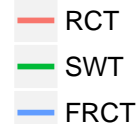


# power by expected % of district-level cases in trial population

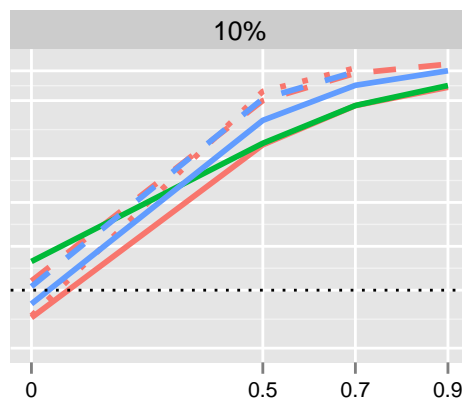
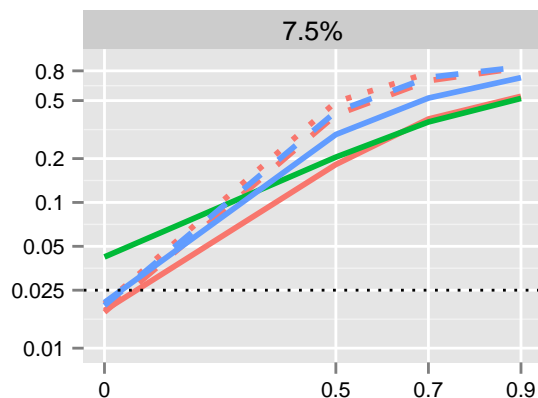
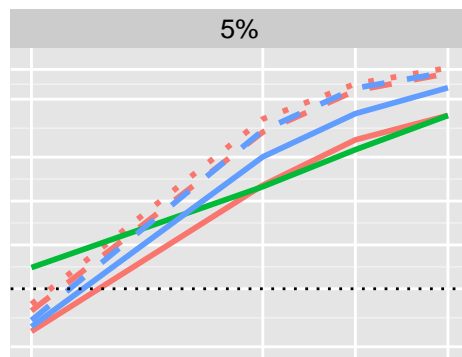
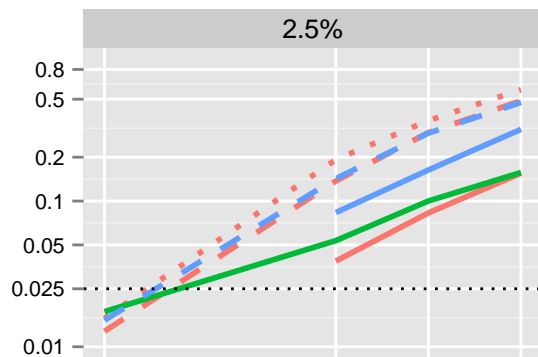
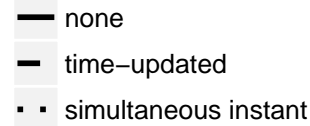
probability of rejecting null

