A model to study the impact of self-imposed prevention measures and short-term government intervention on mitigating and delaying a COVID-19 epidemic

Clearing memory

```
In[1]:= ClearSystemCache[]
    ClearAll["Global`*"]
    Clear["Subscript"]
    Clear["Superscript"]
    Clear["Subsuperscript"]
```

Model equations

```
In[6]:= eq[Intervention_][1] :=
     S'[t] = -\lambda[Intervention][t]S[t] - k \lambda_{awareness}[t]S[t] + \mu_1 Sa[t]
     eq[Intervention_][2] :=
      EE'[t] == \lambda[Intervention][t] S[t] - \alpha EE[t] - k \lambda_{awareness}[t] EE[t] + \mu_1 EEa[t]
     eq[Intervention][3] := IM'[t] == p \alpha EE[t] - \gamma_1 IM[t] - k \lambda_{awareness}[t] IM[t] + \mu_1 IMa[t]
     eq[Intervention_][4] :=
      IS '[t] = (1-p) \alpha EE[t] - v IS[t] - \lambda_{awareness}[t] IS[t] + \mu_2 ISa[t]
     eq[Intervention_][5] := IQ'[t] = \forall IS[t] - \gamma_2 IQ[t] - \eta IQ[t]
     eq[Intervention_][6] := IQa'[t] == v^a ISa[t] - \gamma_3 IQa[t] - \eta_a IQa[t]
     eq[Intervention_][7] := R'[t] == \gamma_1 IM[t] + \gamma_1 IMa[t] + \gamma_2 IQ[t] + \gamma_3 IQa[t]
     eq[Intervention_][8] := RQ'[t] == \gamma_2 IQ[t] + \gamma_3 IQa[t]
     eq[Intervention_][9] :=
      Sa'[t] == -\lambda_a[Intervention][t] Sa[t] + k \lambda_{awareness}[t] S[t] - \mu_1 Sa[t]
     eq[Intervention_][10] :=
      EEa'[t] == \lambda_a[Intervention][t] Sa[t] - \alpha EEa[t] + k \lambda_{awareness}[t] EE[t] - \mu_1 EEa[t]
     eq[Intervention_][11] :=
      IMa'[t] = p \alpha EEa[t] - \gamma_1 IMa[t] + k \lambda_{awareness}[t] IM[t] - \mu_1 IMa[t]
     eq[Intervention_][12] :=
      ISa'[t] == (1-p) \alpha \text{EEa}[t] - v^a \text{ISa}[t] + \lambda_{\text{awareness}}[t] \text{IS}[t] - \mu_2 \text{ISa}[t]
     eq[Intervention_][13] := DD'[t] == \eta IQ[t] + \eta_a IQa[t]
     eq[Intervention_][14] := DDQ'[t] == \eta IQ[t]
     eq[Intervention_][15] := DDQa'[t] == \eta_a IQa[t]
     eq[Intervention_][16] := RM'[t] == \gamma_1 IM[t] - k \lambda_{awareness}[t] RM[t] + \mu_1 RMa[t]
     eq[Intervention_][17] := RMa '[t] == \gamma_1 IMa[t] + k \lambda_{awareness}[t] RM[t] - \mu_1 RMa[t]
```

Numer of variables in the model (including deceased individuals)

```
In[23]:= numvar = 17
           eqs[Intervention_] := Table[eq[Intervention][i], {i, 1, numvar}]
           lhs[Intervention] := eqs[Intervention] [All, 1];
           rhs[Intervention_] := eqs[Intervention] [All, 2];
           TableForm[eqs[Intervention]]
 Out[23]= 17
Out[27]//TableForm=
          S'[t] = Sa[t] \mu_1 - k S[t] \lambda_{awareness}[t] - S[t] \lambda[Intervention][t]
          \texttt{EE}'[\texttt{t}] = -\alpha\,\texttt{EE}[\texttt{t}] + \texttt{EEa}[\texttt{t}]\,\,\mu_{\texttt{l}} - \texttt{k}\,\,\texttt{EE}[\texttt{t}]\,\,\lambda_{\texttt{awareness}}[\texttt{t}] + \texttt{S}[\texttt{t}]\,\,\lambda[\texttt{Intervention}]\,[\texttt{t}]
           IM'[t] = p \alpha EE[t] - IM[t] \gamma_1 + IMa[t] \mu_1 - k IM[t] \lambda_{awareness}[t]
           IS'[t] = (1-p) \alpha EE[t] - v IS[t] + ISa[t] \mu_2 - IS[t] \lambda_{awareness}[t]
           IQ'[t] = -\eta IQ[t] + \gamma IS[t] - IQ[t] \gamma_2
           IQa'[t] = \gamma^a ISa[t] - IQa[t] \gamma_3 - IQa[t] \eta_a
          R'[t] = IM[t] \gamma_1 + IMa[t] \gamma_1 + IQ[t] \gamma_2 + IQa[t] \gamma_3
          RQ'[t] = IQ[t] \gamma_2 + IQa[t] \gamma_3
           Sa'[t] = -Sa[t] \mu_1 + k S[t] \lambda_{awareness}[t] - Sa[t] \lambda_a[Intervention][t]
           \texttt{EEa'[t]} = -\alpha \, \texttt{EEa[t]} - \texttt{EEa[t]} \, \, \mu_1 + \texttt{k} \, \texttt{EE[t]} \, \, \lambda_{\texttt{awareness}} \texttt{[t]} + \texttt{Sa[t]} \, \, \lambda_{\texttt{a}} \texttt{[Intervention][t]}
           IMa'[t] = p \alpha EEa[t] - IMa[t] \gamma_1 - IMa[t] \mu_1 + k IM[t] \lambda_{awareness}[t]
           ISa'[t] = (1-p) \alpha EEa[t] - v^a ISa[t] - ISa[t] \mu_2 + IS[t] \lambda_{awareness}[t]
           DD'[t] = \eta IQ[t] + IQa[t] \eta_a
           DDQ'[t] = \eta IQ[t]
           DDQa'[t] = IQa[t] \eta_a
           \mathtt{RM'[t]} = \mathtt{IM[t]} \ \gamma_1 + \mathtt{RMa[t]} \ \mu_1 - \mathtt{k} \ \mathtt{RM[t]} \ \lambda_{\mathtt{awareness}}[\mathtt{t}]
           RMa'[t] = IMa[t] \gamma_1 - RMa[t] \mu_1 + k RM[t] \lambda_{awareness}[t]
```

Model variables

```
\label{eq:local_local_local} $$ \ln[28] = \mbox{ vars = } \{S[t], \mbox{ EE[t], IM[t], IS[t], IQ[t], IQa[t], R[t], RQ[t], R[t], R
                                                                                                                     Sa[t], EEa[t], IMa[t], ISa[t], DD[t], DDQ[t], DDQa[t], RM[t], RMa[t]}
Out[28] = \{S[t], EE[t], IM[t], IS[t], IQ[t], IQa[t], R[t], RQ[t], Sa[t], A[t], A[t
                                                                                                   EEa[t], IMa[t], ISa[t], DD[t], DDQ[t], DDQa[t], RM[t], RMa[t]}
```

Total population size N(t) is not constant due to disease-related mortality

```
In[29]:= NN[t] = S[t] + EE[t] + IM[t] + IS[t] +
                                                                                                                                                IQ[t] + IQa[t] + R[t] + Sa[t] + EEa[t] + IMa[t] + ISa[t]
\texttt{Out} \texttt{[29]=} \ \ \texttt{EE} \ [\texttt{t}] \ + \ \texttt{EE} \ a \ [\texttt{t}] \ + \ \texttt{IM} \ [\texttt{t}] \ + \ \texttt{IM} \ a \ [\texttt{t}] \ + \ \texttt{IQ} \ [\texttt{t}] \ + \ \texttt{IS} \ [\texttt{t}] \ + \ \texttt{IS} \ [\texttt{t}] \ + \ \texttt{R} \ [\texttt{t}] \ + \ \texttt{S} \ [\texttt
```

Awareness acquisition rate $\lambda_{awareness}$ (t)

```
ln[30] = \lambda_{awareness}[t] = \delta (IQ[t] + IQa[t])
Out[30]= \delta (IQ[t] + IQa[t])
```

Vector of infectious individuals

```
in[31]:= VecInf = {IM[t], IS[t], IMa[t], ISa[t]}
Out[31]= { IM[t], IS[t], IMa[t], ISa[t] }
```

Transmission matrix for self-imposed measures and government intervention

Model with disease-awareness and without interventions

```
In[32]:= TrMatrix[Intervention_ /; Intervention == "Baseline"] :=
           \frac{\beta}{(\mathtt{NN[t]} - \mathtt{IQ[t]} - \mathtt{IQa[t]})} \left\{ \{\sigma, 1, \sigma, 1\}, \{\sigma, 1, \sigma, 1\} \right\}
```

Model with disease-awareness and mask-wearing

```
In[33]:= TrMatrix[Intervention_ /; Intervention == "Mask"] :=
                                     = \{ \{\sigma, 1, r_1 \sigma, r_1\}, \{\sigma, 1, r_1 \sigma, r_1\} \}
        (NN[t] - IQ[t] - IQa[t])
```

Model with disease-awareness and handwashing

```
In[34]:= TrMatrix[Intervention_ /; Intervention == "Hand"] :=
                                      -\{\{\sigma, 1, \sigma, 1\}, \{r_2 \sigma, r_2, r_2 \sigma, r_2\}\}
        (NN[t] - IQ[t] - IQa[t])
```

Model with disease-awareness and self-imposed social distancing

```
In[35]:= TrMatrix[Intervention_ /; Intervention == "ContactReductionIndividuals"] :=
       \beta / (S[t] + EE[t] + IM[t] + IS[t] + RQ[t] +
             RM[t] + r_3 (Sa[t] + EEa[t] + IMa[t] + ISa[t] + RMa[t]))
         \{ \{ \sigma, 1, r_3 \sigma, r_3 \}, \{ r_3 \sigma, r_3, (r_3)^2 \sigma, (r_3)^2 \} \}
```

Model with disease-awareness and government-imposed social distancing

```
In[36]:= TrMatrix[Intervention_ /; Intervention == "ContactReductionGovernment"] :=
         (\beta \text{ If } [t \ge \text{StartTime \&\& } t \le (\text{StopTime} + \text{StartTime}), r_4, 1]) / (\text{NN[t]} - \text{IQ[t]} - \text{IQa[t]})
          \{\{\sigma, 1, \sigma, 1\}, \{\sigma, 1, \sigma, 1\}\}
```

Model with disease-awareness, government-imposed social distancing and handwashing

```
In[37]:= TrMatrix[Intervention_ /; Intervention == "GovernmentAndHand"] :=
         (\beta \text{ If } [t \ge \text{StartTime \&\& } t \le (\text{StopTime} + \text{StartTime}), r_4, 1]) / (\text{NN[t]} - \text{IQ[t]} - \text{IQa[t]})
           \{\{\sigma, 1, \sigma, 1\}, \{r_2 \sigma, r_2, r_2 \sigma, r_2\}\}
```

Force of infection for unaware $\lambda(t)$

```
| In[38]:= λ[Intervention_][t] := (TrMatrix[Intervention].VecInf)[[1]
```

Force of infection for disease-aware $\lambda_a(t)$

```
ln[39]:= \lambda_a[Intervention_][t] := (TrMatrix[Intervention].VecInf)[2]
```

Epidemiological parameters of the model

Average contact rate (unique persons), I/year

In[40]:= AverageContactRate = c \rightarrow 13.85 \times 365

Out[40]= $c \rightarrow 5055.25$

Relative infectivity of mildly infected

ln[41]:= RelativeInfectivity = $\sigma \rightarrow 0.5$

Out[41]= $\sigma \rightarrow 0.5$

I/latent period, I/year

ln[42]:= RateInfectiousnessOnset = $\alpha \rightarrow 365 / 4$

Out[42]= $\alpha \rightarrow \frac{365}{4}$

Proportion of mildly infected

ln[43]:= ProportionMildSymptoms = p \rightarrow 0.82

Out[43]= $p \rightarrow 0.82$

I/recovery period of mildly infected, I/year

ln[44]:= RecoveryRateMildSymptoms = $\gamma_1 \rightarrow 365 / 7$

Out[44]= $\gamma_1 \rightarrow \frac{365}{7}$

I/delay from onset of infectiousness to diagnosis for individuals with severe symptoms, I/year

ln[45]:= DiagnosisRate = $v \rightarrow 365 / 5$

Out[45]= $V \rightarrow 73$

I/delay from diagnosis to recovery for diagnosed unaware, I/year

ln[46]:= RecoveryRateSevereSymptomsUnaware = $\gamma_2 \rightarrow 365 / 14$

 $\text{Out[46]= } \gamma_2 \rightarrow \frac{365}{14}$

Case fatality rate of unaware diagnosed

ln[47]:= FatalityRateUnaware = f \rightarrow 0.016

 $\text{Out[47]= } \textbf{f} \, \rightarrow \, \textbf{0.016}$

Disease-associated death rate of unaware diagnosed, I/year

```
In[48]:= DeathRateDiagnosedUnaware =
        \eta \rightarrow \gamma_2 f / (1 - f) / . \{RecoveryRateSevereSymptomsUnaware, FatalityRateUnaware\}
Out[48]= \eta 
ightarrow 0.423926
```

Basic reproduction number

```
ln[49]:= BasicReproductionNumber = R_0 \rightarrow 2.5
Out[49]= R_0 \rightarrow 2.5
```

Probability of transmission per contact with infectious with severe symptoms

```
In [50]:= Transmission Probability = Solve \left[R_0 = \frac{p \beta \sigma}{\gamma_1} + \frac{(1-p) \beta}{\gamma_1} / . \beta \rightarrow c \in , \epsilon\right] [[1, 1]] / .
           {ProportionMildSymptoms, AverageContactRate, RelativeInfectivity,
            RecoveryRateMildSymptoms, DiagnosisRate, BasicReproductionNumber}
Out[50]= \epsilon \rightarrow 0.0478794
```

Transmission rate of infection via contact with infectious with severe symptoms, I/year

```
\log 1 TransmissionRate = \beta \rightarrow c \epsilon /. {AverageContactRate, TransmissionProbability}
Out[51]= \beta \rightarrow 242.042
```

Disease-awareness parameters of the model

Rate of awareness acquisition, I/year

```
ln[52]:= AcquisitionRateAwarenessBaseline = 1(*5 10^(-5)*)(* \delta *)
Out[52]= 1
```

Relative susceptibility to awareness acquisition for susceptible, exposed, infectious with mild symptoms and recovered after a mild infection

```
In[53]:= RelativeSusceptibilityAwarenessBaseline = 0.5 (* k *)
Out[53]= 0.5
```

Rate of awareness fading for individuals who are susceptible, exposed, infectious with mild symptoms and recovered after a mild infection, 1/year

```
_{	ext{ln}[54]:=} RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline = 365 / 30 (* \mu_1 *)
Out[54]=
```

Rate of awareness fading for individuals with severe symptoms, I/year

 $_{\text{ln}[55]:=}$ RateAwarenessFadingSevereSymptomsBaseline = 365 / 60 (* μ_2 *) Out[55]=

I/delay from onset of infectiousness to diagnosis for disease-aware with severe symptoms, I/year

ln[56]:= DiagnosisRateAwareBaseline = 365/3 (* v^a *) Out[56]= 365

I/delay from diagnosis to recovery of diagnosed aware, I/year

ln[57]:= RecoveryRateSevereSymptomsAware = $\gamma_3 \rightarrow 365 / 12$

Out[57]= $\gamma_3 \rightarrow \frac{365}{}$

Case fatality rate of aware diagnosed

ln[58]:= FatalityRateAware = $f_a \rightarrow 0.01$ Out[58]= $f_a \rightarrow 0.01$

Disease-associated death rate of aware diagnosed, I/year

In[59]:= DeathRateDiagnosedAware = $\eta_a \rightarrow \gamma_3 f_a / (1 - f_a) / . \{RecoveryRateSevereSymptomsAware, FatalityRateAware\}$ Out[59]= $\eta_a
ightarrow 0.307239$

Prevention measures parameters of the model

Duration of government intervention, years

In[60]:= **StopTime** = 3 / 12;

Threshold for initiation of government intervention (10 diagnosed individuals in this notebook) Please note that if the threshold for initiation of government intervention is larger than 10 individuals, StartTime can be different for fast and slow spread of awareness (Check it!)

In[61]:= StartTimeBaseline = 0.1037;

Parameters of the model

```
In[62]:= Parameters [RelativeSusceptibilityAwareness_,
       RateAwarenessFadingSusceptibleExposedMildSymptoms_,
       RateAwarenessFadingSevereSymptoms_, TransmissionRateAwareness_,
       DiagnosisRateAware_, StartTimeValue_] :=
      {AverageContactRate, RelativeInfectivity, RateInfectiousnessOnset,
       ProportionMildSymptoms, RecoveryRateMildSymptoms, DiagnosisRate,
       {\tt RecoveryRateSevereSymptomsUnaware, RecoveryRateSevereSymptomsAware,}
       FatalityRateUnaware, FatalityRateAware, DeathRateDiagnosedUnaware,
       DeathRateDiagnosedAware, BasicReproductionNumber, TransmissionProbability,
       TransmissionRate, k \rightarrow RelativeSusceptibilityAwareness,
       \mu_1 \rightarrow RateAwarenessFadingSusceptibleExposedMildSymptoms,
       \mu_2 \rightarrow RateAwarenessFadingSevereSymptoms, \delta \rightarrow TransmissionRateAwareness,
       v^a \rightarrow DiagnosisRateAware, StartTime \rightarrow StartTimeValue
```

Solving differential equations

Start time, year

```
In[63]:= tstart = 0
Out[63]= 0
```

End time, year

```
ln[64] = t_{end} = 2.5;
```

Total population size at the beginning of an outbreak

```
In[65]:= Ntot = 17 \times 10^6
Out[65]= 17 000 000
```

Initial number of infected individuals

```
In[66]:= InfInit = 1
Out[66]= 1
```

Number of points per day for discretization of the solution

```
In[67]:= spacing = 20;
```

Initial conditions

```
In[68]:= ics = Table[ic[i], {i, 1, numvar}];
       ic[1] = (Ntot - InfInit) = vars[1] /. {t \rightarrow t_{start}}
       ic[2] = 0 = vars[2] /. \{t \rightarrow t_{start}\}
       ic[3] = 0 = vars[3] /. \{t \rightarrow t_{start}\}
       ic[4] = InfInit = vars[4] /. \{t \rightarrow t_{start}\}
       ic[5] = 0 = vars[5] /. {t \rightarrow t<sub>start</sub>}
       ic[6] = 0 = vars[6] /. \{t \rightarrow t_{start}\}
       ic[7] = 0 = vars[7] /. \{t \rightarrow t_{start}\}
       ic[8] = 0 = vars[8] /. \{t \rightarrow t_{start}\}
       ic[9] = 0 = vars[9] /. \{t \rightarrow t_{start}\}
       ic[10] = 0 = vars[10] /. \{t \rightarrow t_{start}\}
       ic[11] = 0 = vars[11] /. {t \rightarrow t<sub>start</sub>}
       ic[12] = 0 = vars[12] /. \{t \rightarrow t_{start}\}
        ic[13] = 0 = vars[13] /. \{t \rightarrow t_{start}\}
        ic[14] = 0 = vars[14] /. \{t \rightarrow t_{start}\}
        ic[15] = 0 = vars[15] /. {t \rightarrow t_{start}}
        ic[16] = 0 = vars[16] /. \{t \rightarrow t_{start}\}
        ic[17] = 0 = vars[17] /. {t \rightarrow t_{start}}
Out[69]= 16999999 == S[0]
Out[70]= 0 == EE[0]
Out[71]= 0 = IM[0]
Out[72]= 1 = IS[0]
Out[73]= 0 = IQ[0]
Out[74]= 0 == IQa[0]
Out[75]= 0 == R[0]
Out[76]= 0 == RQ [0]
Out[77] = 0 = Sa[0]
Out[78]= 0 == EEa[0]
Out[79]= 0 == IMa[0]
Out[80]= 0 = ISa[0]
\mathsf{Out}[81] = \ 0 \ = \ DD \ [\ 0\ ]
Out[82]= 0 == DDQ [0]
Out[83]= 0 == DDQa[0]
Out[84]= 0 = RM [0]
Out[85]= 0 = RMa[0]
```

Solution

```
In[86]:= solution[Intervention_, Parameters_] :=
        NDSolve[Join[eqs[Intervention], ics] /. Parameters, vars, {t, t<sub>start</sub>, t<sub>end</sub>}];
```

Computing peak number of diagnoses per 1000 persons

```
In[87]:= Peak[Intervention_, Parameters_] :=
       Max[Flatten[Table[Evaluate[(1000 (IQ[t] + IQa[t]) / NN[t]) /. First@solution[
                 Intervention, Parameters]], {t, t<sub>start</sub>, t<sub>end</sub>, 1 / (t<sub>end</sub> 364 spacing)}]]]
```

Model without disease-awareness

```
ln[88]:= PeakBaseline = Peak["Baseline", Parameters[0, 0, 0, 0, 0, 0]]
Out[88]= 45.7976
```

Model with disease-awareness, no measures

```
In[89]:= PeakAwareness =
      Peak["Baseline", Parameters[RelativeSusceptibilityAwarenessBaseline,
        RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
        RateAwarenessFadingSevereSymptomsBaseline, AcquisitionRateAwarenessBaseline,
        DiagnosisRateAwareBaseline, StartTimeBaseline]]
Out[89]= 37.0119
```

Model with disease-awareness and handwashing with 30% efficacy

```
{\scriptstyle \mathsf{In}[90]:=} \ \ \textbf{PeakHand} \ = \ \textbf{Peak} \ ["\texttt{Hand}", \ \texttt{Join} \ [\texttt{Parameters} \ [\texttt{RelativeSusceptibilityAwarenessBaseline}, \ \texttt{PeakHand} \ ]
               {\tt Rate Awareness Fading Susceptible Exposed Mild Symptoms Baseline,}
               RateAwarenessFadingSevereSymptomsBaseline,
               AcquisitionRateAwarenessBaseline,
               \label{eq:diagnosis} \textbf{DiagnosisRateAwareBaseline}, \ \{\textbf{r}_2 \rightarrow \ \textbf{0.7}\}]]
Out[90]= 15.884
```

Computing time until the peak number of diagnoses since the first case (days)

```
In[91]:= PeakTiming[Intervention_, Parameters_] :=
        365 \times 1 / (t_{end} 364 \text{ spacing}) + 1) \text{ ReplaceAll}
            Ordering \big[ Flatten \big[ Table \big[ Evaluate [ \, (1000 \, (IQ[t] + IQa[t]) \, / \, NN[t]) \, /. \, First@ \\
                       solution[Intervention, Parameters]],
                   \{t, t_{start}, t_{end}, 1/(t_{end} 364 \text{ spacing})\}], -1][1],
             (x_/; x = Length[Table[t, \{t, t_{start}, t_{end}, 1/(t_{end} 364 spacing)\}]]) \rightarrow 0] // N
```

Model without disease-awareness

```
| In[92]:= PeakTimingBaseline = PeakTiming["Baseline", Parameters[0, 0, 0, 0, 0, 0]]
Out[92]= 155.417
```

Model with disease-awareness, no measures

```
In[93]:= PeakTimingAwareness =
      PeakTiming["Baseline", Parameters[RelativeSusceptibilityAwarenessBaseline,
        RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
        RateAwarenessFadingSevereSymptomsBaseline, AcquisitionRateAwarenessBaseline,
        DiagnosisRateAwareBaseline, StartTimeBaseline]]
Out[93]= 162.797
```

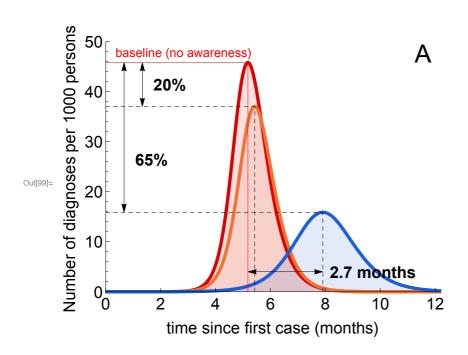
Model with disease-awareness and handwashing with 30% efficacy

```
In[94]:= PeakTimingHand =
      PeakTiming["Hand", Join[Parameters[RelativeSusceptibilityAwarenessBaseline,
          RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
          RateAwarenessFadingSevereSymptomsBaseline,
          AcquisitionRateAwarenessBaseline,
          DiagnosisRateAwareBaseline, StartTimeBaseline], \{r_2 \rightarrow 0.7\}]]
Out[94] = 237.297
```

Plotting Figure 3 A (main text)

```
ln[95]:= imagePadding = {{47.5, 5}, {60, 22.5}};
    ymax = 50;
    tmax = 1;
     PlotFigure3A[vars_, ylabs_, scenario_] :=
      Table Show Plot [{Evaluate [vars [i]] /. solution ["Baseline",
                Parameters[0, 0, 0, 0, 0, 0]]], Evaluate[vars[i]] /.
              solution[scenario, Parameters[RelativeSusceptibilityAwarenessBaseline,
                 RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
                 RateAwarenessFadingSevereSymptomsBaseline,
                 AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
                 StartTimeBaseline]]], Evaluate[vars[i]] /. solution["Hand",
                Join[Parameters[RelativeSusceptibilityAwarenessBaseline,
                  RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
                  RateAwarenessFadingSevereSymptomsBaseline,
                  AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
                  StartTimeBaseline], \{r_2 \rightarrow 0.7\}]]]},
           \{t, t_{start}, tmax\}, AspectRatio \rightarrow 0.75, ImageSize \rightarrow 400,
           PlotRangePadding → None,
           Filling \rightarrow Axis,
           PlotRange \rightarrow \{\{0, All\}, \{0, ymax\}\},\
           AxesOrigin \rightarrow \{0, 0\},
           Frame → {{True, False}, {True, False}},
           FrameStyle → Directive[Black, 17],
           PlotStyle \rightarrow {{Thickness[0.01], RGBColor[217 / 255, 0, 0]},
             {Thickness[0.01], RGBColor[241/255, 115/255, 51/255]},
             {Thickness[0.01], RGBColor[26 / 255, 94 / 255, 214 / 255]}},
           FillingStyle -> Directive[Opacity[0.125]],
           ImagePadding → imagePadding,
           (*PlotLegends→Placed[{Table[Style[Row[{label}],Black,13,"Text"],{label,
                 {"Model without awareness", "Model with awareness, no measures",
                  "Model with awareness and handwashing with 30% efficacy"}}]},
             Bottom], *)FrameLabel → {{ylabs[[i]], None},
             {"time since first case (months)", None}},
           FrameTicks \rightarrow {{Automatic, None}, {{{0, "0"}, {60 / 365, "2"},
```

```
\{120 \ / \ 365, \ "4"\}, \{180 \ / \ 365, \ "6"\}, \{240 \ / \ 365, \ "8"\},
           {300 / 365, "10"}, {360 / 365, "12"}}, None}}],
    Graphics [\{\text{Red}, \text{Line} | \{\{\text{PeakTimingBaseline} / 365, 0\}, \}
          {PeakTimingBaseline / 365, PeakBaseline}}]}], Graphics[
      {Red, Line[{{0, PeakBaseline}, {PeakTimingBaseline/365, PeakBaseline}}]}],
    Graphics [{Black, Dashed, Line [{PeakTimingAwareness / 365, 0},
          \{PeakTimingAwareness / 365, PeakAwareness \}\}\}\}, Graphics[\{Black, Dashed, Continuous Awareness / 365, PeakAwareness \}\}\}
       Line[{{0, PeakAwareness}, {PeakTimingAwareness/365, PeakAwareness}}]}]}],
    Graphics [{Black, Dashed, Line[{PeakTimingHand/365, 0},
          {PeakTimingHand / 365, PeakHand}}]]], Graphics
      {Black, Dashed, Line[\{\{0, PeakHand\}, \{PeakTimingHand / 365, PeakHand\}\}\}]\}],
    Graphics [Text[StyleForm["A", FontSize \rightarrow 26], {1 * 0.95, ymax * 0.95}]],
    Graphics[{Black, Arrowheads[{-.025, .025}],
       Arrow[{{40/365, PeakBaseline}, {40/365, PeakAwareness}}]}],
    Graphics[{Black, Arrowheads[{-.025, .025}],
       Arrow[{{20/365, PeakBaseline}, {20/365, PeakHand}}]}],
    Graphics [{Black, Arrowheads[{-.025, .025}],
       Arrow[{{PeakTimingBaseline/365, 4}, {PeakTimingHand/365, 4}}]}],
    Graphics[Text[StyleForm["baseline (no awareness)", FontSize → 13,
        FontColor → Red], {85 / 365, PeakBaseline + 2}]],
    Graphics [Text[StyleForm["20%", FontSize \rightarrow 17, FontWeight -> "Bold"],
       {70 / 365, (PeakBaseline - PeakAwareness) / 2 + PeakAwareness}]],
    Graphics[Text[StyleForm["65%", FontSize → 17, FontWeight -> "Bold"],
       {50 / 365, (PeakAwareness - PeakHand) / 2 + PeakHand}]],
    \label{eq:Graphics} {\tt Graphics[Text[StyleForm["2.7 months", FontSize $\rightarrow 17$, FontWeight $->$ "Bold"]},
       {0.8, 4}]], {i, 1, Length[vars]} [1]
fig3A = PlotFigure3A[{1000 (IQ[t] + IQa[t]) / NN[t]},
  {"Number of diagnoses per 1000 persons"}, "Baseline"]
(*Export[StringJoin[
  "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
    Resubmission//FinalFigures//Figure3A",".eps"],fig3A];
Export[StringJoin[
  "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
    Resubmission//FinalFigures//Figure3A",".eps"],fig3A];*)
```



Computing the deaths at baseline (%)

```
In[100]:= Deaths[Intervention_, Parameters_] :=
       Max[Flatten[Table[Evaluate[DD[t] /. First@solution[Intervention, Parameters]],
           \{t, t_{start}, t_{end}, 1/(t_{end} 364 spacing)\}]]
      DeathsBaseline = Deaths["Baseline", Parameters[0, 0, 0, 0, 0, 0]]
Out[101]= 44205.2
```

Computing the attack rate (%)

```
In[102]:= AttackRate[Intervention_, Parameters_] :=
              \texttt{Max} \big[ \texttt{Flatten} \big[ \texttt{Table} \big[ \texttt{Evaluate} \big[ \left( \left( \texttt{RQ}[\texttt{t}] + \texttt{DD}[\texttt{t}] \right) \, / \, \texttt{Ntot} \, 100 \right) \, / \, . \, \, \texttt{First@solution} \big[ \\
                              Intervention, Parameters]], {t, t<sub>start</sub>, t<sub>end</sub>, 1 / (t<sub>end</sub> 364 spacing)}]]]
```

Model without disease-awareness

```
In[103]:= AttackRateBaseline = AttackRate["Baseline", Parameters[0, 0, 0, 0, 0, 0]]
Out[103]= 16.2519
```

Model with disease-awareness, no measures

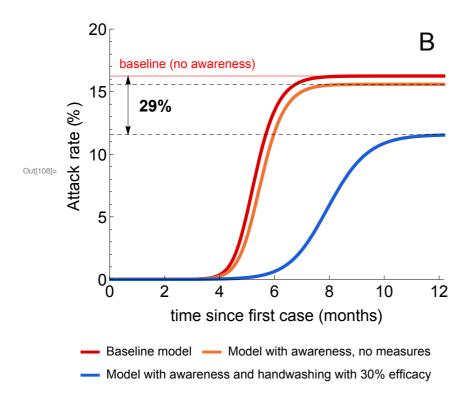
```
In[104]:= AttackRateAwareness =
       AttackRate["Baseline", Parameters[RelativeSusceptibilityAwarenessBaseline,
         {\tt RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,}
         RateAwarenessFadingSevereSymptomsBaseline, AcquisitionRateAwarenessBaseline,
         DiagnosisRateAwareBaseline, StartTimeBaseline]]
Out[104]= 15.5895
```

Model with disease-awareness and handwashing with 30% efficacy

```
In[105]:= AttackRateHand =
                                                 {\tt AttackRate["Hand", Join[Parameters[RelativeSusceptibilityAwarenessBaseline, Incomplete the content of the 
                                                                          {\tt Rate Awareness Fading Susceptible Exposed Mild Symptoms Baseline,}
                                                                           {\tt RateAwarenessFadingSevereSymptomsBaseline,}
                                                                           AcquisitionRateAwarenessBaseline,
                                                                           {\tt DiagnosisRateAwareBaseline, StartTimeBaseline], \{r_2 \rightarrow 0.7\}]]}
Out[105]= 11.5675
```

Plotting Figure 3 B (main text)

```
ln[106]:= imagePadding = {{47.5, 5}, {60, 22.5}};
         PlotFigure3B[vars_, ylabs_, scenario_] :=
           Table Show Plot [{Evaluate [vars [i]] /. solution ["Baseline",
                            Parameters[0, 0, 0, 0, 0, 0]]], Evaluate[vars[i]] /.
                          solution[scenario, Parameters[RelativeSusceptibilityAwarenessBaseline,
                              RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
                              RateAwarenessFadingSevereSymptomsBaseline,
                              {\tt AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,}
                              {\tt StartTimeBaseline]]], {\tt Evaluate[vars[[i]]/.solution["Hand", Installation of the context o
                            {\tt Join[Parameters[RelativeSusceptibilityAwarenessBaseline, \\
                                {\tt RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,}
                                RateAwarenessFadingSevereSymptomsBaseline,
                                {\tt AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,}
                                StartTimeBaseline], \{r_2 \rightarrow 0.7\}]]]},
                    \{t, t_{start}, tmax\}, AspectRatio \rightarrow 0.75, ImageSize \rightarrow 400,
                   ImagePadding → imagePadding,
                   PlotRangePadding → None,
                   PlotRange \rightarrow \{\{0, All\}, \{0, 20\}\},\
                   AxesOrigin \rightarrow \{0, 0\},
                   Frame → {{True, False}, {True, False}},
                   PlotLegends → Placed[{Table[Style[Row[{label}], Black, 13, "Text"],
                            {label, {"Baseline model", "Model with awareness, no measures",
                                 "Model with awareness and handwashing with 30% efficacy"}}]},
                       Bottom], FrameStyle → Directive[Black, 17],
                   PlotStyle \rightarrow {{Thickness[0.01], RGBColor[217 / 255, 0, 0]},
                        {Thickness[0.01], RGBColor[241/255, 115/255, 51/255]},
                        {Thickness[0.01], RGBColor[26 / 255, 94 / 255, 214 / 255]}},
                   \label{label} {\tt \{ylabs[i]], None\}, \{"time since first case (months)", None\}\}, }
                   \label{eq:frameTicks} \begin{split} \text{FrameTicks} & \rightarrow \{\{\text{Automatic, None}\}, \; \{\{\{0\text{, "0"}\}, \; \{60\text{/}365\text{, "2"}\}, \; \}\}, \end{split}
                            {120 / 365, "4"}, {180 / 365, "6"}, {240 / 365, "8"}, {300 / 365, "10"},
                            \{360 \ / \ 365, \ "12"\}, \ \{420 \ / \ 365, \ "14"\}, \ \{480 \ / \ 365, \ "16"\}, \ \{540 \ / \ 365, \ "18"\},
                            {600 / 365, "20"}, {660 / 365, "22"}, {720 / 365, "24"}}, None}}],
                 Graphics [Text[StyleForm["B", FontSize \rightarrow 26], {1 * 0.95, 20 * 0.95}]],
                 Graphics[{Red, Line[{{0, AttackRateBaseline}, {1, AttackRateBaseline}}]}],
                 Graphics[{Black, Dashed,
                     Line[{{0, AttackRateAwareness}, {1, AttackRateAwareness}}]}],
                 Graphics \hbox{\tt [\{Black, Dashed, Line \hbox{\tt [\{\{0, AttackRateHand\}, \{1, AttackRateHand\}\}]\}],}]},
                 Graphics[{Black, Arrowheads[{-.025, .025}],
                     Arrow[{{20 / 365, AttackRateHand}, {20 / 365, AttackRateBaseline}}]}],
                 Graphics Text StyleForm ["29%", FontSize → 17, FontWeight -> "Bold"],
                      {50 / 365, (AttackRateBaseline - AttackRateHand) / 2 + AttackRateHand}]],
                 Graphics[Text[StyleForm["baseline (no awareness)",
                       FontSize → 13, FontColor → Red],
                      {85 / 365, AttackRateBaseline + 1}]], {i, 1, Length[vars]}][[1]
         fig3B = PlotFigure3B[{(RQ[t] + DD[t]) / Ntot 100}, {"Attack rate (%)"}, "Baseline"]
         (*Export[StringJoin[
              "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
                 Resubmission//FinalFigures//Figure3B",".eps"],fig3B];
         Export[StringJoin[
              "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
                 Resubmission//FinalFigures//Figure3B",".eps"],fig3B];*)
```



