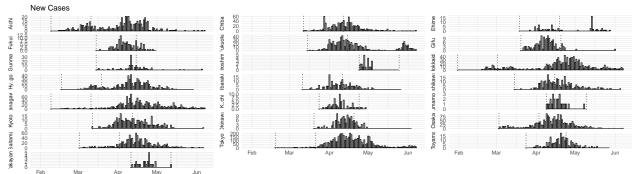
Japan

Data

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Hyōgo' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Hyōgo' in 'mbcsToSbcs': dot substituted for <8d>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Kōchi' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Hyogo' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
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## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
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```

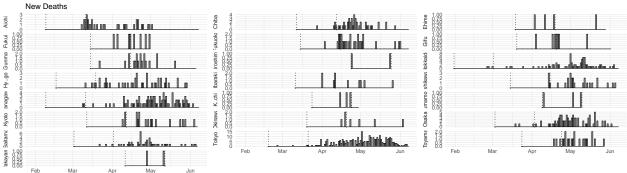
```
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
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```



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

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Hyōgo' in 'mbcsToSbcs': dot substituted for <c5>
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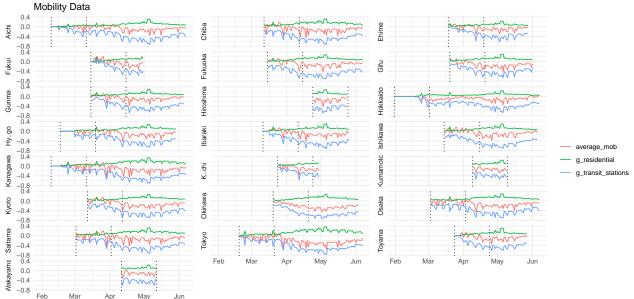
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```



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

```
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```



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

Analysis

Number of divergent transitions = 0

Maximum $\hat{R} = 1.005353$

Minimum Bulk ESS = 1053.962

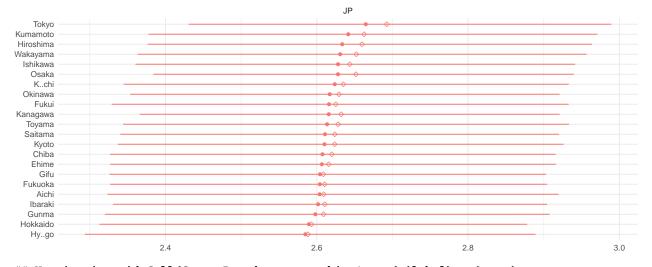
Minimum Tail ESS = 1125.557

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
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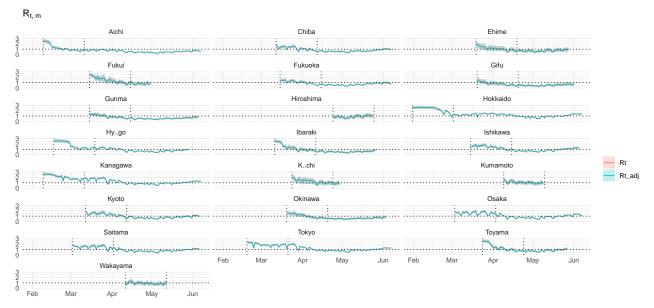
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      R_{0.m}
```



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```



Vertical dotted lines represent the first seeding day and the epidemic start date Ribbons represent the 80% credible intervals

Contact rate function:

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

where

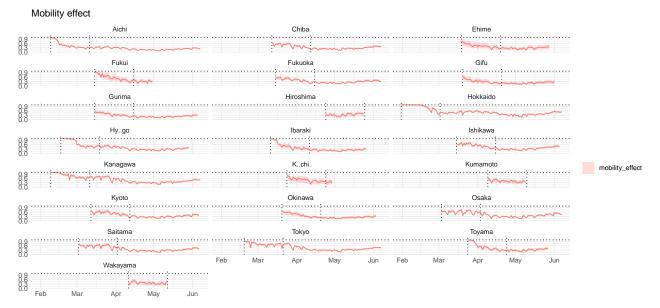
$$\lambda_j \sim \text{Beta}(3,1)$$
 $\kappa \sim \text{NegHalfNormal}(0,1).$

```
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  Contact Rate
               Aichi
                                             Chiba
                                                                           Ehime
               Fukui
                                            Fukuoka
                                                                           Gifu
                                            Hiroshima
                                                                          Hokkaido
               Hy..go
                                             Ibaraki
                                                                          Ishikawa
                                             K..chi
                                                                          Kumamoto
                                                                                             trend
               Kvoto
                                            Okinawa
                                                                           Osaka
                                                                          Toyama
              Saitama
                                             Tokyo
                                                                           Apr
              Wakavama
  Feb
        Mar
               Apr
                     May
                                                      Vertical dotted lines represent the first seeding day and the epidemic start date
Ribbons represent the 80% credible intervals
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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Vertical dotted lines represent the first seeding day and the epidemic start date.