Cox PH Frailty

**design**



**order**



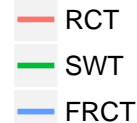
vaccine efficacy

# power by expected % of district-level cases in trial population

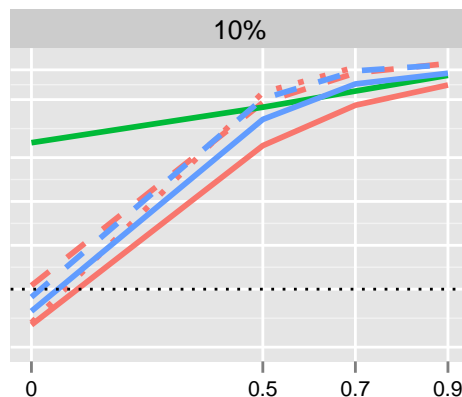
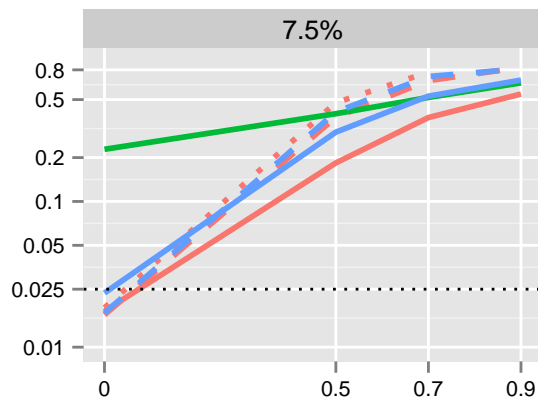
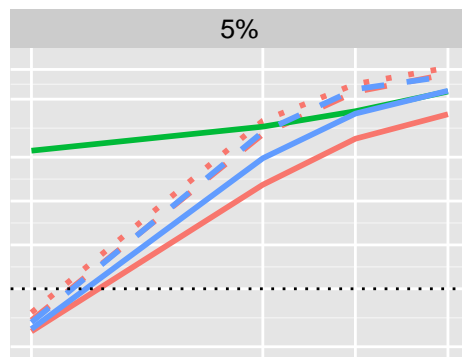
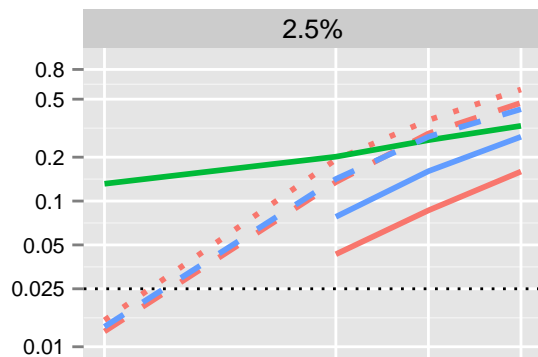
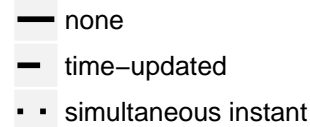
probability of rejecting null

Poisson GLM  
no cluster effects

**design**



**order**

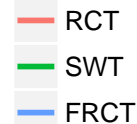


vaccine efficacy

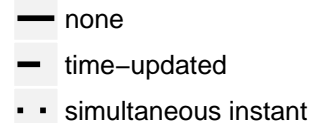
# power by expected % of district-level cases in trial population

Poisson GLM  
with fixed effects by cluster

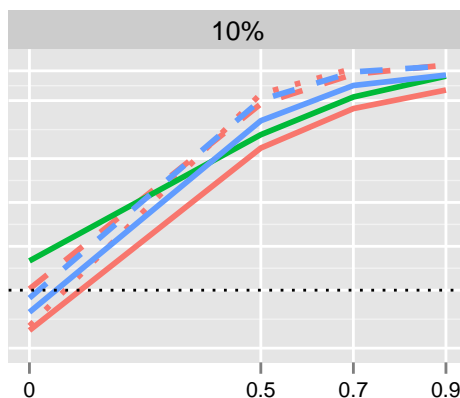
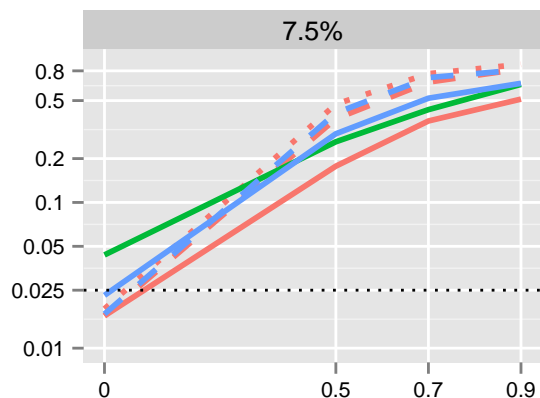
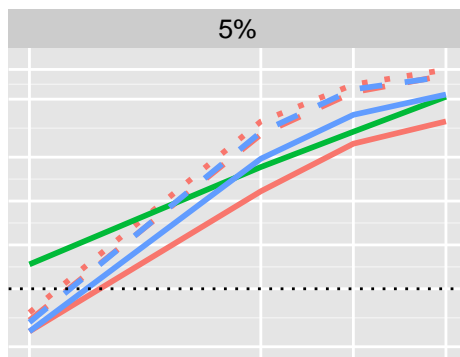
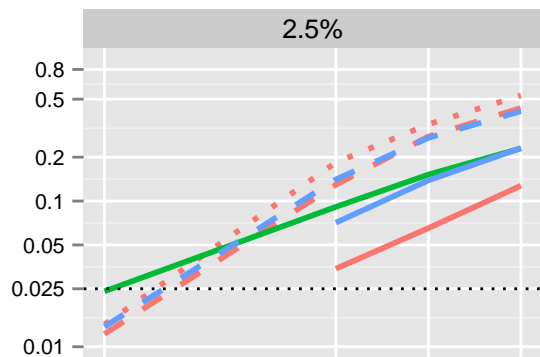
**design**



