

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

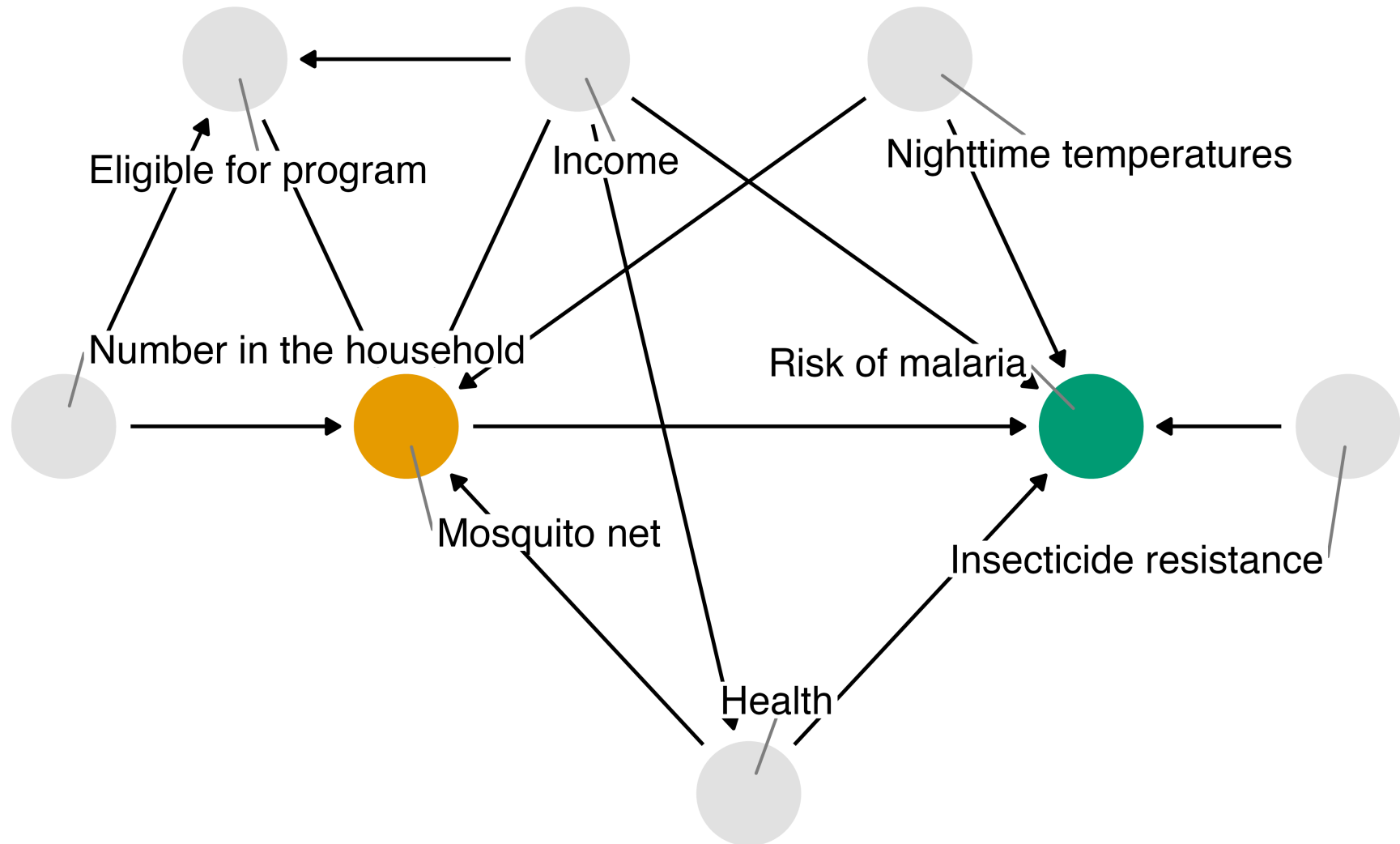
```
1 library(causalworkshop)
2 net_data
```

```
# 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

```
" " 1 740
```

Proposed DAG



Thanks to Andrew Heiss for the data!

Your Turn!