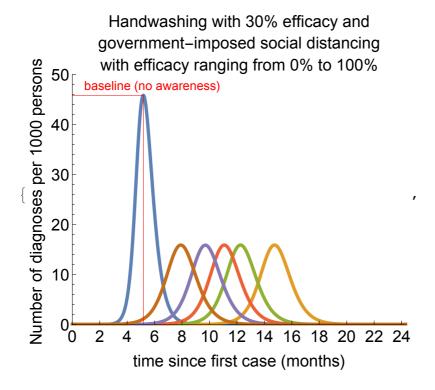
Combined intervention: government-imposed social distancing and handwashing (fast spread of awareness)

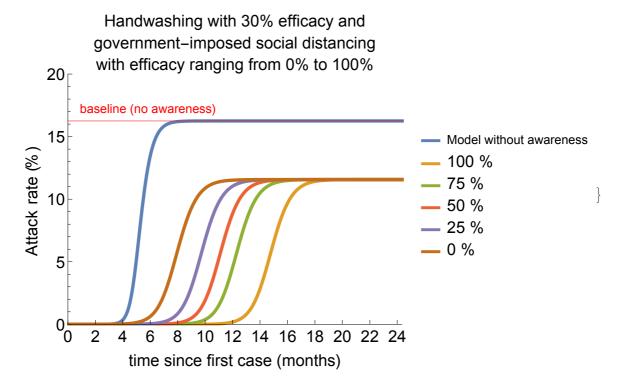
Time when government-imposed social distancing has to start (10 diagnoses)

```
(IQ[t] + IQa[t]) /.
  solution["Hand", Join[Parameters[RelativeSusceptibilityAwarenessBaseline,
      {\tt Rate Awareness Fading Susceptible Exposed Mild Symptoms Baseline,}
      RateAwarenessFadingSevereSymptomsBaseline,
      AcquisitionRateAwarenessBaseline,
      DiagnosisRateAwareBaseline, 0], \{r_2 \rightarrow 0.7\}]] /. t \rightarrow 0.10437
{10.0016}
```

Impact of government-imposed social distancing with efficacy ranging from 0% ($r_4 = 1$) to 100% $(r_4 = 0)$ and handwashing with 30% efficacy $(r_2 = 0.7)$

```
imagePadding = {{47.5, 5}, {60, 0}};
relvars = {1000 (IQ[t] + IQa[t]) / NN[t], (RQ[t] + DD[t]) / Ntot 100};
relyalabs = {"Number of diagnoses per 1000 persons", "Attack rate (%)"};
relylim = {50, 20};
ReductionFactor = Table[i, {i, 0, 1, 0.25}];
PlotCombinedIntervention[vars_, ylabs_, ylim_,
  scenario_, title_, parameters_, range_, legend_] := Table [Show]
   Plot[{Evaluate[vars[i]] /. solution["Baseline", Parameters[0, 0, 0, 0, 0, 0]]],
      Evaluate[Table[vars[i]] /. solution[scenario, parameters], range]]],
     \{t, t_{start}, t_{end}\}\, AspectRatio \rightarrow 0.75, ImageSize \rightarrow 400, PlotRangePadding \rightarrow None,
     PlotRange \rightarrow \{\{0, 2\}, \{0, \text{ylim}[i]\}\}, \text{AxesOrigin} \rightarrow \{0, 0\},
     Frame → {{True, False}, {True, False}}, FrameStyle → Directive[Black, 17],
     PlotStyle → Thickness[0.01], PlotLabel → Style[title, 17, Black],
     FrameLabel → {{ylabs[i], None}, {"time since first case (months)", None}},
     ImagePadding → imagePadding,
     FrameTicks \rightarrow {{Automatic, None}, {{{0, "0"}, {60 / 365, "2"}, {120 / 365, "4"},
          {180 / 365, "6"}, {240 / 365, "8"}, {300 / 365, "10"}, {360 / 365, "12"}, {420 / 365, "14"}, {480 / 365, "16"}, {540 / 365, "18"}, {600 / 365, "20"},
          \{660 / 365, "22"\}, \{720 / 365, "24"\}\}, None\}\}, PlotLegends \rightarrow
      If[i == 2, Prepend[Table[Style[Row[legend], Black, 17, "Text"], range],
         "Model without awareness"], None]], If [i = 2, \{Graphics[
        {Red, Line[{{0, AttackRateBaseline}, {tend, AttackRateBaseline}}]}],
      Graphics [Text[StyleForm["baseline (no awareness)", FontSize → 13,
          FontColor → Red], {175 / 365, AttackRateBaseline + 1}]]},
     \{Graphics | \{Red, Line | \{\{PeakTimingBaseline / 365, 0\}, \}\}
           {PeakTimingBaseline / 365, PeakBaseline}}]], Graphics[{Red,
         Line [{ {0, PeakBaseline}, {PeakTimingBaseline / 365, PeakBaseline}}]}],
      Graphics[Text[StyleForm["baseline (no awareness)", FontSize → 13,
          FontColor \rightarrow Red], {175 / 365, PeakBaseline + 2}]]}], {i, 1, Length[vars]}]
PlotCombinedIntervention relvars, relyalabs, relylim, GovernmentAndHand,
 "Handwashing with 30% efficacy and \ngovernment-imposed
   social distancing\nwith efficacy ranging from 0% to 100%",
 Join[Parameters[RelativeSusceptibilityAwarenessBaseline,
   {\tt RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,}
   RateAwarenessFadingSevereSymptomsBaseline, AcquisitionRateAwarenessBaseline,
   \label{eq:diagnosis} \texttt{DiagnosisRateAwareBaseline, 0.10437], \{r_2 \rightarrow 0.7\}, \{r_4 \rightarrow factor\}], \\
 {factor, ReductionFactor}, {IntegerPart[(1 - factor) 100], " %"}]
```





Computing the relative reduction in peak number of diagnoses per 1000 persons (%) for an efficacy of prevention measure ranging from 0% to 100%

```
In[109]:= ReductionFactor = Table[i, {i, 0, 1, 0.01}];
     PeakRange[Intervention_, Parameters_] := Table[{100 (1 - factor),
         100 (PeakBaseline - Max [Flatten [Table [Evaluate [(1000 (IQ[t] + IQa[t]) / NN[t]) /.
                    First@solution[Intervention, Parameters]], {t, t<sub>start</sub>, t<sub>end</sub>,
                   1 / (t<sub>end</sub> 364 spacing) } ] ] ] ) / PeakBaseline } , {factor, ReductionFactor} ]
 Model with disease-awareness and mask-wearing
     PeakMaskRange =
      PeakRange["Mask", Join[Parameters[RelativeSusceptibilityAwarenessBaseline,
          RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
          RateAwarenessFadingSevereSymptomsBaseline,
          AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
          StartTimeBaseline], \{r_1 \rightarrow factor\}]
     {{100., 99.9897}, {99., 99.9895}, {98., 99.9894}, {97., 99.9892}, {96., 99.9891},
       [95., 99.9889], {94., 99.9887}, {93., 99.9886}, {92., 99.9884}, {91., 99.9882},
       {90., 99.988}, {89., 99.9878}, {88., 99.9876}, {87., 99.9874}, {86., 99.9872},
       \{85., 99.987\}, \{84., 99.9867\}, \{83., 99.9865\}, \{82., 99.9862\}, \{81., 99.986\},
       {80., 99.9857}, {79., 99.9854}, {78., 99.9851}, {77., 99.9847}, {76., 99.9844},
       {75., 99.984}, {74., 99.9837}, {73., 99.9832}, {72., 99.9828}, {71., 99.9823},
       {70., 99.9818}, {69., 99.9812}, {68., 99.9806}, {67., 99.9799}, {66., 99.9792},
       {65., 99.9783}, {64., 99.9772}, {63., 99.9758}, {62., 99.9733}, {61., 99.9687},
       {60., 99.9621}, {59., 99.9522}, {58., 99.9356}, {57., 99.9046}, {56., 99.8396},
       \{55., 99.6973\}, \{54., 99.4204\}, \{53., 98.9754\}, \{52., 98.3611\}, \{51., 97.5905\},
```

 $\{50., 96.6796\}, \{49., 95.6439\}, \{48., 94.4978\}, \{47., 93.2544\}, \{46., 91.9255\},$ $\{45., 90.5218\}, \{44., 89.053\}, \{43., 87.5278\}, \{42., 85.9542\}, \{41., 84.3393\},$ $\{40., 82.6896\}, \{39., 81.011\}, \{38., 79.3088\}, \{37., 77.5876\}, \{36., 75.8518\},$ {35., 74.1053}, {34., 72.3514}, {33., 70.5933}, {32., 68.8339}, {31., 67.0755},

 $\{18., 45.0683\}, \{17., 43.4769\}, \{16., 41.903\}, \{15., 40.3467\}, \{14., 38.8084\},$

 $\{9., 31.3899\}, \{8., 29.9612\}, \{7., 28.5509\}, \{6., 27.1588\}, \{5., 25.7848\},$ $\{4., 24.4289\}, \{3., 23.091\}, \{2., 21.771\}, \{1., 20.4686\}, \{0., 19.1837\}\}$

 $\{30., 65.3205\}, \{29., 63.5709\}, \{28., 61.8284\}, \{27., 60.0946\},$ $\{26., 58.3709\}, \{25., 56.6586\}, \{24., 54.9588\}, \{23., 53.2724\},$ $\{22., 51.6003\}, \{21., 49.9432\}, \{20., 48.3019\}, \{19., 46.6767\},$

 $\{13., 37.2881\}, \{12., 35.7861\}, \{11., 34.3024\}, \{10., 32.8369\},$

Model with disease-awareness and handwashing

PeakHandRange =

PeakRange["Hand", Join[Parameters[RelativeSusceptibilityAwarenessBaseline, RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline, RateAwarenessFadingSevereSymptomsBaseline, AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline, StartTimeBaseline], $\{r_2 \rightarrow factor\}$]]

```
\{\{100., 99.989\}, \{99., 99.9889\}, \{98., 99.9887\}, \{97., 99.9885\}, \{96., 99.9884\},
  95., 99.9882}, {94., 99.988}, {93., 99.9879}, {92., 99.9877}, {91., 99.9875},
 {90., 99.9873}, {89., 99.9871}, {88., 99.9868}, {87., 99.9866}, {86., 99.9864},
 {85., 99.9861}, {84., 99.9859}, {83., 99.9856}, {82., 99.9853}, {81., 99.9851},
 {80., 99.9848}, {79., 99.9845}, {78., 99.9841}, {77., 99.9838}, {76., 99.9834},
 \{75., 99.983\}, \{74., 99.9826\}, \{73., 99.9822\}, \{72., 99.9817\}, \{71., 99.9812\},
 {70., 99.9807}, {69., 99.9801}, {68., 99.9794}, {67., 99.9787}, {66., 99.9779},
 {65., 99.9769}, {64., 99.9758}, {63., 99.9742}, {62., 99.9711}, {61., 99.9661},
 {60., 99.9588}, {59., 99.9478}, {58., 99.9295}, {57., 99.8958}, {56., 99.8267},
 {55., 99.6802}, {54., 99.401}, {53., 98.956}, {52., 98.3429}, {51., 97.5737},
 \{50., 96.6642\}, \{49., 95.6299\}, \{48., 94.485\}, \{47., 93.2426\}, \{46., 91.9146\},
 {45., 90.5117}, {44., 89.0436}, {43., 87.5191}, {42., 85.9461}, {41., 84.3318},
 \{40., 82.6826\}, \{39., 81.0045\}, \{38., 79.3027\}, \{37., 77.5819\},
 \{36., 75.8465\}, \{35., 74.1003\}, \{34., 72.3467\}, \{33., 70.589\}, \{32., 68.8298\},
 \{31., 67.0717\}, \{30., 65.3169\}, \{29., 63.5675\}, \{28., 61.8252\},
 {27., 60.0916}, {26., 58.3681}, {25., 56.656}, {24., 54.9564}, {23., 53.2701},
 \{22., 51.5982\}, \{21., 49.9413\}, \{20., 48.3001\}, \{19., 46.675\}, \{18., 45.0667\},
 \{17., 43.4755\}, \{16., 41.9017\}, \{15., 40.3455\}, \{14., 38.8073\},
 \{13., 37.2871\}, \{12., 35.7852\}, \{11., 34.3015\}, \{10., 32.8362\},
 \{9., 31.3893\}, \{8., 29.9607\}, \{7., 28.5504\}, \{6., 27.1584\}, \{5., 25.7845\},
 \{4., 24.4287\}, \{3., 23.0909\}, \{2., 21.7709\}, \{1., 20.4685\}, \{0., 19.1837\}\}
```

Model with disease-awareness and self-imposed social distancing

```
PeakSelfImposedDistancingRange = PeakRange["ContactReductionIndividuals",
     Join [Parameters [RelativeSusceptibilityAwarenessBaseline,
          RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
          RateAwarenessFadingSevereSymptomsBaseline,
          AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
          StartTimeBaseline], \{r_3 \rightarrow factor\}]]
\{\{100., 99.9815\}, \{99., 99.9815\}, \{98., 99.9814\}, \{97., 99.9814\}, \{96., 99.9813\},
    95., 99.9813}, {94., 99.9812}, {93., 99.9811}, {92., 99.981}, {91., 99.9809},
   {90., 99.9808}, {89., 99.9807}, {88., 99.9805}, {87., 99.9804}, {86., 99.9802},
   {85., 99.9801}, {84., 99.9799}, {83., 99.9797}, {82., 99.9795}, {81., 99.9793},
   {80., 99.9791}, {79., 99.9788}, {78., 99.9785}, {77., 99.9782}, {76., 99.9779},
   <sup>2</sup> [75., 99.9776], {74., 99.9773}, {73., 99.9769}, {72., 99.9764}, {71., 99.976},
   {70., 99.9755}, {69., 99.9749}, {68., 99.9743}, {67., 99.9737}, {66., 99.9729},
   \{65., 99.972\}, \{64., 99.9709\}, \{63., 99.9696\}, \{62., 99.9678\}, \{61., 99.9641\},
   {60., 99.9578}, {59., 99.9482}, {58., 99.9325}, {57., 99.9037}, {56., 99.8448},
   \{55., 99.7205\}, \{54., 99.4833\}, \{53., 99.1012\}, \{52., 98.5672\}, \{51., 97.8875\},
   \{50., 97.0726\}, \{49., 96.1339\}, \{48., 95.0826\}, \{47., 93.9295\}, \{46., 92.6848\}, \{47., 93.9295\}, \{48., 95.0826\}, \{47., 93.9295\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.0826\}, \{48., 95.082
   {45., 91.3579}, {44., 89.958}, {43., 88.4934}, {42., 86.9718}, {41., 85.4006},
   {40., 83.7864}, {39., 82.1354}, {38., 80.4531}, {37., 78.745}, {36., 77.0156},
   \{35., 75.2695\}, \{34., 73.5104\}, \{33., 71.7421\}, \{32., 69.9678\},
  {31., 68.1905}, {30., 66.4129}, {29., 64.6373}, {28., 62.8661},
   {27., 61.1011}, {26., 59.3441}, {25., 57.5966}, {24., 55.8601},
  \{23., 54.1358\}, \{22., 52.4247\}, \{21., 50.728\}, \{20., 49.0463\}, \{19., 47.3805\},
  \{18., 45.7311\}, \{17., 44.0988\}, \{16., 42.4839\}, \{15., 40.887\}, \{14., 39.3082\},
  \{13., 37.7479\}, \{12., 36.2063\}, \{11., 34.6835\}, \{10., 33.1797\},
  \{9., 31.6948\}, \{8., 30.2291\}, \{7., 28.7824\}, \{6., 27.3547\}, \{5., 25.946\},
  \{4., 24.5562\}, \{3., 23.1852\}, \{2., 21.8329\}, \{1., 20.4991\}, \{0., 19.1837\}\}
```

Model with disease-awareness and government-imposed social distancing

```
PeakGovernmentImposedDistancingRange = PeakRange["ContactReductionGovernment",
  Join [Parameters [RelativeSusceptibilityAwarenessBaseline,
    RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_4 \rightarrow factor\}]
\{\{100., 19.1862\}, \{99., 19.1863\}, \{98., 19.1863\}, \{97., 19.1863\}, \{96., 19.1864\},
  95., 19.1864}, {94., 19.1865}, {93., 19.1865}, {92., 19.1866}, {91., 19.1867},
 {90., 19.1867}, {89., 19.1868}, {88., 19.1868}, {87., 19.1869}, {86., 19.187},
 \{85., 19.1871\}, \{84., 19.1872\}, \{83., 19.1873\}, \{82., 19.1874\}, \{81., 19.1875\},
 {80., 19.1876}, {79., 19.1878}, {78., 19.1879}, {77., 19.1881}, {76., 19.1883},
 \{75., 19.1885\}, \{74., 19.1887\}, \{73., 19.1889\}, \{72., 19.1892\}, \{71., 19.1895\},
 \{70., 19.1898\}, \{69., 19.1901\}, \{68., 19.1905\}, \{67., 19.1909\}, \{66., 19.1914\},
 \{65., 19.1919\}, \{64., 19.1925\}, \{63., 19.1931\}, \{62., 19.1938\}, \{61., 19.1946\},
 {60., 19.1954}, {59., 19.1964}, {58., 19.1974}, {57., 19.1986}, {56., 19.1999},
 \{55., 19.2013\}, \{54., 19.2028\}, \{53., 19.2045\}, \{52., 19.2064\}, \{51., 19.2085\},
 \{50., 19.2108\}, \{49., 19.2133\}, \{48., 19.2161\}, \{47., 19.2191\}, \{46., 19.2225\},
 {45., 19.2263}, {44., 19.2304}, {43., 19.2349}, {42., 19.2399}, {41., 19.2454},
 {40., 19.2514}, {39., 19.2581}, {38., 19.2654}, {37., 19.2734}, {36., 19.2822},
 \{35., 19.2918\}, \{34., 19.3023\}, \{33., 19.3137\}, \{32., 19.3262\}, \{31., 19.3398\},
 \{30., 19.3545\}, \{29., 19.3705\}, \{28., 19.3877\}, \{27., 19.4063\}, \{26., 19.4262\},
 \{25., 19.4475\}, \{24., 19.4702\}, \{23., 19.4943\}, \{22., 19.5197\},
 {21., 19.5464}, {20., 19.5743}, {19., 19.6032}, {18., 19.6328},
 \{17., 19.6628\}, \{16., 19.6929\}, \{15., 19.7226\}, \{14., 19.7511\},
 \{13., 19.7779\}, \{12., 19.8019\}, \{11., 19.8219\}, \{10., 19.8368\},
 \{9., 19.8448\}, \{8., 19.8441\}, \{7., 19.8326\}, \{6., 19.8076\}, \{5., 19.7664\},
 \{4., 19.7055\}, \{3., 19.6212\}, \{2., 19.5093\}, \{1., 19.3652\}, \{0., 19.1837\}\}
```

Model with disease-awareness and combined intervention (government-imposed social distancing and handwashing with 30% efficacy)

```
PeakCombinedRange = PeakRange [ "GovernmentAndHand",
  Join[Parameters[RelativeSusceptibilityAwarenessBaseline,
    RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    0.10437], \{r_2 \rightarrow 0.7\}, \{r_4 \rightarrow factor\}]]
\{\{100., 65.3188\}, \{99., 65.3188\}, \{98., 65.3188\}, \{97., 65.3189\}, \{96., 65.3189\},
  95., 65.3189}, {94., 65.319}, {93., 65.319}, {92., 65.319}, {91., 65.3191},
  90., 65.3191}, {89., 65.3192}, {88., 65.3192}, {87., 65.3193}, {86., 65.3193},
  [85., 65.3194], {84., 65.3195}, {83., 65.3195}, {82., 65.3196}, {81., 65.3197},
 \{80., 65.3198\}, \{79., 65.3199\}, \{78., 65.32\}, \{77., 65.3201\}, \{76., 65.3202\},
 \{75., 65.3204\}, \{74., 65.3205\}, \{73., 65.3207\}, \{72., 65.3208\}, \{71., 65.321\},
 {70., 65.3212}, {69., 65.3215}, {68., 65.3217}, {67., 65.322}, {66., 65.3223},
 \{65., 65.3226\}, \{64., 65.3229\}, \{63., 65.3233\}, \{62., 65.3237\}, \{61., 65.3241\},
 {60., 65.3246}, {59., 65.3251}, {58., 65.3256}, {57., 65.3262}, {56., 65.3268},
 {55., 65.3274}, {54., 65.3281}, {53., 65.3289}, {52., 65.3296}, {51., 65.3304},
 {50., 65.3313}, {49., 65.3322}, {48., 65.3331}, {47., 65.3341}, {46., 65.3352},
 {45., 65.3363}, {44., 65.3374}, {43., 65.3386}, {42., 65.3399}, {41., 65.3412},
 {40., 65.3426}, {39., 65.344}, {38., 65.3455}, {37., 65.3471}, {36., 65.3487},
 \{35., 65.3503\}, \{34., 65.3521\}, \{33., 65.3538\}, \{32., 65.3557\},
 \{31., 65.3576\}, \{30., 65.3595\}, \{29., 65.3615\}, \{28., 65.3636\},
 \{27., 65.3656\}, \{26., 65.3677\}, \{25., 65.3699\}, \{24., 65.372\}, \{23., 65.3741\},
 \{22., 65.3763\}, \{21., 65.3783\}, \{20., 65.3804\}, \{19., 65.3823\},
 \{18., 65.3841\}, \{17., 65.3858\}, \{16., 65.3873\}, \{15., 65.3885\},
 {14., 65.3895}, {13., 65.3901}, {12., 65.3903}, {11., 65.39}, {10., 65.3891},
 {9., 65.3876}, {8., 65.3852}, {7., 65.3819}, {6., 65.3774}, {5., 65.3718},
 \{4., 65.3646\}, \{3., 65.3559\}, \{2., 65.3452\}, \{1., 65.3323\}, \{0., 65.3169\}\}
```

Plotting Figure 5 A (main text) (fast spread of awareness)

```
imagePadding = {{80, 15}, {50, 5}};
fig5A = Show[ListLinePlot[
   {PeakMaskRange[;;;;5], PeakHandRange, PeakSelfImposedDistancingRange,
     PeakGovernmentImposedDistancingRange[];; ;; 5] (*,PeakCombinedRange*)},
   AspectRatio \rightarrow 0.75, ImageSize \rightarrow 400, PlotRange \rightarrow {All, {-2.5, 102.5}},
   AxesOrigin \rightarrow \{0, 0\}, Frame \rightarrow \{\{True, False\}, \{True, False\}\},
   FrameStyle → Directive[Black, 17],
   PlotStyle \rightarrow \{\{Thickness[0.01], RGBColor[248 / 255, 196 / 255, 0]\},\
      {Thickness[0.01], RGBColor[26/255, 94/255, 214/255]},
      {Thickness[0.01], RGBColor[192/255, 0, 120/255]},
      {Thickness[0.01], RGBColor[28/255, 162/255, 0]}(*,{Thickness[0.01],
       RGBColor[185/255,76/255,225/255]*)}, PlotRangePadding \rightarrow None,
   PlotMarkers → {Graphics[{RGBColor[248 / 255, 196 / 255, 0], Thick, Circle[]},
       ImageSize \rightarrow 10], "", "", "", ""},
   PlotLabel → Style[Row[{"Fast spread of awareness"}], 17, Black],
   ImagePadding → imagePadding,
   FrameLabel → {{"Relative reduction in\npeak number of diagnoses (%)", None},
      {"Efficacy of prevention measure (%)", None}}],
  \label{eq:Graphics} \texttt{[Text[StyleForm["A", FontSize $\rightarrow 26]$, $\{100*0.05, 100*0.95\}]],}
  Graphics[Text[StyleForm["baseline (no awareness)", FontSize → 13,
      FontColor \rightarrow RGBColor[217 / 255, 0, 0]], {27.5, 5}]], Graphics[
    {RGBColor[217 / 255, 0, 0], Thickness[0.005], Line[{{0, 0}, {100, 0}}]}],
  Graphics[{Black, Arrow[{{80, 40}, {80, 95}}]}],
  Graphics[Text[StyleForm["no large epidemic",
      FontSize → 15, FontColor → Black], {80, 35}]]]
Export[StringJoin[
   "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
      Resubmission//FinalFigures//Figure5A", ".eps"], fig5A];
Export[StringJoin[
   "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
      Resubmission//FinalFigures//Figure5A", ".eps"], fig5A];
                    Fast spread of awareness
       100
   8
   peak number of diagnoses
Relative reduction in
        80
        60
        40
                                       no large epidemic
        20
             baseline (no awareness)
         0
           0
                   20
                            40
                                     60
                                              80
                                                      100
              Efficacy of prevention measure (%)
```

measure ranging from 0% to 100%

```
In[111]:= AttackRateRange[Intervention_, Parameters_] :=
       Table [{ (1 - factor) 100, Max Flatten Table Evaluate [
                ((RQ[t] + DD[t]) / Ntot 100) / . First@solution[Intervention, Parameters]],
              \{t, t_{start}, t_{end}, 1/(t_{end} 364 \text{ spacing})\}\}\}\}, \{factor, ReductionFactor\}\}
```

Model with disease-awareness and mask-wearing

```
AttackRateMaskRange = AttackRateRange["Mask",
     Join[Parameters[RelativeSusceptibilityAwarenessBaseline,
          {\tt RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,}
          RateAwarenessFadingSevereSymptomsBaseline,
          AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
          StartTimeBaseline], \{r_1 \rightarrow factor\}]
\{\{100., 0.0139929\}, \{99., 0.0143083\}, \{98., 0.0146382\}, \{97., 0.0149835\}, \{98., 0.0146382\}, \{97., 0.0149835\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0149835\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0149835\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0149835\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146382\}, \{98., 0.0146482\}, \{98., 0.0146482\}, \{98., 0.0146482\}, \{98., 0.0146482\}, \{98., 0.0146482\}, \{98., 0.0146482\}, \{98., 0.0146482\}, \{98., 0.0146482\}, \{98., 0.0146482\}, \{98., 0.0146482\}, \{98., 0.0146482\}, \{98., 0.0146482\}, \{98., 0.014682\}, \{98., 0.014682\}, \{98., 0.014682\}, \{98., 0.014682\}, \{98., 0.014682\}, \{98., 0.014682\}, \{98., 0.014682\}, \{98., 0.014682\}, \{98., 0.014682\}, \{98., 0.014682\}, \{98., 0.014682\}, \{98., 0.014682\}, \{98., 0.014682\}, \{98., 0.014682\}, \{98., 0.014682\}, \{98., 0.014682\}, \{98., 0.014682\}, \{98., 0.014682\}, \{98., 0.014682\}, \{98., 0.014682\}, \{98., 0.014682\}, \{98., 0.014682\}, \{98., 0.014682\}, \{98., 0.014682\}, \{98., 0.0148242\}, \{98., 0.014682\}, \{98., 0.0148242\}, \{98., 0.0148242\}, \{98., 0.0148242\}, \{98., 0.0148242\}, \{98., 0.0148242\}, \{98., 0.0148242
     96., 0.0153453}, {95., 0.0157249}, {94., 0.0161236}, {93., 0.0165428},
    92., 0.0169843}, {91., 0.0174499}, {90., 0.0179415}, {89., 0.0184615},
    88., 0.0190124, \{87., 0.0195969\}, \{86., 0.0202184\}, \{85., 0.0208804\}
    84., 0.0215871}, {83., 0.0223432}, {82., 0.0231541}, {81., 0.024026},
    80., 0.024966}, {79., 0.0259827}, {78., 0.0270857}, {77., 0.0282867},
   {76., 0.0295994}, {75., 0.0310405}, {74., 0.0326297}, {73., 0.0343915},
   {72., 0.0363557}, {71., 0.0385599}, {70., 0.0410512}, {69., 0.0438904},
    68., 0.0471564, \{67., 0.0509542, \{66., 0.0554265\}, \{65., 0.0607718\},
    64., 0.0672748}, {63., 0.0753581}, {62., 0.0856753}, {61., 0.09929},
    60., 0.118038}, {59., 0.145326}, {58., 0.18798}, {57., 0.260716},
    56., 0.396241}, {55., 0.661302}, {54., 1.14896}, {53., 1.87324},
    52., 2.67945}, {51., 3.4173}, {50., 4.06489}, {49., 4.65068}, {48., 5.19629},
    47., 5.71174}, {46., 6.20132}, {45., 6.66722}, {44., 7.11091}, {43., 7.53366},
    42., 7.93661}, {41., 8.32086}, {40., 8.68743}, {39., 9.03728},
    [38., 9.37132], {37., 9.6904}, {36., 9.99534}, {35., 10.2869}, {34., 10.5658},
    [33., 10.8326], {32., 11.0881}, {31., 11.3328}, {30., 11.5672},
   {29., 11.7919}, {28., 12.0072}, {27., 12.2137}, {26., 12.4119}, {25., 12.602},
   {24., 12.7845}, {23., 12.9598}, {22., 13.1282}, {21., 13.29}, {20., 13.4455},
   {19., 13.595}, {18., 13.7388}, {17., 13.8772}, {16., 14.0103}, {15., 14.1385},
   {14., 14.2619}, {13., 14.3808}, {12., 14.4953}, {11., 14.6056}, {10., 14.7119},
   {9., 14.8145}, {8., 14.9133}, {7., 15.0087}, {6., 15.1007}, {5., 15.1895},
   \{4., 15.2752\}, \{3., 15.3579\}, \{2., 15.4378\}, \{1., 15.5149\}, \{0., 15.5895\}\}
```

Model with disease-awareness and handwashing

```
AttackRateHandRange = AttackRateRange["Hand",
     Join [Parameters [RelativeSusceptibilityAwarenessBaseline,
          RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
          RateAwarenessFadingSevereSymptomsBaseline,
          AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
          StartTimeBaseline], \{r_2 \rightarrow factor\}]]
\{\{100., 0.0140407\}, \{99., 0.0143743\}, \{98., 0.0147234\}, \{97., 0.0150892\},
     96., 0.0154729}, {95., 0.0158757}, {94., 0.0162993}, {93., 0.0167452},
   \{92., 0.0172151\}, \{91., 0.0177111\}, \{90., 0.0182355\}, \{89., 0.0187905\},
   \{88., 0.0193791\}, \{87., 0.0200044\}, \{86., 0.0206697\}, \{85., 0.0213792\},
   {84., 0.0221373}, {83., 0.0229492}, {82., 0.0238208}, {81., 0.0247589},
   \{80., 0.0257713\}, \{79., 0.0268674\}, \{78., 0.0280578\}, \{77., 0.0293553\},
   \{76., 0.030775\}, \{75., 0.0323351\}, \{74., 0.0340576\}, \{73., 0.0359691\},
   \{72., 0.0381028\}, \{71., 0.0404998\}, \{70., 0.0432124\}, \{69., 0.0463074\},
   \{68., 0.0498723\}, \{67., 0.054023\}, \{66., 0.0589172\}, \{65., 0.0647747\},
   \{64., 0.0719103\}, \{63., 0.0807912\}, \{62., 0.0921395\}, \{61., 0.107127\},
   \{60., 0.127769\}, \{59., 0.157776\}, \{58., 0.204509\}, \{57., 0.283557\},
   \{56., 0.428699\}, \{55., 0.706238\}, \{54., 1.20244\}, \{53., 1.92033\},
   \{52., 2.70967\}, \{51., 3.43419\}, \{50., 4.075\}, \{49., 4.65767\}, \{48., 5.20165\},
   {47., 5.71606}, {46., 6.20487}, {45., 6.67016}, {44., 7.11336}, {43., 7.53571},
   \{42., 7.93835\}, \{41., 8.32233\}, \{40., 8.68868\}, \{39., 9.03835\}, \{38., 9.37224\},
   \{37., 9.6912\}, \{36., 9.99603\}, \{35., 10.2875\}, \{34., 10.5663\}, \{33., 10.8331\},
   \{32., 11.0885\}, \{31., 11.3332\}, \{30., 11.5675\}, \{29., 11.7921\},
   \{28., 12.0075\}, \{27., 12.214\}, \{26., 12.4121\}, \{25., 12.6022\}, \{24., 12.7847\}, \{26., 12.4121\}, \{27., 12.6022\}, \{28., 12.6022\}, \{28., 12.7847\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022\}, \{28., 12.6022
   \{23., 12.96\}, \{22., 13.1283\}, \{21., 13.2901\}, \{20., 13.4456\}, \{19., 13.5951\},
   \{18., 13.7389\}, \{17., 13.8773\}, \{16., 14.0104\}, \{15., 14.1386\},
   \{14., 14.262\}, \{13., 14.3808\}, \{12., 14.4953\}, \{11., 14.6056\}, \{10., 14.712\},
   \{9., 14.8145\}, \{8., 14.9134\}, \{7., 15.0087\}, \{6., 15.1007\}, \{5., 15.1895\},
   \{4., 15.2752\}, \{3., 15.3579\}, \{2., 15.4378\}, \{1., 15.5149\}, \{0., 15.5895\}\}
```

