## Poland

## Data

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   New Cases
 120
80
40
0
reater
 120
80
40
                                                                      150
100
50
                                                                      50
40
30
20
10
0
                                                                    Pomerania
  20
10
                 500
400
300
200
100
```

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

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   New Deaths
reater
                                 1.5
1.0
0.5
ód..
                                 0.0
1.00
0.75
0.50
0.25
0.00
                                                                                    moned m on
                                                                  Vertical dotted lines represent the first seeding day and the epidemic start date
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    Mobility Data
  0.5
Sreater Poland
  0.0
  -0.5
  0.5
  0.0
ód..
  -0.5
  0.5
                                                                                         average mob
  0.0
  -0.5
                                                                                         g_transit_stations
  0.5
Silesia
  0.0
  -0.5
                                 Mar
                                                             Mai
West Pomeranian
  0.5
  0.0
  -0.5
      Mar
```

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

## **Analysis**

```
Number of divergent transitions = 0
```

Maximum  $\hat{R} = 1.536247$ 

Minimum Bulk ESS = 7.118725

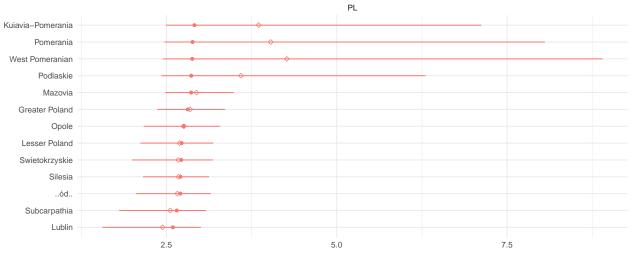
Minimum Tail ESS = 4.466751

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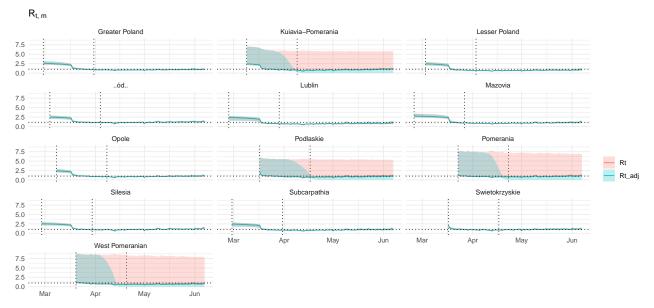
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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```



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

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

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

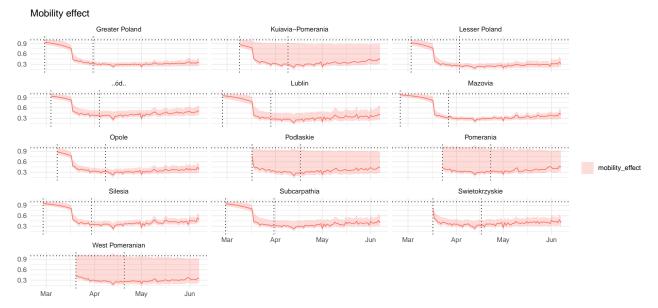
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  Contact Rate
             Greater Poland
                                          Kuiavia-Pomerania
                                                                          Lesser Poland
0.8
0.6
0.4
                ..ód.
                                             Lublin
                                                                           Mazovia
1.0
0.8
0.6
               Opole
                                             Podlaskie
                                                                           Pomerania
1.0
0.8
                                                                                              trend
0.4
               Silesia
                                                                          Swietokrzyskie
1.0
0.8
0.6
                                                                                May
                                                  May
                                                          Jun
                                                                Mar
                                                                                        Jun
            West Pomeranian
1.0
0.6
                   May
                                                      Vertical dotted lines represent the first seeding day and the epidemic start date.

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

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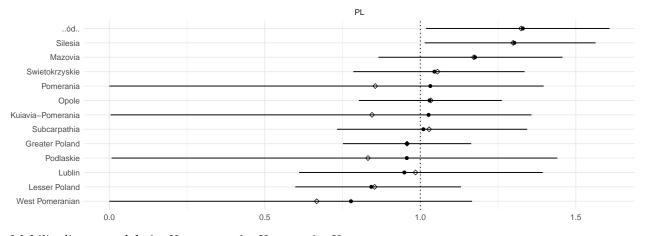
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  S_{t. m}
             Greater Poland
                                          Kuiavia-Pomerania
1.00
0.75
0.50
0.25
                                             Lublin
                .ód.
                                                                          Mazovia
1.00
0.50
0.25
               Opole
                                            Podlaskie
                                                                          Pomerania
1 00
0.75
0.50
                                                                                             adj_factor
                                                                         Swietokrzyskie
               Silesia
                                            Subcarpathia
0.75
0.50
0.25
0.00
                                  Mai
                                          Apr
                                                 May
                                                                                       Jun
             West Pomeranian
1.00
0.75
0.00
    Mar
                    Mav
                                                     Vertical dotted lines represent the first seeding day and the epidemic start date Ribbons represent the 80% credible intervals
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <81>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>
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## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>
```

```
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## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <ba>
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>
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## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <ba>
R<sub>t,m</sub> on the last day
```



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

```
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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, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <ba>
          В
                                                ы
       Lublin
     Mazovia
      Silesia
  Lesser Poland
   Subcarpathia
                                                                                            \beta_1
     Podlaskie
                                                                                            \beta_2
  Swietokrzyskie
                                                                                            \beta_3
       Opole
West Pomeranian
Kuiavia-Pomerania
  Greater Poland
                                  0
## 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 'Łódź' in 'mbcsToSbcs': dot substituted for <ba>

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```
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                ód
                                            Lublin
                                                                        Mazovia
Deaths

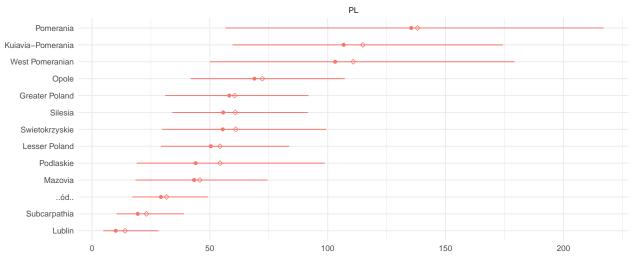
    observed

                                                                                          predicted median
               Silesia
                                           Subcarpathia
                                                                      Swietokrzyskie
             West Pomeraniar
                                                      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
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <81>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <ba>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <81>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <ba>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <81>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <ba>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <81>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <ba>
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <81>
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <ba>
          Imputed Cases
```



```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <81>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <ba/>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
```

```
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <81>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <ba>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <ba>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <81>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <ba>
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## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <81>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <ba>
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## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <81>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <ba>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <81>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <ba>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <81>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <ba>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <81>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <81>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <81>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <ba>
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <81>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <ba>
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <81>
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Łódź' in 'mbcsToSbcs': dot substituted for <ba>
          IFR
```

