# Making Policy with Data

An Introductory Course on Policy Evaluation

# **Policy Briefing**

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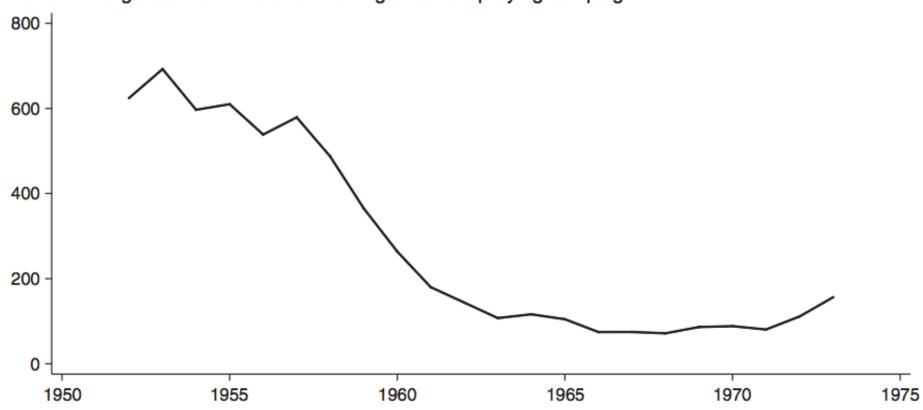
## Background

- Malaria has afflicted mankind, esp. children, for centuries
- A big question: Does Malaria hold back economic growth?
- A narrower question: Does Malaria affect labor productivity?

- Difficult to answer. Why?
- Many things are correlated with failure to eradicate malaria
- Bleakley (2010) studies the effect of malaria eradication on income

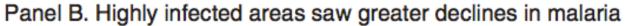
#### Malaria Eradication in the Americas

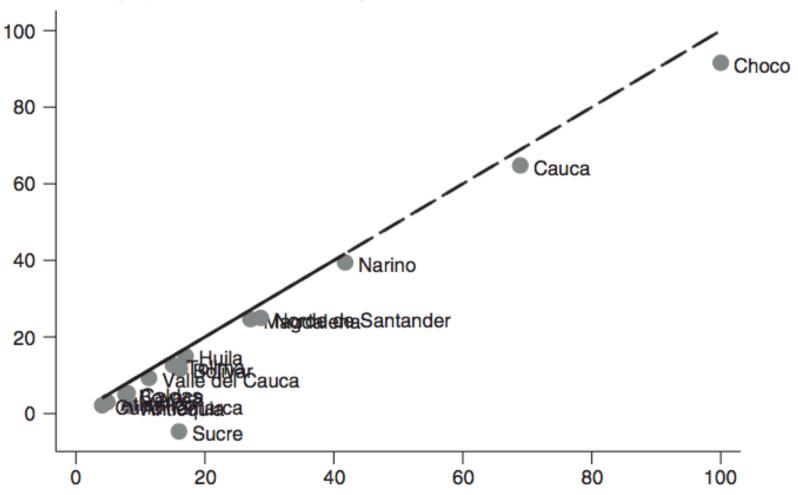
Panel A. Large decline in malaria following onset of spraying campaign



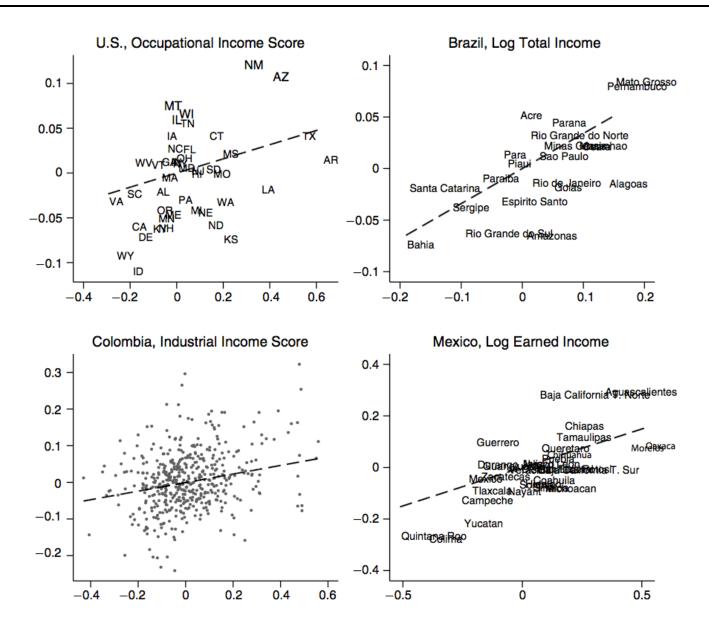
Because malaria is transmitted via mosquitoes.