Model with disease-awareness and self-imposed social distancing

```
AttackRateSelfImposedDistancingRange =
 AttackRateRange["ContactReductionIndividuals",
  Join[Parameters[RelativeSusceptibilityAwarenessBaseline,
     RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
     RateAwarenessFadingSevereSymptomsBaseline,
     AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
     StartTimeBaseline], \{r_3 \rightarrow factor\}]]
\{\{100., 0.0389164\}, \{99., 0.0383051\}, \{98., 0.0378212\}, \{97., 0.0374449\},
  96., 0.0371617}, {95., 0.0369607}, {94., 0.036834}, {93., 0.0367758},
 {92., 0.0367817}, {91., 0.0368486}, {90., 0.0369746}, {89., 0.0371585},
 \{88., 0.0374002\}, \{87., 0.0377\}, \{86., 0.0380591\}, \{85., 0.0384794\},
 \{84., 0.0389636\}, \{83., 0.039515\}, \{82., 0.0401379\}, \{81., 0.0408375\},
 \{80., 0.0416201\}, \{79., 0.0424935\}, \{78., 0.0434666\}, \{77., 0.0445505\},
 \{76., 0.0457582\}, \{75., 0.0471058\}, \{74., 0.0486125\}, \{73., 0.0503019\},
 \{72., 0.0522034\}, \{71., 0.0543533\}, \{70., 0.0567976\}, \{69., 0.0595955\},
 \{68., 0.0628236\}, \{67., 0.066584\}, \{66., 0.0710146\}, \{65., 0.0763075\},
 {64., 0.0827377}, {63., 0.0907127}, {62., 0.100864}, {61., 0.114217},
 \{60., 0.132549\}, \{59., 0.159166\}, \{58., 0.200704\}, \{57., 0.271327\},
 {56., 0.401359}, {55., 0.647841}, {54., 1.07891}, {53., 1.68977},
 {52., 2.36316}, {51., 2.99944}, {50., 3.58276}, {49., 4.12858}, {48., 4.64895},
 {47., 5.14917}, {46., 5.63109}, {45., 6.09536}, {44., 6.54232}, {43., 6.97235},
 {42., 7.38584}, {41., 7.78324}, {40., 8.16503}, {39., 8.53172}, {38., 8.88381},
 \{37., 9.22182\}, \{36., 9.54628\}, \{35., 9.8577\}, \{34., 10.1566\}, \{33., 10.4435\},
 \{32., 10.7189\}, \{31., 10.9832\}, \{30., 11.2369\}, \{29., 11.4805\}, \{28., 11.7143\},
 \{27., 11.9387\}, \{26., 12.1542\}, \{25., 12.3611\}, \{24., 12.5598\},
 \{23., 12.7506\}, \{22., 12.9339\}, \{21., 13.11\}, \{20., 13.2791\}, \{19., 13.4417\},
 \{18., 13.598\}, \{17., 13.7482\}, \{16., 13.8927\}, \{15., 14.0316\}, \{14., 14.1652\},
 \{13., 14.2938\}, \{12., 14.4175\}, \{11., 14.5365\}, \{10., 14.6511\},
 \{9., 14.7615\}, \{8., 14.8677\}, \{7., 14.97\}, \{6., 15.0686\}, \{5., 15.1636\},
 \{4., 15.2551\}, \{3., 15.3433\}, \{2., 15.4284\}, \{1., 15.5104\}, \{0., 15.5895\}\}
```

Model with disease-awareness and government-imposed social distancing

```
AttackRateGovernmentImposedDistancingRange =
 AttackRateRange["ContactReductionGovernment",
  Join [Parameters [RelativeSusceptibilityAwarenessBaseline,
    RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_4 \rightarrow factor\}]]
\{\{100., 15.5894\}, \{99., 15.5894\}, \{98., 15.5894\}, \{97., 15.5894\}, \{96., 15.5894\},
  95., 15.5894}, {94., 15.5894}, {93., 15.5894}, {92., 15.5894}, {91., 15.5894},
 {90., 15.5894}, {89., 15.5894}, {88., 15.5894}, {87., 15.5894}, {86., 15.5894},
 {85., 15.5894}, {84., 15.5894}, {83., 15.5894}, {82., 15.5894}, {81., 15.5894},
 {80., 15.5894}, {79., 15.5894}, {78., 15.5894}, {77., 15.5894}, {76., 15.5894},
 {75., 15.5894}, {74., 15.5893}, {73., 15.5893}, {72., 15.5893}, {71., 15.5893},
 {70., 15.5893}, {69., 15.5893}, {68., 15.5893}, {67., 15.5893}, {66., 15.5893},
 \{65., 15.5893\}, \{64., 15.5893\}, \{63., 15.5892\}, \{62., 15.5892\}, \{61., 15.5892\},
 {60., 15.5892}, {59., 15.5892}, {58., 15.5891}, {57., 15.5891}, {56., 15.5891},
 {55., 15.589}, {54., 15.589}, {53., 15.589}, {52., 15.5889}, {51., 15.5889},
 {50., 15.5888}, {49., 15.5888}, {48., 15.5887}, {47., 15.5886}, {46., 15.5885},
 {45., 15.5884}, {44., 15.5883}, {43., 15.5882}, {42., 15.5881}, {41., 15.588},
 \{40., 15.5878\}, \{39., 15.5877\}, \{38., 15.5875\}, \{37., 15.5873\},
 {36., 15.5871}, {35., 15.5869}, {34., 15.5866}, {33., 15.5863}, {32., 15.586},
 \{31., 15.5857\}, \{30., 15.5853\}, \{29., 15.5849\}, \{28., 15.5845\},
 \{27., 15.5841\}, \{26., 15.5836\}, \{25., 15.5831\}, \{24., 15.5825\},
 \{23., 15.5819\}, \{22., 15.5813\}, \{21., 15.5807\}, \{20., 15.58\}, \{19., 15.5793\},
 \{18., 15.5786\}, \{17., 15.5778\}, \{16., 15.5771\}, \{15., 15.5764\},
 \{14., 15.5757\}, \{13., 15.575\}, \{12., 15.5744\}, \{11., 15.5739\}, \{10., 15.5735\},
 \{9., 15.5733\}, \{8., 15.5733\}, \{7., 15.5736\}, \{6., 15.5742\}, \{5., 15.5752\},
 \{4., 15.5767\}, \{3., 15.5787\}, \{2., 15.5815\}, \{1., 15.585\}, \{0., 15.5895\}\}
```

Model with disease-awareness and combined intervention (government-imposed social distancing and handwashing with 30% efficacy)

```
AttackRateCombinedRange = AttackRateRange [ "GovernmentAndHand",
     Join [Parameters [RelativeSusceptibilityAwarenessBaseline,
          RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
          RateAwarenessFadingSevereSymptomsBaseline,
          AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
          0.10437], \{r_2 \rightarrow 0.7\}, \{r_4 \rightarrow factor\}]]
\{\{100., 11.5674\}, \{99., 11.5674\}, \{98., 11.5674\}, \{97., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5674\}, \{97., 11.5
     95., 11.5674}, {94., 11.5674}, {93., 11.5674}, {92., 11.5674}, {91., 11.5674},
     90., 11.5674}, {89., 11.5674}, {88., 11.5674}, {87., 11.5674}, {86., 11.5674},
     85.,\ 11.5674\}\,,\ \{84.,\ 11.5674\}\,,\ \{83.,\ 11.5674\}\,,\ \{82.,\ 11.5674\}\,,\ \{81.,\ 11.5674\}\,,
   \{80., 11.5673\}, \{79., 11.5673\}, \{78., 11.5673\}, \{77., 11.5673\}, \{76., 11.5673\},
   \{75., 11.5673\}, \{74., 11.5673\}, \{73., 11.5673\}, \{72., 11.5673\}, \{71., 11.5673\},
   \{70., 11.5673\}, \{69., 11.5672\}, \{68., 11.5672\}, \{67., 11.5672\},
   \{66., 11.5672\}, \{65., 11.5672\}, \{64., 11.5672\}, \{63., 11.5671\},
   {62., 11.5671}, {61., 11.5671}, {60., 11.5671}, {59., 11.567}, {58., 11.567},
   {57., 11.567}, {56., 11.5669}, {55., 11.5669}, {54., 11.5668}, {53., 11.5668},
   {52., 11.5667}, {51., 11.5667}, {50., 11.5666}, {49., 11.5666}, {48., 11.5665},
   {47., 11.5665}, {46., 11.5664}, {45., 11.5663}, {44., 11.5663}, {43., 11.5662},
   {42., 11.5661}, {41., 11.566}, {40., 11.5659}, {39., 11.5659}, {38., 11.5658},
   {37., 11.5657}, {36., 11.5656}, {35., 11.5655}, {34., 11.5654}, {33., 11.5652},
   \{32., 11.5651\}, \{31., 11.565\}, \{30., 11.5649\}, \{29., 11.5648\}, \{28., 11.5646\},
   \{27., 11.5645\}, \{26., 11.5644\}, \{25., 11.5643\}, \{24., 11.5641\}, \{23., 11.564\},
   \{22., 11.5639\}, \{21., 11.5637\}, \{20., 11.5636\}, \{19., 11.5635\},
   \{18., 11.5634\}, \{17., 11.5633\}, \{16., 11.5632\}, \{15., 11.5631\},
   {14., 11.563}, {13., 11.563}, {12., 11.563}, {11., 11.563}, {10., 11.5631},
   {9., 11.5632}, {8., 11.5633}, {7., 11.5635}, {6., 11.5638}, {5., 11.5641},
   \{4., 11.5646\}, \{3., 11.5651\}, \{2., 11.5658\}, \{1., 11.5666\}, \{0., 11.5675\}\}
```

Plotting Figure 5 B (main text) (fast spread of awareness)

```
imagePadding = {{80, 15}, {50, 5}};
fig5B = Show[ListLinePlot[{AttackRateMaskRange[];; ;; 5]],
    AttackRateHandRange, AttackRateSelfImposedDistancingRange,
    AttackRateGovernmentImposedDistancingRange[;;;;5](*,
    AttackRateCombinedRange*) }, AspectRatio → 0.75, ImageSize → 400,
   PlotRange → \{\{0, 100\}, \{-0.35, 20\}\}, AxesOrigin \rightarrow \{0, 0\},
   Frame → {{True, False}, {True, False}}, FrameStyle → Directive[Black, 17],
   PlotMarkers → {Graphics[{RGBColor[248 / 255, 196 / 255, 0], Thick, Circle[]},
       ImageSize \rightarrow 10], "", "", "", ""},
   PlotStyle \rightarrow \{\{Thickness[0.01], RGBColor[248 / 255, 196 / 255, 0]\},\
      {Thickness[0.01], RGBColor[26/255, 94/255, 214/255]},
      {Thickness[0.01], RGBColor[192/255, 0, 120/255]},
      {Thickness[0.01], RGBColor[28/255, 162/255, 0]}(*,
      {Thickness[0.01], RGBColor[185/255,76/255,225/255]}*)},
   FrameLabel → {{"Attack rate (%)", None},
      {"Efficacy of prevention measure (%)", None}}, PlotRangePadding \rightarrow None,
   PlotLabel → Style[Row[{"Fast spread of awareness"}], 17, Black],
   ImagePadding → imagePadding], Graphics[{RGBColor[217 / 255, 0, 0]
, Thickness[0.005], Line[{{0, AttackRateBaseline}, {100, AttackRateBaseline}}]}],
  Graphics [Text[StyleForm["B", FontSize \rightarrow 26], {100 * 0.05, 20 * 0.95}]],
  Graphics[Text[StyleForm["baseline (no awareness)",
     FontSize → 13, FontColor → RGBColor[217 / 255, 0, 0]
], {72.5, 17.25}]], Graphics[{Black, Arrow[{{80, 6}, {80, 1}}]}],
Graphics [Text [
    StyleForm["no large epidemic", FontSize → 15, FontColor → Black], {80, 7}]]]
Export[StringJoin[
   "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
     Resubmission//FinalFigures//Figure5B", ".eps"], fig5B];
Export[StringJoin[
   "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
     Resubmission//FinalFigures//Figure5B", ".eps"], fig5B];
                   Fast spread of awareness
        20
                                baseline (no awareness)
        15
    Attack rate (%)
        10
                                     no large epidemic
         0
          0
                  20
                           40
                                   60
                                            80
                                                    100
              Efficacy of prevention measure (%)
```

Computing time until the peak number of diagnoses since the first case for an efficacy of prevention measure ranging from 0%

to 100%

```
In[112]:= PeakTimingRange[Intervention_, Parameters_] :=
        Table \left\{ \left(1 - \text{factor}\right) 100, 365 \times 1 / \left(\left(t_{\text{end}} 364 \text{ spacing}\right) + 1\right) \right\}
             ReplaceAll[Ordering[Flatten[Table[Evaluate[(1000 (IQ[t] + IQa[t]) / NN[t]) /.
                        First@solution[Intervention, Parameters]],
                     \{t, t_{start}, t_{end}, 1/(t_{end} 364 \text{ spacing})\}], -1][1],
               (x_{-}/; x = Length[Table[t, \{t, t_{start}, t_{end}, 1/(t_{end} 364 spacing)\}]]) \rightarrow 0]\},
          {factor, ReductionFactor}
```

Model with disease-awareness and mask-wearing

```
PeakTimingMaskRange = PeakTimingRange["Mask",
  Join [Parameters [RelativeSusceptibilityAwarenessBaseline,
    RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_1 \rightarrow factor\}]]
\{\{100., 71.893\}, \{99., 72.0936\}, \{98., 72.3142\}, \{97., 72.5348\}, \{96., 72.7553\},
  95., 72.996, \{94., 73.2366, \{93., 73.4773, \{92., 73.738, \{91., 73.9987\},
  [90., 74.2794], {89., 74.5802}, {88., 74.8811}, {87., 75.1819}, {86., 75.5228},
 {85., 75.8637}, {84., 76.2247}, {83., 76.6057}, {82., 77.0068}, {81., 77.4479},
 {80., 77.8891}, {79., 78.3905}, {78., 78.8918}, {77., 79.4533}, {76., 80.075},
 {75., 80.7167}, {74., 81.4587}, {73., 82.2609}, {72., 83.1432}, {71., 84.166},
 {70., 85.3291}, {69., 86.7128}, {68., 88.3572}, {67., 90.4027}, {66., 93.0699},
  65., 96.7798}, {64., 102.676}, {63., 115.129}, {62., 266.155}, {61., 367.647},
 {60., 439.801}, {59., 513.178}, {58., 593.814}, {57., 679.344}, {56., 751.137},
 \{55., 773.376\}, \{54., 737.46\}, \{53., 675.855\}, \{52., 614.289\}, \{51., 560.866\},
 {50., 516.166}, {49., 478.886}, {48., 447.542}, {47., 420.93}, {46., 398.089},
  [45., 378.276], {44., 360.909}, {43., 345.588}, {42., 331.931}, {41., 319.698},
 {40., 308.669}, {39., 298.682}, {38., 289.557}, {37., 281.215}, {36., 273.554},
 {35., 266.475}, {34., 259.938}, {33., 253.842}, {32., 248.166},
 \{31., 242.872\}, \{30., 237.919\}, \{29., 233.266\}, \{28., 228.875\},
 {27., 224.743}, {26., 220.853}, {25., 217.163}, {24., 213.654},
 \{23., 210.325\}, \{22., 207.176\}, \{21., 204.168\}, \{20., 201.3\}, \{19., 198.573\},
 \{18., 195.946\}, \{17., 193.439\}, \{16., 191.053\}, \{15., 188.747\},
 \{14., 186.541\}, \{13., 184.415\}, \{12., 182.37\}, \{11., 180.404\}, \{10., 178.519\},
 \{9., 176.694\}, \{8., 174.93\}, \{7., 173.245\}, \{6., 171.601\}, \{5., 170.016\},
 \{4., 168.472\}, \{3., 166.988\}, \{2., 165.544\}, \{1., 164.141\}, \{0., 162.797\}\}
```

Model with disease-awareness and handwashing

```
PeakTimingHandRange = PeakTimingRange["Hand",
  Join [Parameters [RelativeSusceptibilityAwarenessBaseline,
    RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_2 \rightarrow factor\}]]
\{\{100., 72.8356\}, \{99., 73.0361\}, \{98., 73.2567\}, \{97., 73.4572\}, \{96., 73.6778\},
  95., 73.8984}, {94., 74.1391}, {93., 74.3797}, {92., 74.6404}, {91., 74.9011},
 {90., 75.1618}, {89., 75.4426}, {88., 75.7434}, {87., 76.0442}, {86., 76.365},
 \{85., 76.706\}, \{84., 77.0469\}, \{83., 77.4279\}, \{82., 77.8089\}, \{81., 78.23\},
 {80., 78.6712}, {79., 79.1325}, {78., 79.6338}, {77., 80.1753}, {76., 80.7769},
 \{75., 81.4186\}, \{74., 82.1205\}, \{73., 82.9026\}, \{72., 83.7649\}, \{71., 84.7676\},
 {70., 85.9107}, {69., 87.2543}, {68., 88.8987}, {67., 90.9241}, {66., 93.6113},
 \{65., 97.4416\}, \{64., 103.718\}, \{63., 118.979\}, \{62., 295.173\}, \{61., 378.396\},
 {60., 445.817}, {59., 515.223}, {58., 590.766}, {57., 669.257}, {56., 733.349},
 {55., 752.52}, {54., 719.712}, {53., 662.619}, {52., 604.503}, {51., 553.406},
 \{50., 510.27\}, \{49., 474.093\}, \{48., 443.551\}, \{47., 417.561\}, \{46., 395.181\},
 {45., 375.729}, {44., 358.683}, {43., 343.603}, {42., 330.166}, {41., 318.114},
 \{40., 307.225\}, \{39., 297.358\}, \{38., 288.374\}, \{37., 280.132\},
 \{36., 272.552\}, \{35., 265.553\}, \{34., 259.076\}, \{33., 253.059\},
 \{32., 247.444\}, \{31., 242.21\}, \{30., 237.297\}, \{29., 232.685\}, \{28., 228.353\},
 \{27., 224.262\}, \{26., 220.392\}, \{25., 216.742\}, \{24., 213.273\},
 \{23., 209.964\}, \{22., 206.835\}, \{21., 203.867\}, \{20., 201.02\}, \{19., 198.292\},
 \{18., 195.705\}, \{17., 193.219\}, \{16., 190.832\}, \{15., 188.566\}, \{14., 186.36\},
 \{13., 184.255\}, \{12., 182.229\}, \{11., 180.284\}, \{10., 178.419\},
 \{9., 176.594\}, \{8., 174.849\}, \{7., 173.165\}, \{6., 171.541\}, \{5., 169.956\},
 \{4., 168.432\}, \{3., 166.948\}, \{2., 165.524\}, \{1., 164.141\}, \{0., 162.797\}\}
```

Model with disease-awareness and self-imposed social distancing

```
PeakTimingSelfImposedDistancingRange =
  PeakTimingRange["ContactReductionIndividuals",
     Join [Parameters [RelativeSusceptibilityAwarenessBaseline,
          RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
          RateAwarenessFadingSevereSymptomsBaseline,
          AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
          StartTimeBaseline], \{r_3 \rightarrow factor\}]]
\{\{100., 77.3677\}, \{99., 77.3477\}, \{98., 77.3477\}, \{97., 77.3677\}, \{96., 77.4078\},
    95., 77.468}, {94., 77.5482}, {93., 77.6284}, {92., 77.7287}, {91., 77.849},
   {90., 77.9894}, {89., 78.1498}, {88., 78.3103}, {87., 78.4907}, {86., 78.6913},
   {85., 78.9119}, {84., 79.1525}, {83., 79.4132}, {82., 79.714}, {81., 80.0148},
   \{80., 80.3557\}, \{79., 80.7167\}, \{78., 81.1178\}, \{77., 81.5389\}, \{76., 82.0202\},
   \{75., 82.5617\}, \{74., 83.1432\}, \{73., 83.805\}, \{72., 84.547\}, \{71., 85.3893\},
   \{70., 86.3518\}, \{69., 87.4949\}, \{68., 88.8385\}, \{67., 90.503\}, \{66., 92.6086\}, \{69., 87.4949\}, \{69., 88.8385\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}, \{69., 90.503\}
   \{65., 95.4362\}, \{64., 99.5272\}, \{63., 106.346\}, \{62., 123.291\}, \{61., 272.712\},
   \{60., 357.56\}, \{59., 432.281\}, \{58., 512.496\}, \{57., 597.805\}, \{56., 671.744\},
   {55., 703.248}, {54., 682.653}, {53., 634.925}, {52., 583.246}, {51., 536.581},
   {50., 496.593}, {49., 462.762}, {48., 434.025}, {47., 409.439}, {46., 388.202},
   {45., 369.693}, {44., 353.429}, {43., 338.99}, {42., 326.116}, {41., 314.545},
   {40., 304.096}, {39., 294.591}, {38., 285.908}, {37., 277.946}, {36., 270.607},
   \{35., 263.828\}, \{34., 257.531\}, \{33., 251.696\}, \{32., 246.221\},
   \{31., 241.127\}, \{30., 236.335\}, \{29., 231.842\}, \{28., 227.591\},
   \{27., 223.58\}, \{26., 219.81\}, \{25., 216.221\}, \{24., 212.811\}, \{23., 209.583\},
  \{22., 206.494\}, \{21., 203.567\}, \{20., 200.759\}, \{19., 198.072\},
  \{18., 195.525\}, \{17., 193.058\}, \{16., 190.712\}, \{15., 188.446\}, \{14., 186.28\},
  \{13., 184.195\}, \{12., 182.189\}, \{11., 180.244\}, \{10., 178.379\},
  \{9., 176.574\}, \{8., 174.849\}, \{7., 173.165\}, \{6., 171.541\}, \{5., 169.956\},
  \{4., 168.432\}, \{3., 166.968\}, \{2., 165.524\}, \{1., 164.141\}, \{0., 162.797\}\}
```

Model with disease-awareness and government-imposed social distancing

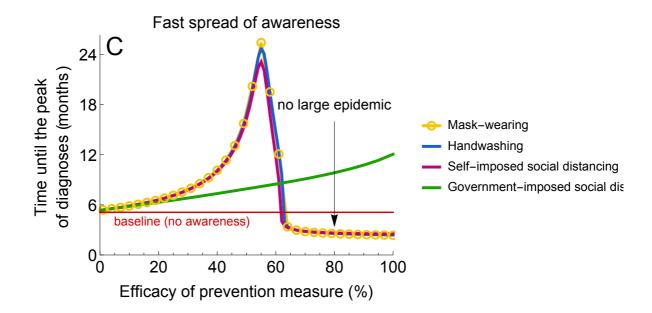
```
PeakTimingGovernmentImposedDistancingRange =
  PeakTimingRange["ContactReductionGovernment",
     Join [Parameters [RelativeSusceptibilityAwarenessBaseline,
          RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
          RateAwarenessFadingSevereSymptomsBaseline,
          AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
          StartTimeBaseline], \{r_4 \rightarrow factor\}]]
\{\{100., 366.865\}, \{99., 361.952\}, \{98., 357.319\}, \{97., 352.968\}, \{96., 348.817\},
    95., 344.866}, {94., 341.096}, {93., 337.466}, {92., 333.977}, {91., 330.608},
    90., 327.359, \{89., 324.21, \{88., 321.162\}, \{87., 318.194\}, \{86., 315.307\},
   \{85., 312.499\}, \{84., 309.752\}, \{83., 307.085\}, \{82., 304.478\}, \{81., 301.931\},
   {80., 299.424}, {79., 296.977}, {78., 294.591}, {77., 292.265}, {76., 289.959},
   {75., 287.712}, {74., 285.507}, {73., 283.341}, {72., 281.215}, {71., 279.129},
   {70., 277.084}, {69., 275.079}, {68., 273.093}, {67., 271.148}, {66., 269.243},
   \{65., 267.358\}, \{64., 265.493\}, \{63., 263.648\}, \{62., 261.843\}, \{61., 260.038\},
   {60., 258.253}, {59., 256.489}, {58., 254.744}, {57., 252.999}, {56., 251.255},
   \{55., 249.51\}, \{54., 247.785\}, \{53., 246.061\}, \{52., 244.316\}, \{51., 242.591\},
   \{50., 240.867\}, \{49., 239.142\}, \{48., 237.417\}, \{47., 235.693\}, \{46., 233.968\}, \{48., 237.417\}, \{47., 235.693\}, \{48., 233.968\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.417\}, \{48., 237.41
   \{45., 232.264\}, \{44., 230.539\}, \{43., 228.834\}, \{42., 227.13\}, \{41., 225.445\},
   {40., 223.761}, {39., 222.076}, {38., 220.412}, {37., 218.747}, {36., 217.103},
   \{35., 215.458\}, \{34., 213.814\}, \{33., 212.19\}, \{32., 210.565\}, \{31., 208.961\},
   \{30., 207.357\}, \{29., 205.772\}, \{28., 204.188\}, \{27., 202.624\}, \{26., 201.06\},
   \{25., 199.496\}, \{24., 197.951\}, \{23., 196.407\}, \{22., 194.883\},
  \{21., 193.359\}, \{20., 191.835\}, \{19., 190.331\}, \{18., 188.847\},
  \{17., 187.343\}, \{16., 185.859\}, \{15., 184.395\}, \{14., 182.911\},
  \{13., 181.447\}, \{12., 179.983\}, \{11., 178.539\}, \{10., 177.095\},
  \{9., 175.652\}, \{8., 174.208\}, \{7., 172.764\}, \{6., 171.34\}, \{5., 169.896\},
  \{4., 168.472\}, \{3., 167.049\}, \{2., 165.625\}, \{1., 164.221\}, \{0., 162.797\}\}
```

Model with disease-awareness and combined intervention (government-imposed social distancing and handwashing with 30% efficacy)

```
PeakTimingCombinedRange = PeakTimingRange [ "GovernmentAndHand",
  Join [Parameters [RelativeSusceptibilityAwarenessBaseline,
     RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
     RateAwarenessFadingSevereSymptomsBaseline,
     AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
     0.10437], \{r_2 \rightarrow 0.7\}, \{r_4 \rightarrow factor\}]]
\{\{100., 442.247\}, \{99., 437.575\}, \{98., 433.163\}, \{97., 428.992\}, \{96., 425.041\},
  95., 421.251}, {94., 417.641}, {93., 414.192}, {92., 410.863}, {91., 407.655},
  90., 404.566}, {89., 401.578}, {88., 398.67}, {87., 395.883}, {86., 393.156},
  85., 390.508, \{84., 387.962, \{83., 385.455\}, \{82., 383.028\}, \{81., 380.682\},
  80.,\,378.396\}\,,\,\{79.,\,376.15\}\,,\,\{78.,\,373.984\}\,,\,\{77.,\,371.878\}\,,\,\{76.,\,369.833\}\,,
 {75., 367.828}, {74., 365.902}, {73., 364.017}, {72., 362.192}, {71., 360.428},
 {70., 358.703}, {69., 357.039}, {68., 355.434}, {67., 353.87}, {66., 352.346},
  65.,\ 350.882\}\,,\ \{64.,\ 349.478\}\,,\ \{63.,\ 348.095\}\,,\ \{62.,\ 346.751\}\,,\ \{61.,\ 345.468\}\,,
 {60., 344.204}, {59., 342.961}, {58., 341.758}, {57., 340.574}, {56., 339.391},
 \{55., 338.228\}, \{54., 337.065\}, \{53., 335.902\}, \{52., 334.739\}, \{51., 333.556\},
 \{50., 332.372\}, \{49., 331.149\}, \{48., 329.906\}, \{47., 328.642\}, \{46., 327.339\},
  45., 325.995}, {44., 324.612}, {43., 323.188}, {42., 321.724}, {41., 320.22},
 \{40., 318.656\}, \{39., 317.071\}, \{38., 315.427\}, \{37., 313.742\}, \{36., 312.018\},
 \{35., 310.253\}, \{34., 308.468\}, \{33., 306.623\}, \{32., 304.758\},
  [31., 302.853], {30., 300.928}, {29., 298.963}, {28., 296.977},
  [27., 294.972], {26., 292.947}, {25., 290.901}, {24., 288.836}, {23., 286.75},
 \{22., 284.664\}, \{21., 282.559\}, \{20., 280.433\}, \{19., 278.307\},
 \{18., 276.182\}, \{17., 274.036\}, \{16., 271.89\}, \{15., 269.744\}, \{14., 267.578\},
 \{13., 265.413\}, \{12., 263.267\}, \{11., 261.101\}, \{10., 258.935\},
 \{9., 256.769\}, \{8., 254.604\}, \{7., 252.438\}, \{6., 250.272\}, \{5., 248.106\},
 \{4., 245.94\}, \{3., 243.775\}, \{2., 241.609\}, \{1., 239.463\}, \{0., 237.297\}\}
```

Plotting Figure 5 C (main text) (fast spread of awareness)

```
fig5C = Show[ListLinePlot[{PeakTimingMaskRange[;; ;; 3]],
    PeakTimingHandRange, PeakTimingSelfImposedDistancingRange,
    PeakTimingGovernmentImposedDistancingRange[[;;;5]]
     (*,PeakTimingCombinedRange*)}, AspectRatio → 0.75,
   ImageSize \rightarrow 400, PlotRange \rightarrow {All, {0, 800}}, AxesOrigin \rightarrow {0, 0},
   Frame → {{True, False}, {True, False}}, FrameStyle → Directive[Black, 17],
   PlotMarkers → {Graphics[{RGBColor[248 / 255, 196 / 255, 0], Thick, Circle[]},
       ImageSize \rightarrow 10], "", "", "", ""},
   PlotStyle \rightarrow \{\{Thickness[0.01], RGBColor[248 / 255, 196 / 255, 0]\},\
      {Thickness[0.01], RGBColor[26/255, 94/255, 214/255]},
      {Thickness[0.01], RGBColor[192/255, 0, 120/255]},
      {Thickness[0.01], RGBColor[28/255, 162/255, 0]}(*,
      {Thickness[0.01], RGBColor[185/255,76/255,225/255]}*)},
   FrameLabel → {{"Time until the peak\nof diagnoses (months)", None},
      {"Efficacy of prevention measure (%)", None}},
   PlotRangePadding → None, ImagePadding → imagePadding,
   PlotLabel → Style[Row[{"Fast spread of awareness"}], 17, Black],
   {\tt PlotLegends} \rightarrow {\tt Table[Style[Row[\{label\}], Black, 13, "Text"],}
      {label, {"Mask-wearing", "Handwashing", "Self-imposed social distancing",
         "Government-imposed social distancing"(*, "Government-imposed social
           distancing\nand handwashing with 30% efficacy"*)}}],
   FrameTicks \rightarrow {{{\{0, "0"}\}, {365 \times 18 / 12, "18"\}, {365 / 2, "6"\}, {365, "12"\},
        \{365 \times 2, \ "24"\}, \{365 \times 3, \ "36"\}, \{365 \times 4, \ "48"\}, \{365 \times 5, \ "60"\}, \{365 \times 6, \ "60"\}
          "72"}}, None}, {Automatic, None}}], Graphics[{RGBColor[217 / 255, 0, 0]
, Thickness[0.005], Line[{{0, PeakTimingBaseline}, {100, PeakTimingBaseline}}]}],
  Graphics [Text [StyleForm ["C", FontSize → 26], {100 * 0.05, 800 * 0.95}]],
  Graphics[Text[StyleForm["baseline (no awareness)",
      FontSize → 13, FontColor → RGBColor[217 / 255, 0, 0]
], \{28, 125\}]], Graphics[{Black, Arrow[{\{80, 365 \times 16 / 12\}, \{80, 365 / 3.5\}\}}]}],
  Graphics[Text[StyleForm["no large epidemic",
      FontSize \rightarrow 15, FontColor \rightarrow Black], {80, 365 \times 18 / 12}]]]
Export[StringJoin[
   "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
      Resubmission//FinalFigures//Figure5C", ".eps"], fig5C];
Export[StringJoin[
   "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
      Resubmission//FinalFigures//Figure5C", ".eps"], fig5C];
```



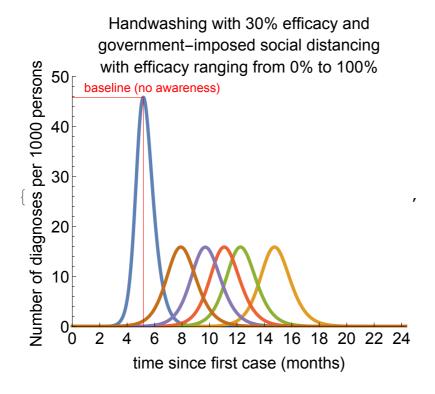
Combined intervention: government-imposed social distancing and handwashing (slow spread of awareness)

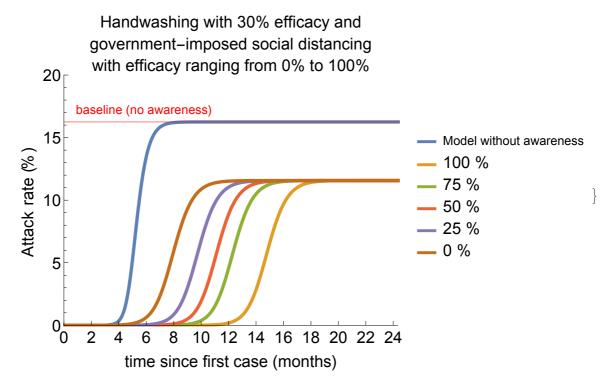
Time when government-imposed social distancing has to start (10 diagnoses)

```
(IQ[t] + IQa[t]) /.
  solution["Hand", Join[Parameters[RelativeSusceptibilityAwarenessBaseline,
      {\tt Rate Awareness Fading Susceptible Exposed Mild Symptoms Baseline,}
      RateAwarenessFadingSevereSymptomsBaseline, 5 \times 10^{\circ} (-5),
      DiagnosisRateAwareBaseline, 0], \{r_2 \rightarrow 0.7\}]] /. t \rightarrow 0.10393
{10.0025}
```

Impact of government-imposed social distancing with efficacy ranging from 0% ($r_4 = 1$) to 100% $(r_4 = 0)$ and handwashing with 30% efficacy $(r_2 = 0.7)$

```
imagePadding = {{47.5, 5}, {60, 0}};
relvars = {1000 (IQ[t] + IQa[t]) / NN[t], (RQ[t] + DD[t]) / Ntot 100};
relyalabs = {"Number of diagnoses per 1000 persons", "Attack rate (%)"};
relylim = {50, 20};
ReductionFactor = Table[i, {i, 0, 1, 0.25}];
PlotCombinedIntervention[vars_, ylabs_, ylim_,
  scenario_, title_, parameters_, range_, legend_] := Table [Show]
   Plot[{Evaluate[vars[i]] /. solution["Baseline", Parameters[0, 0, 0, 0, 0, 0]]],
      Evaluate[Table[vars[i]] /. solution[scenario, parameters], range]]],
     \{t, t_{start}, t_{end}\}\, AspectRatio \rightarrow 0.75, ImageSize \rightarrow 400, PlotRangePadding \rightarrow None,
     PlotRange \rightarrow \{\{0, 2\}, \{0, \text{ylim}[i]\}\}, \text{AxesOrigin} \rightarrow \{0, 0\},
     Frame → {{True, False}, {True, False}}, FrameStyle → Directive[Black, 17],
     PlotStyle → Thickness[0.01], PlotLabel → Style[title, 17, Black],
     FrameLabel → {{ylabs[i], None}, {"time since first case (months)", None}},
     ImagePadding → imagePadding,
     FrameTicks \rightarrow {{Automatic, None}, {{{0, "0"}, {60 / 365, "2"}, {120 / 365, "4"},
          {180 / 365, "6"}, {240 / 365, "8"}, {300 / 365, "10"}, {360 / 365, "12"}, {420 / 365, "14"}, {480 / 365, "16"}, {540 / 365, "18"}, {600 / 365, "20"},
          \{660 / 365, "22"\}, \{720 / 365, "24"\}\}, None\}\}, PlotLegends \rightarrow
      If[i == 2, Prepend[Table[Style[Row[legend], Black, 17, "Text"], range],
         "Model without awareness"], None]], If [i = 2, \{Graphics[
       {Red, Line[{{0, AttackRateBaseline}, {tend, AttackRateBaseline}}]}],
      Graphics [Text[StyleForm["baseline (no awareness)", FontSize → 13,
          FontColor → Red], {175 / 365, AttackRateBaseline + 1}]]},
     \{Graphics | \{Red, Line | \{\{PeakTimingBaseline / 365, 0\}, \}\}
           {PeakTimingBaseline / 365, PeakBaseline}}]], Graphics[{Red,
        Line [{ {0, PeakBaseline}, {PeakTimingBaseline / 365, PeakBaseline}}]}],
      Graphics[Text[StyleForm["baseline (no awareness)", FontSize → 13,
          FontColor \rightarrow Red], {175 / 365, PeakBaseline + 2}]]}], {i, 1, Length[vars]}]
PlotCombinedIntervention relvars, relyalabs, relylim, GovernmentAndHand,
 "Handwashing with 30% efficacy and \ngovernment-imposed
   social distancing\nwith efficacy ranging from 0% to 100%",
 Join[Parameters[RelativeSusceptibilityAwarenessBaseline,
   {\tt RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,}
   RateAwarenessFadingSevereSymptomsBaseline, AcquisitionRateAwarenessBaseline,
   DiagnosisRateAwareBaseline, 0.10393], \{r_2 \rightarrow 0.7\}, \{r_4 \rightarrow factor\}],
 {factor, ReductionFactor}, {IntegerPart[(1 - factor) 100], "%"}]
```





