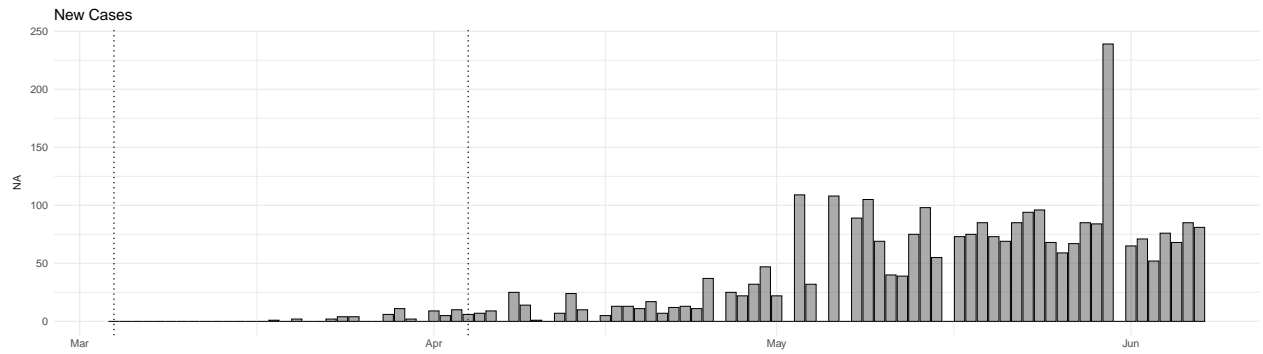
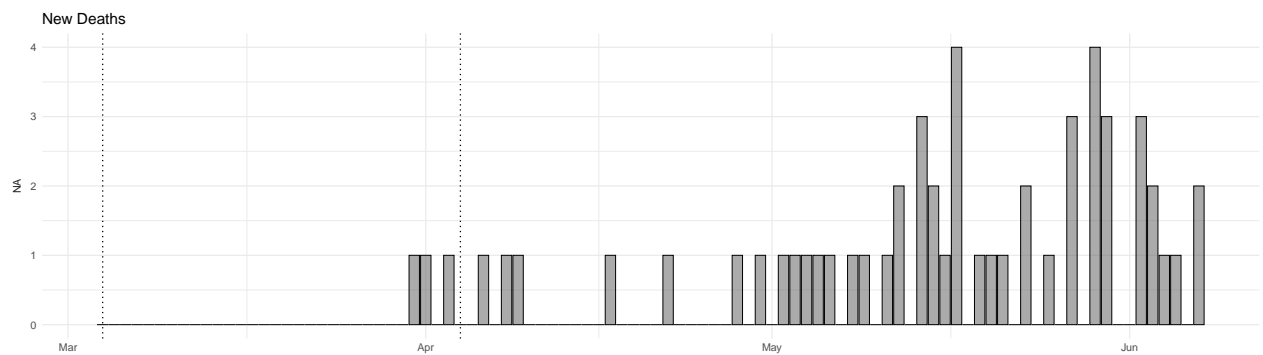


