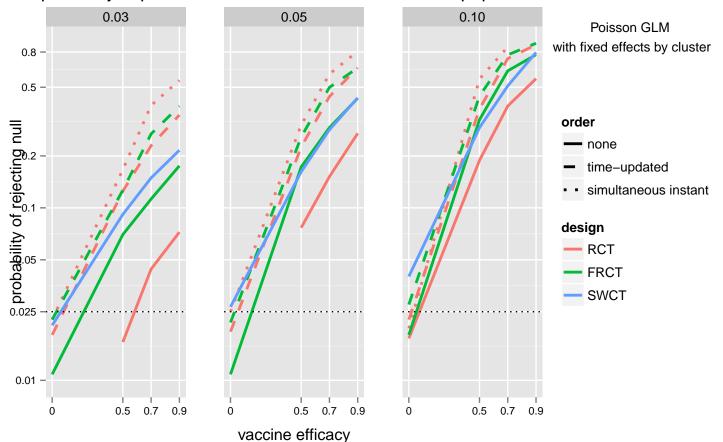


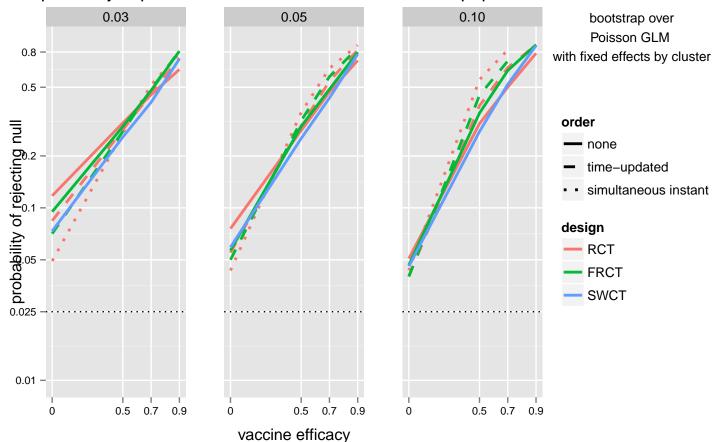
power by expected % of district-level cases in trial population 0.03 0.05 0.10 Poisson GLM no cluster effects 0.8 -0.5 order probability of rejecting null none time-updated simultaneous instant design RCT **FRCT SWCT** 0.01 -0.5 0.7 0.9 0.5 0.7 0.9 0.5 0.7 0.9

vaccine efficacy



power by expected % of district-level cases in trial population 0.03 0.05 0.10 bootstrap over Cox PH Frailty 0.8 -0.5 order probability of rejecting null none time-updated simultaneous instant design RCT FRCT SWCT 0.01 -0.5 0.7 0.9 0.5 0.7 0.9 0.5 0.7 0.9 vaccine efficacy

power by expected % of district-level cases in trial population 0.03 0.05 0.10 bootstrap over Poisson GLM 0.8 no cluster effects 0.5 order probability of rejecting null none time-updated simultaneous instant design RCT FRCT **SWCT** 0.01 -0.5 0.7 0.9 0.5 0.7 0.9 0.5 0.9 0.7 vaccine efficacy



power by expected % of district-level cases in trial population 0.03 0.05 0.10 permutation test over Cox PH Frailty 0.8 -0.5 order probability of rejecting null none time-updated simultaneous instant design RCT **FRCT SWCT** 0.01 -0.5 0.7 0.9 0.5 0.7 0.9 0.5 0.7 0.9

vaccine efficacy

power by expected % of district-level cases in trial population 0.03 0.05 0.10 permutation test over Poisson GLM 0.8 no cluster effects 0.5 order probability of rejecting null none time-updated simultaneous instant design RCT **FRCT SWCT** 0.025 0.01 -0.5 0.7 0.9 0.5 0.7 0.9 0.5 0.9 0.7

vaccine efficacy