Plotting Figure 4 A, B and C (main text) (slow spread of awareness)

```
ReductionFactor = Table[i, {i, 0, 1, 0.01}];
PeakMaskRange =
  PeakRange["Mask", Join[Parameters[RelativeSusceptibilityAwarenessBaseline,
          RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
          RateAwarenessFadingSevereSymptomsBaseline, 5 \times 10^{-4} (-5),
          DiagnosisRateAwareBaseline, StartTimeBaseline], \{r_1 \rightarrow factor\}]
\{\{100., 27.0069\}, \{99., 26.7787\}, \{98., 26.55\}, \{97., 26.3206\}, \{96., 26.0906\},
     95., 25.8601}, {94., 25.6289}, {93., 25.3972}, {92., 25.1649}, {91., 24.9321},
   {90., 24.6987}, {89., 24.4647}, {88., 24.2302}, {87., 23.9952}, {86., 23.7597},
   {85., 23.5237}, {84., 23.2871}, {83., 23.0501}, {82., 22.8126}, {81., 22.5746},
   \{80., 22.3361\}, \{79., 22.0972\}, \{78., 21.8579\}, \{77., 21.6181\}, \{76., 21.3779\},
   \{75., 21.1372\}, \{74., 20.8962\}, \{73., 20.6548\}, \{72., 20.4129\},
   \{71., 20.1707\}, \{70., 19.9282\}, \{69., 19.6853\}, \{68., 19.442\}, \{67., 19.1984\},
   \{66., 18.9545\}, \{65., 18.7103\}, \{64., 18.4658\}, \{63., 18.2209\},
   {62., 17.9758}, {61., 17.7305}, {60., 17.4848}, {59., 17.239}, {58., 16.9929},
   {57., 16.7466}, {56., 16.5}, {55., 16.2533}, {54., 16.0064}, {53., 15.7593},
   \{52., 15.512\}, \{51., 15.2646\}, \{50., 15.0171\}, \{49., 14.7694\}, \{48., 14.5216\},
   {47., 14.2737}, {46., 14.0257}, {45., 13.7776}, {44., 13.5294}, {43., 13.2812},
   {42., 13.0329}, {41., 12.7846}, {40., 12.5363}, {39., 12.2879}, {38., 12.0396},
   \{37., 11.7912\}, \{36., 11.5429\}, \{35., 11.2946\}, \{34., 11.0464\}, \{33., 10.7982\},
   \{32., 10.5501\}, \{31., 10.302\}, \{30., 10.054\}, \{29., 9.80618\}, \{28., 9.55843\},
   \{27., 9.31079\}, \{26., 9.0633\}, \{25., 8.81593\}, \{24., 8.56872\}, \{23., 8.32168\},
   \{22., 8.07481\}, \{21., 7.82812\}, \{20., 7.58163\}, \{19., 7.33535\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.08928\}, \{18., 7.0892
   \{17., 6.84342\}, \{16., 6.59781\}, \{15., 6.35245\}, \{14., 6.10735\},
   \{13., 5.86251\}, \{12., 5.61793\}, \{11., 5.37363\}, \{10., 5.12964\},
   \{9., 4.88594\}, \{8., 4.64256\}, \{7., 4.39949\}, \{6., 4.15676\}, \{5., 3.91437\},
   \{4., 3.67232\}, \{3., 3.43062\}, \{2., 3.18929\}, \{1., 2.94834\}, \{0., 2.70776\}\}
```

PeakHandRange =

```
PeakRange ["Hand", Join [Parameters [RelativeSusceptibilityAwarenessBaseline,
   RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
   RateAwarenessFadingSevereSymptomsBaseline, 5 \times 10^{\circ} (-5),
   DiagnosisRateAwareBaseline, StartTimeBaseline], \{r_2 \rightarrow factor\}]
```

```
\{\{100., 30.0847\}, \{99., 29.8002\}, \{98., 29.515\}, \{97., 29.2293\}, \{96., 28.943\},
  95., 28.6561}, {94., 28.3688}, {93., 28.0809}, {92., 27.7925}, {91., 27.5037},
 {90., 27.2144}, {89., 26.9248}, {88., 26.6348}, {87., 26.3444}, {86., 26.0537},
 {85., 25.7627}, {84., 25.4715}, {83., 25.18}, {82., 24.8883}, {81., 24.5964},
 {80., 24.3044}, {79., 24.0122}, {78., 23.72}, {77., 23.4276}, {76., 23.1353},
 {75., 22.8429}, {74., 22.5506}, {73., 22.2582}, {72., 21.966}, {71., 21.6739},
 \{70., 21.3819\}, \{69., 21.09\}, \{68., 20.7984\}, \{67., 20.507\}, \{66., 20.2158\},
 {65., 19.9249}, {64., 19.6343}, {63., 19.344}, {62., 19.0541}, {61., 18.7646},
 {60., 18.4755}, {59., 18.1868}, {58., 17.8986}, {57., 17.6109}, {56., 17.3237},
 {55., 17.0371}, {54., 16.7511}, {53., 16.4656}, {52., 16.1808}, {51., 15.8966},
 {50., 15.6131}, {49., 15.3303}, {48., 15.0482}, {47., 14.7669}, {46., 14.4863},
 {45., 14.2065}, {44., 13.9276}, {43., 13.6494}, {42., 13.3721}, {41., 13.0957},
 {40., 12.8202}, {39., 12.5457}, {38., 12.272}, {37., 11.9993}, {36., 11.7276},
 \{35., 11.4568\}, \{34., 11.1871\}, \{33., 10.9184\}, \{32., 10.6507\},
 \{31., 10.3841\}, \{30., 10.1186\}, \{29., 9.85413\}, \{28., 9.59079\},
 \{27., 9.32855\}, \{26., 9.06745\}, \{25., 8.80749\}, \{24., 8.54867\},
 \{23., 8.29104\}, \{22., 8.03457\}, \{21., 7.77929\}, \{20., 7.52521\},
 {19., 7.27235}, {18., 7.0207}, {17., 6.77027}, {16., 6.52109}, {15., 6.27315},
 \{14., 6.02647\}, \{13., 5.78105\}, \{12., 5.53689\}, \{11., 5.29401\}, \{10., 5.0524\},
 \{9., 4.81208\}, \{8., 4.57305\}, \{7., 4.33531\}, \{6., 4.09888\}, \{5., 3.86375\},
 \{4., 3.62992\}, \{3., 3.3974\}, \{2., 3.1662\}, \{1., 2.93632\}, \{0., 2.70776\}\}
```

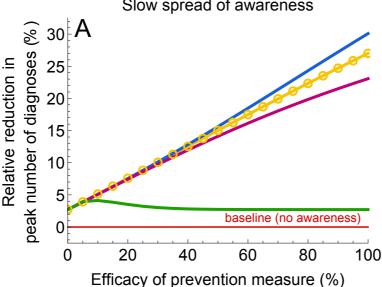
PeakSelfImposedDistancingRange = PeakRange ["ContactReductionIndividuals" , Join [Parameters [RelativeSusceptibilityAwarenessBaseline,

RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline, RateAwarenessFadingSevereSymptomsBaseline, 5×10^{-5} , DiagnosisRateAwareBaseline, StartTimeBaseline], {r₃ → factor}]]

```
\{\{100., 23.0653\}, \{99., 22.9132\}, \{98., 22.7603\}, \{97., 22.6065\}, \{96., 22.4519\},
  95.,\ 22.2964\}\,,\ \{94.,\ 22.1399\}\,,\ \{93.,\ 21.9824\}\,,\ \{92.,\ 21.8239\}\,,\ \{91.,\ 21.6644\}\,,
  90., 21.5039, \{89., 21.3423\}, \{88., 21.1796\}, \{87., 21.0158\}, \{86., 20.8508\},
  85., 20.6848, \{84., 20.5176\}, \{83., 20.3492\}, \{82., 20.1796\}, \{81., 20.0089\},
  80., 19.8369, \{79., 19.6637\}, \{78., 19.4894\}, \{77., 19.3137\}, \{76., 19.1369\},
 \{75., 18.9588\}, \{74., 18.7795\}, \{73., 18.5989\}, \{72., 18.417\}, \{71., 18.2339\},
 \{70., 18.0496\}, \{69., 17.864\}, \{68., 17.6771\}, \{67., 17.489\}, \{66., 17.2996\},
  65., 17.109, \{64., 16.9171, \{63., 16.724, \{62., 16.5297, \{61., 16.3341,
  [60., 16.1373], {59., 15.9393}, {58., 15.7401}, {57., 15.5397}, {56., 15.3381},
  [55., 15.1353], {54., 14.9314}, {53., 14.7263}, {52., 14.5201},
  51., 14.3127}, {50., 14.1042}, {49., 13.8947}, {48., 13.684}, {47., 13.4723},
  46., 13.2595}, {45., 13.0457}, {44., 12.8309}, {43., 12.6151},
  42., 12.3983}, {41., 12.1805}, {40., 11.9618}, {39., 11.7422},
  38., 11.5217\}, \{37., 11.3003\}, \{36., 11.078\}, \{35., 10.8549\}, \{34., 10.631\},
  33., 10.4063, \{32., 10.1808\}, \{31., 9.9546\}, \{30., 9.72767\}, \{29., 9.50001\},
  28., 9.2717, \{27., 9.04274\}, \{26., 8.81314\}, \{25., 8.58295\}, \{24., 8.35217\},
  23., 8.12086, \{22., 7.889\}, \{21., 7.65666\}, \{20., 7.42383\}, \{19., 7.19056\},
 \{18., 6.95688\}, \{17., 6.72278\}, \{16., 6.48833\}, \{15., 6.25354\},
 \{14., 6.0184\}, \{13., 5.78299\}, \{12., 5.54731\}, \{11., 5.3114\}, \{10., 5.07526\},
 \{9., 4.83893\}, \{8., 4.60244\}, \{7., 4.36582\}, \{6., 4.12908\}, \{5., 3.89226\},
 \{4., 3.65538\}, \{3., 3.41847\}, \{2., 3.18154\}, \{1., 2.94463\}, \{0., 2.70776\}\}
```

```
PeakGovernmentImposedDistancingRange = PeakRange [ "ContactReductionGovernment",
     Join [Parameters [RelativeSusceptibilityAwarenessBaseline,
          RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
          RateAwarenessFadingSevereSymptomsBaseline, 5 \times 10^{\circ} (-5),
          DiagnosisRateAwareBaseline, StartTimeBaseline], \{r_4 \rightarrow factor\}]
\{\{100., 2.71047\}, \{99., 2.71052\}, \{98., 2.71054\}, \{97., 2.7106\}, \{96., 2.71065\},
     95., 2.71069, \{94., 2.71075, \{93., 2.71081\}, \{92., 2.71088\}, \{91., 2.71093\},
   \{90., 2.711\}, \{89., 2.71107\}, \{88., 2.71115\}, \{87., 2.71124\}, \{86., 2.71134\},
   {85., 2.71144}, {84., 2.71153}, {83., 2.71165}, {82., 2.71178}, {81., 2.7119},
   \{80., 2.71205\}, \{79., 2.71221\}, \{78., 2.71238\}, \{77., 2.71259\}, \{76., 2.71278\},
   {75., 2.71302}, {74., 2.71326}, {73., 2.71354}, {72., 2.71385}, {71., 2.71419},
   {70., 2.71456}, {69., 2.71498}, {68., 2.71545}, {67., 2.71597}, {66., 2.71655},
   {65., 2.7172}, {64., 2.71793}, {63., 2.71875}, {62., 2.71966}, {61., 2.72067},
   {60., 2.72181}, {59., 2.72309}, {58., 2.72453}, {57., 2.72616}, {56., 2.72796},
   \{55., 2.73\}, \{54., 2.7323\}, \{53., 2.73488\}, \{52., 2.73779\}, \{51., 2.74105\},
   {50., 2.7447}, {49., 2.7488}, {48., 2.75342}, {47., 2.75859}, {46., 2.76439},
   {45., 2.7709}, {44., 2.77816}, {43., 2.78629}, {42., 2.79538}, {41., 2.80552},
   {40., 2.81685}, {39., 2.82944}, {38., 2.84347}, {37., 2.85903}, {36., 2.8763},
   \{35., 2.89544\}, \{34., 2.91659\}, \{33., 2.93992\}, \{32., 2.96562\},
   \{31., 2.99385\}, \{30., 3.02481\}, \{29., 3.05866\}, \{28., 3.09556\},
   \{27., 3.13568\}, \{26., 3.17912\}, \{25., 3.22603\}, \{24., 3.27641\},
   {23., 3.33033}, {22., 3.38766}, {21., 3.44829}, {20., 3.51197}, {19., 3.5783},
   \{18., 3.64672\}, \{17., 3.71652\}, \{16., 3.78675\}, \{15., 3.85615\},
   \{14., 3.92322\}, \{13., 3.98609\}, \{12., 4.0425\}, \{11., 4.08972\}, \{10., 4.12458\},
   \{9., 4.14339\}, \{8., 4.14187\}, \{7., 4.11519\}, \{6., 4.05792\}, \{5., 3.96412\},
   \{4., 3.82727\}, \{3., 3.64049\}, \{2., 3.39654\}, \{1., 3.08806\}, \{0., 2.70776\}\}
PeakCombinedRange = PeakRange["GovernmentAndHand",
     Join [Parameters [RelativeSusceptibilityAwarenessBaseline,
          RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
          RateAwarenessFadingSevereSymptomsBaseline, 5 \times 10^{-5},
          DiagnosisRateAwareBaseline, 0.10393], \{r_2 \rightarrow 0.7\}, \{r_4 \rightarrow factor\}]
\{\{100., 10.1212\}, \{99., 10.1212\}, \{98., 10.1213\}, \{97., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1213\}, \{96., 10.1
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     80., 10.1227\}, \{79., 10.1228\}, \{78., 10.123\}, \{77., 10.1232\}, \{76., 10.1234\},
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     66., 10.127\}, \{65., 10.1277\}, \{64., 10.1284\}, \{63., 10.1291\}, \{62., 10.13\}, \{64., 10.127\}, \{64., 10.1284\}, \{65., 10.1291\}, \{65., 10.127\}, \{65., 10.127\}, \{65., 10.127\}, \{65., 10.127\}, \{65., 10.127\}, \{65., 10.127\}, \{65., 10.127\}, \{65., 10.127\}, \{65., 10.127\}, \{65., 10.127\}, \{65., 10.127\}, \{65., 10.127\}, \{65., 10.127\}, \{65., 10.127\}, \{65., 10.127\}, \{65., 10.127\}, \{65., 10.127\}, \{65., 10.127\}, \{65., 10.127\}, \{65., 10.127\}, \{65., 10.127\}, \{65., 10.128\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{65., 10.129\}, \{
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     46., 10.1746}, {45., 10.1811}, {44., 10.1885}, {43., 10.1968},
     42., 10.2061}, {41., 10.2165}, {40., 10.2281}, {39., 10.2412},
     38., 10.2557, \{37., 10.2719\}, \{36., 10.29\}, \{35., 10.31\}, \{34., 10.3323\},
     33., 10.357, \{32., 10.3843\}, \{31., 10.4145\}, \{30., 10.4476\}, \{29., 10.484\},
     28., 10.5239, \{27., 10.5674\}, \{26., 10.6148\}, \{25., 10.666\}, \{24., 10.7214\},
     23., 10.7808}, {22., 10.8442}, {21., 10.9115}, {20., 10.9825},
   {19., 11.0566}, {18., 11.1333}, {17., 11.2118}, {16., 11.291}, {15., 11.3695},
   {14., 11.4455}, {13., 11.517}, {12., 11.5813}, {11., 11.6353}, {10., 11.6755},
   \{9., 11.6976\}, \{8., 11.6969\}, \{7., 11.668\}, \{6., 11.6048\}, \{5., 11.501\},
   \{4., 11.3494\}, \{3., 11.1428\}, \{2., 10.8737\}, \{1., 10.5347\}, \{0., 10.1186\}\}
```

```
imagePadding = {{72.5, 15}, {50, 5}};
fig4A = Show[ListLinePlot[
   {PeakMaskRange[;;;;5], PeakHandRange, PeakSelfImposedDistancingRange,
    PeakGovernmentImposedDistancingRange[];; ;; 5] (*, PeakCombinedRange*)},
   AspectRatio \rightarrow 0.75, ImageSize \rightarrow 400, PlotRange \rightarrow {All, {-2.5, 32.5}},
   AxesOrigin \rightarrow \{0, 0\}, Frame \rightarrow \{\{True, False\}, \{True, False\}\},
   FrameStyle → Directive[Black, 17],
   PlotStyle \rightarrow \{\{\text{Thickness}[0.01], \text{RGBColor}[248 / 255, 196 / 255, 0]\}, \}
      {Thickness[0.01], RGBColor[26/255, 94/255, 214/255]},
      {Thickness[0.01], RGBColor[192/255, 0, 120/255]},
      {Thickness[0.01], RGBColor[28/255, 162/255, 0]}(*,{Thickness[0.01],
       RGBColor[185/255,76/255,225/255] \} *) \}, PlotRangePadding \rightarrow None,
   PlotMarkers → {Graphics[{RGBColor[248 / 255, 196 / 255, 0], Thick, Circle[]},
       ImageSize → 10], "", "", "", ""},
   PlotLabel → Style[Row[{"Slow spread of awareness"}], 17, Black],
   ImagePadding → imagePadding,
   FrameLabel → {{"Relative reduction in\npeak number of diagnoses (%)", None},
      {"Efficacy of prevention measure (%)", None}}],
  Graphics [Text[StyleForm["A", FontSize \rightarrow 26], {100 * 0.05, 32.5 * 0.95}]],
  Graphics[Text[StyleForm["baseline (no awareness)", FontSize → 13,
     FontColor → RGBColor[217 / 255, 0, 0]], {75, 1.5}]], Graphics[
   {RGBColor[217 / 255, 0, 0], Thickness[0.005], Line[{{0, 0}, {100, 0}}]}]]
Export[StringJoin[
   "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
     Resubmission//FinalFigures//Figure4A", ".eps"], fig4A];
Export[StringJoin[
   "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
     Resubmission//FinalFigures//Figure4A", ".eps"], fig4A];
                  Slow spread of awareness
```



```
AttackRateMaskRange = AttackRateRange["Mask",
   Join [Parameters [RelativeSusceptibilityAwarenessBaseline,
       RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
       RateAwarenessFadingSevereSymptomsBaseline, 5 \times 10^{\circ} (-5),
       DiagnosisRateAwareBaseline, StartTimeBaseline], \{r_1 \rightarrow factor\}]
\{\{100., 12.8943\}, \{99., 12.9324\}, \{98., 12.9705\}, \{97., 13.0086\}, \{96., 13.0467\}, \{98., 12.9705\}, \{97., 13.0086\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9705\}, \{98., 12.9
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  {66., 14.148}, {65., 14.1826}, {64., 14.2171}, {63., 14.2514}, {62., 14.2855},
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  {56., 14.4864}, {55., 14.5192}, {54., 14.5518}, {53., 14.5842}, {52., 14.6165},
  {51., 14.6485}, {50., 14.6803}, {49., 14.712}, {48., 14.7434}, {47., 14.7746},
  {46., 14.8056}, {45., 14.8364}, {44., 14.867}, {43., 14.8974}, {42., 14.9276},
  {41., 14.9575}, {40., 14.9873}, {39., 15.0168}, {38., 15.0461}, {37., 15.0752},
  { 36., 15.1041}, { 35., 15.1328}, { 34., 15.1613}, { 33., 15.1895}, { 32., 15.2175},
  \{31., 15.2453\}, \{30., 15.2729\}, \{29., 15.3003\}, \{28., 15.3274\},
  \{27., 15.3544\}, \{26., 15.3811\}, \{25., 15.4076\}, \{24., 15.4338\},
  \{23., 15.4599\}, \{22., 15.4857\}, \{21., 15.5114\}, \{20., 15.5368\},
  {19., 15.562}, {18., 15.587}, {17., 15.6117}, {16., 15.6363}, {15., 15.6606},
  {14., 15.6847}, {13., 15.7086}, {12., 15.7323}, {11., 15.7558}, {10., 15.779},
  \{9., 15.8021\}, \{8., 15.8249\}, \{7., 15.8476\}, \{6., 15.87\}, \{5., 15.8922\},
  {4., 15.9142}, {3., 15.936}, {2., 15.9577}, {1., 15.9791}, {0., 16.0003}}
AttackRateHandRange = AttackRateRange["Hand",
   Join [Parameters [RelativeSusceptibilityAwarenessBaseline,
       RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
       RateAwarenessFadingSevereSymptomsBaseline, 5 \times 10^{-5},
       DiagnosisRateAwareBaseline, StartTimeBaseline], \{r_2 \rightarrow factor\}]
\{\{100., 12.2032\}, \{99., 12.253\}, \{98., 12.303\}, \{97., 12.3533\}, \{96., 12.4037\},
   95.,\ 12.4543\}\,,\ \{94.,\ 12.5049\}\,,\ \{93.,\ 12.5556\}\,,\ \{92.,\ 12.6063\}\,,\ \{91.,\ 12.6571\}\,,
   90., 12.7078, \{89., 12.7584, \{88., 12.809\}, \{87., 12.8594\}, \{86., 12.9098\},
   85., 12.96, \{84., 13.0101\}, \{83., 13.0599\}, \{82., 13.1096\}, \{81., 13.1591\},
   80., 13.2084, \{79., 13.2575\}, \{78., 13.3063\}, \{77., 13.3549\}, \{76., 13.4032\},
  {75., 13.4512}, {74., 13.4989}, {73., 13.5463}, {72., 13.5935}, {71., 13.6403},
  \{70., 13.6868\}, \{69., 13.733\}, \{68., 13.7788\}, \{67., 13.8243\}, \{66., 13.8694\},
   65., 13.9142}, \{64., 13.9587}, \{63., 14.0027}, \{62., 14.0464}, \{61., 14.0897},
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   [55., 14.3415], {54., 14.3821}, {53., 14.4223}, {52., 14.4621}, {51., 14.5015},
   [50., 14.5405], {49., 14.579}, {48., 14.6172}, {47., 14.655}, {46., 14.6923},
   45., 14.7293}, {44., 14.7658}, {43., 14.802}, {42., 14.8377}, {41., 14.873},
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   35., 15.0766}, {34., 15.1091}, {33., 15.1413}, {32., 15.173}, {31., 15.2044},
   30., 15.2354, \{29., 15.266\}, \{28., 15.2962\}, \{27., 15.3261\}, \{26., 15.3555\},
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  \{13., 15.7058\}, \{12., 15.7303\}, \{11., 15.7545\}, \{10., 15.7784\},
  {9., 15.802}, {8., 15.8252}, {7., 15.8482}, {6., 15.8708}, {5., 15.8931},
  \{4., 15.9151\}, \{3., 15.9368\}, \{2., 15.9583\}, \{1., 15.9794\}, \{0., 16.0003\}\}
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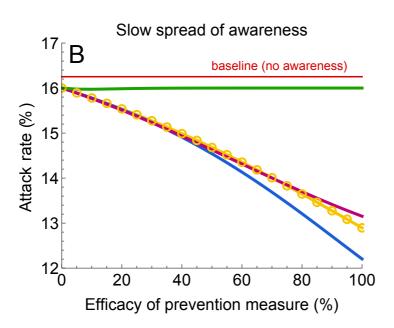
```
AttackRateSelfImposedDistancingRange =
 AttackRateRange["ContactReductionIndividuals",
  Join [Parameters [RelativeSusceptibilityAwarenessBaseline,
    RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
    RateAwarenessFadingSevereSymptomsBaseline, 5 \times 10^{\circ} (-5),
    DiagnosisRateAwareBaseline, StartTimeBaseline], \{r_3 \rightarrow factor\}]
\{\{100., 13.1526\}, \{99., 13.1776\}, \{98., 13.2029\}, \{97., 13.2284\}, \{96., 13.2542\},
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 {65., 14.1564}, {64., 14.1876}, {63., 14.2188}, {62., 14.2501}, {61., 14.2814},
 \{60., 14.3128\}, \{59., 14.3441\}, \{58., 14.3755\}, \{57., 14.4068\}, \{56., 14.4382\},
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 \{31., 15.2005\}, \{30., 15.2294\}, \{29., 15.2581\}, \{28., 15.2866\}, \{27., 15.315\},
 \{26., 15.3431\}, \{25., 15.3711\}, \{24., 15.3989\}, \{23., 15.4265\},
  [22., 15.4538], \{21., 15.481\}, \{20., 15.508\}, \{19., 15.5347\}, \{18., 15.5613\},
 \{17., 15.5876\}, \{16., 15.6137\}, \{15., 15.6396\}, \{14., 15.6652\},
 \{13., 15.6907\}, \{12., 15.7159\}, \{11., 15.7409\}, \{10., 15.7656\},
 \{9., 15.7901\}, \{8., 15.8144\}, \{7., 15.8385\}, \{6., 15.8623\}, \{5., 15.8859\},
 \{4., 15.9092\}, \{3., 15.9323\}, \{2., 15.9552\}, \{1., 15.9779\}, \{0., 16.0003\}\}
AttackRateGovernmentImposedDistancingRange =
 AttackRateRange["ContactReductionGovernment",
  Join [Parameters [RelativeSusceptibilityAwarenessBaseline,
    RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
    RateAwarenessFadingSevereSymptomsBaseline, 5 \times 10^{-5},
    DiagnosisRateAwareBaseline, StartTimeBaseline], \{r_4 \rightarrow factor\}]
\{\{100., 16.0002\}, \{99., 16.0002\}, \{98., 16.0002\}, \{97., 16.0002\}, \{96., 16.0002\},
  95., 16.0002, \{94., 16.0002\}, \{93., 16.0002\}, \{92., 16.0002\}, \{91., 16.0002\},
  90., 16.0002, \{89., 16.0002\}, \{88., 16.0002\}, \{87., 16.0002\}, \{86., 16.0002\},
  85., 16.0002, \{84., 16.0002\}, \{83., 16.0002\}, \{82., 16.0002\}, \{81., 16.0002\},
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  29., 15.9937}, {28., 15.993}, {27., 15.9923}, {26., 15.9914}, {25., 15.9906},
  24., 15.9896}, {23., 15.9886}, {22., 15.9875}, {21., 15.9864}, {20., 15.9851},
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 {14., 15.9772}, {13., 15.976}, {12., 15.9748}, {11., 15.9738}, {10., 15.9731},
 {9., 15.9726}, {8., 15.9726}, {7., 15.973}, {6., 15.974}, {5., 15.9757},
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 $\{4., 15.9783\}, \{3., 15.9818\}, \{2., 15.9866\}, \{1., 15.9926\}, \{0., 16.0003\}\}$

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AttackRateCombinedRange = AttackRateRange["GovernmentAndHand",
  Join [Parameters [RelativeSusceptibilityAwarenessBaseline,
    RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
    RateAwarenessFadingSevereSymptomsBaseline, 5 \times 10^{\circ} (-5),
    DiagnosisRateAwareBaseline, 0.10393], \{r_2 \rightarrow 0.7\}, \{r_4 \rightarrow factor\}]
\{\{100., 15.2353\}, \{99., 15.2353\}, \{98., 15.2353\}, \{97., 15.2353\}, \{96., 15.2353\},
  95., 15.2353}, {94., 15.2353}, {93., 15.2353}, {92., 15.2353}, {91., 15.2353},
 {90., 15.2353}, {89., 15.2353}, {88., 15.2353}, {87., 15.2353}, {86., 15.2353},
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 {45., 15.2341}, {44., 15.234}, {43., 15.2338}, {42., 15.2336}, {41., 15.2334},
 \{40., 15.2332\}, \{39., 15.2329\}, \{38., 15.2326\}, \{37., 15.2323\},
 {36., 15.2319}, {35., 15.2315}, {34., 15.231}, {33., 15.2305}, {32., 15.2299},
 \{31., 15.2292\}, \{30., 15.2285\}, \{29., 15.2278\}, \{28., 15.2269\},
 \{27., 15.2259\}, \{26., 15.2249\}, \{25., 15.2238\}, \{24., 15.2226\},
 {23., 15.2212}, {22., 15.2198}, {21., 15.2183}, {20., 15.2167}, {19., 15.215},
 \{18., 15.2132\}, \{17., 15.2114\}, \{16., 15.2095\}, \{15., 15.2077\},
 \{14., 15.2058\}, \{13., 15.204\}, \{12., 15.2024\}, \{11., 15.201\}, \{10., 15.1999\},
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 $\{9., 15.1992\}, \{8., 15.1989\}, \{7., 15.1994\}, \{6., 15.2006\}, \{5., 15.2028\},$ $\{4., 15.2062\}, \{3., 15.2109\}, \{2., 15.2172\}, \{1., 15.2253\}, \{0., 15.2354\}\}$

```
fig4B = Show[ListLinePlot[{AttackRateMaskRange[;;;;5],
    AttackRateHandRange, AttackRateSelfImposedDistancingRange,
    AttackRateGovernmentImposedDistancingRange[;;;;5]
    (*,AttackRateCombinedRange*)}, AspectRatio → 0.75,
   ImageSize \rightarrow 400, PlotRange \rightarrow {{0, 100}, {12, 17}}, AxesOrigin \rightarrow {0, 0},
   Frame → {{True, False}, {True, False}}, FrameStyle → Directive[Black, 17],
   PlotMarkers → {Graphics[{RGBColor[248 / 255, 196 / 255, 0], Thick, Circle[]},
      ImageSize → 10], "", "", "", ""},
   PlotStyle \rightarrow {{Thickness[0.01], RGBColor[248 / 255, 196 / 255, 0]},
     {Thickness[0.01], RGBColor[26 / 255, 94 / 255, 214 / 255]},
     {Thickness[0.01], RGBColor[192/255, 0, 120/255]},
     {Thickness[0.01], RGBColor[28/255, 162/255, 0]}(*,
     {Thickness[0.01], RGBColor[185/255,76/255,225/255]}*)},
   FrameLabel → {{"Attack rate (%)", None},
     {"Efficacy of prevention measure (%)", None}}, PlotRangePadding \rightarrow None,
   PlotLabel → Style[Row[{"Slow spread of awareness"}], 17, Black],
   ImagePadding → imagePadding],
  Graphics[{RGBColor[217 / 255, 0, 0], Thickness[0.005],
    Line[{{0, AttackRateBaseline}, {100, AttackRateBaseline}}]}],
  Graphics[Text[StyleForm["baseline (no awareness)", FontSize → 13,
     FontColor → RGBColor[217 / 255, 0, 0]], {72.5, 16.5}]]]
Export[StringJoin[
   "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
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     Resubmission//FinalFigures//Figure4B", ".eps"], fig4B];
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```
PeakTimingMaskRange = PeakTimingRange["Mask",
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       RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
       RateAwarenessFadingSevereSymptomsBaseline, 5 \times 10^{\circ} (-5),
       DiagnosisRateAwareBaseline, StartTimeBaseline], \{r_1 \rightarrow factor\}]
\{\{100., 152.309\}, \{99., 152.349\}, \{98., 152.369\}, \{97., 152.409\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.429\}, \{96., 152.
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   [80., 152.891], {79., 152.911}, {78., 152.931}, {77., 152.971}, {76., 152.991},
  {75., 153.011}, {74., 153.031}, {73., 153.051}, {72., 153.091}, {71., 153.111},
  {70., 153.131}, {69., 153.151}, {68., 153.171}, {67., 153.191}, {66., 153.211},
  {65., 153.251}, {64., 153.272}, {63., 153.292}, {62., 153.312}, {61., 153.332},
  {60., 153.352}, {59., 153.372}, {58., 153.392}, {57., 153.392}, {56., 153.412},
  {55., 153.432}, {54., 153.452}, {53., 153.472}, {52., 153.492}, {51., 153.512},
  {50., 153.532}, {49., 153.532}, {48., 153.552}, {47., 153.572}, {46., 153.592},
  {45., 153.592}, {44., 153.612}, {43., 153.632}, {42., 153.632}, {41., 153.653},
  {40., 153.673}, {39., 153.673}, {38., 153.693}, {37., 153.693}, {36., 153.713},
  { 35., 153.713}, { 34., 153.733}, { 33., 153.733}, { 32., 153.753}, { 31., 153.753},
   [30., 153.773], {29., 153.773}, {28., 153.793}, {27., 153.793}, {26., 153.793},
   25., 153.813}, {24., 153.813}, {23., 153.813}, {22., 153.833},
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  {4., 153.873}, {3., 153.873}, {2., 153.873}, {1., 153.873}, {0., 153.873}}
PeakTimingHandRange = PeakTimingRange["Hand",
   Join [Parameters [RelativeSusceptibilityAwarenessBaseline,
       RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
       RateAwarenessFadingSevereSymptomsBaseline, 5 \times 10^{-5},
       DiagnosisRateAwareBaseline, StartTimeBaseline], \{r_2 \rightarrow factor\}]
\{\{100., 151.567\}, \{99., 151.607\}, \{98., 151.667\}, \{97., 151.707\}, \{96., 151.767\},
   95., 151.808}, {94., 151.868}, {93., 151.908}, {92., 151.948}, {91., 152.008},
   90., 152.048}, {89., 152.088}, {88., 152.149}, {87., 152.189}, {86., 152.229},
   85., 152.269}, {84., 152.329}, {83., 152.369}, {82., 152.409},
   81., 152.449}, {80., 152.489}, {79., 152.53}, {78., 152.57}, {77., 152.61},
   76., 152.65}, {75., 152.69}, {74., 152.73}, {73., 152.77}, {72., 152.81},
   71., 152.83, \{70., 152.87\}, \{69., 152.911\}, \{68., 152.951\}, \{67., 152.971\},
   66., 153.011, \{65., 153.051, \{64., 153.071, \{63., 153.111, \{62., 153.131,
   61., 153.171, \{60., 153.191, \{59., 153.231\}, \{58., 153.251\}, \{57., 153.292\},
   56., 153.312, \{55., 153.332, \{54., 153.352\}, \{53., 153.392\}, \{52., 153.412\},
   51., 153.432, \{50., 153.452, \{49., 153.472, \{48., 153.492\}, \{47., 153.512\},
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   31., 153.773}, {30., 153.773}, {29., 153.793}, {28., 153.793}, {27., 153.813},
   26., 153.813}, {25., 153.833}, {24., 153.833}, {23., 153.833}, {22., 153.853},
   21., 153.853}, {20., 153.853}, {19., 153.853}, {18., 153.873},
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```

