

# Whole Game 2: Malaria and Mosquito Nets

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- 1 Specify causal question**
- 2 Draw assumptions (causal diagram)**
- 3 Model assumptions (e.g. with a propensity score)**
- 4 Analyze propensities (diagnostics)**
- 5 Estimate causal effects**
- 6 Conduct a sensitivity analysis**

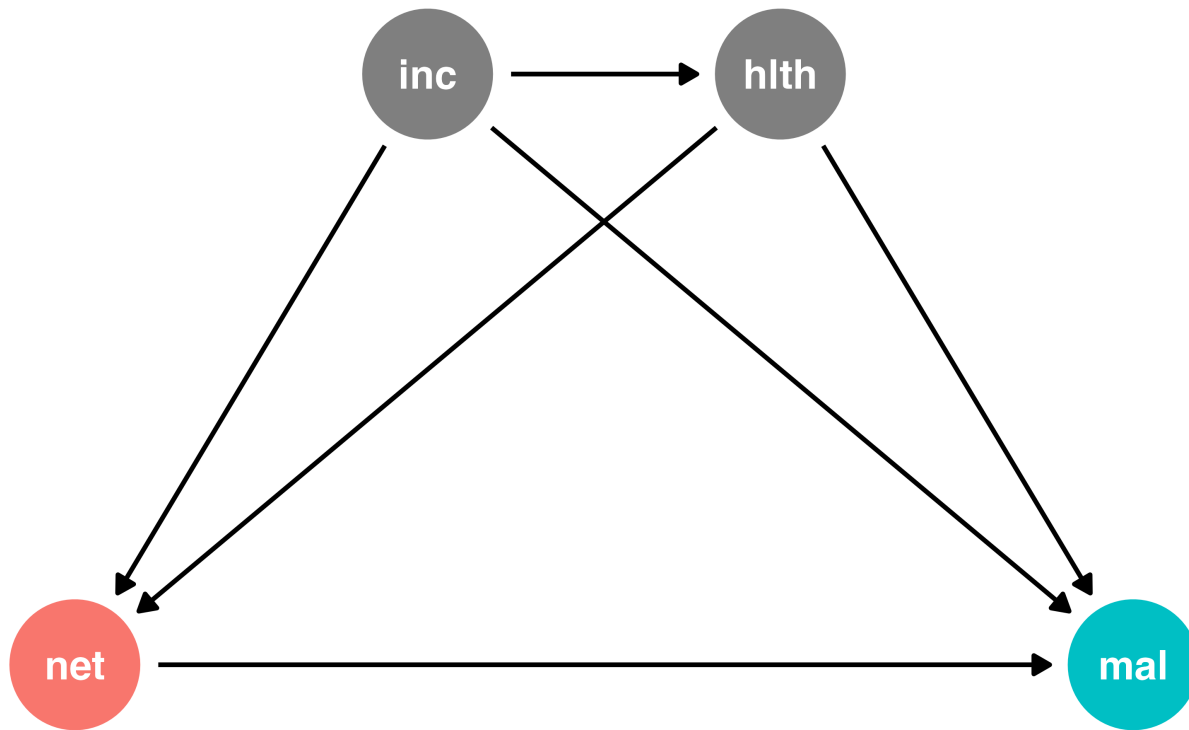
**Does mosquito bed net use  
reduce malaria risk?**

# The Data

```
library(causalworkshop)
net_data
```

```
## # A tibble: 1,138 × 5
##       id income health  net malaria_risk
##   <int> <dbl> <dbl> <int>      <dbl>
## 1     1    409.   63.1     0      45.1
## 2     2    521.   83.5     1      23.4
## 3     3    581.   73.0     0      36.5
## 4     4    324.   60.6     0      58.7
## 5     5    532.   73.4     1      32.7
## 6     6    538.   42.6     0      52.5
## 7     7    457.   41.3     1      41.8
## 8     8    459.   79.1     1      33.1
## 9     9    458.   61.8     1      33.8
## 10    10    433.   71.5     1      32.5
## # ... with 1,128 more rows
```

# Proposed DAG



Thanks to Andrew Heiss for the data!

**Your Turn!**