**order**



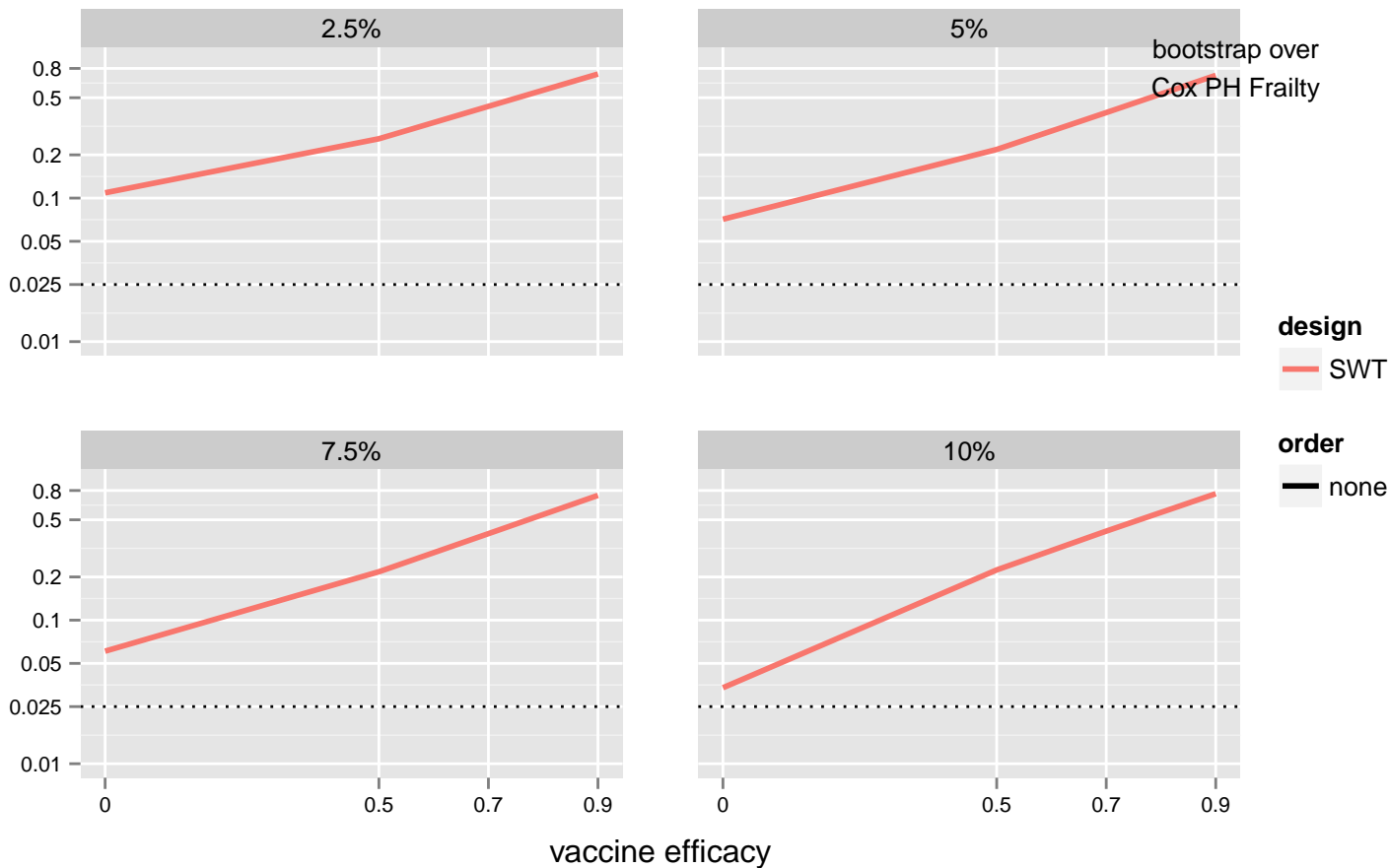
probability of rejecting null



vaccine efficacy

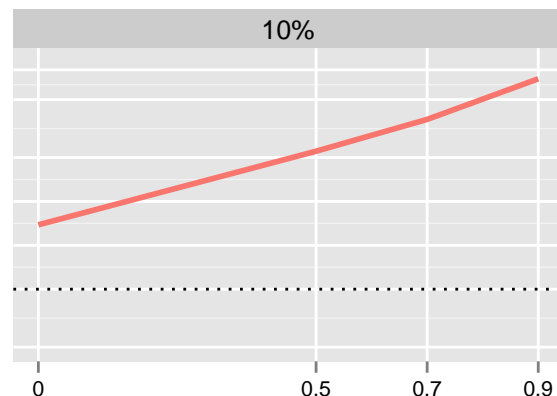
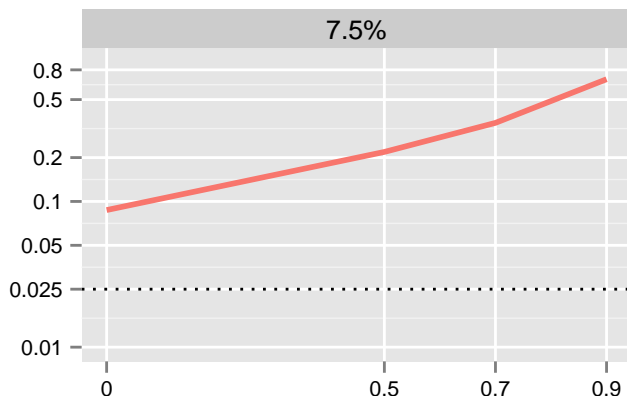
