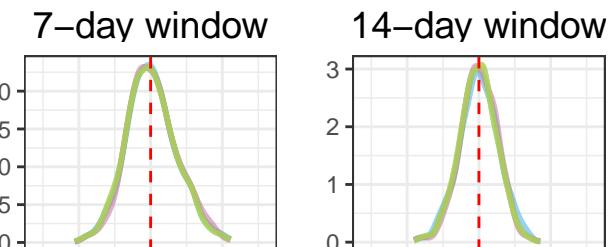
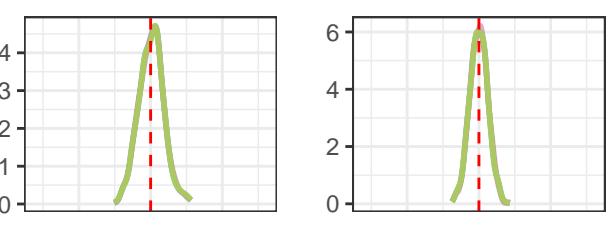


## Distribution of $\hat{R}$

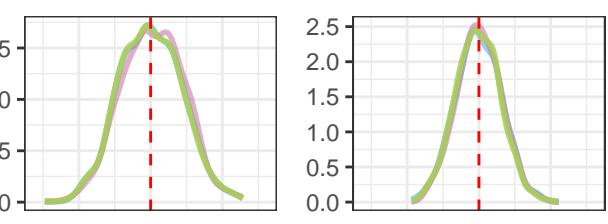
$R_t = 1.5$   
 $\psi = 0.02$   
 Magn. : low



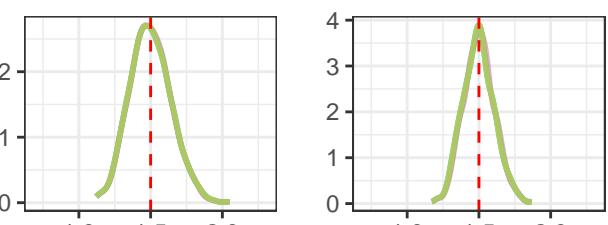
$R_t = 1.5$   
 $\psi = 0.02$   
 Magn. : high



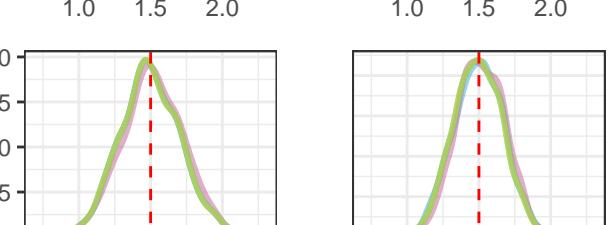
$R_t = 1.5$   
 $\psi = 0.06$   
 Magn. : low



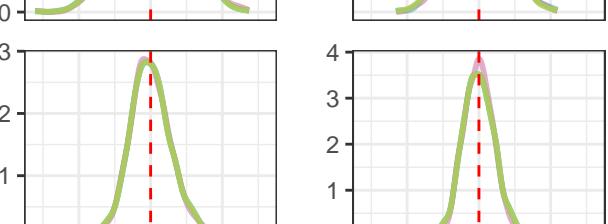
$R_t = 1.5$   
 $\psi = 0.06$   
 Magn. : high



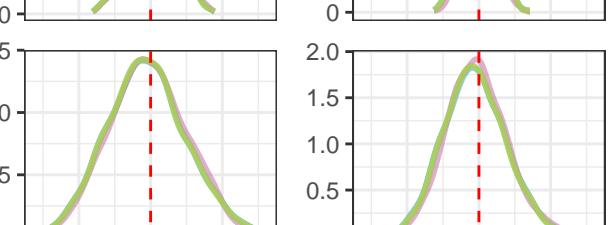
$R_t = 2.5$   
 $\psi = 0.02$   
 Magn. : low