```
PeakTimingSelfImposedDistancingRange =
  PeakTimingRange["ContactReductionIndividuals",
     Join [Parameters [RelativeSusceptibilityAwarenessBaseline,
          RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
          RateAwarenessFadingSevereSymptomsBaseline, 5\times10\,\ensuremath{^{^{\circ}}}\xspace (-5),
          DiagnosisRateAwareBaseline, StartTimeBaseline], \{r_3 \rightarrow factor\}]
\{\{100., 151.908\}, \{99., 151.928\}, \{98., 151.968\}, \{97., 152.008\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.048\}, \{96., 152.
    95., 152.068}, {94., 152.108}, {93., 152.149}, {92., 152.189}, {91., 152.209},
    [90., 152.249], {89., 152.289}, {88., 152.309}, {87., 152.349}, {86., 152.369},
   {85., 152.409}, {84., 152.449}, {83., 152.469}, {82., 152.509}, {81., 152.53},
   {80., 152.57}, {79., 152.59}, {78., 152.63}, {77., 152.65}, {76., 152.69},
   {75., 152.71}, {74., 152.73}, {73., 152.77}, {72., 152.79}, {71., 152.83},
   {70., 152.85}, {69., 152.891}, {68., 152.911}, {67., 152.931}, {66., 152.971},
   {65., 152.991}, {64., 153.011}, {63., 153.031}, {62., 153.071}, {61., 153.091},
   {60., 153.111}, {59., 153.151}, {58., 153.171}, {57., 153.191}, {56., 153.211},
   {55., 153.231}, {54., 153.251}, {53., 153.292}, {52., 153.312}, {51., 153.332},
   {50., 153.352}, {49., 153.372}, {48., 153.392}, {47., 153.412}, {46., 153.432},
   {45., 153.452}, {44., 153.472}, {43., 153.492}, {42., 153.512}, {41., 153.532},
   {40., 153.552}, {39., 153.572}, {38., 153.572}, {37., 153.592}, {36., 153.612},
   { 35., 153.632}, { 34., 153.653}, { 33., 153.653}, { 32., 153.673}, { 31., 153.693},
    [30., 153.693], {29., 153.713}, {28., 153.733}, {27., 153.733}, {26., 153.753},
    25., 153.753}, {24., 153.773}, {23., 153.773}, {22., 153.793},
    21., 153.793}, {20., 153.813}, {19., 153.813}, {18., 153.833},
   \{17., 153.833\}, \{16., 153.833\}, \{15., 153.853\}, \{14., 153.853\},
   \{13., 153.853\}, \{12., 153.853\}, \{11., 153.853\}, \{10., 153.873\},
   {9., 153.873}, {8., 153.873}, {7., 153.873}, {6., 153.873}, {5., 153.873},
  {4., 153.873}, {3., 153.873}, {2., 153.873}, {1., 153.873}, {0., 153.873}}
PeakTimingGovernmentImposedDistancingRange =
  PeakTimingRange["ContactReductionGovernment",
     Join [Parameters [RelativeSusceptibilityAwarenessBaseline,
          RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
          RateAwarenessFadingSevereSymptomsBaseline, 5 \times 10^{-5},
          DiagnosisRateAwareBaseline, StartTimeBaseline], \{r_4 \rightarrow factor\}]
\{\{100., 357.68\}, \{99., 352.627\}, \{98., 347.894\}, \{97., 343.402\}, \{96., 339.151\},
     95., 335.12}, {94., 331.249}, {93., 327.539}, {92., 323.97}, {91., 320.521},
    90., 317.192, \{89., 313.963\}, \{88., 310.835\}, \{87., 307.786\}, \{86., 304.818\},
    85., 301.931\}, \{84., 299.123\}, \{83., 296.376\}, \{82., 293.668\}, \{81., 291.041\},
    80., 288.454\}, \{79., 285.928\}, \{78., 283.441\}, \{77., 280.994\}, \{76., 278.608\}, \{78., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454\}, \{79., 288.454
    [75., 276.242}, {74., 273.935}, {73., 271.649}, {72., 269.403}, {71., 267.197},
    [70., 265.012], {69., 262.866}, {68., 260.74}, {67., 258.654}, {66., 256.589},
    65., 254.543, \{64., 252.538\}, \{63., 250.553\}, \{62., 248.567\}, \{61., 246.642\},
    60., 244.717, \{59., 242.812\}, \{58., 240.927\}, \{57., 239.082\}, \{56., 237.237\},
    55., 235.412}, {54., 233.607}, {53., 231.822}, {52., 230.058}, {51., 228.293},
    50., 226.568}, {49., 224.844}, {48., 223.139}, {47., 221.455}, {46., 219.77},
    45., 218.106}, {44., 216.461}, {43., 214.837}, {42., 213.212}, {41., 211.608},
    40., 210.024}, {39., 208.44}, {38., 206.875}, {37., 205.311}, {36., 203.767},
    35., 202.243}, {34., 200.719}, {33., 199.195}, {32., 197.711},
    31., 196.207\}, \{30., 194.743\}, \{29., 193.259\}, \{28., 191.815\},
    27., 190.371, {26., 188.927}, {25., 187.503}, {24., 186.08}, {23., 184.676},
    22., 183.272}, {21., 181.868}, {20., 180.485}, {19., 179.101},
   \{18., 177.737\}, \{17., 176.374\}, \{16., 175.01\}, \{15., 173.666\}, \{14., 172.323\},
   \{13., 170.979\}, \{12., 169.656\}, \{11., 168.312\}, \{10., 166.988\},
   \{9., 165.665\}, \{8., 164.341\}, \{7., 163.018\}, \{6., 161.714\}, \{5., 160.391\},
   \{4., 159.087\}, \{3., 157.784\}, \{2., 156.46\}, \{1., 155.157\}, \{0., 153.873\}\}
```

```
PeakTimingCombinedRange = PeakTimingRange [ "GovernmentAndHand",
  Join [Parameters [RelativeSusceptibilityAwarenessBaseline,
    RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
    RateAwarenessFadingSevereSymptomsBaseline, 5 \times 10^{\circ} (-5),
    DiagnosisRateAwareBaseline, 0.10393], \{r_2 \rightarrow 0.7\}, \{r_4 \rightarrow factor\}]
\{\{100., 357.6\}, \{99., 352.547\}, \{98., 347.814\}, \{97., 343.322\}, \{96., 339.07\},
  95., 335.02, \{94., 331.149, \{93., 327.439\}, \{92., 323.87\}, \{91., 320.42\},
 {90., 317.091}, {89., 313.883}, {88., 310.734}, {87., 307.706}, {86., 304.738},
 {85., 301.85}, {84., 299.043}, {83., 296.275}, {82., 293.588}, {81., 290.961},
 {80., 288.374}, {79., 285.847}, {78., 283.361}, {77., 280.914}, {76., 278.528},
 {75., 276.161}, {74., 273.855}, {73., 271.569}, {72., 269.323}, {71., 267.097},
 {70., 264.931}, {69., 262.786}, {68., 260.66}, {67., 258.554}, {66., 256.509},
 {65., 254.463}, {64., 252.438}, {63., 250.452}, {62., 248.487}, {61., 246.542},
 {60., 244.637}, {59., 242.732}, {58., 240.847}, {57., 238.982}, {56., 237.157},
 {55., 235.332}, {54., 233.527}, {53., 231.742}, {52., 229.977}, {51., 228.213},
 {50., 226.488}, {49., 224.763}, {48., 223.059}, {47., 221.374}, {46., 219.69},
 {45., 218.025}, {44., 216.381}, {43., 214.757}, {42., 213.132}, {41., 211.528},
 {40., 209.944}, {39., 208.359}, {38., 206.795}, {37., 205.231}, {36., 203.707},
 \{35., 202.163\}, \{34., 200.639\}, \{33., 199.135\}, \{32., 197.651\},
 \{31., 196.167\}, \{30., 194.683\}, \{29., 193.219\}, \{28., 191.755\},
 {27., 190.311}, {26., 188.887}, {25., 187.463}, {24., 186.04}, {23., 184.636},
 \{22., 183.232\}, \{21., 181.848\}, \{20., 180.465\}, \{19., 179.101\},
 {18., 177.737}, {17., 176.374}, {16., 175.01}, {15., 173.666}, {14., 172.323},
 \{13., 170.979\}, \{12., 169.656\}, \{11., 168.312\}, \{10., 166.988\},
 \{9., 165.665\}, \{8., 164.341\}, \{7., 163.018\}, \{6., 161.694\}, \{5., 160.371\},
```

 $\{4., 159.047\}, \{3., 157.723\}, \{2., 156.4\}, \{1., 155.096\}, \{0., 153.773\}\}$

```
fig4C = Show[ListLinePlot[{PeakTimingMaskRange[;;;;5],
     PeakTimingHandRange, PeakTimingSelfImposedDistancingRange,
     PeakTimingGovernmentImposedDistancingRange[ ;; ;; 5]
     (*,PeakTimingCombinedRange*)}, AspectRatio → 0.75,
   ImageSize \rightarrow 400, PlotRange \rightarrow {All, {0, 365}}, AxesOrigin \rightarrow {0, 0},
   Frame → {{True, False}, {True, False}}, FrameStyle → Directive[Black, 17],
   PlotMarkers → {Graphics[{RGBColor[248 / 255, 196 / 255, 0], Thick, Circle[]},
       ImageSize → 10], "", "", "", ""},
   PlotStyle \rightarrow {{Thickness[0.01], RGBColor[248 / 255, 196 / 255, 0]},
      {Thickness[0.01], RGBColor[26 / 255, 94 / 255, 214 / 255]},
      {Thickness[0.01], RGBColor[192/255, 0, 120/255]},
      {Thickness[0.01], RGBColor[28 / 255, 162 / 255, 0]}(*,
      {Thickness[0.01],RGBColor[185/255,76/255,225/255]}*)},
   FrameLabel → {{"Time until the peak\nof diagnoses (months)", None},
      {"Efficacy of prevention measure (%)", None}},
   {\tt ImagePadding} \rightarrow {\tt imagePadding}, \ {\tt PlotRangePadding} \rightarrow {\tt None},
   PlotLabel → Style[Row[{"Slow spread of awareness"}], 17, Black],
   PlotLegends → Table[Style[Row[{label}], Black, 13, "Text"],
      {label, {"Mask-wearing", "Handwashing", "Self-imposed social distancing",
         "Government-imposed social distancing"(*, "Government-imposed social
           distancing\nand handwashing with 30% efficacy"*)}}],
   FrameTicks \rightarrow {{{\{0, "0"}\}, \{365 \times 3 / 12, "3"\}, \{365 \times 9 / 12, "9"\}, \}}
         \{365 \ / \ 2, \ "6"\}, \ \{365, \ "12"\}, \ \{365 \times 2, \ "24"\}, \ \{365 \times 3, \ "36"\}, \ \{365 \times 4, \ "48"\}, 
         \{365 \times 5, "60"\}, \{365 \times 6, "72"\}\}, None\}, \{Automatic, None\}\}]
  Graphics[{RGBColor[217 / 255, 0, 0], Thickness[0.005],
     Line[{{0, PeakTimingBaseline}, {100, PeakTimingBaseline}}]}],
  Graphics [Text[StyleForm["C", FontSize \rightarrow 26], {100 * 0.05, 365 * 0.95}]],
  Graphics[Text[StyleForm["baseline (no awareness)",
      FontSize \rightarrow 13, FontColor \rightarrow RGBColor[217 / 255, 0, 0]], {75, 130}]]]
Export[StringJoin[
    "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
      Resubmission//FinalFigures//Figure4C", ".eps"], fig4C];
Export[StringJoin[
    "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
      Resubmission//FinalFigures//Figure4C", ".eps"], fig4C];
                   Slow spread of awareness
       12
    of diagnoses (months
Time until the peak
        9
                                                               Mask-wearing
         6

    Handwashing

    Self–imposed social distancing

                                   baseline (no awareness)

    Government-imposed social dis

         3
        0
                  20
                            40
                                     60
                                               80
                                                        100
              Efficacy of prevention measure (%)
```

Combined intervention: government-imposed social distancing and handwashing with efficacies of 30%, 45% and 60% for slow and fast spread of awareness

```
EffVal1 = 0.7;
EffVal2 = 0.4;
EffVal3 = 0.55;
DeltaSlow = 5 \times 10^{(-5)};
Time30Fast = 0.10437;
Time60Fast = 0.10505;
Time45Fast = 0.10472;
Time30Slow = 0.10393;
Time60Slow = Time30Slow;
Time45Slow = Time30Slow;
```

Time when government-imposed social distancing has to start (10 diagnoses)

```
(IQ[t] + IQa[t]) /.
    {\tt solution["Hand", Join[Parameters[RelativeSusceptibilityAwarenessBaseline, Include the content of the conte
            RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
            RateAwarenessFadingSevereSymptomsBaseline,
            AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline, 0],
          \{r_2 \rightarrow EffVall\}]] /. t \rightarrow Time30Fast
(IQ[t] + IQa[t]) /.
    solution["Hand", Join[Parameters[RelativeSusceptibilityAwarenessBaseline,
            {\tt RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,}
            RateAwarenessFadingSevereSymptomsBaseline, DeltaSlow,
            DiagnosisRateAwareBaseline, 0], \{r_2 \rightarrow EffVall\}]] /. t \rightarrow Time30Slow
(IQ[t] + IQa[t]) /.
    solution["Hand", Join[Parameters[RelativeSusceptibilityAwarenessBaseline,
            RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
            RateAwarenessFadingSevereSymptomsBaseline,
            AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline, 0],
          \{r_2 \rightarrow \text{EffVal2}\}] /. t \rightarrow \text{Time60Fast}
(IQ[t] + IQa[t]) /.
    solution["Hand", Join[Parameters[RelativeSusceptibilityAwarenessBaseline,
            RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
            RateAwarenessFadingSevereSymptomsBaseline, DeltaSlow,
            DiagnosisRateAwareBaseline, 0], \{r_2 \rightarrow EffVal2\}]] /. t \rightarrow Time60Slow
(IQ[t] + IQa[t]) /.
    solution["Hand", Join[Parameters[RelativeSusceptibilityAwarenessBaseline,
            {\tt RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,}
            RateAwarenessFadingSevereSymptomsBaseline,
            AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline, 0],
          \{r_2 \rightarrow \text{EffVal3}\}] /. t \rightarrow \text{Time45Fast}
(IQ[t] + IQa[t]) /.
    solution["Hand", Join[Parameters[RelativeSusceptibilityAwarenessBaseline,
            {\tt RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,}
            RateAwarenessFadingSevereSymptomsBaseline, DeltaSlow,
            DiagnosisRateAwareBaseline, 0], \{r_2 \rightarrow EffVal3\}]] /. t \rightarrow Time45Slow
{10.0016}
{10.0025}
{10.0007}
{10.0025}
{10.0065}
{10.0025}
```

Peak height

Handwashing efficacy 30%

```
PeakFast30 = PeakRange["GovernmentAndHand",
  Join [Parameters [RelativeSusceptibilityAwarenessBaseline,
    {\tt Rate Awareness Fading Susceptible Exposed Mild Symptoms Baseline,}
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    Time30Fast], \{r_2 \rightarrow EffVal1\}, \{r_4 \rightarrow factor\}]]
\{\{100., 65.3188\}, \{99., 65.3188\}, \{98., 65.3188\}, \{97., 65.3189\}, \{96., 65.3189\},
  95., 65.3189}, {94., 65.319}, {93., 65.319}, {92., 65.319}, {91., 65.3191},
  90., 65.3191}, {89., 65.3192}, {88., 65.3192}, {87., 65.3193}, {86., 65.3193},
 {85., 65.3194}, {84., 65.3195}, {83., 65.3195}, {82., 65.3196}, {81., 65.3197},
 {80., 65.3198}, {79., 65.3199}, {78., 65.32}, {77., 65.3201}, {76., 65.3202},
 {75., 65.3204}, {74., 65.3205}, {73., 65.3207}, {72., 65.3208}, {71., 65.321},
 {70., 65.3212}, {69., 65.3215}, {68., 65.3217}, {67., 65.322}, {66., 65.3223},
 {65., 65.3226}, {64., 65.3229}, {63., 65.3233}, {62., 65.3237}, {61., 65.3241},
 {60., 65.3246}, {59., 65.3251}, {58., 65.3256}, {57., 65.3262}, {56., 65.3268},
 {55., 65.3274}, {54., 65.3281}, {53., 65.3289}, {52., 65.3296}, {51., 65.3304},
 {50., 65.3313}, {49., 65.3322}, {48., 65.3331}, {47., 65.3341}, {46., 65.3352},
 {45., 65.3363}, {44., 65.3374}, {43., 65.3386}, {42., 65.3399}, {41., 65.3412},
 {40., 65.3426}, {39., 65.344}, {38., 65.3455}, {37., 65.3471}, {36., 65.3487},
 \{35., 65.3503\}, \{34., 65.3521\}, \{33., 65.3538\}, \{32., 65.3557\},
 \{31., 65.3576\}, \{30., 65.3595\}, \{29., 65.3615\}, \{28., 65.3636\},
 {27., 65.3656}, {26., 65.3677}, {25., 65.3699}, {24., 65.372}, {23., 65.3741},
 \{22., 65.3763\}, \{21., 65.3783\}, \{20., 65.3804\}, \{19., 65.3823\},
 \{18., 65.3841\}, \{17., 65.3858\}, \{16., 65.3873\}, \{15., 65.3885\},
 {14., 65.3895}, {13., 65.3901}, {12., 65.3903}, {11., 65.39}, {10., 65.3891},
 \{9., 65.3876\}, \{8., 65.3852\}, \{7., 65.3819\}, \{6., 65.3774\}, \{5., 65.3718\},
 \{4., 65.3646\}, \{3., 65.3559\}, \{2., 65.3452\}, \{1., 65.3323\}, \{0., 65.3169\}\}
```

```
PeakSlow30 = PeakRange["GovernmentAndHand",
  Join [Parameters [RelativeSusceptibilityAwarenessBaseline,
    RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
    RateAwarenessFadingSevereSymptomsBaseline, DeltaSlow,
    DiagnosisRateAwareBaseline, Time30Slow], \{r_2 \rightarrow EffVal1\}, \{r_4 \rightarrow factor\}]
\{\{100., 10.1212\}, \{99., 10.1212\}, \{98., 10.1213\}, \{97., 10.1213\}, \{96., 10.1213\},
  95., 10.1214, \{94., 10.1214\}, \{93., 10.1215\}, \{92., 10.1215\}, \{91., 10.1216\},
 {90., 10.1217}, {89., 10.1218}, {88., 10.1218}, {87., 10.1219}, {86., 10.122},
 \{85., 10.1221\}, \{84., 10.1222\}, \{83., 10.1223\}, \{82., 10.1224\}, \{81., 10.1225\},
 \{80., 10.1227\}, \{79., 10.1228\}, \{78., 10.123\}, \{77., 10.1232\}, \{76., 10.1234\},
 \{75., 10.1236\}, \{74., 10.1239\}, \{73., 10.1241\}, \{72., 10.1244\},
 \{71., 10.1248\}, \{70., 10.1251\}, \{69., 10.1255\}, \{68., 10.126\}, \{67., 10.1265\},
 {66., 10.127}, {65., 10.1277}, {64., 10.1284}, {63., 10.1291}, {62., 10.13},
 {61., 10.131}, {60., 10.1322}, {59., 10.1334}, {58., 10.1348}, {57., 10.1364},
 {56., 10.1382}, {55., 10.1402}, {54., 10.1425}, {53., 10.145}, {52., 10.1479},
 \{51., 10.1511\}, \{50., 10.1548\}, \{49., 10.1589\}, \{48., 10.1635\}, \{47., 10.1687\},
 \{46., 10.1746\}, \{45., 10.1811\}, \{44., 10.1885\}, \{43., 10.1968\},
 \{42., 10.2061\}, \{41., 10.2165\}, \{40., 10.2281\}, \{39., 10.2412\},
 { 38., 10.2557}, { 37., 10.2719}, { 36., 10.29}, { 35., 10.31}, { 34., 10.3323},
 {33., 10.357}, {32., 10.3843}, {31., 10.4145}, {30., 10.4476}, {29., 10.484},
 \{28., 10.5239\}, \{27., 10.5674\}, \{26., 10.6148\}, \{25., 10.666\}, \{24., 10.7214\},
 \{23., 10.7808\}, \{22., 10.8442\}, \{21., 10.9115\}, \{20., 10.9825\},
 {19., 11.0566}, {18., 11.1333}, {17., 11.2118}, {16., 11.291}, {15., 11.3695},
 {14., 11.4455}, {13., 11.517}, {12., 11.5813}, {11., 11.6353}, {10., 11.6755},
 {9., 11.6976}, {8., 11.6969}, {7., 11.668}, {6., 11.6048}, {5., 11.501},
 \{4., 11.3494\}, \{3., 11.1428\}, \{2., 10.8737\}, \{1., 10.5347\}, \{0., 10.1186\}\}
```

Handwashing efficacy 60%

```
PeakFast60 = PeakRange["GovernmentAndHand",
  Join[Parameters[RelativeSusceptibilityAwarenessBaseline,
    RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    Time60Fast], \{r_2 \rightarrow \text{EffVal2}\}, \{r_4 \rightarrow \text{factor}\}]
{{100., 99.9588}, {99., 99.9588}, {98., 99.9588}, {97., 99.9588}, {96., 99.9588},
 {95., 99.9588}, {94., 99.9588}, {93., 99.9588}, {92., 99.9588}, {91., 99.9588},
 {90., 99.9588}, {89., 99.9588}, {88., 99.9588}, {87., 99.9588}, {86., 99.9588},
 {85., 99.9588}, {84., 99.9588}, {83., 99.9588}, {82., 99.9588}, {81., 99.9588},
 {80., 99.9588}, {79., 99.9588}, {78., 99.9588}, {77., 99.9588}, {76., 99.9588},
 {75., 99.9588}, {74., 99.9588}, {73., 99.9588}, {72., 99.9588}, {71., 99.9588},
 {70., 99.9588}, {69., 99.9588}, {68., 99.9588}, {67., 99.9588}, {66., 99.9588},
 {65., 99.9588}, {64., 99.9588}, {63., 99.9588}, {62., 99.9588}, {61., 99.9588},
 {60., 99.9588}, {59., 99.9588}, {58., 99.9589}, {57., 99.9589}, {56., 99.9589},
 {55., 99.9589}, {54., 99.9589}, {53., 99.9589}, {52., 99.9589}, {51., 99.9589},
 {50., 99.9589}, {49., 99.9589}, {48., 99.9589}, {47., 99.9589}, {46., 99.9589},
 {45., 99.9589}, {44., 99.9589}, {43., 99.9589}, {42., 99.9589},
 \{41., 99.9589\}, \{40., 99.9589\}, \{39., 99.9589\}, \{38., 99.9589\},
 \{37., 99.9589\}, \{36., 99.9589\}, \{35., 99.9589\}, \{34., 99.9589\},
 {33., 99.9589}, {32., 99.9589}, {31., 99.9589}, {30., 99.9589},
 \{29., 99.9589\}, \{28., 99.9589\}, \{27., 99.9589\}, \{26., 99.959\}, \{25., 99.959\},
 \{24., 99.959\}, \{23., 99.959\}, \{22., 99.959\}, \{21., 99.959\}, \{20., 99.959\},
 \{19., 99.959\}, \{18., 99.959\}, \{17., 99.959\}, \{16., 99.959\}, \{15., 99.959\},
 \{14., 99.959\}, \{13., 99.959\}, \{12., 99.959\}, \{11., 99.959\}, \{10., 99.959\},
 \{9., 99.959\}, \{8., 99.959\}, \{7., 99.959\}, \{6., 99.959\}, \{5., 99.959\},
 \{4., 99.9589\}, \{3., 99.9589\}, \{2., 99.9589\}, \{1., 99.9589\}, \{0., 99.9588\}\}
```

```
PeakSlow60 = PeakRange["GovernmentAndHand",
  Join [Parameters [RelativeSusceptibilityAwarenessBaseline,
    RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
    RateAwarenessFadingSevereSymptomsBaseline, DeltaSlow,
    DiagnosisRateAwareBaseline, Time60Slow], \{r_2 \rightarrow EffVal2\}, \{r_4 \rightarrow factor\}]
\{\{100., 18.4778\}, \{99., 18.4779\}, \{98., 18.4779\}, \{97., 18.478\}, \{96., 18.478\},
  95., 18.4781}, {94., 18.4781}, {93., 18.4782}, {92., 18.4782}, {91., 18.4783},
 {90., 18.4783}, {89., 18.4784}, {88., 18.4785}, {87., 18.4785}, {86., 18.4786},
 {85., 18.4787}, {84., 18.4788}, {83., 18.4789}, {82., 18.479}, {81., 18.4791},
 {80., 18.4793}, {79., 18.4794}, {78., 18.4796}, {77., 18.4797}, {76., 18.4799},
 {75., 18.4801}, {74., 18.4803}, {73., 18.4806}, {72., 18.4809}, {71., 18.4812},
 {70., 18.4815}, {69., 18.4819}, {68., 18.4823}, {67., 18.4828}, {66., 18.4833},
 {65., 18.4839}, {64., 18.4845}, {63., 18.4853}, {62., 18.4861}, {61., 18.487},
 {60., 18.4881}, {59., 18.4893}, {58., 18.4906}, {57., 18.4921}, {56., 18.4939},
 {55., 18.4958}, {54., 18.498}, {53., 18.5004}, {52., 18.5032}, {51., 18.5064},
 \{50., 18.5099\}, \{49., 18.5139\}, \{48., 18.5185\}, \{47., 18.5236\},
 {46., 18.5294}, {45., 18.5359}, {44., 18.5433}, {43., 18.5516}, {42., 18.561},
 \{41., 18.5715\}, \{40., 18.5833\}, \{39., 18.5966\}, \{38., 18.6115\},
 { 37., 18.6283}, { 36., 18.647}, { 35., 18.6679}, { 34., 18.6912}, { 33., 18.7172},
 {32., 18.746}, {31., 18.778}, {30., 18.8134}, {29., 18.8524}, {28., 18.8953},
 \{27., 18.9424\}, \{26., 18.9938\}, \{25., 19.0498\}, \{24., 19.1104\},
 {23., 19.1757}, {22., 19.2457}, {21., 19.3202}, {20., 19.399}, {19., 19.4816},
 {18., 19.5674}, {17., 19.6553}, {16., 19.7442}, {15., 19.8324}, {14., 19.918},
 \{13., 19.9986\}, \{12., 20.0711\}, \{11., 20.1322\}, \{10., 20.1777\},
 \{9., 20.2028\}, \{8., 20.2024\}, \{7., 20.1703\}, \{6., 20.1003\}, \{5., 19.9852\},
 \{4., 19.8178\}, \{3., 19.5904\}, \{2., 19.2957\}, \{1., 18.9262\}, \{0., 18.4755\}\}
```

Handwashing efficacy 90%

```
PeakFast45 = PeakRange["GovernmentAndHand",
  Join[Parameters[RelativeSusceptibilityAwarenessBaseline,
     RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
     RateAwarenessFadingSevereSymptomsBaseline,
     AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
     Time 90 Fast], \{r_2 \rightarrow \text{EffVal3}\}, \{r_4 \rightarrow \text{factor}\}]
\{\{100., 90.5128\}, \{99., 90.5128\}, \{98., 90.5128\}, \{97., 90.5128\}, \{96., 90.5129\},
 \{95., 90.5129\}, \{94., 90.5129\}, \{93., 90.5129\}, \{92., 90.513\}, \{91., 90.513\},
 \{90., 90.513\}, \{89., 90.513\}, \{88., 90.5131\}, \{87., 90.5131\}, \{86., 90.5131\},
 \{85., 90.5132\}, \{84., 90.5132\}, \{83., 90.5133\}, \{82., 90.5133\}, \{81., 90.5134\},
 \{80., 90.5134\}, \{79., 90.5135\}, \{78., 90.5135\}, \{77., 90.5136\}, \{76., 90.5137\},
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 \{70., 90.5143\}, \{69., 90.5145\}, \{68., 90.5146\}, \{67., 90.5148\}, \{66., 90.515\},
 \{65., 90.5152\}, \{64., 90.5154\}, \{63., 90.5156\}, \{62., 90.5158\}, \{61., 90.5161\},
 \{60., 90.5163\}, \{59., 90.5166\}, \{58., 90.5169\}, \{57., 90.5172\}, \{56., 90.5176\},
 \{55., 90.5179\}, \{54., 90.5183\}, \{53., 90.5187\}, \{52., 90.519\}, \{51., 90.5195\},
 \{50., 90.5199\}, \{49., 90.5203\}, \{48., 90.5208\}, \{47., 90.5212\},
 \{46., 90.5217\}, \{45., 90.5222\}, \{44., 90.5227\}, \{43., 90.5233\},
 \{42., 90.5238\}, \{41., 90.5244\}, \{40., 90.5249\}, \{39., 90.5255\},
 \{38., 90.5261\}, \{37., 90.5268\}, \{36., 90.5274\}, \{35., 90.528\}, \{34., 90.5287\},
 \{33., 90.5294\}, \{32., 90.53\}, \{31., 90.5307\}, \{30., 90.5314\}, \{29., 90.5321\},
 \{28., 90.5328\}, \{27., 90.5335\}, \{26., 90.5341\}, \{25., 90.5348\},
 \{24., 90.5354\}, \{23., 90.536\}, \{22., 90.5366\}, \{21., 90.5372\}, \{20., 90.5377\}, \{20., 90.5377\}, \{20., 90.5377\}, \{20., 90.5377\}, \{20., 90.5377\}
 \{19., 90.5381\}, \{18., 90.5385\}, \{17., 90.5388\}, \{16., 90.539\}, \{15., 90.5391\},
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 \{9., 90.5363\}, \{8., 90.5351\}, \{7., 90.5336\}, \{6., 90.5318\}, \{5., 90.5296\},
 \{4., 90.527\}, \{3., 90.524\}, \{2., 90.5205\}, \{1., 90.5164\}, \{0., 90.5117\}\}
```

```
PeakSlow45 = PeakRange["GovernmentAndHand",
  Join [Parameters [RelativeSusceptibilityAwarenessBaseline,
     RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
     RateAwarenessFadingSevereSymptomsBaseline, DeltaSlow,
     DiagnosisRateAwareBaseline, Time90Slow], \{r_2 \rightarrow EffVal3\}, \{r_4 \rightarrow factor\}]
\{\{100., 14.209\}, \{99., 14.209\}, \{98., 14.2091\}, \{97., 14.2091\}, \{96., 14.2092\},
  95., 14.2092}, {94., 14.2093}, {93., 14.2093}, {92., 14.2094}, {91., 14.2095},
 \{90., 14.2095\}, \{89., 14.2096\}, \{88., 14.2097\}, \{87., 14.2097\}, \{86., 14.2098\},
 \{85., 14.2099\}, \{84., 14.21\}, \{83., 14.2101\}, \{82., 14.2102\}, \{81., 14.2104\},
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 {75., 14.2114}, {74., 14.2116}, {73., 14.2119}, {72., 14.2121}, {71., 14.2125},
 \{70., 14.2128\}, \{69., 14.2132\}, \{68., 14.2136\}, \{67., 14.2141\}, \{66., 14.2147\},
 \{65., 14.2153\}, \{64., 14.216\}, \{63., 14.2167\}, \{62., 14.2176\}, \{61., 14.2186\},
 \{60., 14.2197\}, \{59., 14.2209\}, \{58., 14.2223\}, \{57., 14.2238\}, \{56., 14.2256\},
 \{55., 14.2275\}, \{54., 14.2298\}, \{53., 14.2323\}, \{52., 14.2351\}, \{51., 14.2383\},
 \{50., 14.2419\}, \{49., 14.246\}, \{48., 14.2506\}, \{47., 14.2557\}, \{46., 14.2616\},
 {45., 14.2681}, {44., 14.2755}, {43., 14.2838}, {42., 14.2932}, {41., 14.3036},
 {40., 14.3154}, {39., 14.3285}, {38., 14.3433}, {37., 14.3597}, {36., 14.3781},
 \{35., 14.3986\}, \{34., 14.4214\}, \{33., 14.4467\}, \{32., 14.4748\},
 {31., 14.5058}, {30., 14.54}, {29., 14.5777}, {28., 14.6191}, {27., 14.6643},
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 \{22., 14.9539\}, \{21., 15.0248\}, \{20., 15.0995\}, \{19., 15.1778\},
 \{18., 15.2589\}, \{17., 15.342\}, \{16., 15.4259\}, \{15., 15.5092\}, \{14., 15.5899\},
 \{13., 15.6659\}, \{12., 15.7342\}, \{11., 15.7918\}, \{10., 15.8347\},
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 $\{9., 15.8584\}, \{8., 15.858\}, \{7., 15.8277\}, \{6., 15.7613\}, \{5., 15.6521\},$ $\{4., 15.4928\}, \{3., 15.2761\}, \{2., 14.9943\}, \{1., 14.6401\}, \{0., 14.2065\}\}$

Attack rate

Handwashing efficacy 30%

```
AttackRateFast30 = AttackRateRange["GovernmentAndHand",
     Join[Parameters[RelativeSusceptibilityAwarenessBaseline,
          {\tt Rate Awareness Fading Susceptible Exposed Mild Symptoms Baseline,}
          RateAwarenessFadingSevereSymptomsBaseline,
          AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
          Time30Fast], \{r_2 \rightarrow EffVal1\}, \{r_4 \rightarrow factor\}]]
\{\{100., 11.5674\}, \{99., 11.5674\}, \{98., 11.5674\}, \{97., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5674\}, \{96., 11.5
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   {57., 11.567}, {56., 11.5669}, {55., 11.5669}, {54., 11.5668}, {53., 11.5668},
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   \{18., 11.5634\}, \{17., 11.5633\}, \{16., 11.5632\}, \{15., 11.5631\},
   \{14., 11.563\}, \{13., 11.563\}, \{12., 11.563\}, \{11., 11.563\}, \{10., 11.5631\},
   \{9., 11.5632\}, \{8., 11.5633\}, \{7., 11.5635\}, \{6., 11.5638\}, \{5., 11.5641\},
   {4., 11.5646}, {3., 11.5651}, {2., 11.5658}, {1., 11.5666}, {0., 11.5675}}
```

```
AttackRateSlow30 = AttackRateRange["GovernmentAndHand",
     Join [Parameters [RelativeSusceptibilityAwarenessBaseline,
          RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
          RateAwarenessFadingSevereSymptomsBaseline, DeltaSlow,
          DiagnosisRateAwareBaseline, Time30Slow], \{r_2 \rightarrow EffVal1\}, \{r_4 \rightarrow factor\}]
\{\{100., 15.2353\}, \{99., 15.2353\}, \{98., 15.2353\}, \{97., 15.2353\}, \{96., 15.2353\}, \{96., 15.2353\}, \{97., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2353\}, \{98., 15.2
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   {36., 15.2319}, {35., 15.2315}, {34., 15.231}, {33., 15.2305}, {32., 15.2299},
   \{31., 15.2292\}, \{30., 15.2285\}, \{29., 15.2278\}, \{28., 15.2269\},
   \{27., 15.2259\}, \{26., 15.2249\}, \{25., 15.2238\}, \{24., 15.2226\},
   {23., 15.2212}, {22., 15.2198}, {21., 15.2183}, {20., 15.2167}, {19., 15.215},
   \{18., 15.2132\}, \{17., 15.2114\}, \{16., 15.2095\}, \{15., 15.2077\},
   \{14., 15.2058\}, \{13., 15.204\}, \{12., 15.2024\}, \{11., 15.201\}, \{10., 15.1999\},
   \{9., 15.1992\}, \{8., 15.1989\}, \{7., 15.1994\}, \{6., 15.2006\}, \{5., 15.2028\},
   \{4., 15.2062\}, \{3., 15.2109\}, \{2., 15.2172\}, \{1., 15.2253\}, \{0., 15.2354\}\}
```