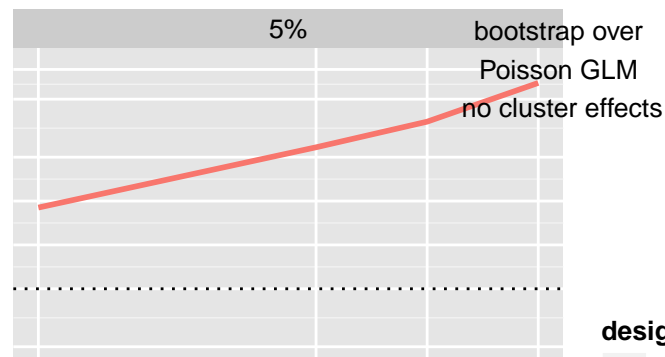
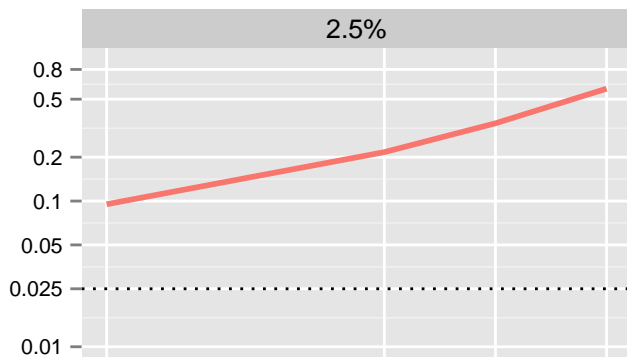
# power by expected % of district-level cases in trial population