# El Salvador

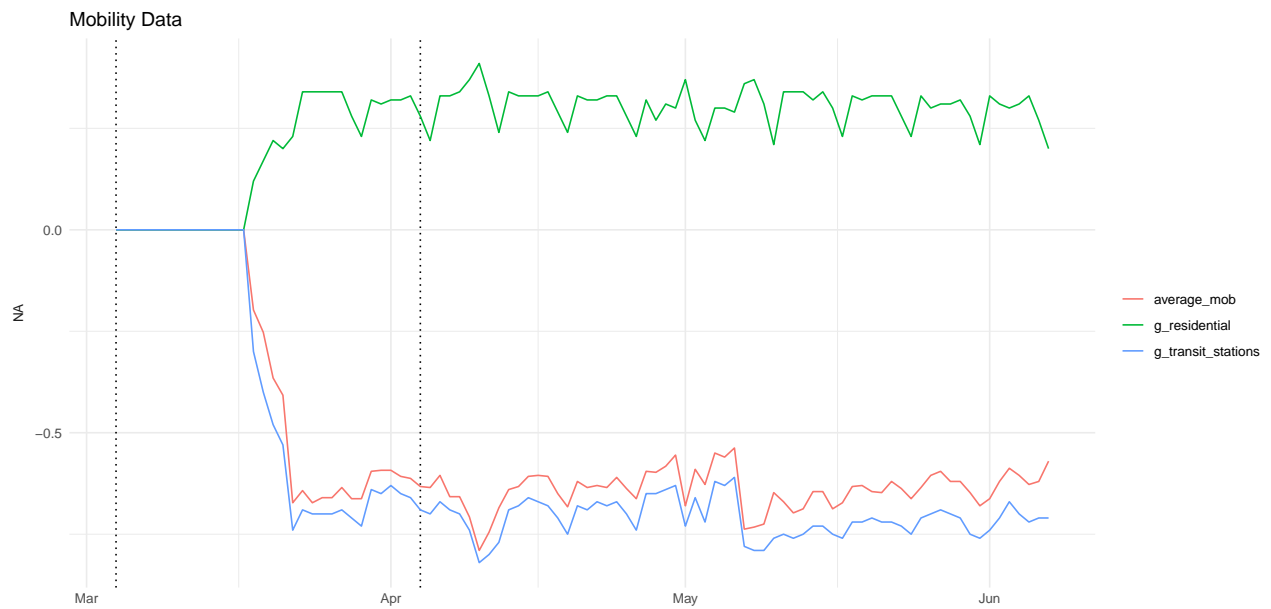
## Data



Vertical dotted lines represent the first seeding day and the epidemic start date.



Vertical dotted lines represent the first seeding day and the epidemic start date.



Vertical dotted lines represent the first seeding day and the epidemic start date.