#### Malaria Eradication in the Americas

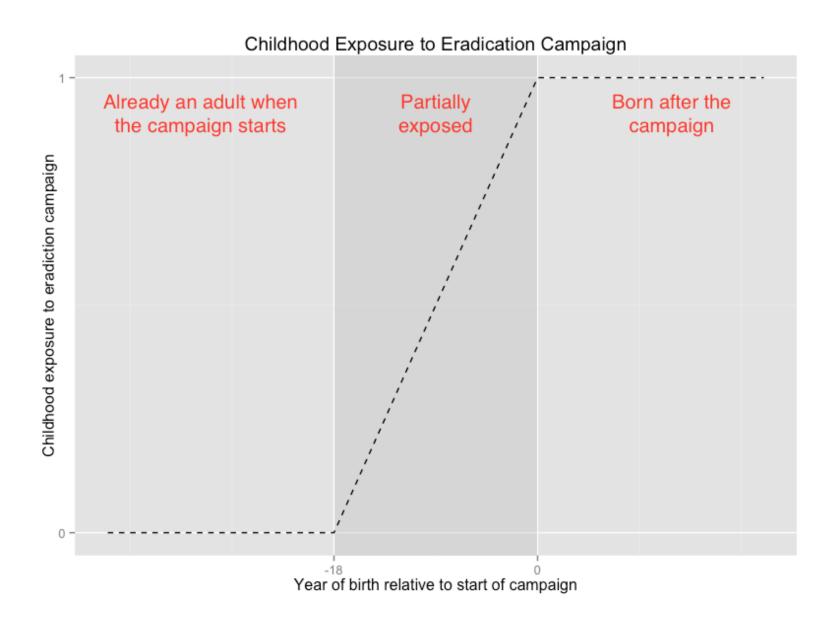




## Change in Income (Y) vs. Malaria before Campaign (X)



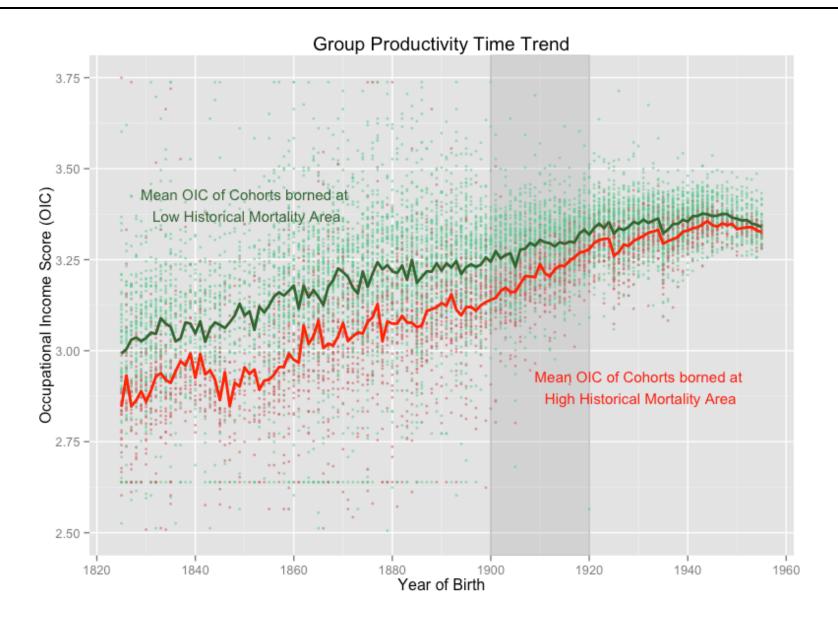
## Identification Strategies



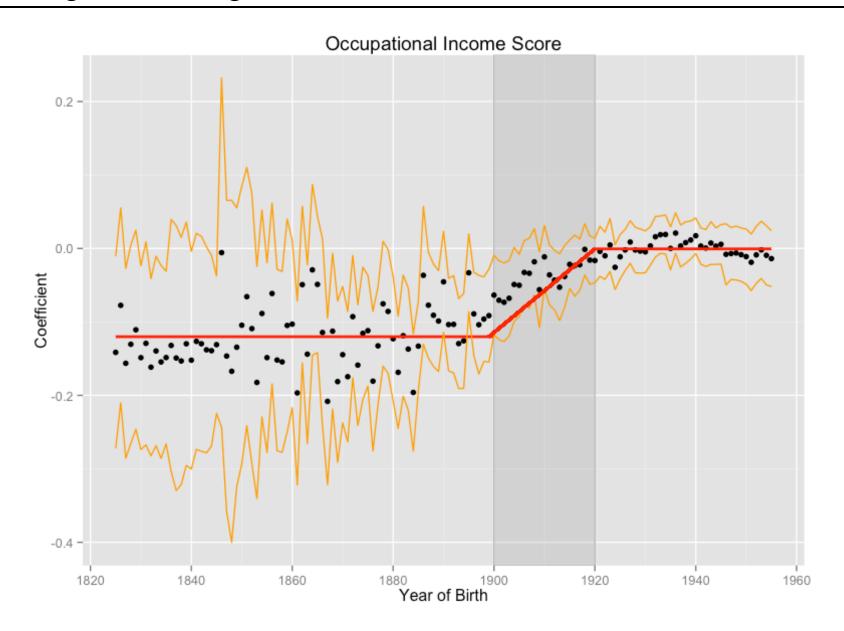
#### Identification Strategies

- First Difference: cohorts born before and after the eradication campaign