probability of rejecting null



# power by expected % of district-level cases in trial population

probability of rejecting null



design

— SWT

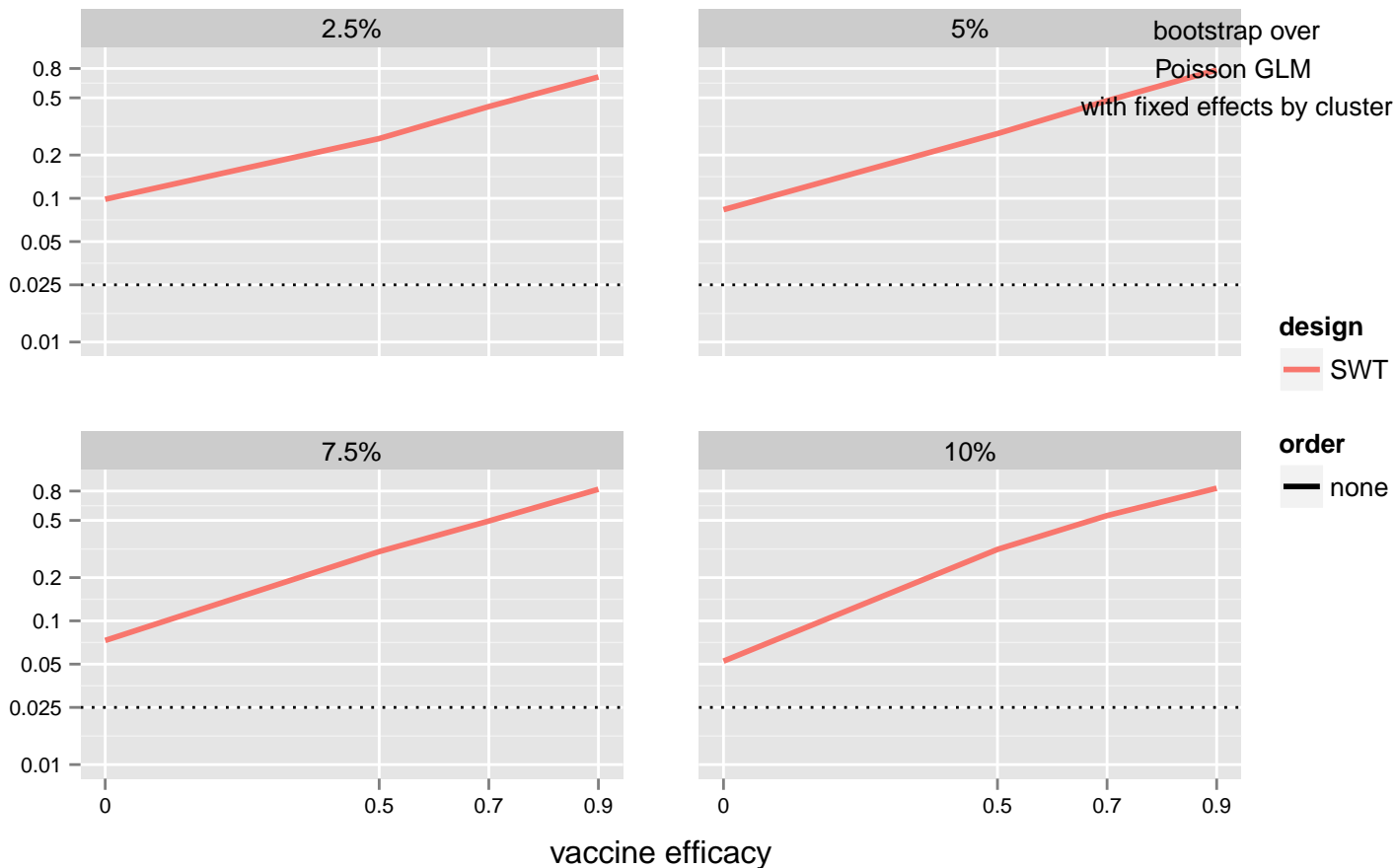
order

— none

vaccine efficacy

# power by expected % of district-level cases in trial population

probability of rejecting null