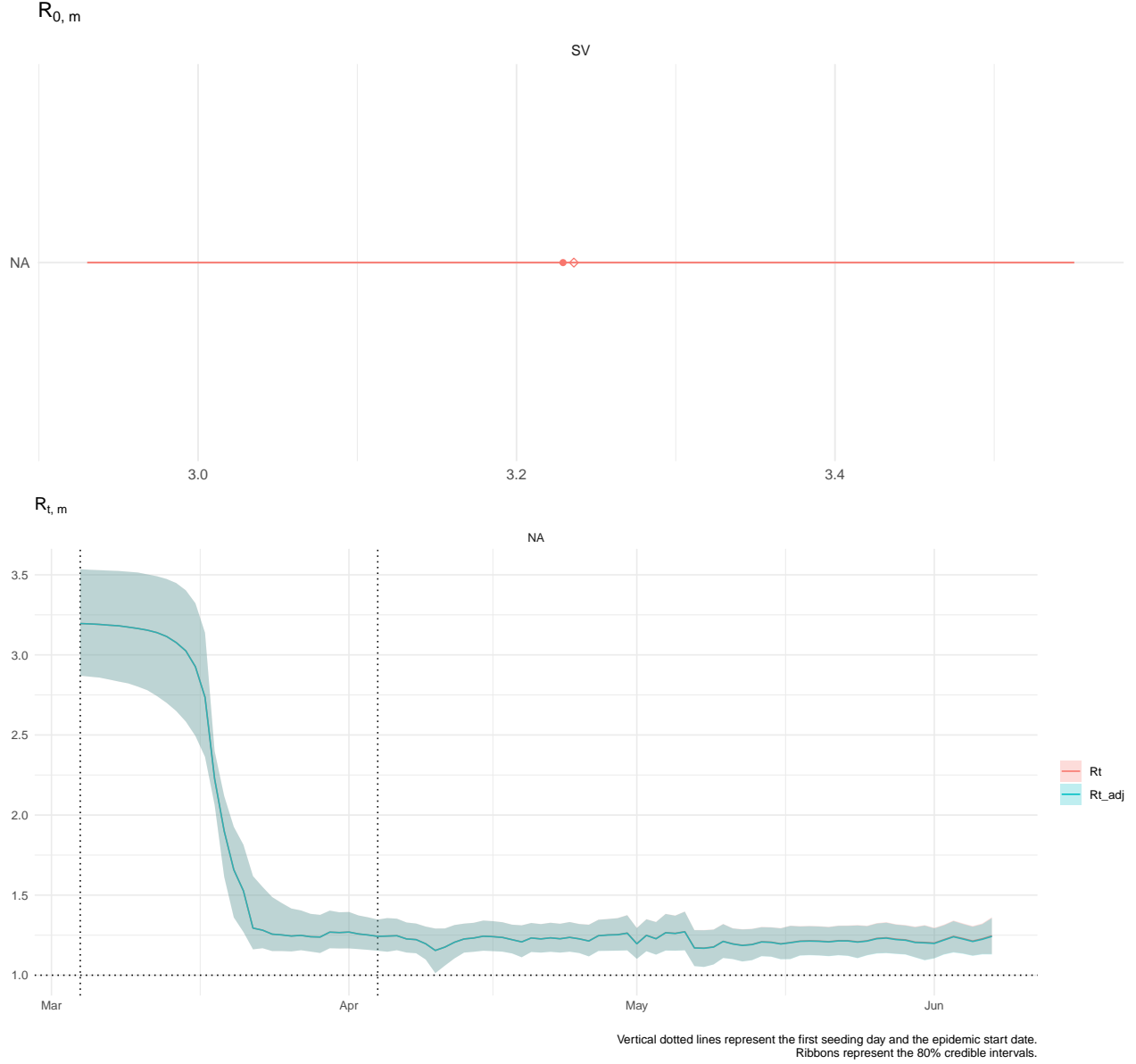
## Analysis

Number of divergent transitions = 0

Maximum  $\hat{R} = 1.004259$

Minimum Bulk ESS = 1247.891

Minimum Tail ESS = 1278.549



Contact rate function:

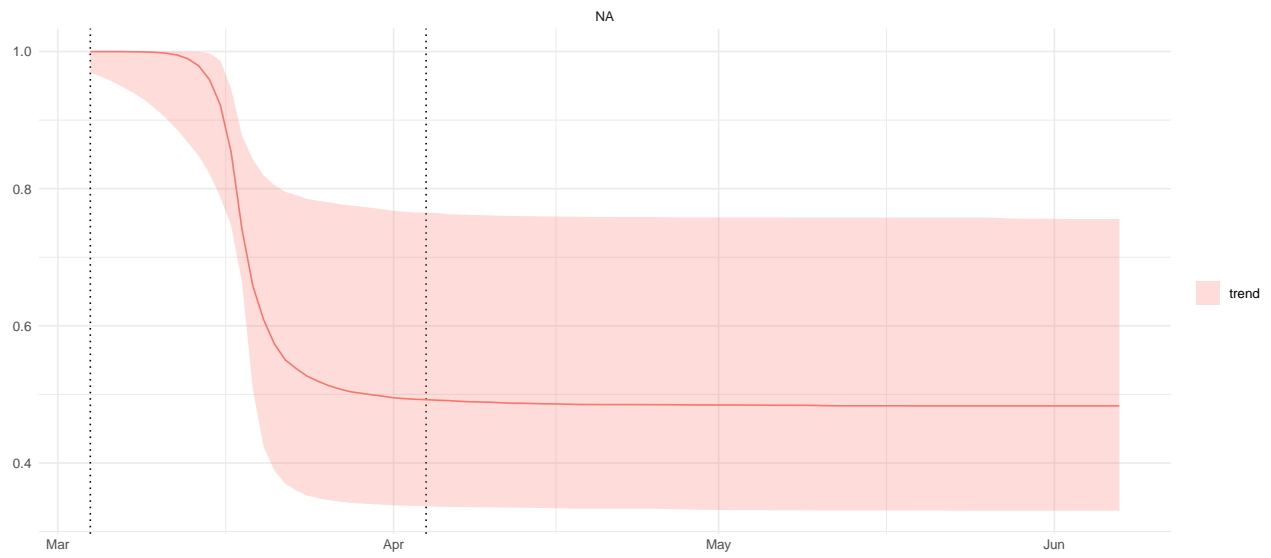
$$cr(t; t^*, \lambda_j, \kappa) = \lambda_j + \frac{1 - \lambda_j}{1 + \exp(\kappa(t - t^*))}$$

