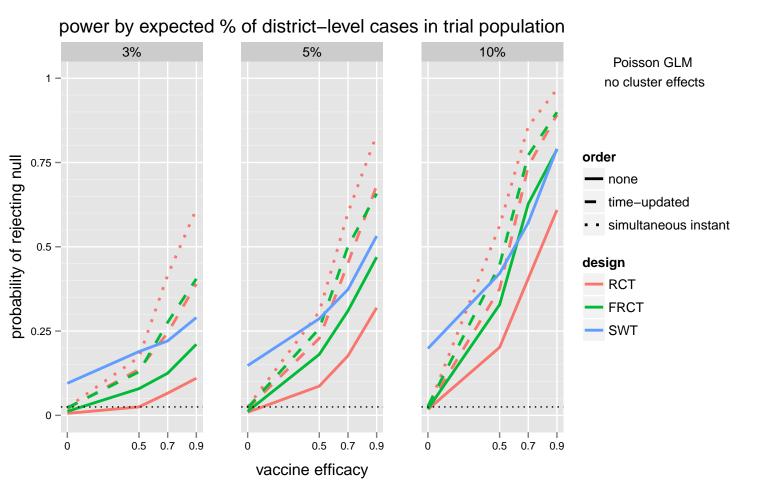
power by expected % of district-level cases in trial population 3% 5% 10% Cox PH Frailty 1 order 0.75 none time-updated simultaneous instant 0.5 design - RCT FRCT 0.25 -- SWT 0 -0.5 0.7 0.9 0.5 0.9 0.5 0.9

vaccine efficacy

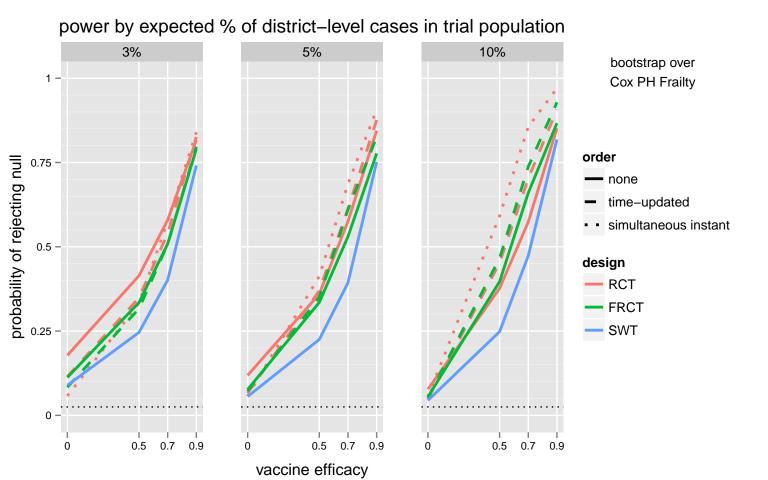
probability of rejecting null

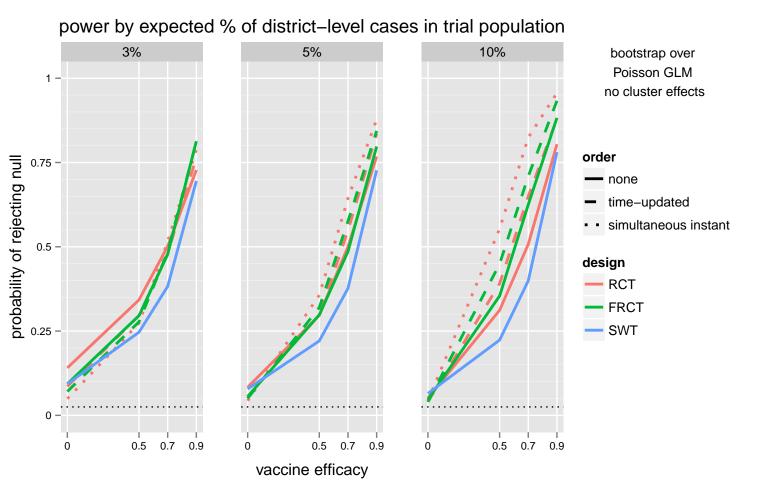


power by expected % of district-level cases in trial population 3% 5% 10% Poisson GLM 1 with fixed effects by cluster order 0.75 none time-updated simultaneous instant 0.5 design - RCT **FRCT** 0.25 -SWT 0.5 0.7 0.9 0.5 0.9 0.5 0.9

vaccine efficacy

probability of rejecting null

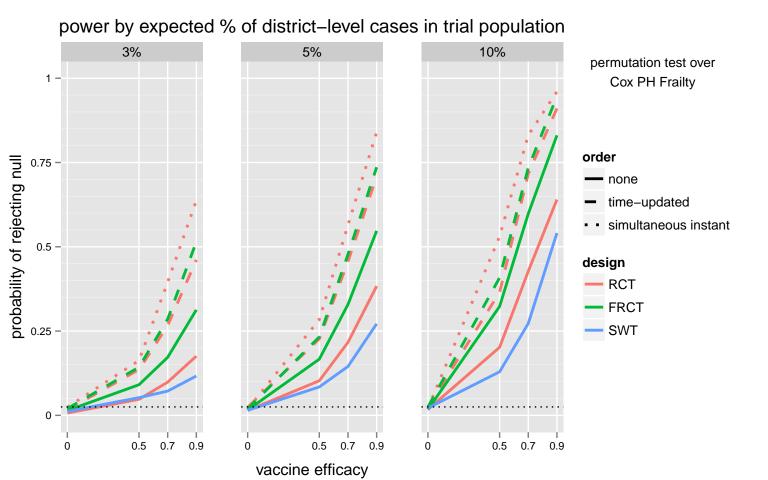




power by expected % of district-level cases in trial population 3% 5% 10% bootstrap over Poisson GLM 1 with fixed effects by cluster order 0.75 none time-updated simultaneous instant 0.5 design RCT **FRCT** 0.25 -SWT 0 -0.5 0.7 0.9 0.5 0.9 0.5 0.9

vaccine efficacy

probability of rejecting null



power by expected % of district-level cases in trial population 3% 5% 10% permutation test over Poisson GLM 1 no cluster effects order probability of rejecting null 0.75 none time-updated simultaneous instant 0.5 design - RCT FRCT 0.25 -SWT 0.5 0.7 0.9 0.5 0.9 0.5 0.7 0.9 vaccine efficacy

power by expected % of district-level cases in trial population 3% 5% 10% permutation test over Poisson GLM 1 with fixed effects by cluster order 0.75 none time-updated simultaneous instant 0.5 design RCT **FRCT** 0.25 -- SWT 0

0.5

vaccine efficacy

0.9

0.5

0.9

probability of rejecting null

0.5 0.7

0.9