- Second Difference: places with high vs. low malaria infection rate

#### Difference-in-Differences



## Breaking the Linkage between Malaria and Income



#### Breaking the Linkage between Malaria and Income

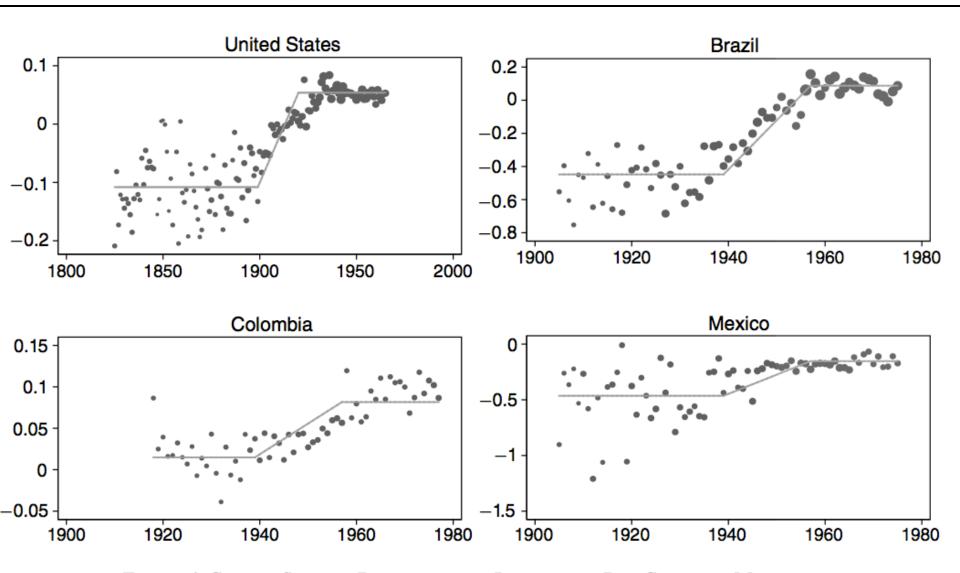


FIGURE 4. COHORT-SPECIFIC RELATIONSHIPS: INCOME AND PRE-CAMPAIGN MALARIA