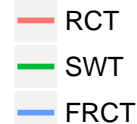


# power by expected % of district-level cases in trial population

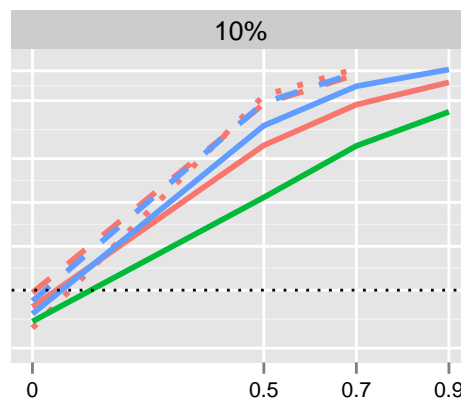
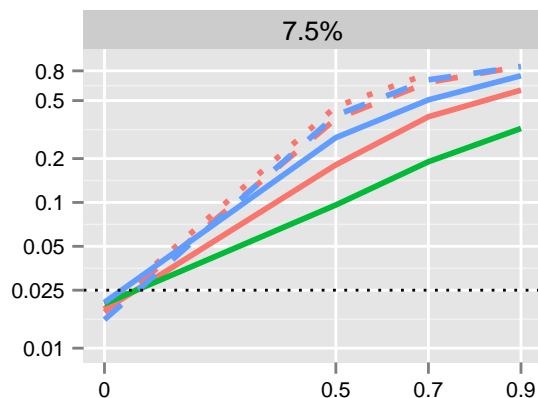
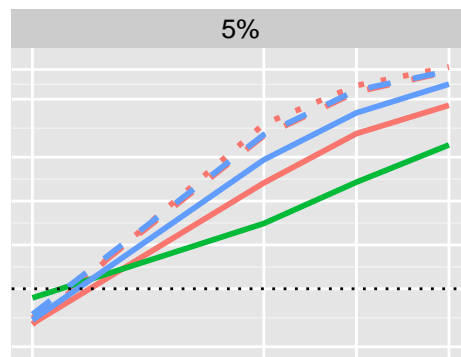
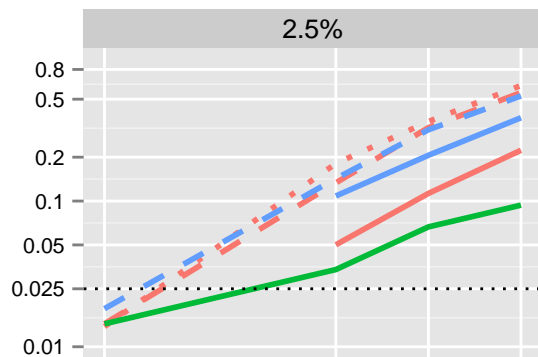
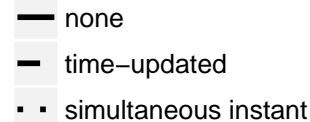
probability of rejecting null