Handwashing efficacy 60%

```
AttackRateFast60 = AttackRateRange["GovernmentAndHand",
  Join[Parameters[RelativeSusceptibilityAwarenessBaseline,
     RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
     RateAwarenessFadingSevereSymptomsBaseline,
     AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
     Time60Fast], \{r_2 \rightarrow \text{EffVal2}\}, \{r_4 \rightarrow \text{factor}\}]
\{\{100., 0.0962569\}, \{99., 0.0969509\}, \{98., 0.0976054\}, \{97., 0.0982251\},
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 \{9., 0.120207\}, \{8., 0.120867\}, \{7., 0.121567\}, \{6., 0.122307\}, \{5., 0.123092\},
 \{4., 0.123922\}, \{3., 0.124802\}, \{2., 0.125735\}, \{1., 0.126722\}, \{0., 0.127769\}\}
```

```
AttackRateSlow60 = AttackRateRange["GovernmentAndHand",
  Join [Parameters [RelativeSusceptibilityAwarenessBaseline,
    RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
    RateAwarenessFadingSevereSymptomsBaseline, DeltaSlow,
    DiagnosisRateAwareBaseline, Time60Slow], \{r_2 \rightarrow EffVal2\}, \{r_4 \rightarrow factor\}]
\{\{100., 14.1326\}, \{99., 14.1326\}, \{98., 14.1326\}, \{97., 14.1326\}, \{96., 14.1326\},
  95., 14.1326}, {94., 14.1326}, {93., 14.1326}, {92., 14.1326}, {91., 14.1326},
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```

Handwashing efficacy 90%

```
AttackRateFast45 = AttackRateRange["GovernmentAndHand",
     Join[Parameters[RelativeSusceptibilityAwarenessBaseline,
          RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
          RateAwarenessFadingSevereSymptomsBaseline,
          AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
          Time 90 Fast], \{r_2 \rightarrow \text{EffVal3}\}, \{r_4 \rightarrow \text{factor}\}]
\{\{100., 6.65956\}, \{99., 6.66015\}, \{98., 6.66066\}, \{97., 6.66111\}, \{96., 6.66152\},
   \{95., 6.66188\}, \{94., 6.66221\}, \{93., 6.6625\}, \{92., 6.66277\}, \{91., 6.66302\},
   \{90., 6.66325\}, \{89., 6.66346\}, \{88., 6.66365\}, \{87., 6.66383\}, \{86., 6.664\},
   \{85., 6.66416\}, \{84., 6.66431\}, \{83., 6.66444\}, \{82., 6.66457\}, \{81., 6.66469\},
   \{80., 6.66481\}, \{79., 6.66491\}, \{78., 6.66501\}, \{77., 6.6651\}, \{76., 6.66519\},
   \{75., 6.66527\}, \{74., 6.66534\}, \{73., 6.66541\}, \{72., 6.66547\}, \{71., 6.66553\},
   \{70., 6.66558\}, \{69., 6.66562\}, \{68., 6.66566\}, \{67., 6.6657\}, \{66., 6.66573\},
   \{65., 6.66575\}, \{64., 6.66577\}, \{63., 6.66578\}, \{62., 6.66579\}, \{61., 6.66579\},
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   {50., 6.66555}, {49., 6.66551}, {48., 6.66547}, {47., 6.66542}, {46., 6.66538},
   {45., 6.66533}, {44., 6.66528}, {43., 6.66523}, {42., 6.66518}, {41., 6.66513},
   \{40., 6.66508\}, \{39., 6.66502\}, \{38., 6.66497\}, \{37., 6.66492\},
   \{36., 6.66486\}, \{35., 6.66481\}, \{34., 6.66476\}, \{33., 6.66471\},
   \{32., 6.66466\}, \{31., 6.66461\}, \{30., 6.66456\}, \{29., 6.66451\},
   \{28., 6.66447\}, \{27., 6.66442\}, \{26., 6.66439\}, \{25., 6.66435\},
   \{24., 6.66433\}, \{23., 6.6643\}, \{22., 6.66429\}, \{21., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428\}, \{20., 6.66428
  \{19., 6.6643\}, \{18., 6.66432\}, \{17., 6.66436\}, \{16., 6.66442\}, \{15., 6.66449\},
  \{14., 6.66458\}, \{13., 6.6647\}, \{12., 6.66484\}, \{11., 6.66502\}, \{10., 6.66522\},
  {9., 6.66546}, {8., 6.66575}, {7., 6.66608}, {6., 6.66646}, {5., 6.66689},
  \{4., 6.66739\}, \{3., 6.66796\}, \{2., 6.6686\}, \{1., 6.66933\}, \{0., 6.67016\}\}
```

```
AttackRateSlow45 = AttackRateRange["GovernmentAndHand",
  Join [Parameters [RelativeSusceptibilityAwarenessBaseline,
     RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
     RateAwarenessFadingSevereSymptomsBaseline, DeltaSlow,
     DiagnosisRateAwareBaseline, Time90Slow], \{r_2 \rightarrow EffVal3\}, \{r_4 \rightarrow factor\}]
\{\{100., 14.7292\}, \{99., 14.7292\}, \{98., 14.7292\}, \{97., 14.7292\}, \{96., 14.7292\},
  95., 14.7292}, {94., 14.7292}, {93., 14.7292}, {92., 14.7292}, {91., 14.7292},
 {90., 14.7292}, {89., 14.7292}, {88., 14.7292}, {87., 14.7292}, {86., 14.7292},
 \{85., 14.7292\}, \{84., 14.7292\}, \{83., 14.7292\}, \{82., 14.7292\}, \{81., 14.7292\},
 {80., 14.7292}, {79., 14.7292}, {78., 14.7292}, {77., 14.7292}, {76., 14.7292},
 {75., 14.7292}, {74., 14.7292}, {73., 14.7292}, {72., 14.7292}, {71., 14.7292},
 \{70., 14.7292\}, \{69., 14.7292\}, \{68., 14.7291\}, \{67., 14.7291\},
 \{66., 14.7291\}, \{65., 14.7291\}, \{64., 14.7291\}, \{63., 14.7291\},
 \{62., 14.7291\}, \{61., 14.7291\}, \{60., 14.729\}, \{59., 14.729\}, \{58., 14.729\},
 \{57., 14.729\}, \{56., 14.7289\}, \{55., 14.7289\}, \{54., 14.7288\}, \{53., 14.7288\},
 \{52., 14.7287\}, \{51., 14.7287\}, \{50., 14.7286\}, \{49., 14.7285\}, \{48., 14.7284\},
 {47., 14.7283}, {46., 14.7282}, {45., 14.7281}, {44., 14.7279}, {43., 14.7277},
 {42., 14.7275}, {41., 14.7273}, {40., 14.7271}, {39., 14.7268}, {38., 14.7265},
 { 37., 14.7261}, { 36., 14.7257}, { 35., 14.7253}, { 34., 14.7248}, { 33., 14.7243},
 \{32., 14.7236\}, \{31., 14.7229\}, \{30., 14.7222\}, \{29., 14.7213\}, \{28., 14.7204\},
 \{27., 14.7193\}, \{26., 14.7182\}, \{25., 14.7169\}, \{24., 14.7156\},
 {23., 14.7141}, {22., 14.7125}, {21., 14.7108}, {20., 14.709}, {19., 14.707},
 \{18., 14.705\}, \{17., 14.7029\}, \{16., 14.7008\}, \{15., 14.6986\}, \{14., 14.6964\},
 \{13., 14.6944\}, \{12., 14.6925\}, \{11., 14.6908\}, \{10., 14.6894\},
 \{9., 14.6885\}, \{8., 14.6882\}, \{7., 14.6886\}, \{6., 14.69\}, \{5., 14.6924\},
```

 $\{4., 14.6962\}, \{3., 14.7015\}, \{2., 14.7086\}, \{1., 14.7178\}, \{0., 14.7293\}\}$

Peak timing

Handwashing efficacy 30%

```
PeakTimingFast30 = PeakTimingRange["GovernmentAndHand",
     Join [Parameters [RelativeSusceptibilityAwarenessBaseline,
          {\tt Rate Awareness Fading Susceptible Exposed Mild Symptoms Baseline,}
          RateAwarenessFadingSevereSymptomsBaseline,
          AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
          Time30Fast], \{r_2 \rightarrow EffVall\}, \{r_4 \rightarrow factor\}]]
\{\{100., 442.247\}, \{99., 437.575\}, \{98., 433.163\}, \{97., 428.992\}, \{96., 425.041\}, \{98., 438.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.992\}, \{98., 428.
     95., 421.251}, {94., 417.641}, {93., 414.192}, {92., 410.863}, {91., 407.655},
    90., 404.566}, {89., 401.578}, {88., 398.67}, {87., 395.883}, {86., 393.156},
   {85., 390.508}, {84., 387.962}, {83., 385.455}, {82., 383.028}, {81., 380.682},
   \{80., 378.396\}, \{79., 376.15\}, \{78., 373.984\}, \{77., 371.878\}, \{76., 369.833\},
   {75., 367.828}, {74., 365.902}, {73., 364.017}, {72., 362.192}, {71., 360.428},
   {70., 358.703}, {69., 357.039}, {68., 355.434}, {67., 353.87}, {66., 352.346},
   {65., 350.882}, {64., 349.478}, {63., 348.095}, {62., 346.751}, {61., 345.468},
   {60., 344.204}, {59., 342.961}, {58., 341.758}, {57., 340.574}, {56., 339.391},
   {55., 338.228}, {54., 337.065}, {53., 335.902}, {52., 334.739}, {51., 333.556},
   {50., 332.372}, {49., 331.149}, {48., 329.906}, {47., 328.642}, {46., 327.339},
   {45., 325.995}, {44., 324.612}, {43., 323.188}, {42., 321.724}, {41., 320.22},
   {40., 318.656}, {39., 317.071}, {38., 315.427}, {37., 313.742}, {36., 312.018},
   \{35., 310.253\}, \{34., 308.468\}, \{33., 306.623\}, \{32., 304.758\},
   \{31., 302.853\}, \{30., 300.928\}, \{29., 298.963\}, \{28., 296.977\},
   {27., 294.972}, {26., 292.947}, {25., 290.901}, {24., 288.836}, {23., 286.75},
   \{22., 284.664\}, \{21., 282.559\}, \{20., 280.433\}, \{19., 278.307\},
   \{18., 276.182\}, \{17., 274.036\}, \{16., 271.89\}, \{15., 269.744\}, \{14., 267.578\},
   \{13., 265.413\}, \{12., 263.267\}, \{11., 261.101\}, \{10., 258.935\},
   \{9., 256.769\}, \{8., 254.604\}, \{7., 252.438\}, \{6., 250.272\}, \{5., 248.106\},
  \{4., 245.94\}, \{3., 243.775\}, \{2., 241.609\}, \{1., 239.463\}, \{0., 237.297\}\}
```

```
PeakTimingSlow30 = PeakTimingRange["GovernmentAndHand",
  Join [Parameters [RelativeSusceptibilityAwarenessBaseline,
    RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
    RateAwarenessFadingSevereSymptomsBaseline, DeltaSlow,
    DiagnosisRateAwareBaseline, Time30Slow], \{r_2 \rightarrow EffVal1\}, \{r_4 \rightarrow factor\}]
\{\{100., 357.6\}, \{99., 352.547\}, \{98., 347.814\}, \{97., 343.322\}, \{96., 339.07\},
  95., 335.02, \{94., 331.149, \{93., 327.439\}, \{92., 323.87\}, \{91., 320.42\},
  90., 317.091, \{89., 313.883\}, \{88., 310.734\}, \{87., 307.706\}, \{86., 304.738\},
 {85., 301.85}, {84., 299.043}, {83., 296.275}, {82., 293.588}, {81., 290.961},
 {80., 288.374}, {79., 285.847}, {78., 283.361}, {77., 280.914}, {76., 278.528},
 {75., 276.161}, {74., 273.855}, {73., 271.569}, {72., 269.323}, {71., 267.097},
 {70., 264.931}, {69., 262.786}, {68., 260.66}, {67., 258.554}, {66., 256.509},
 {65., 254.463}, {64., 252.438}, {63., 250.452}, {62., 248.487}, {61., 246.542},
 {60., 244.637}, {59., 242.732}, {58., 240.847}, {57., 238.982}, {56., 237.157},
 {55., 235.332}, {54., 233.527}, {53., 231.742}, {52., 229.977}, {51., 228.213},
 {50., 226.488}, {49., 224.763}, {48., 223.059}, {47., 221.374}, {46., 219.69},
 {45., 218.025}, {44., 216.381}, {43., 214.757}, {42., 213.132}, {41., 211.528},
 {40., 209.944}, {39., 208.359}, {38., 206.795}, {37., 205.231}, {36., 203.707},
 \{35., 202.163\}, \{34., 200.639\}, \{33., 199.135\}, \{32., 197.651\},
 \{31., 196.167\}, \{30., 194.683\}, \{29., 193.219\}, \{28., 191.755\},
 {27., 190.311}, {26., 188.887}, {25., 187.463}, {24., 186.04}, {23., 184.636},
 \{22., 183.232\}, \{21., 181.848\}, \{20., 180.465\}, \{19., 179.101\},
 {18., 177.737}, {17., 176.374}, {16., 175.01}, {15., 173.666}, {14., 172.323},
 \{13., 170.979\}, \{12., 169.656\}, \{11., 168.312\}, \{10., 166.988\},
 \{9., 165.665\}, \{8., 164.341\}, \{7., 163.018\}, \{6., 161.694\}, \{5., 160.371\},
 \{4., 159.047\}, \{3., 157.723\}, \{2., 156.4\}, \{1., 155.096\}, \{0., 153.773\}\}
```

Handwashing efficacy 60%

```
PeakTimingFast60 = PeakTimingRange["GovernmentAndHand",
  Join[Parameters[RelativeSusceptibilityAwarenessBaseline,
    RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    Time60Fast], \{r_2 \rightarrow \text{EffVal2}\}, \{r_4 \rightarrow \text{factor}\}]
\{\{100., 651.048\}, \{99., 646.636\}, \{98., 642.465\}, \{97., 638.494\}, \{96., 634.764\},
 {95., 631.195}, {94., 627.786}, {93., 624.517}, {92., 621.408}, {91., 618.4},
 {90., 615.533}, {89., 612.765}, {88., 610.098}, {87., 607.531}, {86., 605.065},
 {85., 602.698}, {84., 600.412}, {83., 598.226}, {82., 596.121}, {81., 594.115},
 {80., 592.19}, {79., 590.345}, {78., 588.6}, {77., 586.956}, {76., 585.412},
 {75., 583.948}, {74., 582.584}, {73., 581.341}, {72., 580.198}, {71., 579.155},
 {70., 578.233}, {69., 577.43}, {68., 576.728}, {67., 576.147}, {66., 575.666},
 {65., 575.305}, {64., 575.044}, {63., 574.904}, {62., 574.863}, {61., 574.924},
 {60., 575.044}, {59., 575.265}, {58., 575.565}, {57., 575.906}, {56., 576.327},
 {55., 576.769}, {54., 577.25}, {53., 577.771}, {52., 578.293}, {51., 578.814},
 {50., 579.335}, {49., 579.857}, {48., 580.358}, {47., 580.84}, {46., 581.301},
 {45., 581.722}, {44., 582.103}, {43., 582.444}, {42., 582.745}, {41., 583.005},
 {40., 583.206}, {39., 583.366}, {38., 583.467}, {37., 583.527}, {36., 583.507},
 \{35., 583.447\}, \{34., 583.326\}, \{33., 583.126\}, \{32., 582.885\},
 \{31., 582.544\}, \{30., 582.143\}, \{29., 581.682\}, \{28., 581.12\}, \{27., 580.479\},
 \{26., 579.757\}, \{25., 578.934\}, \{24., 577.992\}, \{23., 576.949\},
 \{22., 575.786\}, \{21., 574.502\}, \{20., 573.059\}, \{19., 571.474\}, \{18., 569.71\},
 \{17., 567.764\}, \{16., 565.599\}, \{15., 563.212\}, \{14., 560.565\},
 \{13., 557.617\}, \{12., 554.328\}, \{11., 550.679\}, \{10., 546.588\},
 \{9., 541.975\}, \{8., 536.781\}, \{7., 530.865\}, \{6., 524.087\}, \{5., 516.266\},
 \{4., 507.122\}, \{3., 496.272\}, \{2., 483.157\}, \{1., 466.874\}, \{0., 445.817\}\}
```

```
PeakTimingSlow60 = PeakTimingRange["GovernmentAndHand",
  Join [Parameters [RelativeSusceptibilityAwarenessBaseline,
    RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
    RateAwarenessFadingSevereSymptomsBaseline, DeltaSlow,
    DiagnosisRateAwareBaseline, Time60Slow], \{r_2 \rightarrow EffVal2\}, \{r_4 \rightarrow factor\}]
\{\{100., 357.019\}, \{99., 351.965\}, \{98., 347.212\}, \{97., 342.74\}, \{96., 338.489\},
  95., 334.438}, {94., 330.568}, {93., 326.858}, {92., 323.288}, {91., 319.839},
  90., 316.51, \{89., 313.281, \{88., 310.153\}, \{87., 307.125\}, \{86., 304.157\},
 {85., 301.269}, {84., 298.461}, {83., 295.694}, {82., 293.007}, {81., 290.38},
  [80., 287.793], {79., 285.266}, {78., 282.779}, {77., 280.333}, {76., 277.946},
 {75., 275.58}, {74., 273.274}, {73., 270.988}, {72., 268.742}, {71., 266.516},
 {70., 264.35}, {69., 262.184}, {68., 260.078}, {67., 257.973}, {66., 255.907},
 {65., 253.882}, {64., 251.856}, {63., 249.871}, {62., 247.906}, {61., 245.96},
 {60., 244.035}, {59., 242.15}, {58., 240.265}, {57., 238.4}, {56., 236.575},
 {55., 234.75}, {54., 232.945}, {53., 231.161}, {52., 229.396}, {51., 227.631},
 {50., 225.907}, {49., 224.182}, {48., 222.477}, {47., 220.793}, {46., 219.108},
 {45., 217.464}, {44., 215.819}, {43., 214.175}, {42., 212.571}, {41., 210.966},
 {40., 209.362}, {39., 207.798}, {38., 206.234}, {37., 204.67}, {36., 203.125},
 { 35., 201.601}, { 34., 200.097}, { 33., 198.573}, { 32., 197.089}, { 31., 195.605},
 \{30., 194.141\}, \{29., 192.677\}, \{28., 191.213\}, \{27., 189.77\}, \{26., 188.346\},
  [25., 186.922], {24., 185.518}, {23., 184.114}, {22., 182.711},
 \{21., 181.327\}, \{20., 179.963\}, \{19., 178.579\}, \{18., 177.216\},
 \{17., 175.872\}, \{16., 174.509\}, \{15., 173.165\}, \{14., 171.821\},
 \{13., 170.478\}, \{12., 169.154\}, \{11., 167.811\}, \{10., 166.487\},
 {9., 165.143}, {8., 163.82}, {7., 162.496}, {6., 161.153}, {5., 159.829},
 {4., 158.486}, {3., 157.162}, {2., 155.838}, {1., 154.515}, {0., 153.191}}
```

Handwashing efficacy 90%

```
PeakTimingFast45 = PeakTimingRange["GovernmentAndHand",
     Join[Parameters[RelativeSusceptibilityAwarenessBaseline,
          RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
          RateAwarenessFadingSevereSymptomsBaseline,
          AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
          Time 90 Fast], \{r_2 \rightarrow \text{EffVal3}\}, \{r_4 \rightarrow \text{factor}\}]
\{\{100., 581.16\}, \{99., 576.608\}, \{98., 572.337\}, \{97., 568.266\}, \{96., 564.415\},
   {95., 560.746}, {94., 557.216}, {93., 553.847}, {92., 550.618}, {91., 547.51},
   {90., 544.502}, {89., 541.614}, {88., 538.807}, {87., 536.099}, {86., 533.472},
   \{85., 530.925\}, \{84., 528.459\}, \{83., 526.072\}, \{82., 523.746\}, \{81., 521.5\},
   {80., 519.334}, {79., 517.209}, {78., 515.163}, {77., 513.198}, {76., 511.273},
   {75., 509.428}, {74., 507.643}, {73., 505.918}, {72., 504.254}, {71., 502.65},
   {70., 501.125}, {69., 499.662}, {68., 498.258}, {67., 496.914}, {66., 495.631},
   {65., 494.428}, {64., 493.264}, {63., 492.161}, {62., 491.119}, {61., 490.116},
   {60., 489.193}, {59., 488.291}, {58., 487.429}, {57., 486.627}, {56., 485.844},
   {55., 485.082}, {54., 484.36}, {53., 483.639}, {52., 482.937}, {51., 482.235},
   {50., 481.553}, {49., 480.851}, {48., 480.129}, {47., 479.387}, {46., 478.645},
   {45., 477.863}, {44., 477.041}, {43., 476.199}, {42., 475.296},
   \{41., 474.354\}, \{40., 473.371\}, \{39., 472.328\}, \{38., 471.225\},
   \{37., 470.062\}, \{36., 468.839\}, \{35., 467.555\}, \{34., 466.192\},
   \{33., 464.768\}, \{32., 463.264\}, \{31., 461.68\}, \{30., 460.015\}, \{29., 458.29\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}, \{30., 460.015\}
   \{28., 456.466\}, \{27., 454.56\}, \{26., 452.575\}, \{25., 450.51\}, \{24., 448.364\},
   {23., 446.138}, {22., 443.812}, {21., 441.425}, {20., 438.939},
  \{19., 436.372\}, \{18., 433.745\}, \{17., 431.037\}, \{16., 428.25\}, \{15., 425.402\},
  \{14., 422.474\}, \{13., 419.486\}, \{12., 416.418\}, \{11., 413.31\}, \{10., 410.141\},
  \{9., 406.913\}, \{8., 403.624\}, \{7., 400.295\}, \{6., 396.906\}, \{5., 393.476\},
  \{4., 390.007\}, \{3., 386.498\}, \{2., 382.948\}, \{1., 379.359\}, \{0., 375.729\}\}
```

```
PeakTimingSlow45 = PeakTimingRange["GovernmentAndHand",
  Join [Parameters [RelativeSusceptibilityAwarenessBaseline,
    RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
    RateAwarenessFadingSevereSymptomsBaseline, DeltaSlow,
    DiagnosisRateAwareBaseline, Time90Slow], \{r_2 \rightarrow EffVal3\}, \{r_4 \rightarrow factor\}]
\{\{100., 357.38\}, \{99., 352.326\}, \{98., 347.573\}, \{97., 343.101\}, \{96., 338.85\},
  95., 334.799}, {94., 330.929}, {93., 327.219}, {92., 323.649}, {91., 320.2},
 {90., 316.871}, {89., 313.662}, {88., 310.514}, {87., 307.486}, {86., 304.518},
 {85., 301.63}, {84., 298.822}, {83., 296.055}, {82., 293.368}, {81., 290.741},
 {80., 288.154}, {79., 285.627}, {78., 283.14}, {77., 280.694}, {76., 278.307},
 {75., 275.941}, {74., 273.635}, {73., 271.349}, {72., 269.103}, {71., 266.877},
 {70., 264.711}, {69., 262.565}, {68., 260.439}, {67., 258.334}, {66., 256.288},
 {65., 254.243}, {64., 252.217}, {63., 250.232}, {62., 248.267}, {61., 246.321},
 {60., 244.416}, {59., 242.511}, {58., 240.626}, {57., 238.761}, {56., 236.936},
 {55., 235.111}, {54., 233.306}, {53., 231.522}, {52., 229.757}, {51., 227.992},
 \{50., 226.268\}, \{49., 224.543\}, \{48., 222.838\}, \{47., 221.154\},
 {46., 219.469}, {45., 217.825}, {44., 216.18}, {43., 214.536}, {42., 212.932},
 {41., 211.327}, {40., 209.723}, {39., 208.139}, {38., 206.575}, {37., 205.03},
 {36., 203.486}, {35., 201.962}, {34., 200.438}, {33., 198.934}, {32., 197.43},
 {31., 195.946}, {30., 194.482}, {29., 193.018}, {28., 191.554}, {27., 190.11},
 \{26., 188.687\}, \{25., 187.263\}, \{24., 185.859\}, \{23., 184.455\},
 {22., 183.051}, {21., 181.668}, {20., 180.284}, {19., 178.92}, {18., 177.557},
 \{17., 176.193\}, \{16., 174.829\}, \{15., 173.486\}, \{14., 172.142\},
 \{13., 170.799\}, \{12., 169.475\}, \{11., 168.131\}, \{10., 166.808\},
 \{9., 165.484\}, \{8., 164.161\}, \{7., 162.817\}, \{6., 161.494\}, \{5., 160.17\},
 {4., 158.846}, {3., 157.523}, {2., 156.199}, {1., 154.876}, {0., 153.552}}
```

Plotting Figure 6 A, B and C (main text) (combination of government-imposed social distancing and handwashing)

```
imagePadding = {{80, 15}, {73, 7.5}};
fig6A = Show[ListLinePlot[{PeakFast30, PeakFast45,
     PeakFast60, PeakSlow30[;; ;; 5]], PeakSlow45[;; ;; 5]], PeakSlow60},
   AspectRatio \rightarrow 0.75, ImageSize \rightarrow 400, PlotRange \rightarrow {All, {-2.5, 102.5}},
   AxesOrigin \rightarrow \{0, 0\}, Frame \rightarrow \{\{True, False\}\}, \{True, False\}\},
   FrameStyle \rightarrow Directive[Black, 17], PlotRangePadding \rightarrow None,
   PlotStyle \rightarrow \{\{Thickness[0.01], RGBColor[248 / 255, 196 / 255, 0]\},\
      {Thickness[0.01], RGBColor[26/255, 94/255, 214/255]},
      {Thickness[0.01], RGBColor[192/255, 0, 120/255]},
      {Thickness[0.01], RGBColor[28/255, 162/255, 0]},
      {Thickness[0.01], RGBColor[185/255, 76/255, 225/255]},
      {Thickness[0.01], Orange}}, PlotMarkers \rightarrow {"", "", "",
      \label{eq:graphics} $$ [RGBColor[28/255, 162/255, 0], Thick, Circle[]], ImageSize \rightarrow 10], $$ $$
      Graphics [ {RGBColor [185 / 255, 76 / 255, 225 / 255], Thick, Circle [ ] },
       ImageSize → 10], ""}, ImagePadding → imagePadding,
   FrameLabel → {{"Relative reduction in\npeak number of diagnoses (%)", None},
      {"Efficacy of government-imposed\nsocial distancing (%)", None}}],
  \texttt{Graphics}[\texttt{Text}[\texttt{StyleForm}["A", FontSize} \rightarrow 26], \{100*0.05, 100*0.95\}]],
  Graphics[Text[StyleForm["baseline (no awareness)", FontSize → 13,
      FontColor → RGBColor[217 / 255, 0, 0]], {75, 3.5}]], Graphics[
    {RGBColor[217 / 255, 0, 0], Thickness[0.005], Line[{{0, 0}, {100, 0}}]}]]
Export[StringJoin[
    "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
      Resubmission//FinalFigures//Figure6A", ".pdf"], fig6A];
Export[StringJoin[
    "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
      Resubmission//FinalFigures//Figure6A", ".eps"], fig6A];
   %
   peak number of diagnoses
Relative reduction in
        80
        60
        40
        20
                                    baseline (no awareness)
          0
                    20
                             40
                                      60
                                               80
                                                        100
                Efficacy of government-imposed
```

social distancing (%)

```
fig6B = Show[ListLinePlot[{AttackRateFast30, AttackRateFast45, AttackRateFast60,
    AttackRateSlow30[;; ;; 5]], AttackRateSlow45[;; ;; 5]], AttackRateSlow60},
   AspectRatio \rightarrow 0.75, ImageSize \rightarrow 400, PlotRange \rightarrow {{0, 100}, {-0.35, 20}},
   AxesOrigin \rightarrow \{0, 0\}, Frame \rightarrow \{\{True, False\}, \{True, False\}\},
   FrameStyle \rightarrow Directive[Black, 17], PlotMarkers \rightarrow {"", "", "",
      Graphics[\{RGBColor[28/255, 162/255, 0], Thick, Circle[]\}, ImageSize \rightarrow 10],
      Graphics [ {RGBColor [185 / 255, 76 / 255, 225 / 255], Thick, Circle [ ] },
       ImageSize \rightarrow 10], ""},
   PlotStyle \rightarrow \{ \{ \text{Thickness}[0.01], \, \text{RGBColor}[248 / 255, \, 196 / 255, \, 0] \} \}
      {Thickness[0.01], RGBColor[26/255, 94/255, 214/255]},
      {Thickness[0.01], RGBColor[192/255, 0, 120/255]},
      {Thickness[0.01], RGBColor[28/255, 162/255, 0]},
      {Thickness[0.01], RGBColor[185/255, 76/255, 225/255]},
      {Thickness[0.01], Orange}, FrameLabel \rightarrow {{"Attack rate (%)", None}},
      {"Efficacy of government-imposed\nsocial distancing (%)", None}},
   PlotRangePadding → None(*, PlotLabel→
    Style[Row[{"Slow spread of awareness"}],17,Black]*),
   ImagePadding → imagePadding],
  Graphics[{RGBColor[217 / 255, 0, 0], Thickness[0.005],
    Line[{{0, AttackRateBaseline}, {100, AttackRateBaseline}}]}],
  Graphics [Text[StyleForm["B", FontSize \rightarrow 26], {100 * 0.05, 20 * 0.95}]],
  Graphics[Text[StyleForm["baseline (no awareness)", FontSize → 13,
      FontColor \rightarrow RGBColor[217 / 255, 0, 0]], {72.5, 17}]]]
Export[StringJoin[
    "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
      Resubmission//FinalFigures//Figure6B", ".pdf"], fig6B];
Export[StringJoin[
   "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
      Resubmission//FinalFigures//Figure6B", ".eps"], fig6B];
        20
             В
                                  baseline (no awareness
        15
    Attack rate (%)
        10
         5
          0
                   20
                            40
                                     60
                                              80
                                                       100
                Efficacy of government-imposed
                      social distancing (%)
```

```
fig6C = Show[ListLinePlot[{PeakTimingFast30, PeakTimingFast45, PeakTimingFast60,
        PeakTimingSlow30[[;;;;5]], PeakTimingSlow45[[3;;;5]], PeakTimingSlow60],
      AspectRatio \rightarrow 0.75, ImageSize \rightarrow 400, PlotRange \rightarrow {All, {0, 800}},
      AxesOrigin \rightarrow \{0, 0\}, Frame \rightarrow \{\{True, False\}, \{True, False\}\},
      FrameStyle → Directive[Black, 17], PlotMarkers → {"", "", "",
          Graphics \ [ \{RGBColor[28 / 255, 162 / 255, 0], Thick, Circle[] \}, ImageSize \rightarrow 10], 
          Graphics [ {RGBColor [185 / 255, 76 / 255, 225 / 255], Thick, Circle [ ] },
             ImageSize \rightarrow 10], ""},
      PlotStyle \rightarrow {{Thickness[0.01], RGBColor[248 / 255, 196 / 255, 0]},
           {Thickness[0.01], RGBColor[26/255, 94/255, 214/255]},
           {Thickness[0.01], RGBColor[192/255, 0, 120/255]},
           {Thickness[0.01], RGBColor[28/255, 162/255, 0]}, {Thickness[0.01],
             RGBColor[185 / 255, 76 / 255, 225 / 255]}, {Thickness[0.01], Orange}},
      FrameLabel → {{"Time until the peak\nof diagnoses (months)", None},
           {"Efficacy of government-imposed\nsocial distancing (%)", None}},
      ImagePadding → imagePadding, PlotRangePadding → None,
       (*PlotLabel→Style[Row[{"Slow spread of awareness"}],17,Black],*)
      {\tt PlotLegends} \rightarrow {\tt LineLegend[Table[Style[Row[\{label\}], Black, 13, "Text"], Institute of the property of t
             {label, {"30%, Fast", "45%, Fast", "60%, Fast", "30%, Slow",
                  "45%, Slow", "60%, Slow"}}], LegendLabel \rightarrow Style[
               "Handwashing efficacy, \nRate of awareness spread", Black, 13, "Text"]],
      FrameTicks \rightarrow {{{\{0, "0"}\}, {365 / 2, "6"}, {365, "12"}, {365 × 2, "24"},
               {365 \times 3 / 2, "18"}, None}, {Automatic, None}}],
    Graphics [{RGBColor[217 / 255, 0, 0], Thickness[0.005],
        Line[{{0, PeakTimingBaseline}, {100, PeakTimingBaseline}}]}],
    \texttt{Graphics}[\texttt{Text}[\texttt{StyleForm}["C", FontSize} \rightarrow 26], \{100 * 0.05, 800 * 0.95\}]],
    Graphics[Text[StyleForm["baseline (no awareness)",
          FontSize \rightarrow 13, FontColor \rightarrow RGBColor[217 / 255, 0, 0]], {75, 130}]]]
Export[StringJoin[
       "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
          Resubmission//FinalFigures//Figure6C", ".pdf"], fig6C];
Export[StringJoin[
       "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
          Resubmission//FinalFigures//Figure6C", ".eps"], fig6C];
               24
         of diagnoses (months)
  Time until the peak
               18
                                                                                                            Handwashing efficacy,
                                                                                                             Rate of awareness spread

    30%, Fast

               12
                              45%. Fast
                                                                                                                        60%, Fast
                                                                                                                       30%, Slow
                 6
                                                              baseline (no awareness)
                                                                                                                     45%, Slow
                                                                                                                       60%, Slow
                0,
                                  20
                                                  40
                                                                  60
                                                                                  80
                                                                                                 100
                            Efficacy of government-imposed
                                        social distancing (%)
```

Sensitivity analyses of the baseline transmission model

Parameter ranges in the sensitivity analyses

Relative infectivity of mildly infected

```
In[201]:= RelativeInfectivityBaseline = 0.5
      RelativeInfectivityMin = 0.25
      RelativeInfectivityMax = 0.75
Out[201]= 0.5
Out[202]= 0.25
Out[203]= 0.75
```

Proportion of mildly infected

```
In[338]:= ProportionMildSymptomsBaseline = 0.82
      ProportionMildSymptomsMin = 0.86
      ProportionMildSymptomsMax = 0.9
Out[338]= 0.82
Out[339]= 0.86
Out[340]= 0.9
```

I/recovery period of mildly infected, I/year

```
In[207]:= RecoveryRateMildSymptomsBaseline = 365 / 7
      RecoveryRateMildSymptomsMin = 365 / 9
      RecoveryRateMildSymptomsMax = 365 / 5
Out[207]=
Out[208]=
Out[209]= 73
```

I/delay from onset of infectiousness to diagnosis for individuals with severe symptoms, I/year

```
In[210]:= DiagnosisRateBaseline = 365 / 5
        DiagnosisRateMin = 365 / 7
        DiagnosisRateMax = 365 / 3
Out[210]= 73
Out[211]= \frac{365}{7}
Out[212]= \frac{365}{3}
```

Basic reproduction number

```
In[652]:= BasicReproductionNumberBaseline = 2.5
      BasicReproductionNumberMin = 2
      BasicReproductionNumberMax = 3
Out[652]= 2.5
Out[653]= 2
Out[654]= 3
```

Reduction factor (number of points in calculations)

```
In[216]:= ReductionFactor = Table[i, {i, 0, 1, 0.01}];
```

Parameters for sensitivity analyses