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   S_{t, m}
                                             Chiba
                Aichi
                                                                           Gifu
                Gunma
                                            Hiroshima
                                                                         Hokkaido
                                                                          Ishikawa
                Hy..go
               Kanagawa
                                             K..chi
                                                                         Kumamoto
                                                                                            adj_factor
                Kyoto
                                             Okinawa
                                                                          Osaka
                                              Tokyo
                Saitama
                                                                          Toyama
                                                   May
                                                                           Apı
               Wakayama
    Feh
          Mai
                Apr
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                             .lun
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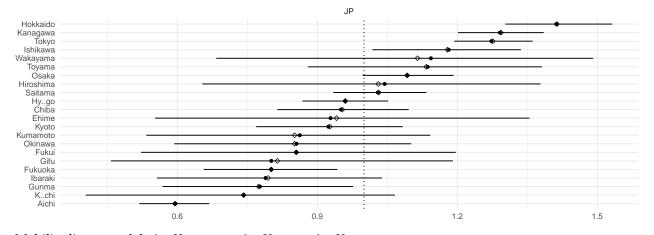
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## conversion failure on 'Hvoqo' in 'mbcsToSbcs': dot substituted for <8d>
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
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R_{t,m} on the last day



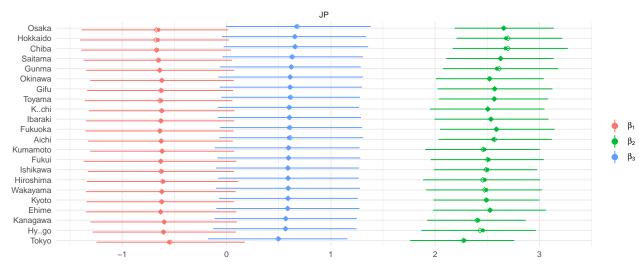
Mobility linear model: $\beta_1 \cdot X_{\text{residential}} + \beta_2 \cdot X_{\text{transit}} + \beta_3 \cdot X_{\text{average}}$.

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Hyōgo' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Hyōgo' in 'mbcsToSbcs': dot substituted for <8d>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Kōchi' in 'mbcsToSbcs': dot substituted for <c5>
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## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Hyōgo' in 'mbcsToSbcs': dot substituted for <c5>
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## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Kōchi' in 'mbcsToSbcs': dot substituted for <c6>
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## conversion failure on 'Kōchi' in 'mbcsToSbcs': dot substituted for <8d>
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## Warning in grid.Call.graphic
```



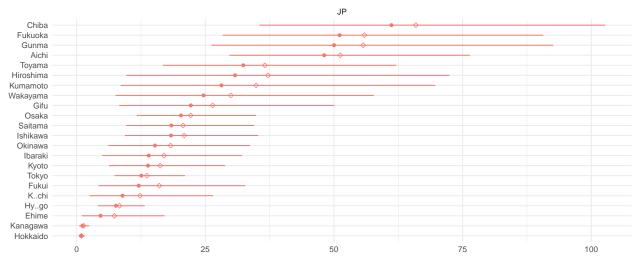
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                Fukui
                                            Fukuoka
                                                                          Gifu
 Á:BB
               Gunma
                                            Hiroshima
                                                                         Hokkaido
  3.8
               Hy..go
                                            Ibaraki
                                                                         Ishikawa
                                            K..chi
               Kanaga
New
  400
                Kyoto
                                            Okinawa
                                                                         Osaka
                               A:8
               Saitama
                                            Tokyo
                                                                         Tovama
                                 Feb
                                            Apr
                                                  May
                                                                         Apr
                                                                                     Jun
               Wakavama
 1:38
                Apr
                                                       Solid black line: observed new deaths. Grey ribbon: posterior predicted new deaths. 
Vertical dotted lines represent the first seeding day and the epidemic start date.
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## conversion failure on 'Kōchi' in 'mbcsToSbcs': dot substituted for <8d>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Hyōgo' in 'mbcsToSbcs': dot substituted for <c5>
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      Imputed Cases
```

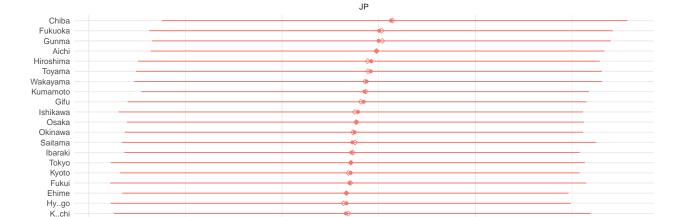


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```



0.020

0.018

Hokkaido Kanagawa

0.016