Coverage of 95% credible intervals

R0 Latent period Infectious period Detection rate N.B. Overdisperion

Coverage
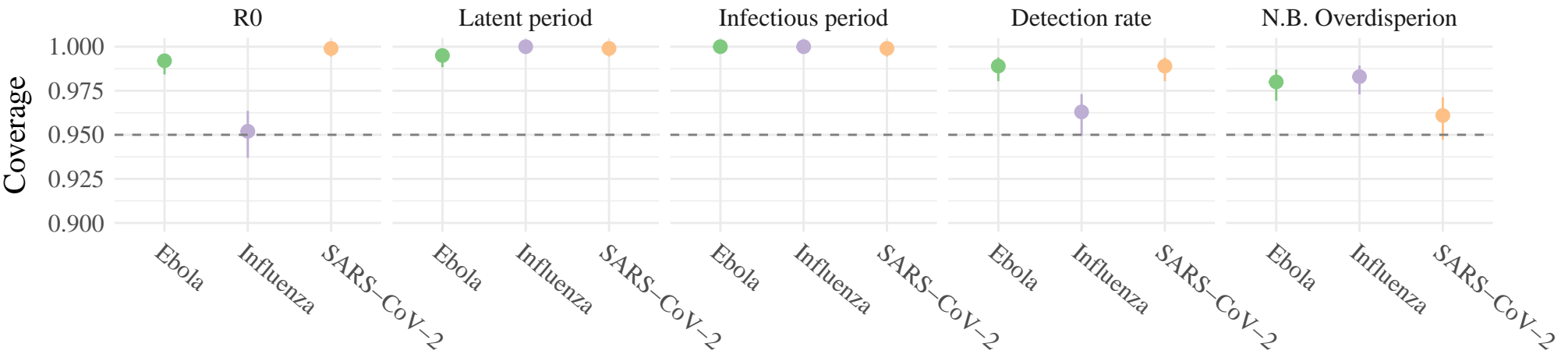
## Posterior 95% CI width vs. prior 95% CI width

R0 Latent period Infectious period Detection rate N.B. Overdisperion

Posterior contraction
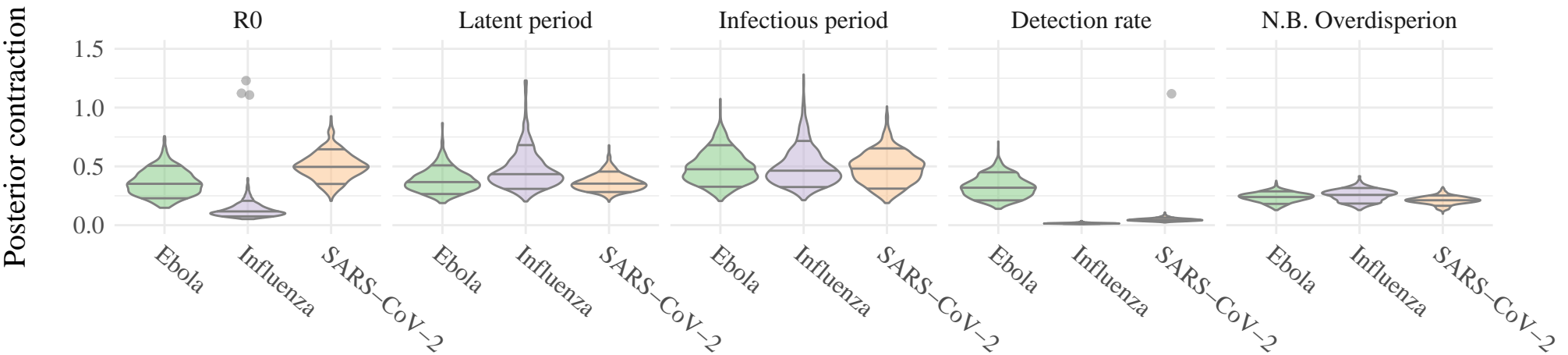
Scaled median absolute deviation

R0 Latent period Infectious period Detection rate N.B. Overdisperion

$|\hat{\theta}_{0.5} - \theta_{true}|/\theta_{true}$
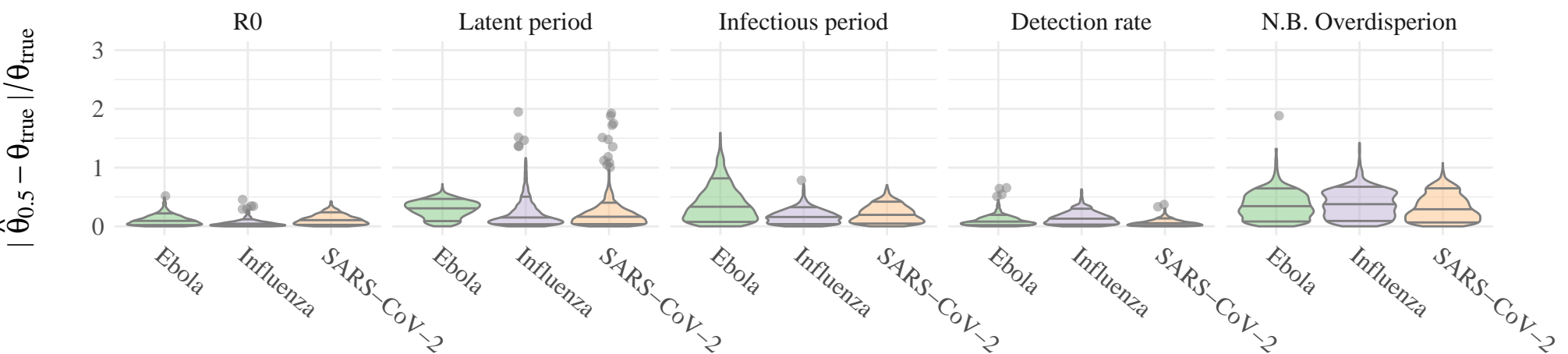
Scaled credible interval width

R0 Latent period Infectious period Detection rate N.B. Overdisperion

$(\hat{\theta}_{0.975} - \hat{\theta}_{0.025})/\theta_{true}$

Ebola Influenza SARS-CoV-2