

# Determinants of HIV

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# Outline

- Motivation
- Research Question
- Methodology
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- Findings
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# Motivation and Research Question

- 1 Understand why some countries failed to achieve MDG 6A
  - *MDG 6: Combat HIV/AIDS, malaria and other diseases*
  - *Target 6A: Have halted by 2015 and begun to reverse the spread of HIV/AIDS*

Source: <http://www.mdgmonitor.org/goal6.cfm>

- 2 Explore disease-specific determinants of health

**Research Question: Are community level factors significant determinants of HIV/AIDS incidence rates?**

# Methodology and Dataset

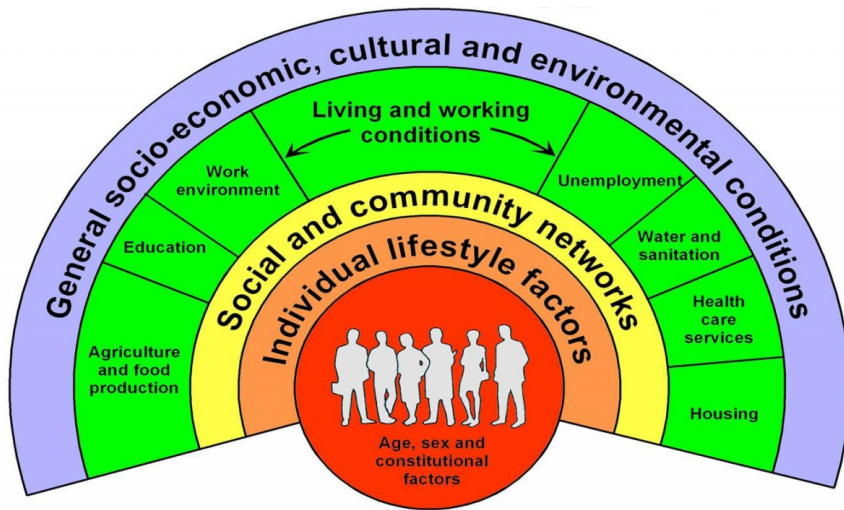
## Methodology

- We will. . .

## Datasets

- We will use the World Development Indicators (WDI) for the independent variables and a dataset from UNAIDS for the HIV/AIDS prevalence rate.

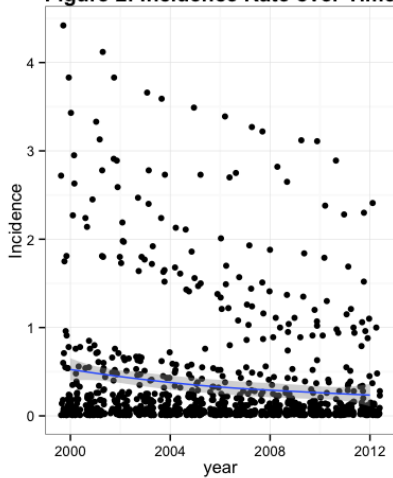
# Literature Review



Source: Dahlgren and Whitehead, 1991

# Descriptive Statistics

**Figure 2: Incidence Rate over Time**







# The Model

To answer our research question we will estimate the following equation:

$$I_{it} = \beta_0 + \beta_1 SE_{it} + \beta_2 WLC_{it} + \beta_3 SCN_{it} + \beta_4 ILF_{it} + \epsilon_{it}$$

Where I stands for HIV/AIDS incidence, SE stands for socioeconomic factors, WLC stands for working and living conditions, SCN stands for social and community networks and ILF stands for individual lifestyle factors.

# Findings

```
##
## Attaching package: 'dplyr'
##
## The following object is masked from 'package:stats':
##
##     filter
##
## The following objects are masked from 'package:base':
##
##     intersect, setdiff, setequal, union
## -----
## You have loaded plyr after dplyr - this is likely to cause
## If you need functions from both plyr and dplyr, please load
## library(plyr); library(dplyr)
## -----
```

# Imputed missing values

# Conclusions and Limitation