

Relative Risk and Odds Ratios

Grinnell College

February 11, 2025

Warm up

Let Y indicate myocardial infarction and X indicate drug exposure

	Myocardial Infarction	
	Yes	No
Placebo	24	1356
Aspirin	13	1367

- ▶ What do $P(Y = y)$ and $P(Y = y|X = x)$ represent?
- ▶ Find the odds ratio comparing heart attacks for those in the placebo group against those in the aspirin group
- ▶ Find the relative risk of having a heart attack for the placebo group compared to the aspirin group. How does this compare to the odds ratio? Explain