where

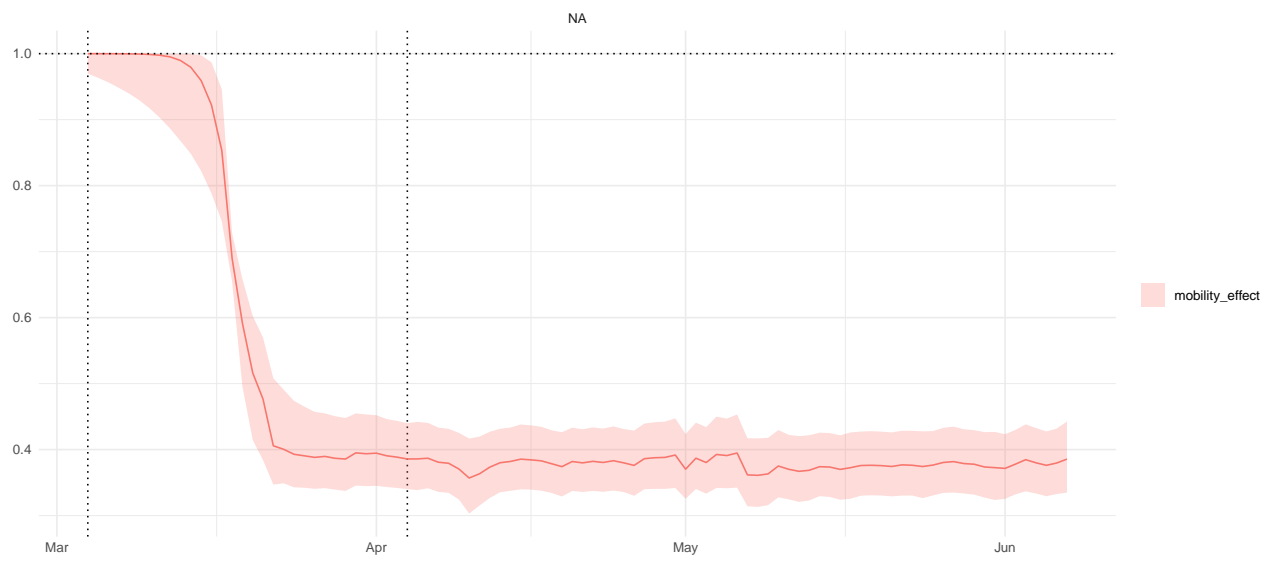
$$\lambda_j \sim \text{Beta}(3, 1)$$