$R_t = 2.5$   
 $\psi = 0.02$   
 Magn. : high



$R_t = 2.5$   
 $\psi = 0.06$   
 Magn. : low

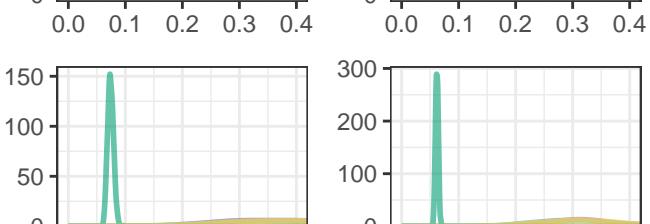
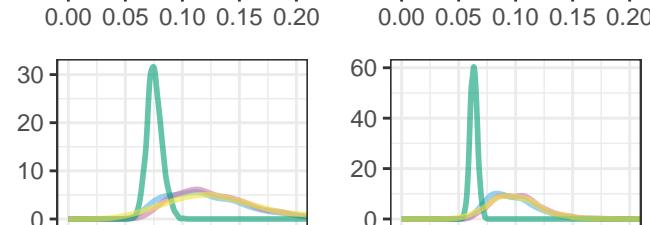
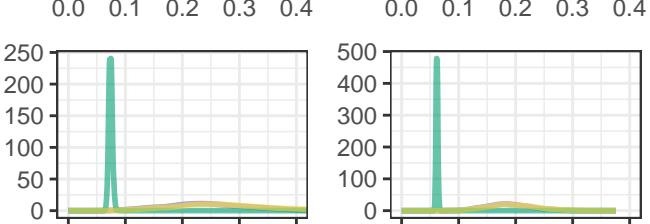
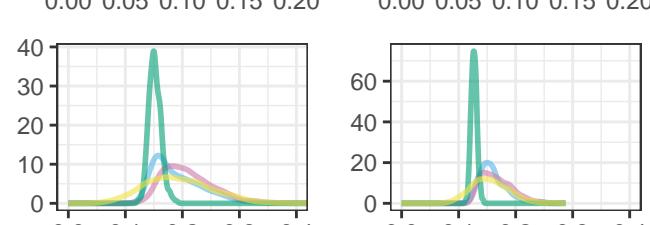
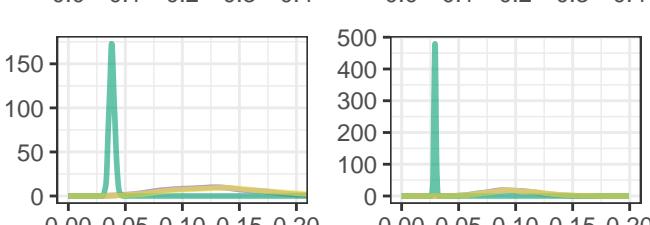
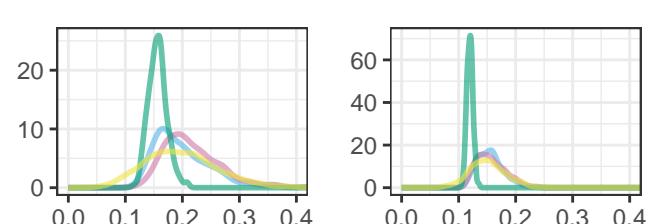
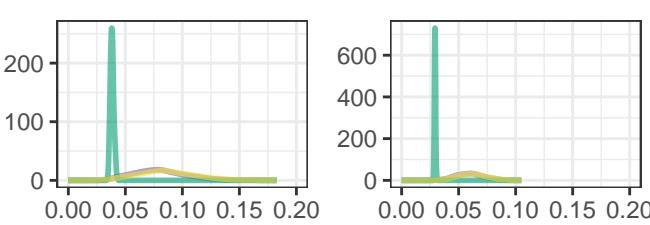
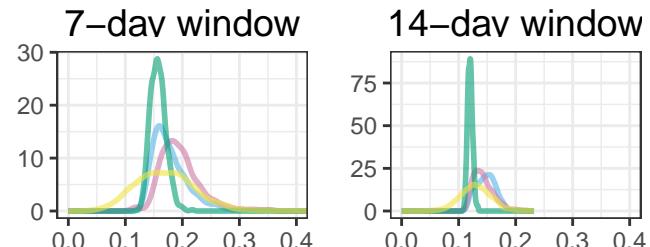


$R_t = 2.5$   
 $\psi = 0.06$   
 Magn. : high



$\hat{R}$

## Distribution of $\widehat{se}(\hat{R})$



$\widehat{se}(\hat{R})$

$R_t$

Model

- NegBin-L
- NegBin-Q
- Poiss
- Q-Poiss