```
In[341]:= ParametersSensitivityAnalyses[RelativeInfectivity_,
                   ProportionMildSymptoms_, RecoveryRateMildSymptoms_, DiagnosisRate_,
                   BasicReproductionNumber_, RelativeSusceptibilityAwareness_,
                   RateAwarenessFadingSusceptibleExposedMildSymptoms_,
                   RateAwarenessFadingSevereSymptoms_, TransmissionRateAwareness_,
                   DiagnosisRateAware_, StartTimeValue_] :=
                 ig\{AverageContactRate, \sigma	o RelativeInfectivity, RateInfectiousnessOnset,
                   p \rightarrow ProportionMildSymptoms, \gamma_1 \rightarrow RecoveryRateMildSymptoms, v \rightarrow DiagnosisRate,
                   RecoveryRateSevereSymptomsUnaware, RecoveryRateSevereSymptomsAware,
                   FatalityRateUnaware, FatalityRateAware, DeathRateDiagnosedUnaware,
                   \label{eq:decomposition} \textbf{DeathRateDiagnosedAware, } \textbf{R}_0 \rightarrow \textbf{BasicReproductionNumber,}
                   Solve \left[ R_0 = \frac{p \beta \sigma}{} + \frac{(1-p) \beta}{} / . \beta \rightarrow c \varepsilon, \varepsilon \right] [ [1, 1] / . \{ p \rightarrow ProportionMildSymptoms, proportionMildSymptoms
                         AverageContactRate, \sigma \rightarrow \text{RelativeInfectivity}, \gamma_1 \rightarrow \text{RecoveryRateMildSymptoms},
                         v \rightarrow DiagnosisRate, R_0 \rightarrow BasicReproductionNumber}
                   \{p \rightarrow ProportionMildSymptoms, AverageContactRate, \sigma \rightarrow RelativeInfectivity, \}
                               \gamma_1 \rightarrow \texttt{RecoveryRateMildSymptoms}, \ \lor \rightarrow \texttt{DiagnosisRate},
                               R_0 \rightarrow BasicReproductionNumber\}, k \rightarrow RelativeSusceptibilityAwareness,
                   \mu_1 \rightarrow RateAwarenessFadingSusceptibleExposedMildSymptoms,
                   \mu_2 \rightarrow RateAwarenessFadingSevereSymptoms, \delta \rightarrow TransmissionRateAwareness,
                   v^a \rightarrow DiagnosisRateAware, StartTime \rightarrow StartTimeValue
             ReductionFactor = Table[i, {i, 0, 1, 0.01}];
```

```
PeakMaskBaseline = PeakRange["Mask",
  Join [ParametersSensitivityAnalyses [RelativeInfectivityBaseline,
    ProportionMildSymptomsBaseline, RecoveryRateMildSymptomsBaseline,
    DiagnosisRateBaseline, BasicReproductionNumberBaseline,
    RelativeSusceptibilityAwarenessBaseline,
    RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_1 \rightarrow factor\}]
PeakMaskMin =
 PeakRange ["Mask", Join [ParametersSensitivityAnalyses [RelativeInfectivityMin,
    ProportionMildSymptomsBaseline, RecoveryRateMildSymptomsBaseline,
    DiagnosisRateBaseline, BasicReproductionNumberBaseline,
    RelativeSusceptibilityAwarenessBaseline,
    RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_1 \rightarrow factor\}]]
PeakMaskMax =
 PeakRange["Mask", Join[ParametersSensitivityAnalyses[RelativeInfectivityMax,
    ProportionMildSymptomsBaseline, RecoveryRateMildSymptomsBaseline,
    DiagnosisRateBaseline, BasicReproductionNumberBaseline,
    RelativeSusceptibilityAwarenessBaseline,
    RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_1 \rightarrow factor\}]]
AttackRateMaskBaseline =
 AttackRateRange["Mask", Join[ParametersSensitivityAnalyses[
    RelativeInfectivityBaseline, ProportionMildSymptomsBaseline,
    RecoveryRateMildSymptomsBaseline, DiagnosisRateBaseline,
    BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline,
    RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_1 \rightarrow factor\}]]
AttackRateMaskMin = AttackRateRange["Mask",
  Join[ParametersSensitivityAnalyses[RelativeInfectivityMin,
    ProportionMildSymptomsBaseline, RecoveryRateMildSymptomsBaseline,
    DiagnosisRateBaseline, BasicReproductionNumberBaseline,
    RelativeSusceptibilityAwarenessBaseline,
    {\tt Rate Awareness Fading Susceptible Exposed Mild Symptoms Baseline,}
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    \texttt{StartTimeBaseline], } \{ \texttt{r}_1 \rightarrow \texttt{factor} \} ] ]
AttackRateMaskMax = AttackRateRange["Mask",
  Join [ParametersSensitivityAnalyses [RelativeInfectivityMax,
    ProportionMildSymptomsBaseline, RecoveryRateMildSymptomsBaseline,
    DiagnosisRateBaseline, BasicReproductionNumberBaseline,
    RelativeSusceptibilityAwarenessBaseline,
    {\tt RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,}
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_1 \rightarrow factor\}]
PeakTimingMaskBaseline =
 PeakTimingRange["Mask", Join[ParametersSensitivityAnalyses[
```

RelativeInfectivityBaseline, ProportionMildSymptomsBaseline, RecoveryRateMildSymptomsBaseline, DiagnosisRateBaseline, BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline, RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline, RateAwarenessFadingSevereSymptomsBaseline, AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline, StartTimeBaseline], $\{r_1 \rightarrow factor\}$]

PeakTimingMaskMin = PeakTimingRange["Mask",

Join[ParametersSensitivityAnalyses[RelativeInfectivityMin, ProportionMildSymptomsBaseline, RecoveryRateMildSymptomsBaseline, DiagnosisRateBaseline, BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline, RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline, RateAwarenessFadingSevereSymptomsBaseline, AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline, StartTimeBaseline], $\{r_1 \rightarrow factor\}$]

PeakTimingMaskMax = PeakTimingRange["Mask",

Join [ParametersSensitivityAnalyses [RelativeInfectivityMax, ProportionMildSymptomsBaseline, RecoveryRateMildSymptomsBaseline, DiagnosisRateBaseline, BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline, RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline, RateAwarenessFadingSevereSymptomsBaseline, AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline, StartTimeBaseline], $\{r_1 \rightarrow factor\}$]

 $Out[218] = \{\{100., 99.9897\}, \{99., 99.9895\}, \{98., 99.9894\}, \{97., 99.9892\}, \{96., 99.9891\}, \{98., 99.9894\}, \{98., 99.9894\}, \{98., 99.9892\}, \{98., 99.9894\},$ {95., 99.9889}, {94., 99.9887}, {93., 99.9886}, {92., 99.9884}, {91., 99.9882}, {90., 99.988}, {89., 99.9878}, {88., 99.9876}, {87., 99.9874}, {86., 99.9872}, {85., 99.987}, {84., 99.9867}, {83., 99.9865}, {82., 99.9862}, {81., 99.986}, {80., 99.9857}, {79., 99.9854}, {78., 99.9851}, {77., 99.9847}, {76., 99.9844}, {75., 99.984}, {74., 99.9837}, {73., 99.9832}, {72., 99.9828}, {71., 99.9823}, $\{70., 99.9818\}, \{69., 99.9812\}, \{68., 99.9806\}, \{67., 99.9799\}, \{66., 99.9792\},$ $\{65., 99.9783\}, \{64., 99.9772\}, \{63., 99.9758\}, \{62., 99.9733\}, \{61., 99.9687\},$ $\{60., 99.9621\}, \{59., 99.9522\}, \{58., 99.9356\}, \{57., 99.9046\}, \{56., 99.8396\},$ {55., 99.6973}, {54., 99.4204}, {53., 98.9754}, {52., 98.3611}, {51., 97.5905}, {50., 96.6796}, {49., 95.6439}, {48., 94.4978}, {47., 93.2544}, {46., 91.9255}, {45., 90.5218}, {44., 89.053}, {43., 87.5278}, {42., 85.9542}, {41., 84.3393}, {40., 82.6896}, {39., 81.011}, {38., 79.3088}, {37., 77.5876}, {36., 75.8518}, $\{35., 74.1053\}, \{34., 72.3514\}, \{33., 70.5933\}, \{32., 68.8339\}, \{31., 67.0755\},$ $\{30., 65.3205\}, \{29., 63.5709\}, \{28., 61.8284\}, \{27., 60.0946\},$ {26., 58.3709}, {25., 56.6586}, {24., 54.9588}, {23., 53.2724}, {22., 51.6003}, {21., 49.9432}, {20., 48.3019}, {19., 46.6767}, $\{18., 45.0683\}, \{17., 43.4769\}, \{16., 41.903\}, \{15., 40.3467\}, \{14., 38.8084\},$ $\{13., 37.2881\}, \{12., 35.7861\}, \{11., 34.3024\}, \{10., 32.8369\},$ $\{9., 31.3899\}, \{8., 29.9612\}, \{7., 28.5509\}, \{6., 27.1588\}, \{5., 25.7848\}, \{6., 27.1588\}, \{6.,$ $\{4., 24.4289\}, \{3., 23.091\}, \{2., 21.771\}, \{1., 20.4686\}, \{0., 19.1837\}\}$

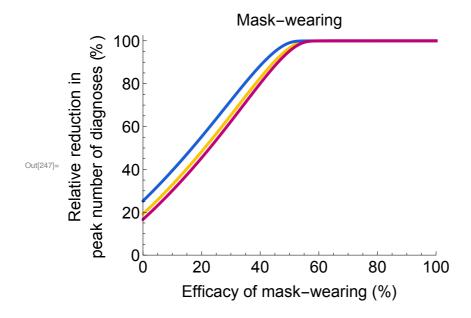
```
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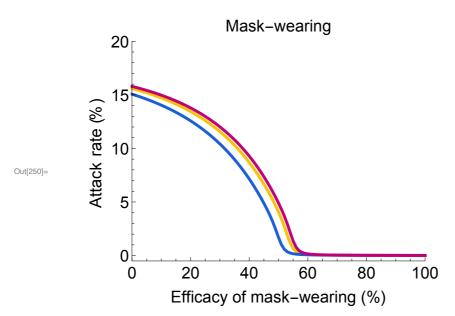
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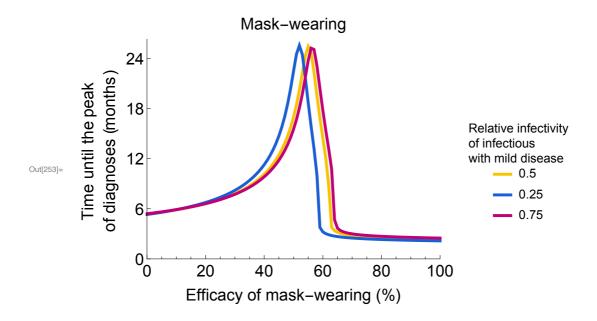
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Out[224] = \{\{100., 71.893\}, \{99., 72.0936\}, \{98., 72.3142\}, \{97., 72.5348\}, \{96., 72.7553\}, \{98., 72.3142\}, \{97., 72.5348\}, \{96., 72.7553\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.5348\}, \{98., 72.7553\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.5348\}, \{98., 72.7553\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.5348\}, \{98., 72.7553\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, \{98., 72.3142\}, 
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                 \{18., 195.946\}, \{17., 193.439\}, \{16., 191.053\}, \{15., 188.747\},
                 \{14., 186.541\}, \{13., 184.415\}, \{12., 182.37\}, \{11., 180.404\}, \{10., 178.519\},
                 \{9., 176.694\}, \{8., 174.93\}, \{7., 173.245\}, \{6., 171.601\}, \{5., 170.016\},
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```

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Out[225] = \{\{100., 65.556\}, \{99., 65.7365\}, \{98., 65.917\}, \{97., 66.1175\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{96., 66.3181\}, \{
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                {66., 103.358}, {65., 111.78}, {64., 142.262}, {63., 327.259}, {62., 400.896},
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               {51., 507.041}, {50., 471.706}, {49., 441.947}, {48., 416.578}, {47., 394.72},
               {46., 375.729}, {45., 359.044}, {44., 344.264}, {43., 331.109}, {42., 319.277},
               {41., 308.609}, {40., 298.903}, {39., 290.059}, {38., 281.957},
               {37., 274.477}, {36., 267.598}, {35., 261.201}, {34., 255.265},
               \{33., 249.731\}, \{32., 244.557\}, \{31., 239.704\}, \{30., 235.151\}, \{29., 230.86\},
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 ln[246] = imagePadding = \{ \{80, 15\}, \{73, 7.5\} \};
            SS1 = ListLinePlot[{PeakMaskBaseline, PeakMaskMin, PeakMaskMax},
                 AspectRatio \rightarrow 0.75, ImageSize \rightarrow 400, PlotRange \rightarrow {All, {0, 102.5}},
                 AxesOrigin \rightarrow \{0, 0\}, Frame \rightarrow \{\{True, False\}, \{True, False\}\},
                 FrameStyle → Directive[Black, 17], PlotRangePadding → None,
                 PlotStyle \rightarrow {{Thickness[0.01], RGBColor[248 / 255, 196 / 255, 0]},
                       {Thickness[0.01], RGBColor[26 / 255, 94 / 255, 214 / 255]},
                       {Thickness[0.01], RGBColor[192/255, 0, 120/255]}},
                 PlotLabel → Style[Row[{"Mask-wearing"}], 17, Black],
                 ImagePadding → imagePadding,
                 FrameLabel → {{"Relative reduction in\npeak number of diagnoses (%)", None},
                       {"Efficacy of mask-wearing (%)", None}}]
            Export[StringJoin[
                     //Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine/
                         Resubmission//FinalFigures//SS1", ".pdf"], SS1];
            Export[StringJoin[
```

```
"//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
      Resubmission//FinalFigures//SS1", ".eps"], SS1];
 ListLinePlot[{AttackRateMaskBaseline, AttackRateMaskMin, AttackRateMaskMax},
  AspectRatio \rightarrow 0.75, ImageSize \rightarrow 400, PlotRange \rightarrow {All, {-0.5, 20}},
  AxesOrigin \rightarrow {0, 0}, Filling \rightarrow {1 \rightarrow {2}}, Frame \rightarrow {{True, False}, {True, False}},
  FrameStyle → Directive[Black, 17], PlotRangePadding → None,
  PlotStyle \rightarrow \{ \{ Thickness[0.01], RGBColor[248 / 255, 196 / 255, 0] \}, \}
     {Thickness[0.01], RGBColor[26/255, 94/255, 214/255]},
     {Thickness[0.01], RGBColor[192/255, 0, 120/255]}},
  PlotLabel → Style[Row[{"Mask-wearing"}], 17, Black],
  ImagePadding → imagePadding, FrameLabel →
   {{"Attack rate (%)", None}, {"Efficacy of mask-wearing (%)", None}}]
Export[StringJoin[
    "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
      Resubmission//FinalFigures//SS2", ".pdf"], SS2];
Export[StringJoin[
    //Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine/
      Resubmission//FinalFigures//SS2", ".eps"], SS2];
SS3 =
 ListLinePlot[{PeakTimingMaskBaseline, PeakTimingMaskMin, PeakTimingMaskMax},
  AspectRatio \rightarrow 0.75, ImageSize \rightarrow 400, PlotRange \rightarrow {All, {0, 800}},
  AxesOrigin \rightarrow \{0, 0\}, Frame \rightarrow \{\{True, False\}, \{True, False\}\},
  FrameStyle → Directive[Black, 17], PlotMarkers → {"", "", "",
    Graphics[\{RGBColor[28/255, 162/255, 0], Thick, Circle[]\}, ImageSize \rightarrow 10],
    Graphics[{RGBColor[185 / 255, 76 / 255, 225 / 255], Thick, Circle[]},
      ImageSize \rightarrow 10], ""},
  PlotStyle \rightarrow {{Thickness[0.01], RGBColor[248 / 255, 196 / 255, 0]},
     {Thickness[0.01], RGBColor[26/255, 94/255, 214/255]},
     {Thickness[0.01], RGBColor[192/255, 0, 120/255]}},
  FrameLabel → {{"Time until the peak\nof diagnoses (months)", None},
     {"Efficacy of mask-wearing (%)", None}},
  {\tt ImagePadding} \rightarrow {\tt imagePadding}, \ {\tt PlotRangePadding} \rightarrow {\tt None},
  PlotLabel → Style[Row[{"Mask-wearing"}], 17, Black],
  PlotLegends → LineLegend[Table[Style[Row[{label}], Black, 13, "Text"],
      {label, {"0.5", "0.25", "0.75"}}], LegendLabel \rightarrow
      Style["Relative infectivity\nof infectious\nwith mild disease", Black,
       13, "Text"]], FrameTicks \rightarrow {{{\{0, "0"\}, \{365/2, "6"\}, \{365, "12"\}, \}
       \{365 \times 2, "24"\}, \{365 \times 3 / 2, "18"\}\}, None\}, \{Automatic, None\}\}
Export[StringJoin[
   "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
      Resubmission//FinalFigures//SS3", ".pdf"], SS3];
Export[StringJoin[
   "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
      Resubmission//FinalFigures//SS3", ".eps"], SS3];
```







In[265]:= ReductionFactor = Table[i, {i, 0, 1, 0.1}];

PeakGovBaseline =

PeakRange["ContactReductionGovernment", Join[ParametersSensitivityAnalyses[RelativeInfectivityBaseline, ProportionMildSymptomsBaseline, RecoveryRateMildSymptomsBaseline, DiagnosisRateBaseline, BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline, RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline, RateAwarenessFadingSevereSymptomsBaseline, AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline, StartTimeBaseline], $\{r_4 \rightarrow factor\}$]

PeakGovMin =

PeakRange ["ContactReductionGovernment", Join [ParametersSensitivityAnalyses [RelativeInfectivityMin, ProportionMildSymptomsBaseline, RecoveryRateMildSymptomsBaseline, DiagnosisRateBaseline, BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline, RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline, RateAwarenessFadingSevereSymptomsBaseline, AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline, StartTimeBaseline], $\{r_4 \rightarrow factor\}$]

PeakGovMax =

PeakRange["ContactReductionGovernment", Join[ParametersSensitivityAnalyses[RelativeInfectivityMax, ProportionMildSymptomsBaseline, RecoveryRateMildSymptomsBaseline, DiagnosisRateBaseline, BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline, RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline, RateAwarenessFadingSevereSymptomsBaseline, AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline, StartTimeBaseline], $\{r_4 \rightarrow factor\}$]]

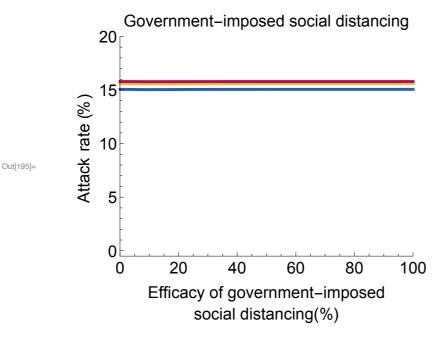
AttackRateGovBaseline = AttackRateRange[

"ContactReductionGovernment", Join[ParametersSensitivityAnalyses[${\tt RelativeInfectivityBaseline, ProportionMildSymptomsBaseline,}$ RecoveryRateMildSymptomsBaseline, DiagnosisRateBaseline, BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline, RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline, RateAwarenessFadingSevereSymptomsBaseline,

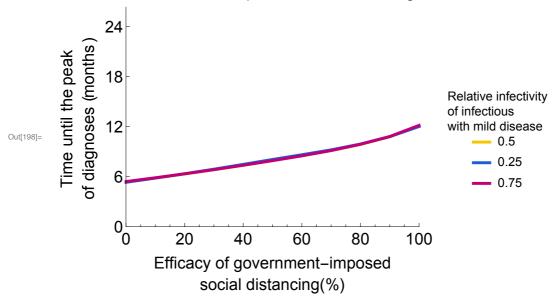
```
AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
          StartTimeBaseline], \{r_4 \rightarrow factor\}]
     AttackRateGovMin = AttackRateRange[
        "ContactReductionGovernment", Join[ParametersSensitivityAnalyses[
          RelativeInfectivityMin, ProportionMildSymptomsBaseline,
          RecoveryRateMildSymptomsBaseline, DiagnosisRateBaseline,
          BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline,
          RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
          RateAwarenessFadingSevereSymptomsBaseline,
          AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
          StartTimeBaseline], \{r_4 \rightarrow factor\}]
     AttackRateGovMax = AttackRateRange[
        "ContactReductionGovernment", Join[ParametersSensitivityAnalyses[
          RelativeInfectivityMax, ProportionMildSymptomsBaseline,
          RecoveryRateMildSymptomsBaseline, DiagnosisRateBaseline,
          BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline,
          RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
          RateAwarenessFadingSevereSymptomsBaseline,
          AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
          StartTimeBaseline], \{r_4 \rightarrow factor\}]
      PeakTimingGovBaseline = PeakTimingRange[
        "ContactReductionGovernment", Join[ParametersSensitivityAnalyses[
          RelativeInfectivityBaseline, ProportionMildSymptomsBaseline,
          RecoveryRateMildSymptomsBaseline, DiagnosisRateBaseline,
          BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline,
          RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
          RateAwarenessFadingSevereSymptomsBaseline,
          AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
          StartTimeBaseline], \{r_4 \rightarrow factor\}]]
      PeakTimingGovMin = PeakTimingRange[
        "ContactReductionGovernment", Join[ParametersSensitivityAnalyses[
          RelativeInfectivityMin, ProportionMildSymptomsBaseline,
          RecoveryRateMildSymptomsBaseline, DiagnosisRateBaseline,
          BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline,
          {\tt RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,}
          RateAwarenessFadingSevereSymptomsBaseline,
          AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
          StartTimeBaseline], \{r_4 \rightarrow factor\}]]
      PeakTimingGovMax = PeakTimingRange[
        "Contact Reduction Government", {\tt Join[ParametersSensitivityAnalyses[}
          {\tt RelativeInfectivityMax, ProportionMildSymptomsBaseline,}
          {\tt RecoveryRateMildSymptomsBaseline, DiagnosisRateBaseline,}
          BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline,
          {\tt Rate Awareness Fading Susceptible Exposed Mild Symptoms Baseline,}
          RateAwarenessFadingSevereSymptomsBaseline,
          AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
          StartTimeBaseline], \{r_4 \rightarrow factor\}]
Out[266]= \{\{100., 19.1862\}, \{90., 19.1867\}, \{80., 19.1876\},
       \{70., 19.1898\}, \{60., 19.1954\}, \{50., 19.2108\}, \{40., 19.2514\},
       \{30., 19.3545\}, \{20., 19.5743\}, \{10., 19.8368\}, \{0., 19.1837\}\}
Out[267]= \{\{100., 25.2764\}, \{90., 25.2772\}, \{80., 25.2787\},
       \{70., 25.282\}, \{60., 25.2904\}, \{50., 25.3115\}, \{40., 25.3654\},
       \{30., 25.5011\}, \{20., 25.7913\}, \{10., 26.1403\}, \{0., 25.272\}\}
```

```
Out[268]= \{\{100., 16.6591\}, \{90., 16.6594\}, \{80., 16.6601\}, \}
                \{70., 16.6616\}, \{60., 16.6658\}, \{50., 16.6774\}, \{40., 16.7089\},
               \{30., 16.7891\}, \{20., 16.9598\}, \{10., 17.1643\}, \{0., 16.6574\}\}
Out[269] = \{\{100., 15.5894\}, \{90., 15.5894\}, \{80., 15.5894\}, \}
                \{70., 15.5893\}, \{60., 15.5892\}, \{50., 15.5888\}, \{40., 15.5878\},
               \{30., 15.5853\}, \{20., 15.58\}, \{10., 15.5735\}, \{0., 15.5895\}\}
Out[270]= \{\{100., 15.0624\}, \{90., 15.0624\}, \{80., 15.0624\}, 
               \{70., 15.0623\}, \{60., 15.062\}, \{50., 15.0615\}, \{40., 15.0599\},
               \{30., 15.0562\}, \{20., 15.048\}, \{10., 15.0381\}, \{0., 15.0626\}\}
Out[271]= \{\{100., 15.7902\}, \{90., 15.7902\}, \{80., 15.7901\},
                \{70., 15.7901\}, \{60., 15.79\}, \{50., 15.7898\}, \{40., 15.789\},
               \{30., 15.7872\}, \{20., 15.7833\}, \{10., 15.7786\}, \{0., 15.7902\}\}
Out[272] = \{ \{100., 366.865\}, \{90., 327.359\}, \{80., 299.424\}, \}
                \{70., 277.084\}, \{60., 258.253\}, \{50., 240.867\}, \{40., 223.761\},
               \{30., 207.357\}, \{20., 191.835\}, \{10., 177.095\}, \{0., 162.797\}\}
Out[273]= \{\{100., 364.88\}, \{90., 328.101\}, \{80., 301.189\}, \}
               \{70., 279.932\}, \{60., 262.204\}, \{50., 244.998\}, \{40., 227.09\},
               \{30., 209.603\}, \{20., 192.998\}, \{10., 177.156\}, \{0., 161.714\}\}
Out[274]= \{\{100., 369.191\}, \{90., 328.582\}, \{80., 300.246\},
                \{70., 277.465\}, \{60., 258.133\}, \{50., 240.626\}, \{40., 223.821\},
                \{30., 207.838\}, \{20., 192.717\}, \{10., 178.379\}, \{0., 164.542\}\}
 ln[191]:= imagePadding = { {80, 15}, {73, 7.5} };
             SS4 = ListLinePlot[{PeakGovBaseline, PeakGovMin, PeakGovMax},
                 AspectRatio \rightarrow 0.75, ImageSize \rightarrow 400, PlotRange \rightarrow {All, {0, 102.5}},
                  AxesOrigin \rightarrow \{0, 0\}, Frame \rightarrow \{\{True, False\}, \{True, False\}\},
                  FrameStyle → Directive[Black, 17], PlotRangePadding → None,
                  PlotStyle \rightarrow {{Thickness[0.01], RGBColor[248 / 255, 196 / 255, 0]},
                       {Thickness[0.01], RGBColor[26 / 255, 94 / 255, 214 / 255]},
                       {Thickness[0.01], RGBColor[192/255, 0, 120/255]}},
                  PlotLabel → Style[Row[{"Government-imposed social distancing"}], 17, Black],
                  ImagePadding → imagePadding,
                  FrameLabel → {{"Relative reduction in\npeak number of diagnoses (%)", None},
                       {"Efficacy of government-imposed\nsocial distancing(%)", None}}]
             Export[StringJoin[
                    "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
                         Resubmission//FinalFigures//SS4", ".pdf"], SS4];
             Export[StringJoin[
                    "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
                         Resubmission//FinalFigures//SS4", ".eps"], SS4];
             SS5 = ListLinePlot[{AttackRateGovBaseline, AttackRateGovMin, AttackRateGovMax},
                 AspectRatio \rightarrow 0.75, ImageSize \rightarrow 400, PlotRange \rightarrow {All, \{-0.5, 20\}\},
                 \mathbf{AxesOrigin} \rightarrow \{0, 0\}, \mathbf{Filling} \rightarrow \{1 \rightarrow \{2\}\}, \mathbf{Frame} \rightarrow \{\{\mathbf{True}, \mathbf{False}\}, \{\mathbf{True}, \mathbf{False}\}\}, \{\mathbf{True}, \mathbf{False}\}, \{\mathbf{True}, \mathbf{True}, \mathbf{Tru
                  FrameStyle → Directive[Black, 17], PlotRangePadding → None,
                  PlotStyle \rightarrow {{Thickness[0.01], RGBColor[248 / 255, 196 / 255, 0]},
                       {Thickness[0.01], RGBColor[26/255, 94/255, 214/255]},
                       {Thickness[0.01], RGBColor[192/255, 0, 120/255]}},
                  PlotLabel → Style[Row[{"Government-imposed social distancing"}], 17, Black],
                   \label{eq:local_local_local} \textbf{ImagePadding} \rightarrow \textbf{imagePadding}, \ \textbf{FrameLabel} \rightarrow \ \{ \{ \texttt{"Attack rate (\%)", None} \}, 
                       {"Efficacy of government-imposed\nsocial distancing(%)", None}}]
             Export[StringJoin[
                    "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
                         Resubmission//FinalFigures//SS5", ".pdf"], SS5];
```

```
Export[StringJoin[
          "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
            Resubmission//FinalFigures//SS5", ".eps"], SS5];
      SS6 = ListLinePlot[{PeakTimingGovBaseline, PeakTimingGovMin, PeakTimingGovMax},
        AspectRatio \rightarrow 0.75, ImageSize \rightarrow 400, PlotRange \rightarrow {All, {0, 800}},
        AxesOrigin \rightarrow \{0, 0\}, Frame \rightarrow \{\{True, False\}, \{True, False\}\},
        FrameStyle → Directive[Black, 17], PlotMarkers → {"", "", '
           Graphics[\{RGBColor[28/255, 162/255, 0], Thick, Circle[]\}, ImageSize \rightarrow 10],
           Graphics [ {RGBColor [185 / 255, 76 / 255, 225 / 255], Thick, Circle [ ] },
            ImageSize \rightarrow 10], ""},
        PlotStyle \rightarrow \{ \{ Thickness[0.01], RGBColor[248 / 255, 196 / 255, 0] \}, \}
           {Thickness[0.01], RGBColor[26/255, 94/255, 214/255]},
           {Thickness[0.01], RGBColor[192/255, 0, 120/255]}},
        FrameLabel → {{"Time until the peak\nof diagnoses (months)", None},
           {"Efficacy of government-imposed\nsocial distancing(%)", None}},
        ImagePadding → imagePadding, PlotRangePadding → None,
        PlotLabel → Style[Row[{"Government-imposed social distancing"}], 17, Black],
        PlotLegends → LineLegend[Table[Style[Row[{label}], Black, 13, "Text"],
             {label, {"0.5", "0.25", "0.75"}}], LegendLabel \rightarrow
            Style["Relative infectivity\nof infectious\nwith mild disease", Black,
             13, "Text"]], FrameTicks \rightarrow {{{0, "0"}, {365 / 2, "6"}, {365, "12"},
              \{365 \times 2, "24"\}, \{365 \times 3 / 2, "18"\}\}, None\}, \{Automatic, None\}\}
      Export[StringJoin[
          "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
            Resubmission//FinalFigures//SS6", ".pdf"], SS6];
      Export[StringJoin[
          "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
            Resubmission//FinalFigures//SS6", ".eps"], SS6];
                   Government-imposed social distancing
             100
         peak number of diagnoses (%)
      Relative reduction in
               80
               60
Out[192]=
               40
               20
                0
                 0
                          20
                                   40
                                            60
                                                     80
                                                             100
                      Efficacy of government-imposed
                             social distancing(%)
```



Government-imposed social distancing



In[362]:= ReductionFactor = Table[i, {i, 0, 1, 0.01}];

PeakMaskBaseline = PeakRange["Mask",

Join[ParametersSensitivityAnalyses[RelativeInfectivityBaseline, ProportionMildSymptomsBaseline, RecoveryRateMildSymptomsBaseline, DiagnosisRateBaseline, BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline, RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline, RateAwarenessFadingSevereSymptomsBaseline, AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline, StartTimeBaseline], $\{r_1 \rightarrow factor\}$]

PeakMaskMin = PeakRange["Mask",

Join [ParametersSensitivityAnalyses [RelativeInfectivityBaseline, ProportionMildSymptomsMin, RecoveryRateMildSymptomsBaseline, DiagnosisRateBaseline, BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline, RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,

```
RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_1 \rightarrow factor\}]
PeakMaskMax = PeakRange["Mask",
  Join [ParametersSensitivityAnalyses [RelativeInfectivityBaseline,
    ProportionMildSymptomsMax, RecoveryRateMildSymptomsBaseline,
    DiagnosisRateBaseline, BasicReproductionNumberBaseline,
    RelativeSusceptibilityAwarenessBaseline,
    RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_1 \rightarrow factor\}]]
AttackRateMaskBaseline =
 {\tt AttackRateRange["Mask", Join[ParametersSensitivityAnalyses[}
    RelativeInfectivityBaseline, ProportionMildSymptomsBaseline,
    RecoveryRateMildSymptomsBaseline, DiagnosisRateBaseline,
    BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline,
    RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_1 \rightarrow factor\}]]
AttackRateMaskMin = AttackRateRange["Mask",
  Join [ParametersSensitivityAnalyses [RelativeInfectivityBaseline,
    ProportionMildSymptomsMin, RecoveryRateMildSymptomsBaseline,
    DiagnosisRateBaseline, BasicReproductionNumberBaseline,
    RelativeSusceptibilityAwarenessBaseline,
    RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_1 \rightarrow factor\}]]
AttackRateMaskMax = AttackRateRange["Mask",
  Join [ParametersSensitivityAnalyses [RelativeInfectivityBaseline,
    ProportionMildSymptomsMax, RecoveryRateMildSymptomsBaseline,
    DiagnosisRateBaseline, BasicReproductionNumberBaseline,
    RelativeSusceptibilityAwarenessBaseline,
    {\tt RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,}
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    \texttt{StartTimeBaseline], } \{ \texttt{r}_1 \rightarrow \texttt{factor} \} ] ]
PeakTimingMaskBaseline =
 PeakTimingRange["Mask", Join[ParametersSensitivityAnalyses[
    {\tt RelativeInfectivityBaseline, ProportionMildSymptomsBaseline,}
    RecoveryRateMildSymptomsBaseline, DiagnosisRateBaseline,
    BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline,
    {\tt RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,}
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_1 \rightarrow factor\}]]
PeakTimingMaskMin = PeakTimingRange["Mask",
  Join[ParametersSensitivityAnalyses[RelativeInfectivityBaseline,
    ProportionMildSymptomsMin, RecoveryRateMildSymptomsBaseline,
    DiagnosisRateBaseline, BasicReproductionNumberBaseline,
    RelativeSusceptibilityAwarenessBaseline,
    {\tt RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,}
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
```

StartTimeBaseline], $\{r_1 \rightarrow factor\}$]

PeakTimingMaskMax = PeakTimingRange["Mask",

```
RelativeSusceptibilityAwarenessBaseline,
                                      RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
                                      RateAwarenessFadingSevereSymptomsBaseline,
                                      AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
                                      StartTimeBaseline], \{r_1 \rightarrow factor\}]
\mathsf{Out}_{[363]} = \{\{100., 99.9897\}, \{99., 99.9895\}, \{98., 99.9894\}, \{97., 99.9892\}, \{96., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.9891\}, \{99., 99.
                             95., 99.9889}, {94., 99.9887}, {93., 99.9886}, {92., 99.9884}, {91., 99.9882},
                             90., 99.988}, {89., 99.9878}, {88., 99.9876}, {87., 99.9874}, {86., 99.9872},
                             85., 99.987}, {84., 99.9867}, {83., 99.9865}, {82., 99.9862}, {81., 99.986},
                           {80., 99.9857}, {79., 99.9854}, {78., 99.9851}, {77., 99.9847}, {76., 99.9844},
                           \{75., 99.984\}, \{74., 99.9837\}, \{73., 99.9832\}, \{72., 99.9828\}, \{71., 99.9823\},
                           {70., 99.9818}, {69., 99.9812}, {68., 99.9806}, {67., 99.9799}, {66., 99.9792},
                             65., 99.9783}, {64., 99.9772}, {63., 99.9758}, {62., 99.9733}, {61., 99.9687},
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Join [ParametersSensitivityAnalyses [RelativeInfectivityBaseline, ProportionMildSymptomsMax, RecoveryRateMildSymptomsBaseline, DiagnosisRateBaseline, BasicReproductionNumberBaseline,