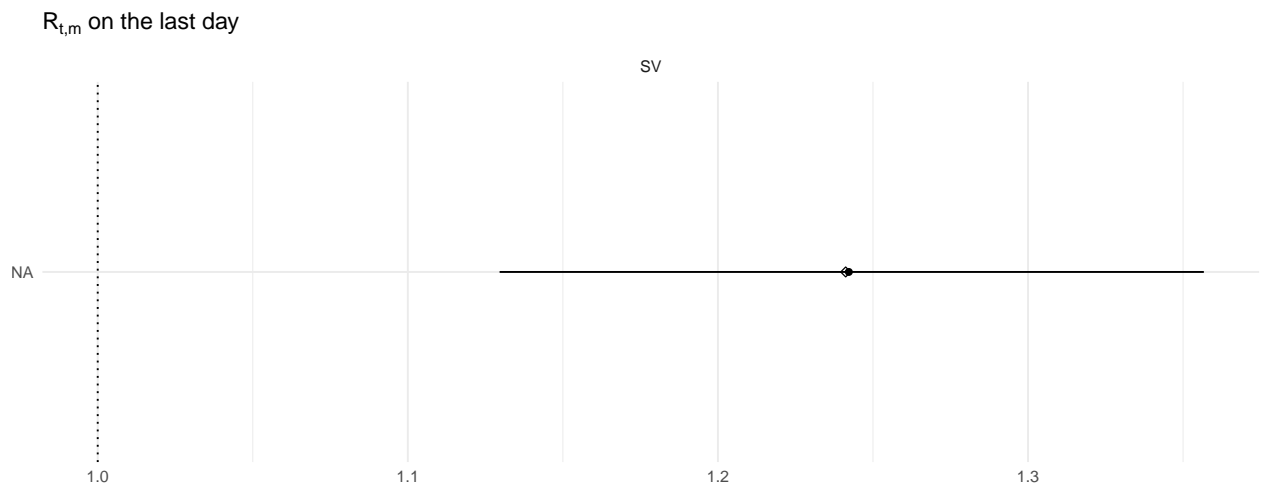
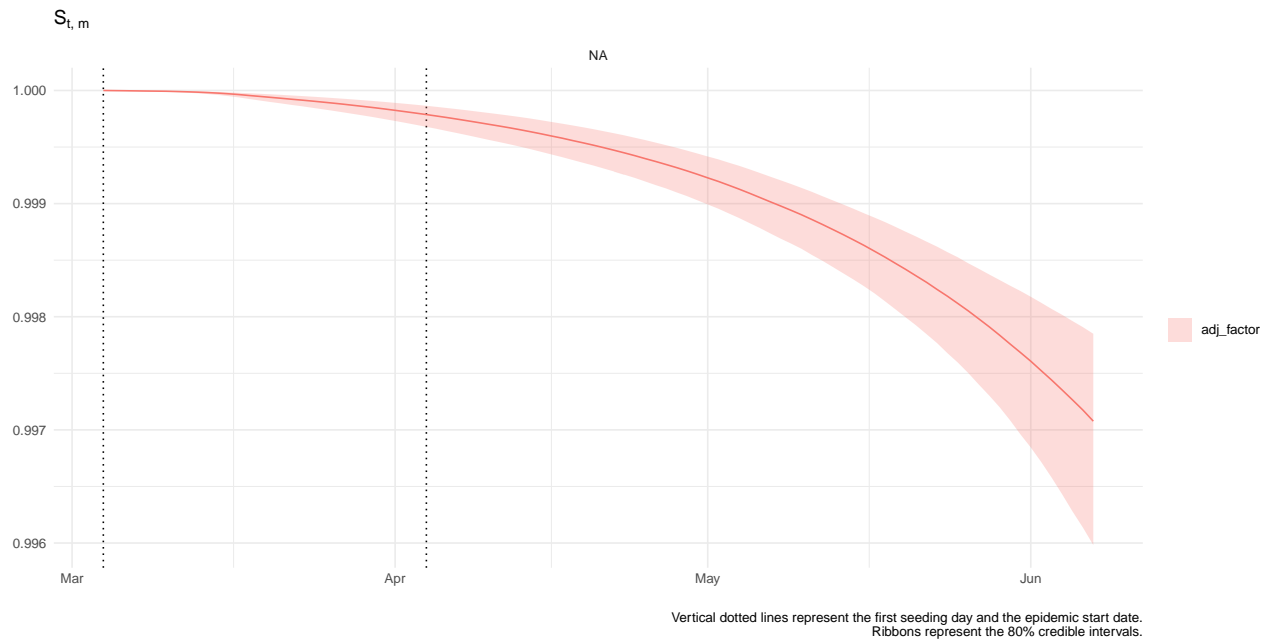
$$\kappa \sim \text{NegHalfNormal}(0, 1).$$

