Road Traffic Injuries: The Growing Gap

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Effect of Income on RTI Death Rates

Panel Data, 50 Years, Source WHO VR
Effect of Income on RTI Death Rates

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16 Rich Nations
USA
UK
Effect of Time on RTI Death Rates

Deaths per Million People

Year

USA

UK
Effect of Time on RTI Death Rates

Panel Data, 50 Years, Source WHO VR
What is the Effect of Time Alone?

Fixed effects regression model
Dependent var: log(gdp)
Independent var: income, income^2, urb, pop density, and year dummies
Preliminary Projections of RTI Deaths

Scenario 1: Do Nothing
94 Million Additional Deaths

Scenario 2: Act Now

Today
Harvard-WB Project: RTI Database

*An standardized cross-national database for road traffic injuries and covariates*

**Country Data**
- **Road Traffic Injury Data**
  - police, hospitals, crematoriums, surveys, …

- **Covariates of Road Traffic Injuries**
  - transport variables, mortality variables, policies, …

**Data Translation Algorithms**
- Adjustment for different sources
- Scale up: local ➔ national
- Fatalities ↔ Non fatal injuries
- Breakdown by age, gender, victim-type, etc.

**Extrapolation Models**
- Estimate RTI based on vehicles, roads, pop density, urbanization, regional fatality rates

**Burden of Injury Calculations**
- YLL, YLD ➔ Disability Adjusted Life Years lost

**Road Traffic Injury Database**
- Country level estimates: deaths, injuries, victim type, age, gender, threat type, burden of injuries

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Thank You!