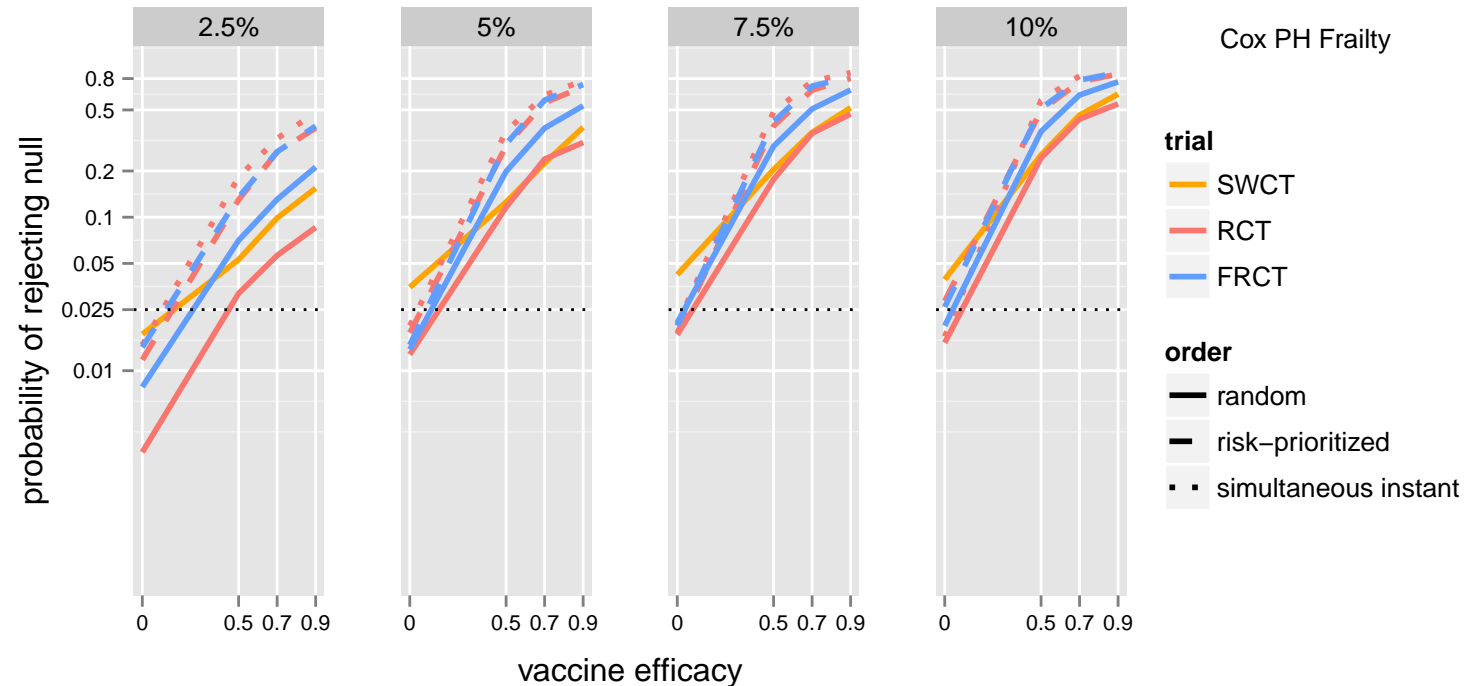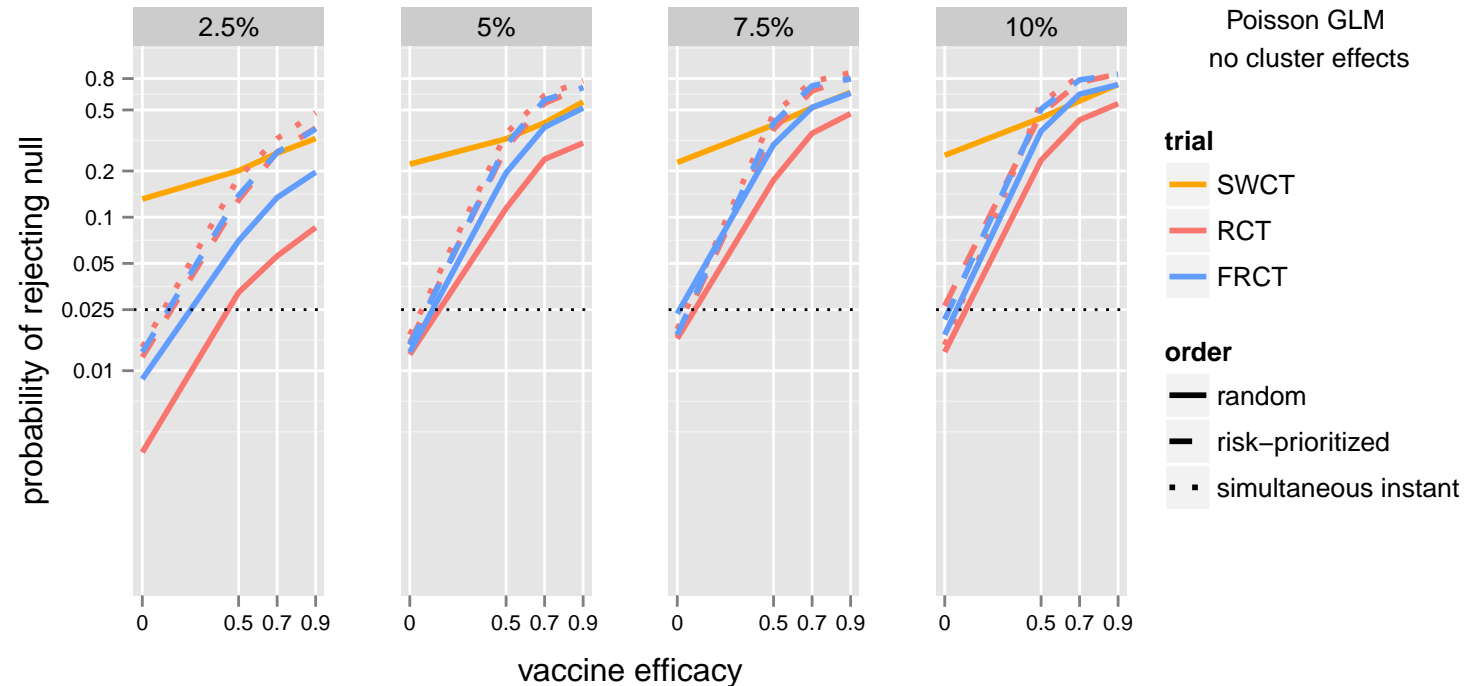power by expected % of district-level cases in trial population