### Contact Rate



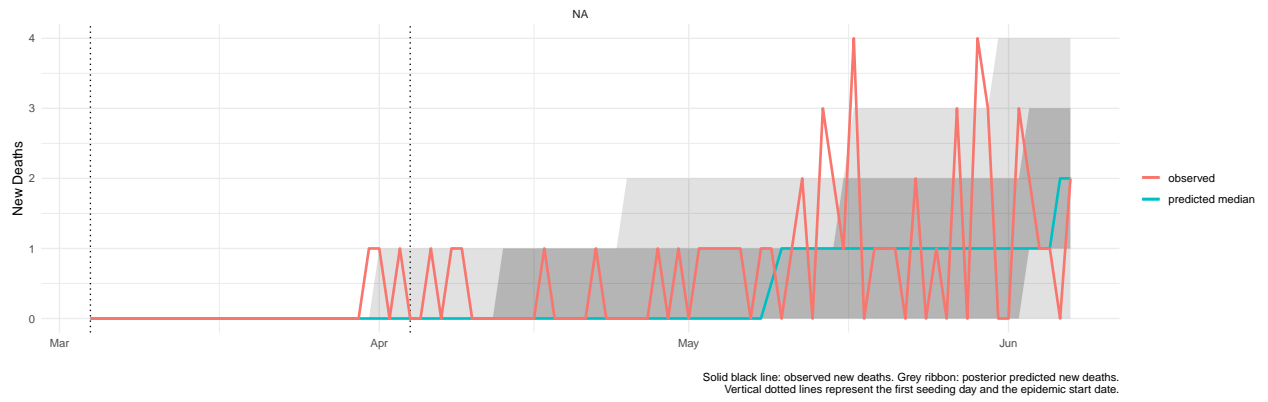
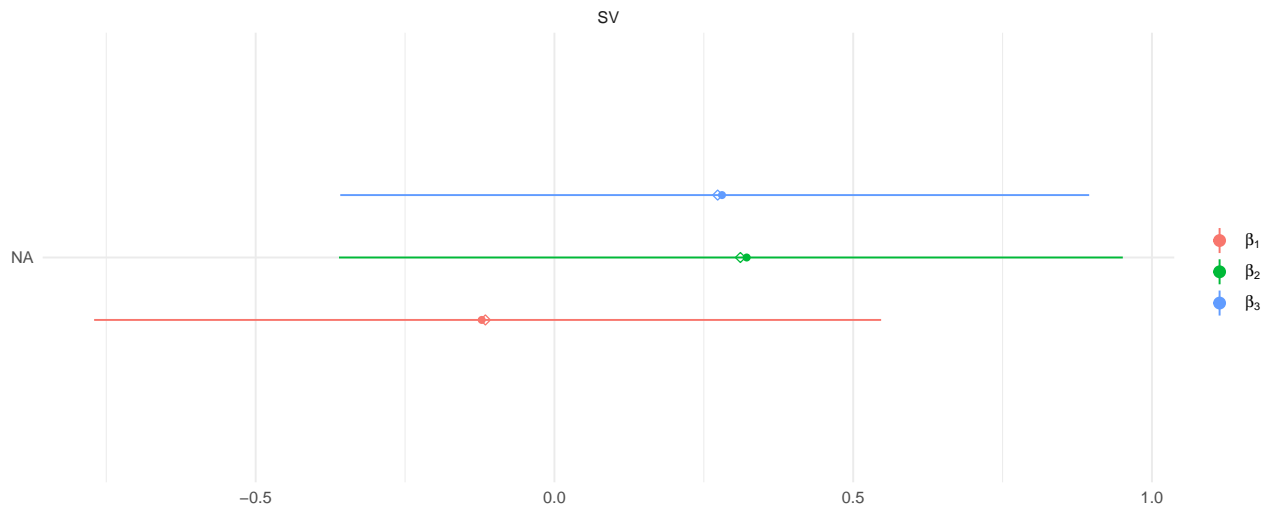
### Mobility effect





Mobility linear model:  $\beta_1 \cdot X_{\text{residential}} + \beta_2 \cdot X_{\text{transit}} + \beta_3 \cdot X_{\text{average}}$ .

$\beta$



Imputed Cases