permutation test over  
Cox PH Frailty

**design**



**order**



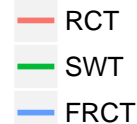
vaccine efficacy

# power by expected % of district-level cases in trial population

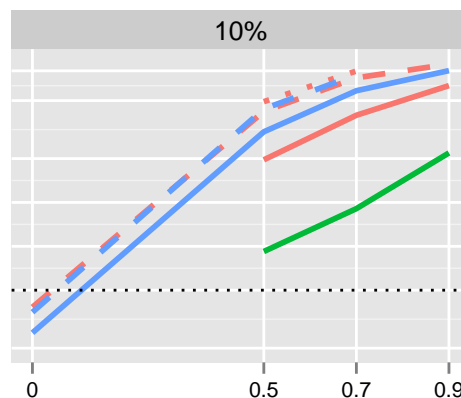
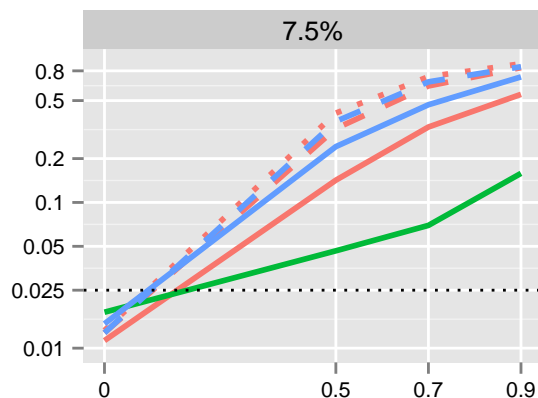
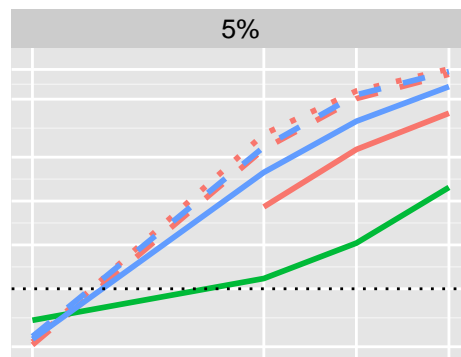
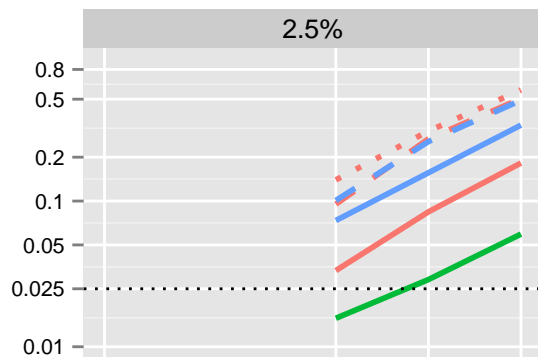
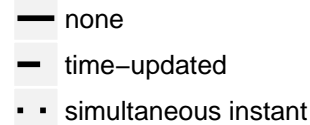
probability of rejecting null

permutation test over  
Poisson GLM  
no cluster effects

**design**



**order**



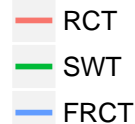
vaccine efficacy



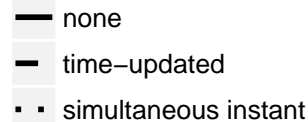
# power by expected % of district-level cases in trial population

permutation test over  
Poisson GLM  
with fixed effects by cluster

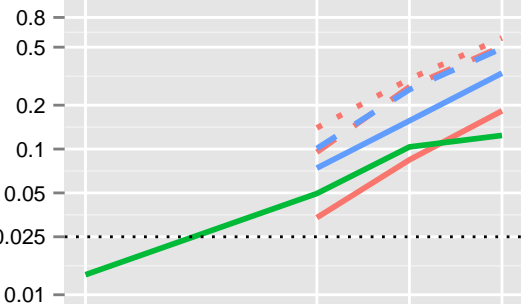
## design



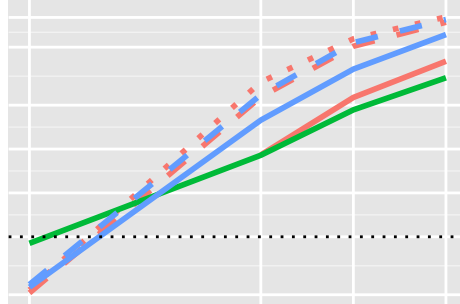
## order



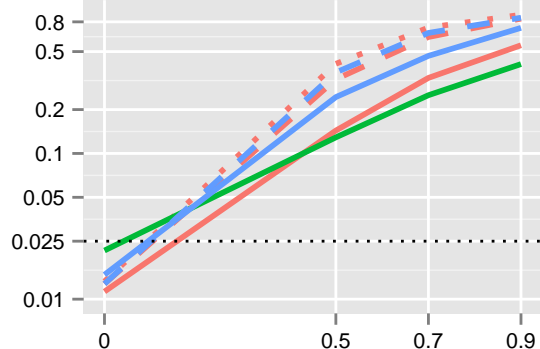
2.5%



5%



7.5%



10%

