

Whole Game 2: Malaria and Mosquito Nets

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- 1 Specify causal question (e.g. target trial)
- 2 Draw assumptions (causal diagram)
- 3 Model assumptions (e.g., propensity)
- 4 Diagnose model (e.g., balance)
- 5 Estimate causal effects (e.g., IPW)
- 6 Sensitivity analysis

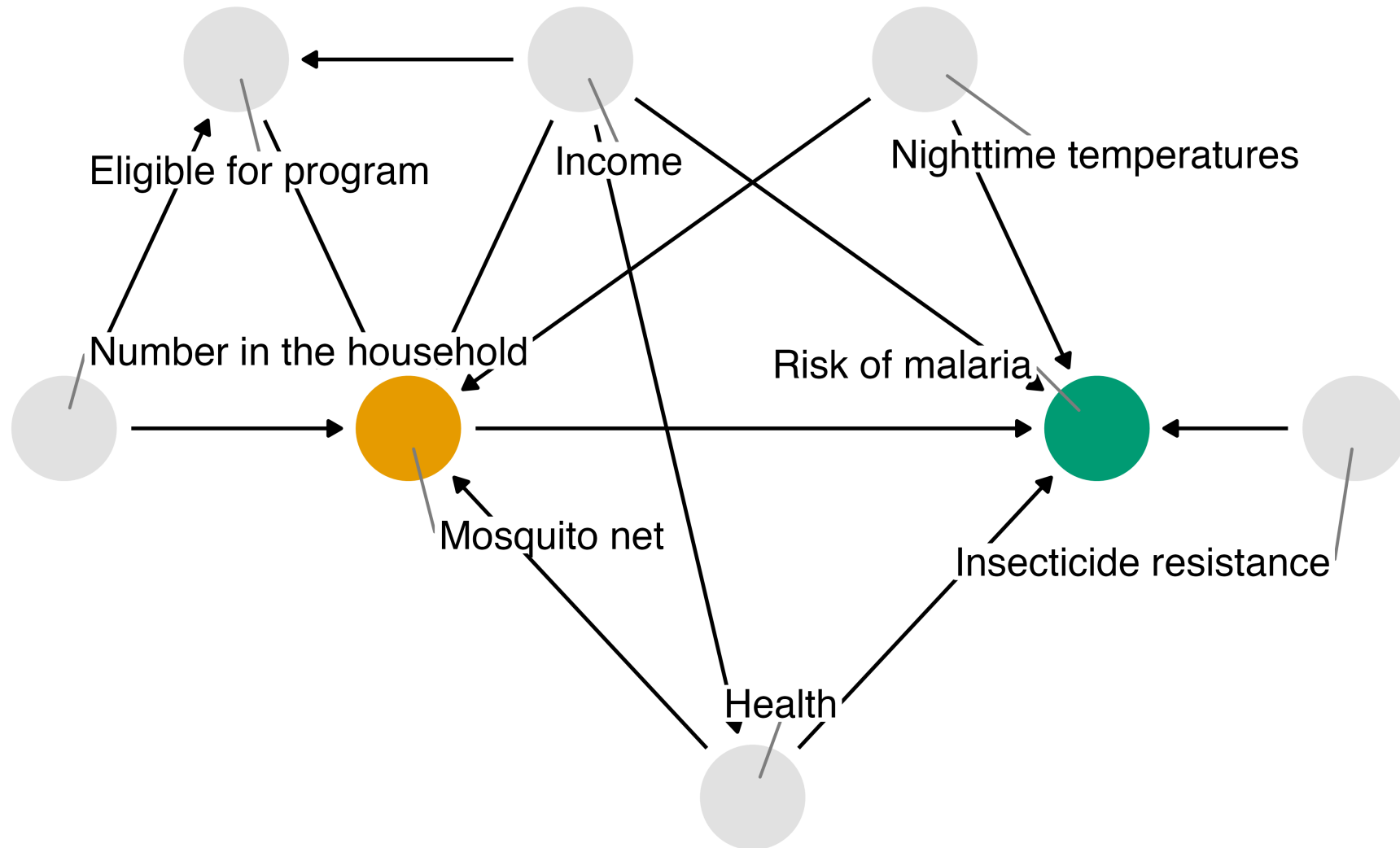
**Does mosquito bed net
use reduce malaria risk?**

The Data

```
1 library(causalworkshop)
2 net_data
```

```
# A tibble: 1,752 × 10
   id net net_num malaria_risk income health household
  <int> <lgl>   <int>         <dbl>   <dbl>   <dbl>         <dbl>
1     1 FALSE     0          38     779     35           1
2     2 FALSE     0          48     700     35           3
3     3 FALSE     0          32    1083     58           3
4     4 FALSE     0          55     753     68           3
5     5 FALSE     0          36     919     46           5
6     6 FALSE     0          30     969     37           3
7     7 FALSE     0          29    1012     58           1
8     8 FALSE     0          45     708     30           2
9     9 FALSE     0          51     733     18           3
10    10 FALSE     0          42     862     64           3
```

Proposed DAG



Thanks to Andrew Heiss for the data!

Your Turn!