## STEP 1: DESCRIBE EXPERIMENT

STEP 2: SPECIFY STATISTICAL MODEL

## STEP 3: DEFINE STATISTICAL QUERY

STEP 4: CONSTRUCT ESTIMATOR

STEP 5: OBTAIN INFERENCE

STEP 6:
MAKE SUBSTANTIVE
CONCLUSION

## What is the causal risk ratio in mortality between treatment groups?

$$\psi_{causal} = \frac{P(Y_1 = 1)}{P(Y_0 = 1)}$$

What's needed to *identify*  $\psi_{causal}$  from the observed data?

- 1. No unmeasured confounding / randomization / exchangeability
- 2. Positivity / experimental treatment assignment (ETA) assumption