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

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

Poisson GLM
with fixed effects by cluster

trial
- SWCT
- RCT
- FRCT

order
- — random
- – – risk-prioritized
- ⋯ simultaneous instant

y-axis: probability of rejecting null

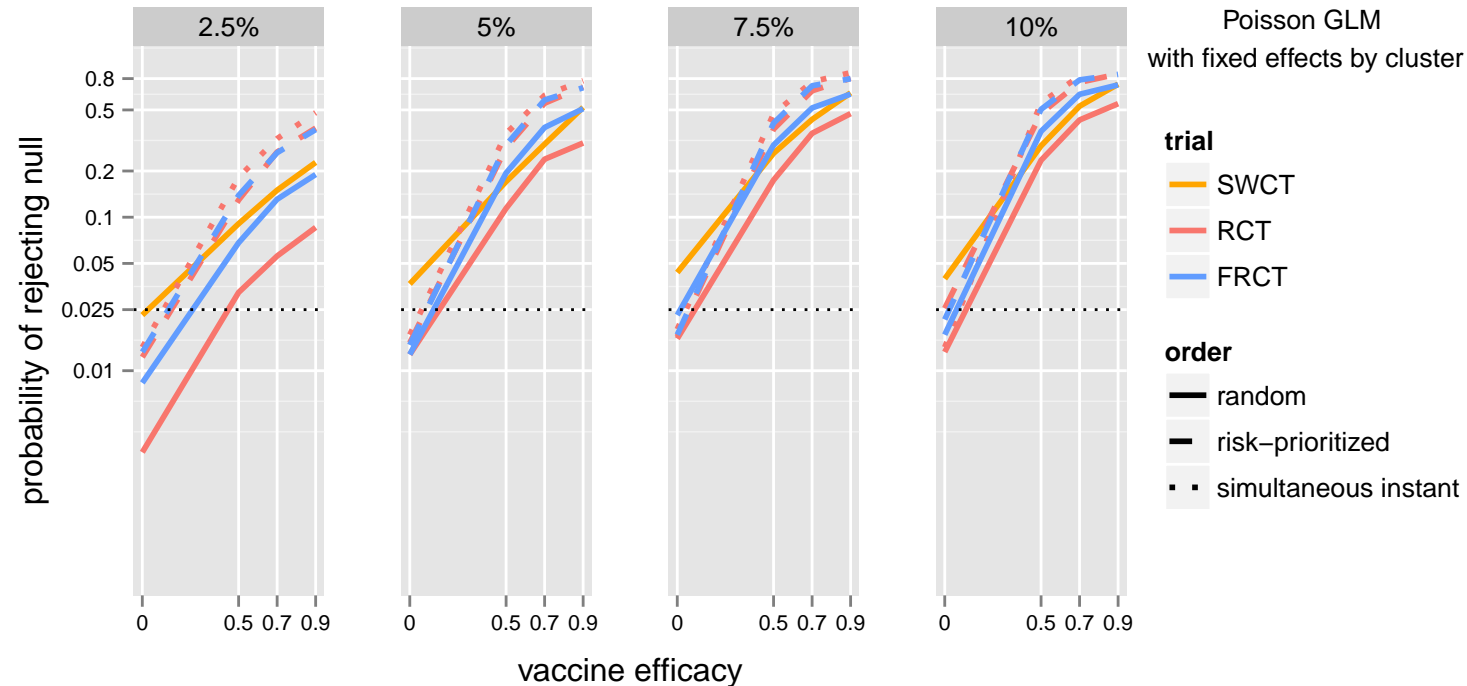x-axis: vaccine efficacy

Panels: 2.5%, 5%, 7.5%, 10%
