongoing PHD projects (ITS/computational, Statistical, Epidemiological)
Challenges

Negotiating access to data
Ethical approval
Guaranteeing safety of data

Cleaning big data
Linkage – algorithm
Validation
Data provision to outsider

Process
Governance
Ethics
Costs
Access

Statistical analysis of impact of policies
- RDD
- Propensity score
- Difference on difference

Dynamic
Social variables
Benefits
Family composition

Study different periods /subgroups
Bunching
Context
Thank you
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