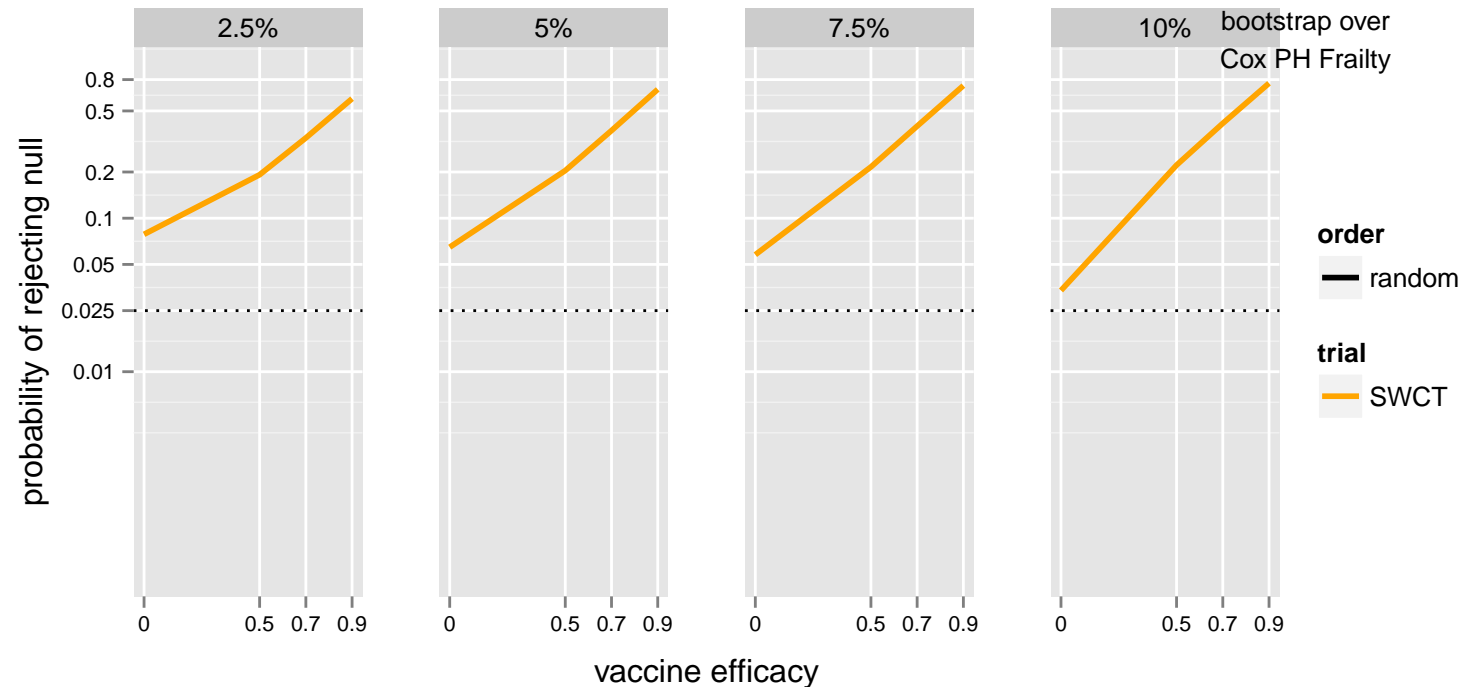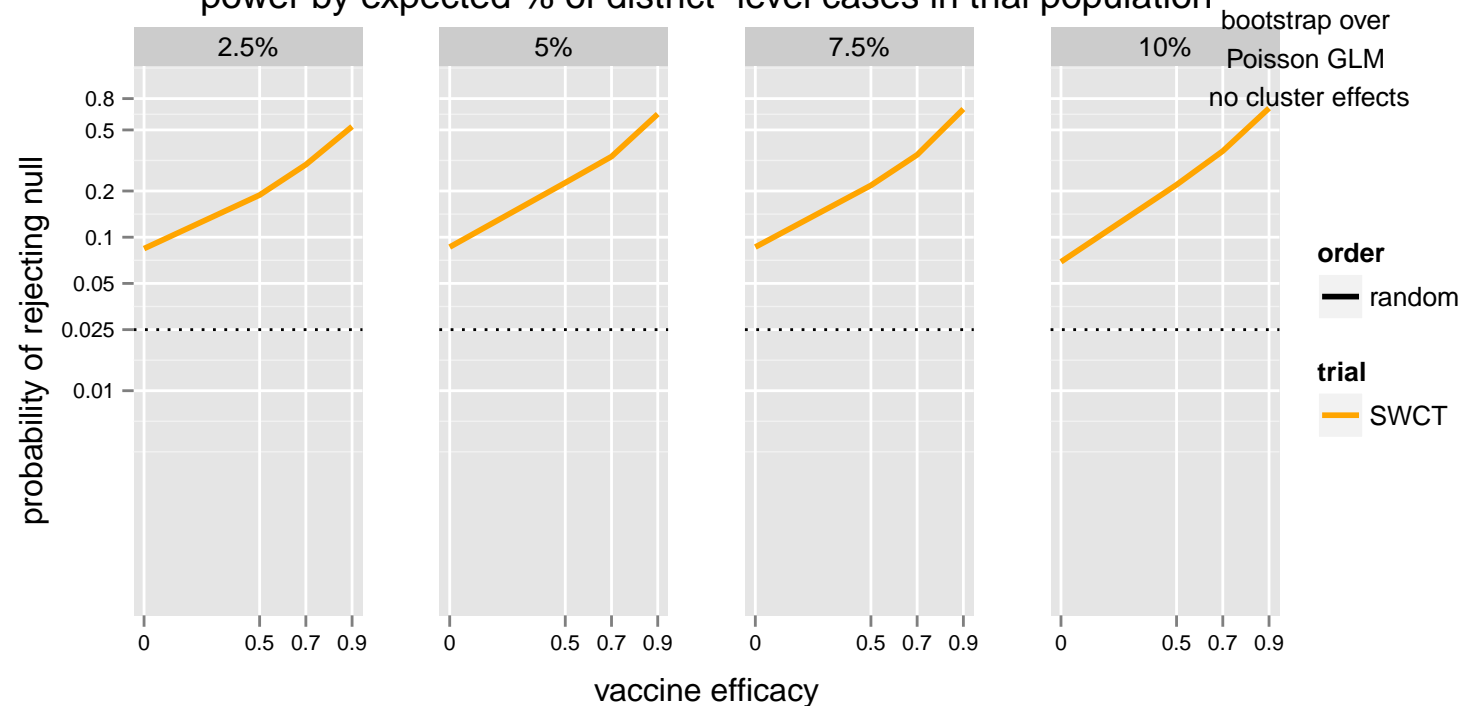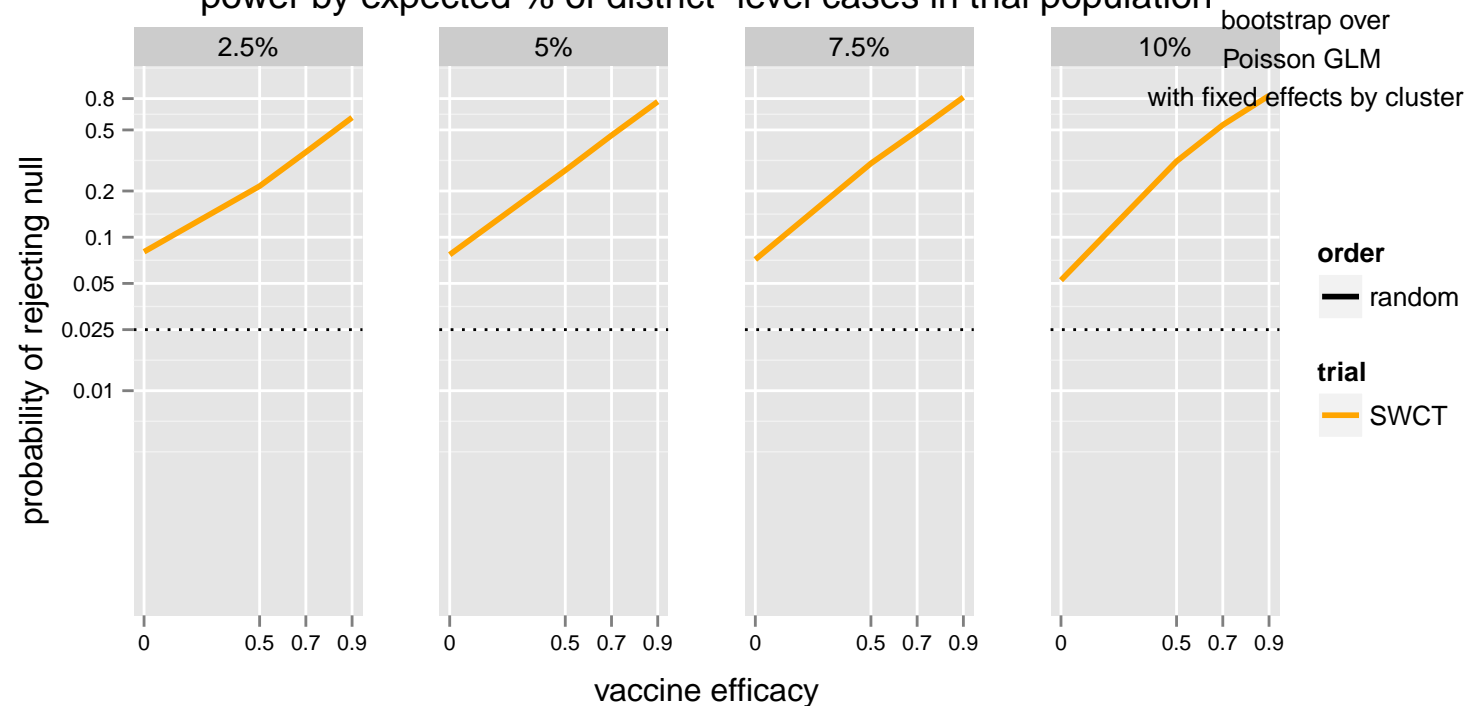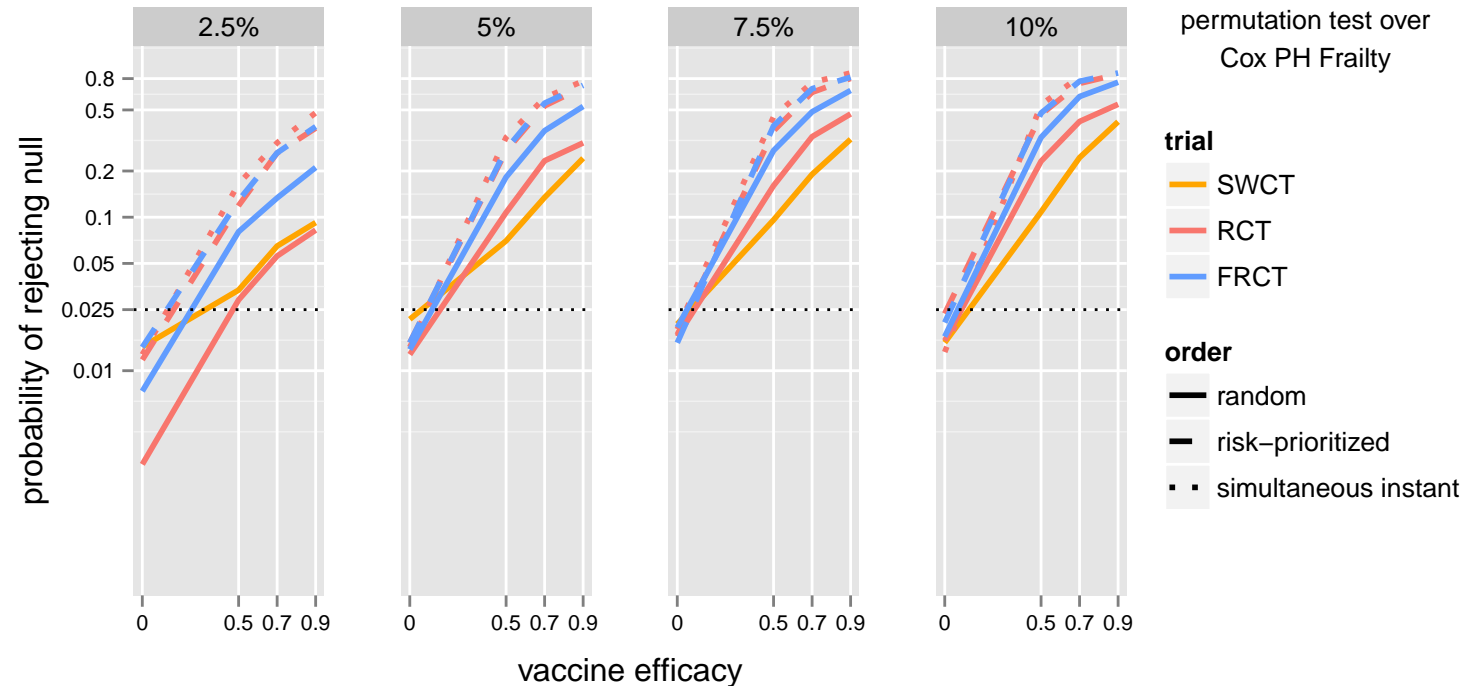
power by expected % of district-level cases in trial population

power by expected % of district−level cases in trial population

power by expected % of district−level cases in trial population

bootstrap over
Poisson GLM
with fixed effects by cluster

order
— random

trial
— SWCT

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

permutation test over Cox PH Frailty

trial
— SWCT
— RCT
— FRCT

order
— random
-- risk-prioritized
··· simultaneous instant

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

permutation test over
Poisson GLM
no cluster effects

trial
- SWCT
- RCT
- FRCT

order
- —— random
- – – risk-prioritized
- ···· simultaneous instant

probability of rejecting null

vaccine efficacy

power by expected % of district−level cases in trial population

permutation test over Poisson GLM with fixed effects by cluster

trial
- SWCT
- RCT
- FRCT

order
- random
- risk-prioritized
- simultaneous instant