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                  \{9., 14.8145\}, \{8., 14.9133\}, \{7., 15.0087\}, \{6., 15.1007\}, \{5., 15.1895\},
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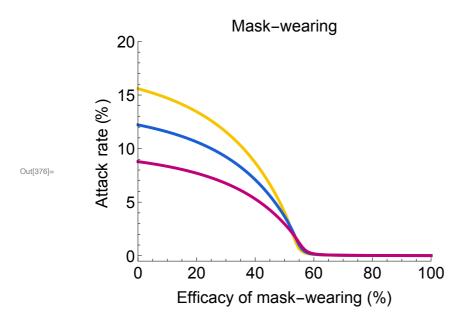
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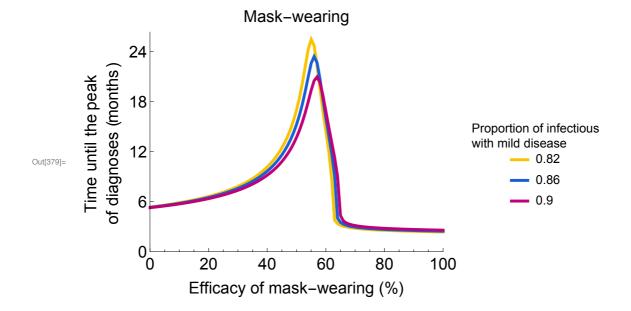
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Out[371] = \{\{100., 78.5308\}, \{99., 78.7514\}, \{98., 78.972\}, \{97., 79.2127\}, \{96., 79.4533\}, \{96., 79.4533\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, \{97., 79.2127\}, 
             95., 79.714}, {94., 79.9747}, {93., 80.2555}, {92., 80.5362}, {91., 80.817},
             90., 81.1378}, {89., 81.4587}, {88., 81.7996}, {87., 82.1405}, {86., 82.5216},
             85., 82.9026}, {84., 83.3237}, {83., 83.7649}, {82., 84.2261}, {81., 84.7275},
            {80., 85.2689}, {79., 85.8505}, {78., 86.4722}, {77., 87.154}, {76., 87.916},
            \{75., 88.7583\}, \{74., 89.7008\}, \{73., 90.7637\}, \{72., 92.007\}, \{71., 93.491\},
            \{70., 95.2758\}, \{69., 97.5218\}, \{68., 100.51\}, \{67., 104.841\}, \{66., 112.161\},
            {65., 131.553}, {64., 274.357}, {63., 343.282}, {62., 398.951}, {61., 454.36},
            \{60., 512.095\}, \{59., 569.489\}, \{58., 616.315\}, \{57., 636.288\}, \{56., 622.792\},
             [55., 587.798], {54., 546.588}, {53., 507.242}, {52., 472.368}, {51., 442.167},
            \{50., 416.137\}, \{49., 393.637\}, \{48., 374.064\}, \{47., 356.918\},
            {46., 341.778}, {45., 328.301}, {44., 316.249}, {43., 305.42}, {42., 295.594},
            {41., 286.67}, {40., 278.508}, {39., 271.008}, {38., 264.109}, {37., 257.732},
            {36., 251.796}, {35., 246.301}, {34., 241.147}, {33., 236.355}, {32., 231.842},
            {31., 227.591}, {30., 223.6}, {29., 219.83}, {28., 216.281}, {27., 212.892},
            {26., 209.703}, {25., 206.655}, {24., 203.767}, {23., 201.}, {22., 198.373},
            \{21., 195.846\}, \{20., 193.439\}, \{19., 191.133\}, \{18., 188.927\},
            \{17., 186.822\}, \{16., 184.776\}, \{15., 182.831\}, \{14., 180.946\},
            \{13., 179.121\}, \{12., 177.376\}, \{11., 175.692\}, \{10., 174.067\},
            \{9., 172.483\}, \{8., 170.979\}, \{7., 169.495\}, \{6., 168.071\}, \{5., 166.708\},
            \{4., 165.364\}, \{3., 164.06\}, \{2., 162.817\}, \{1., 161.594\}, \{0., 160.411\}\}
In[372]:= imagePadding = {{80, 15}, {73, 7.5}};
          SS7 = ListLinePlot[{PeakMaskBaseline, PeakMaskMin, PeakMaskMax},
              AspectRatio \rightarrow 0.75, ImageSize \rightarrow 400, PlotRange \rightarrow {All, {0, 102.5}},
              AxesOrigin \rightarrow \{0, 0\}, Frame \rightarrow \{\{True, False\}, \{True, False\}\},
              FrameStyle → Directive[Black, 17], PlotRangePadding → None,
              PlotStyle \rightarrow {{Thickness[0.01], RGBColor[248 / 255, 196 / 255, 0]},
                  {Thickness[0.01], RGBColor[26/255, 94/255, 214/255]},
                  {Thickness[0.01], RGBColor[192/255, 0, 120/255]}},
              PlotLabel → Style[Row[{"Mask-wearing"}], 17, Black],
              ImagePadding → imagePadding,
              FrameLabel → {{"Relative reduction in\npeak number of diagnoses (%)", None},
                  {"Efficacy of mask-wearing (%)", None}}]
         Export[StringJoin[
                //Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine/
                   Resubmission//FinalFigures//SS7", ".pdf"], SS7];
         Export[StringJoin[
                //Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine/
                   Resubmission//FinalFigures//SS7", ".eps"], SS7];
          SS8 =
           ListLinePlot[{AttackRateMaskBaseline, AttackRateMaskMin, AttackRateMaskMax},
              AspectRatio \rightarrow 0.75, ImageSize \rightarrow 400, PlotRange \rightarrow {All, {-0.5, 20}},
              AxesOrigin \rightarrow {0, 0}, Filling \rightarrow {1 \rightarrow {2}}, Frame \rightarrow {{True, False}, {True, False}},
              FrameStyle → Directive[Black, 17], PlotRangePadding → None,
              PlotStyle \rightarrow \{\{Thickness[0.01], RGBColor[248 / 255, 196 / 255, 0]\},\
                  {Thickness[0.01], RGBColor[26 / 255, 94 / 255, 214 / 255]},
                  {Thickness[0.01], RGBColor[192/255, 0, 120/255]}},
              PlotLabel → Style[Row[{"Mask-wearing"}], 17, Black],
              ImagePadding → imagePadding, FrameLabel →
                \label{eq:continuous} $$ \{\{\text{"Attack rate (\%)", None}\}, \{\text{"Efficacy of mask-wearing (\%)", None}\}\}$ $$
          Export[StringJoin[
                "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
                   Resubmission//FinalFigures//SS8", ".pdf"], SS8];
         Export[StringJoin[
                "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
                   Resubmission//FinalFigures//SS8", ".eps"], SS8];
```

```
SS9 =
       ListLinePlot[{PeakTimingMaskBaseline, PeakTimingMaskMin, PeakTimingMaskMax},
         AspectRatio \rightarrow 0.75, ImageSize \rightarrow 400, PlotRange \rightarrow {All, {0, 800}},
         AxesOrigin \rightarrow \{0, 0\}, Frame \rightarrow \{\{True, False\}, \{True, False\}\},\
         FrameStyle → Directive[Black, 17], PlotMarkers → {"", "", '
           Graphics[{RGBColor[28 / 255, 162 / 255, 0], Thick, Circle[]}, ImageSize \rightarrow 10],
           Graphics [{RGBColor[185/255, 76/255, 225/255], Thick, Circle[]},
             ImageSize \rightarrow 10], ""},
         PlotStyle \rightarrow \{ \{ Thickness[0.01], RGBColor[248 / 255, 196 / 255, 0] \}, \}
            {Thickness[0.01], RGBColor[26/255, 94/255, 214/255]},
            {Thickness[0.01], RGBColor[192/255, 0, 120/255]}},
         FrameLabel → {{"Time until the peak\nof diagnoses (months)", None},
            {"Efficacy of mask-wearing (%)", None}},
         ImagePadding → imagePadding, PlotRangePadding → None,
         PlotLabel → Style[Row[{"Mask-wearing"}], 17, Black],
         PlotLegends → LineLegend[Table[Style[Row[{label}], Black, 13, "Text"],
             {label, {"0.82", "0.86", "0.9"}}], LegendLabel \rightarrow
            Style["Proportion of infectious\nwith mild disease", Black, 13, "Text"]],
         FrameTicks \rightarrow {{{\{0, "0"\}, \{365/2, "6"\}, \{365, "12"\}, \{365 \times 2, "24"\}, \}}
              \{365 \times 3 / 2, "18"\}\}, None\}, {Automatic, None}}]
      Export[StringJoin[
          "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
            Resubmission//FinalFigures//SS9", ".pdf"], SS9];
      Export[StringJoin[
          "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
            Resubmission//FinalFigures//SS9", ".eps"], SS9];
                                 Mask-wearing
          8
              100
          peak number of diagnoses
      Relative reduction in
               80
               60
Out[373]=
               40
               20
                0
                 0
                          20
                                   40
                                             60
                                                      80
                                                               100
```

Efficacy of mask-wearing (%)





In[382]:= ReductionFactor = Table[i, {i, 0, 1, 0.1}];

PeakGovBaseline =

 ${\tt PeakRange["ContactReductionGovernment", Join[ParametersSensitivityAnalyses["ContactReductionGovernment"]"] and the property of the proper$ ${\tt RelativeInfectivityBaseline, ProportionMildSymptomsBaseline,}$ RecoveryRateMildSymptomsBaseline, DiagnosisRateBaseline, BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline, RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline, RateAwarenessFadingSevereSymptomsBaseline, AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline, StartTimeBaseline], $\{r_4 \rightarrow factor\}$]

PeakGovMin =

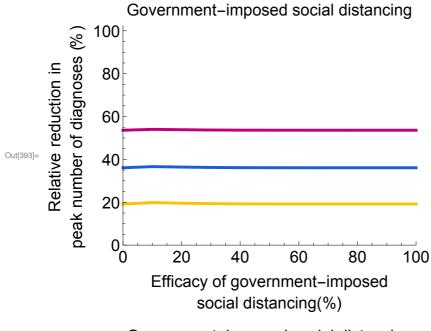
PeakRange["ContactReductionGovernment", Join[ParametersSensitivityAnalyses[RelativeInfectivityBaseline, ProportionMildSymptomsMin, RecoveryRateMildSymptomsBaseline, DiagnosisRateBaseline, BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline, RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,

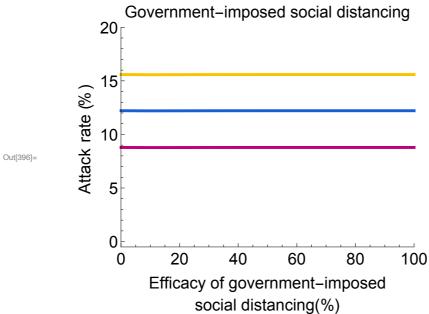
```
RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_4 \rightarrow factor\}]
PeakGovMax =
 PeakRange["ContactReductionGovernment", Join[ParametersSensitivityAnalyses[
    RelativeInfectivityBaseline, ProportionMildSymptomsMax,
    RecoveryRateMildSymptomsBaseline, DiagnosisRateBaseline,
    BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline,
    RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_4 \rightarrow factor\}]]
AttackRateGovBaseline = AttackRateRange[
  "ContactReductionGovernment", Join[ParametersSensitivityAnalyses[
    RelativeInfectivityBaseline, ProportionMildSymptomsBaseline,
    RecoveryRateMildSymptomsBaseline, DiagnosisRateBaseline,
    BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline,
    RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_4 \rightarrow factor\}]]
AttackRateGovMin = AttackRateRange[
  "ContactReductionGovernment", Join[ParametersSensitivityAnalyses[
    RelativeInfectivityBaseline, ProportionMildSymptomsMin,
    RecoveryRateMildSymptomsBaseline, DiagnosisRateBaseline,
    BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline,
    RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_4 \rightarrow factor\}]]
AttackRateGovMax = AttackRateRange[
  "ContactReductionGovernment", Join[ParametersSensitivityAnalyses[
    RelativeInfectivityBaseline, ProportionMildSymptomsMax,
    RecoveryRateMildSymptomsBaseline, DiagnosisRateBaseline,
    BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline,
    RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_4 \rightarrow factor\}]]
PeakTimingGovBaseline = PeakTimingRange[
  "ContactReductionGovernment", Join[ParametersSensitivityAnalyses[
    {\tt RelativeInfectivityBaseline, ProportionMildSymptomsBaseline,}
    RecoveryRateMildSymptomsBaseline, DiagnosisRateBaseline,
    BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline,
    {\tt RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,}
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_4 \rightarrow factor\}]]
PeakTimingGovMin = PeakTimingRange[
  "ContactReductionGovernment", Join[ParametersSensitivityAnalyses[
    RelativeInfectivityBaseline, ProportionMildSymptomsMin,
    RecoveryRateMildSymptomsBaseline, DiagnosisRateBaseline,
    BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline,
    {\tt RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,}
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
```

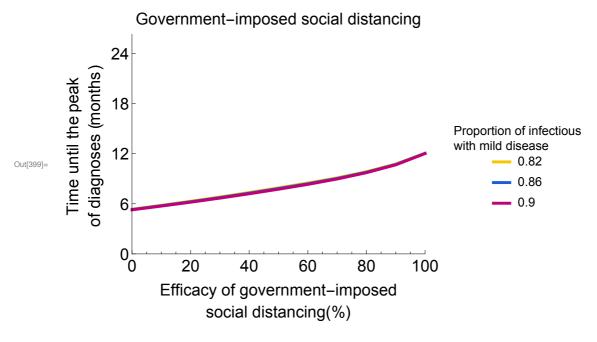
StartTimeBaseline], $\{r_4 \rightarrow factor\}$]

```
PeakTimingGovMax = PeakTimingRange[
         "ContactReductionGovernment", Join[ParametersSensitivityAnalyses[
           RelativeInfectivityBaseline, ProportionMildSymptomsMax,
           RecoveryRateMildSymptomsBaseline, DiagnosisRateBaseline,
           BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline,
           RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
           RateAwarenessFadingSevereSymptomsBaseline,
           AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
           StartTimeBaseline], \{r_4 \rightarrow factor\}]
Out[383]= \{\{100., 19.1862\}, \{90., 19.1867\}, \{80., 19.1876\},
        \{70., 19.1898\}, \{60., 19.1954\}, \{50., 19.2108\}, \{40., 19.2514\},
        \{30., 19.3545\}, \{20., 19.5743\}, \{10., 19.8368\}, \{0., 19.1837\}\}
Out[384] = \{\{100., 36.0945\}, \{90., 36.0949\}, \{80., 36.0956\}, \}
        \{70., 36.0973\}, \{60., 36.1018\}, \{50., 36.1143\}, \{40., 36.1479\},
        \{30., 36.2332\}, \{20., 36.4146\}, \{10., 36.6292\}, \{0., 36.0926\}\}
Out[385]= \{\{100., 53.6083\}, \{90., 53.6085\}, \{80., 53.609\}, \}
        \{70., 53.6102\}, \{60., 53.6135\}, \{50., 53.6227\}, \{40., 53.648\},
        \{30., 53.7123\}, \{20., 53.8488\}, \{10., 54.0088\}, \{0., 53.6069\}\}
Out[386]= \{\{100., 15.5894\}, \{90., 15.5894\}, \{80., 15.5894\},
        \{70., 15.5893\}, \{60., 15.5892\}, \{50., 15.5888\}, \{40., 15.5878\},
        \{30., 15.5853\}, \{20., 15.58\}, \{10., 15.5735\}, \{0., 15.5895\}\}
Out[387]= \{\{100., 12.2128\}, \{90., 12.2128\}, \{80., 12.2128\}, 
        \{70., 12.2127\}, \{60., 12.2126\}, \{50., 12.2124\}, \{40., 12.2116\},
        \{30., 12.2096\}, \{20., 12.2054\}, \{10., 12.2004\}, \{0., 12.2129\}\}
Out[388]= \{\{100., 8.78395\}, \{90., 8.78394\}, \{80., 8.78393\},
        {70., 8.78391}, {60., 8.78383}, {50., 8.78363}, {40., 8.78308},
        \{30., 8.78166\}, \{20., 8.77864\}, \{10., 8.77505\}, \{0., 8.78398\}\}
Out[389]= \{\{100., 366.865\}, \{90., 327.359\}, \{80., 299.424\},
        \{70., 277.084\}, \{60., 258.253\}, \{50., 240.867\}, \{40., 223.761\},
        {30., 207.357}, {20., 191.835}, {10., 177.095}, {0., 162.797}}
Out[390]= \{\{100., 366.043\}, \{90., 325.694\}, \{80., 297.459\},
        \{70., 274.778\}, \{60., 255.566\}, \{50., 238.099\}, \{40., 221.234\},
        \{30., 205.151\}, \{20., 189.97\}, \{10., 175.531\}, \{0., 161.554\}\}
Out[391]= \{\{100., 365.421\}, \{90., 324.251\}, \{80., 295.734\},
        \{70., 272.712\}, \{60., 253.12\}, \{50., 235.532\}, \{40., 218.888\},
        \{30., 203.105\}, \{20., 188.225\}, \{10., 174.087\}, \{0., 160.411\}\}
ln[392] = imagePadding = { {80, 15}, {73, 7.5} };
      SS10 = ListLinePlot[{PeakGovBaseline, PeakGovMin, PeakGovMax},
          \textbf{AspectRatio} \rightarrow \textbf{0.75}, \; \textbf{ImageSize} \rightarrow \textbf{400}, \; \textbf{PlotRange} \rightarrow \{\textbf{All}, \; \{\textbf{0, 102.5}\}\}, 
         AxesOrigin \rightarrow \{0, 0\}, Frame \rightarrow \{\{True, False\}\}, \{True, False\}\},
         FrameStyle → Directive[Black, 17], PlotRangePadding → None,
         PlotStyle \rightarrow \{\{Thickness[0.01], RGBColor[248 / 255, 196 / 255, 0]\},\
            {Thickness[0.01], RGBColor[26 / 255, 94 / 255, 214 / 255]},
            {Thickness[0.01], RGBColor[192/255, 0, 120/255]}},
         PlotLabel → Style[Row[{"Government-imposed social distancing"}], 17, Black],
         ImagePadding → imagePadding,
         FrameLabel \rightarrow {{"Relative reduction in\npeak number of diagnoses (%)", None},
            {"Efficacy of government-imposed\nsocial distancing(%)", None}}]
      Export[StringJoin[
          "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
             Resubmission//FinalFigures//SS10", ".pdf"], SS10];
```

```
Export[StringJoin[
   "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
      Resubmission//FinalFigures//SS10", ".eps"], SS10];
SS11 = ListLinePlot[{AttackRateGovBaseline, AttackRateGovMin, AttackRateGovMax},
  AspectRatio \rightarrow 0.75, ImageSize \rightarrow 400, PlotRange \rightarrow {All, \{-0.5, 20\}\},
  AxesOrigin \rightarrow {0, 0}, Filling \rightarrow {1 \rightarrow {2}}, Frame \rightarrow {{True, False}, {True, False}},
  FrameStyle → Directive[Black, 17], PlotRangePadding → None,
  PlotStyle \rightarrow \{\{Thickness[0.01], RGBColor[248 / 255, 196 / 255, 0]\},\
     {Thickness[0.01], RGBColor[26/255, 94/255, 214/255]},
     {Thickness[0.01], RGBColor[192/255, 0, 120/255]}},
  PlotLabel → Style[Row[{"Government-imposed social distancing"}], 17, Black],
  ImagePadding → imagePadding, FrameLabel → {{"Attack rate (%)", None},
    {"Efficacy of government-imposed\nsocial distancing(%)", None}}]
Export[StringJoin[
   "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
      Resubmission//FinalFigures//SS11", ".pdf"], SS11];
Export [StringJoin [
   "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
      Resubmission//FinalFigures//SS11", ".eps"], SS11];
SS12 = ListLinePlot[{PeakTimingGovBaseline, PeakTimingGovMin, PeakTimingGovMax},
  AspectRatio \rightarrow 0.75, ImageSize \rightarrow 400, PlotRange \rightarrow {All, {0, 800}},
  AxesOrigin \rightarrow \{0, 0\}, Frame \rightarrow \{\{True, False\}\}, \{True, False\}\},
  FrameStyle → Directive[Black, 17], PlotMarkers → {"", "", "",
    Graphics[\{RGBColor[28/255, 162/255, 0], Thick, Circle[]\}, ImageSize \rightarrow 10],
    Graphics[{RGBColor[185 / 255, 76 / 255, 225 / 255], Thick, Circle[]},
      ImageSize \rightarrow 10], ""},
  PlotStyle \rightarrow \{\{Thickness[0.01], RGBColor[248 / 255, 196 / 255, 0]\},\
     {Thickness[0.01], RGBColor[26/255, 94/255, 214/255]},
     {Thickness[0.01], RGBColor[192/255, 0, 120/255]}},
  FrameLabel → {{"Time until the peak\nof diagnoses (months)", None},
    {"Efficacy of government-imposed\nsocial distancing(%)", None}},
  ImagePadding → imagePadding, PlotRangePadding → None,
   PlotLabel \rightarrow Style[Row[{"Government-imposed social distancing"}], 17, Black], 
  PlotLegends → LineLegend[Table[Style[Row[{label}], Black, 13, "Text"],
      {label, {"0.82", "0.86", "0.9"}}], LegendLabel \rightarrow
      Style["Proportion of infectious\nwith mild disease", Black, 13, "Text"]],
  FrameTicks \rightarrow {{{\{0, "0"}\}, {365 / 2, "6"}, {365, "12"}, {365 × 2, "24"},
       \{365 \times 3 / 2, "18"\}\}, None\}, {Automatic, None}\}]
Export[StringJoin[
   "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
      Resubmission//FinalFigures//SS12", ".pdf"], SS12];
Export[StringJoin[
   "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
      Resubmission//FinalFigures//SS12", ".eps"], SS12];
```







In[422]:= ReductionFactor = Table[i, {i, 0, 1, 0.01}];

PeakMaskBaseline = PeakRange["Mask",

Join [ParametersSensitivityAnalyses [RelativeInfectivityBaseline, ProportionMildSymptomsBaseline, RecoveryRateMildSymptomsBaseline, DiagnosisRateBaseline, BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline, RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline, RateAwarenessFadingSevereSymptomsBaseline, AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline, StartTimeBaseline], $\{r_1 \rightarrow factor\}$]

PeakMaskMin = PeakRange["Mask",

Join [ParametersSensitivityAnalyses [RelativeInfectivityBaseline, ProportionMildSymptomsBaseline, RecoveryRateMildSymptomsMin, DiagnosisRateBaseline, BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline, RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline, RateAwarenessFadingSevereSymptomsBaseline, AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline, StartTimeBaseline], $\{r_1 \rightarrow factor\}$]

PeakMaskMax = PeakRange["Mask",

Join [ParametersSensitivityAnalyses [RelativeInfectivityBaseline, ProportionMildSymptomsBaseline, RecoveryRateMildSymptomsMax, DiagnosisRateBaseline, BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline, RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline, RateAwarenessFadingSevereSymptomsBaseline, AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline, StartTimeBaseline], $\{r_1 \rightarrow factor\}$]]

AttackRateMaskBaseline =

AttackRateRange["Mask", Join[ParametersSensitivityAnalyses[RelativeInfectivityBaseline, ProportionMildSymptomsBaseline, RecoveryRateMildSymptomsBaseline, DiagnosisRateBaseline, BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline, RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline, RateAwarenessFadingSevereSymptomsBaseline,

```
AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_1 \rightarrow factor\}]
AttackRateMaskMin = AttackRateRange["Mask",
  Join [ParametersSensitivityAnalyses [RelativeInfectivityBaseline,
    ProportionMildSymptomsBaseline, RecoveryRateMildSymptomsMin,
    DiagnosisRateBaseline, BasicReproductionNumberBaseline,
    RelativeSusceptibilityAwarenessBaseline,
    RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_1 \rightarrow factor\}]]
AttackRateMaskMax = AttackRateRange["Mask",
  Join [ParametersSensitivityAnalyses [RelativeInfectivityBaseline,
    ProportionMildSymptomsBaseline, RecoveryRateMildSymptomsMax,
    DiagnosisRateBaseline, BasicReproductionNumberBaseline,
    RelativeSusceptibilityAwarenessBaseline,
    RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_1 \rightarrow factor\}]]
PeakTimingMaskBaseline =
 PeakTimingRange["Mask", Join[ParametersSensitivityAnalyses[
    RelativeInfectivityBaseline, ProportionMildSymptomsBaseline,
    RecoveryRateMildSymptomsBaseline, DiagnosisRateBaseline,
    BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline,
    RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_1 \rightarrow factor\}]]
PeakTimingMaskMin = PeakTimingRange["Mask",
  Join [ParametersSensitivityAnalyses [RelativeInfectivityBaseline,
    ProportionMildSymptomsBaseline, RecoveryRateMildSymptomsMin,
    DiagnosisRateBaseline, BasicReproductionNumberBaseline,
    RelativeSusceptibilityAwarenessBaseline,
    {\tt RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,}
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_1 \rightarrow factor\}]]
PeakTimingMaskMax = PeakTimingRange["Mask",
  Join[ParametersSensitivityAnalyses[RelativeInfectivityBaseline,
    {\tt Proportion Mild Symptoms Baseline, Recovery Rate Mild Symptoms Max,}
    DiagnosisRateBaseline, BasicReproductionNumberBaseline,
    RelativeSusceptibilityAwarenessBaseline,
    {\tt RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,}
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_1 \rightarrow factor\}]]
```

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\text{Out}_{[423]} = \{\{100., 99.9897\}, \{99., 99.9895\}, \{98., 99.9894\}, \{97., 99.9892\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.9891\}, \{96., 99.
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                 \{4., 24.4289\}, \{3., 23.091\}, \{2., 21.771\}, \{1., 20.4686\}, \{0., 19.1837\}\}
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                  \{9., 37.0851\}, \{8., 35.7604\}, \{7., 34.4506\}, \{6., 33.1557\}, \{5., 31.8757\},
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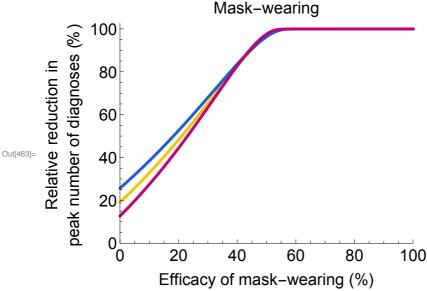
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\mathsf{Out}[426] = \ \left\{ \left\{100., \, 0.0139929\right\}, \, \left\{99., \, 0.0143083\right\}, \, \left\{98., \, 0.0146382\right\}, \, \left\{97., \, 0.0149835\right\}, \, \left\{99., \, 0.0146382\right\}, \, \left\{99., \, 0.0149835\right\}, \, \left\{99., \,
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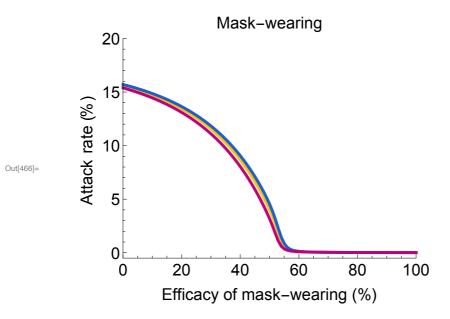
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              {68., 0.0431961}, {67., 0.0463043}, {66., 0.0499053}, {65., 0.054128},
              {64., 0.0591511}, {63., 0.0652288}, {62., 0.0727354}, {61., 0.0822455},
              {60., 0.0946849}, {59., 0.11164}, {58., 0.13604}, {57., 0.173807},
              {56., 0.238139}, {55., 0.360424}, {54., 0.610509}, {53., 1.08804},
              {52., 1.78415}, {51., 2.52048}, {50., 3.18924}, {49., 3.79752}, {48., 4.36692},
              {47., 4.90729}, {46., 5.42212}, {45., 5.913}, {44., 6.3811}, {43., 6.82755},
              {42., 7.25344}, {41., 7.65986}, {40., 8.04781}, {39., 8.41828}, {38., 8.77218},
              {37., 9.11038}, {36., 9.43371}, {35., 9.74294}, {34., 10.0388}, {33., 10.322},
              \{32., 10.5933\}, \{31., 10.8531\}, \{30., 11.1022\}, \{29., 11.341\}, \{28., 11.5699\},
              {27., 11.7896}, {26., 12.0003}, {25., 12.2026}, {24., 12.3968}, {23., 12.5834},
              \{22., 12.7626\}, \{21., 12.9349\}, \{20., 13.1005\}, \{19., 13.2598\}, \{18., 13.413\},
              \{17., 13.5604\}, \{16., 13.7023\}, \{15., 13.8389\}, \{14., 13.9704\},
              \{13., 14.0972\}, \{12., 14.2193\}, \{11., 14.3369\}, \{10., 14.4504\},
              \{9., 14.5598\}, \{8., 14.6653\}, \{7., 14.7671\}, \{6., 14.8653\}, \{5., 14.9601\},
              \{4., 15.0517\}, \{3., 15.1401\}, \{2., 15.2254\}, \{1., 15.3079\}, \{0., 15.3875\}\}
```

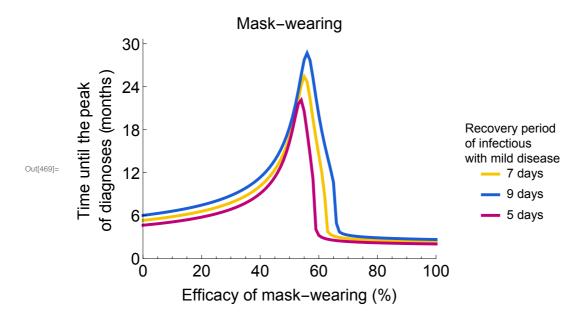
```
Out[429] = \{\{100., 71.893\}, \{99., 72.0936\}, \{98., 72.3142\}, \{97., 72.5348\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, \{96., 72.7553\}, 
                      95., 72.996}, {94., 73.2366}, {93., 73.4773}, {92., 73.738}, {91., 73.9987},
                      90., 74.2794, \{89., 74.5802\}, \{88., 74.8811\}, \{87., 75.1819\}, \{86., 75.5228\},
                      85., 75.8637, \{84., 76.2247\}, \{83., 76.6057\}, \{82., 77.0068\}, \{81., 77.4479\},
                      80., 77.8891, \{79., 78.3905, \{78., 78.8918\}, \{77., 79.4533\}, \{76., 80.075\},
                    \{75., 80.7167\}, \{74., 81.4587\}, \{73., 82.2609\}, \{72., 83.1432\}, \{71., 84.166\},
                    {70., 85.3291}, {69., 86.7128}, {68., 88.3572}, {67., 90.4027}, {66., 93.0699},
                    {65., 96.7798}, {64., 102.676}, {63., 115.129}, {62., 266.155}, {61., 367.647},
                      [60., 439.801], {59., 513.178}, {58., 593.814}, {57., 679.344}, {56., 751.137},
                      55., 773.376}, {54., 737.46}, {53., 675.855}, {52., 614.289}, {51., 560.866},
                    \{50., 516.166\}, \{49., 478.886\}, \{48., 447.542\}, \{47., 420.93\}, \{46., 398.089\},
                    \{45., 378.276\}, \{44., 360.909\}, \{43., 345.588\}, \{42., 331.931\}, \{41., 319.698\},
                    {40., 308.669}, {39., 298.682}, {38., 289.557}, {37., 281.215}, {36., 273.554},
                    \{35., 266.475\}, \{34., 259.938\}, \{33., 253.842\}, \{32., 248.166\},
                    \{31., 242.872\}, \{30., 237.919\}, \{29., 233.266\}, \{28., 228.875\},
                    \{27., 224.743\}, \{26., 220.853\}, \{25., 217.163\}, \{24., 213.654\},
                    \{23., 210.325\}, \{22., 207.176\}, \{21., 204.168\}, \{20., 201.3\}, \{19., 198.573\},
                    \{18., 195.946\}, \{17., 193.439\}, \{16., 191.053\}, \{15., 188.747\},
                    {14., 186.541}, {13., 184.415}, {12., 182.37}, {11., 180.404}, {10., 178.519},
                    \{9., 176.694\}, \{8., 174.93\}, \{7., 173.245\}, \{6., 171.601\}, \{5., 170.016\},
                    \{4., 168.472\}, \{3., 166.988\}, \{2., 165.544\}, \{1., 164.141\}, \{0., 162.797\}\}
\mathsf{Out}[430] = \left\{ \left\{100., \, 81.5389\right\}, \, \left\{99., \, 81.7996\right\}, \, \left\{98., \, 82.0403\right\}, \, \left\{97., \, 82.301\right\}, \, \left\{96., \, 82.5817\right\}, \, \left\{9
                      95., 82.8424}, {94., 83.1432}, {93., 83.444}, {92., 83.7448}, {91., 84.0657},
                      [90., 84.4066], {89., 84.7475}, {88., 85.1286}, {87., 85.5096}, {86., 85.9107},
                      85., 86.3318}, {84., 86.773}, {83., 87.2543}, {82., 87.7556}, {81., 88.2971},
                      80., 88.8786}, {79., 89.5204}, {78., 90.2022}, {77., 90.9442}, {76., 91.7664},
                    {75., 92.6889}, {74., 93.7116}, {73., 94.8948}, {72., 96.2986}, {71., 97.963},
                    {70., 100.049}, {69., 102.796}, {68., 106.807}, {67., 113.886}, {66., 150.725},
                      65., 323.87}, {64., 380.08}, {63., 430.837}, {62., 483.719}, {61., 542.276},
                      60., 609.135}, {59., 685.681}, {58., 768.764}, {57., 842.241}, {56., 873.084},
                    {55., 844.427}, {54., 781.639}, {53., 713.857}, {52., 652.993}, {51., 601.214},
                    {50., 557.677}, {49., 520.919}, {48., 489.635}, {47., 462.722}, {46., 439.34},
                    {45., 418.865}, {44., 400.776}, {43., 384.673}, {42., 370.234},
                    {41., 357.239}, {40., 345.427}, {39., 334.699}, {38., 324.852},
                    {37., 315.808}, {36., 307.486}, {35., 299.765}, {34., 292.586},
                    {33., 285.908}, {32., 279.691}, {31., 273.855}, {30., 268.361},
                    {29., 263.227}, {28., 258.354}, {27., 253.781}, {26., 249.43}, {25., 245.339},
                    \{24., 241.428\}, \{23., 237.718\}, \{22., 234.189\}, \{21., 230.82\}, \{20., 227.611\},
                    \{19., 224.543\}, \{18., 221.615\}, \{17., 218.807\}, \{16., 216.1\}, \{15., 213.513\},
                    \{14., 211.027\}, \{13., 208.64\}, \{12., 206.354\}, \{11., 204.128\}, \{10., 202.002\},
                    \{9., 199.937\}, \{8., 197.951\}, \{7., 196.026\}, \{6., 194.181\}, \{5., 192.377\},
                    \{4., 190.652\}, \{3., 188.967\}, \{2., 187.323\}, \{1., 185.759\}, \{0., 184.215\}\}
```

```
Out[431] = \{\{100., 62.568\}, \{99., 62.7485\}, \{98., 62.929\}, \{97., 63.1094\}, \{96., 63.2899\}, \{98., 62.929\}, \{98., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99., 62.929\}, \{99
             95., 63.4905}, {94., 63.691}, {93., 63.8915}, {92., 64.1121}, {91., 64.3327},
             90., 64.5734}, {89., 64.814}, {88., 65.0547}, {87., 65.3154}, {86., 65.5761},
             85., 65.8568}, {84., 66.1576}, {83., 66.4584}, {82., 66.7793}, {81., 67.1202},
             [80., 67.4812], {79., 67.8622}, {78., 68.2633}, {77., 68.6844}, {76., 69.1457},
            {75., 69.6269}, {74., 70.1684}, {73., 70.75}, {72., 71.3716}, {71., 72.0535},
            {70., 72.8155}, {69., 73.6778}, {68., 74.6404}, {67., 75.7634}, {66., 77.0469},
            {65., 78.591}, {64., 80.4961}, {63., 82.8825}, {62., 86.1112}, {61., 90.8239},
             [60., 98.9657], {59., 124.695}, {58., 339.792}, {57., 443.27}, {56., 538.245},
             55., 625.519}, {54., 673.408}, {53., 657.064}, {52., 603.821}, {51., 546.307},
            {50., 496.052}, {49., 454.32}, {48., 419.867}, {47., 391.21}, {46., 367.066},
            {45., 346.49}, {44., 328.763}, {43., 313.301}, {42., 299.705}, {41., 287.652},
            {40., 276.883}, {39., 267.217}, {38., 258.454}, {37., 250.493}, {36., 243.213},
            {35., 236.555}, {34., 230.399}, {33., 224.703}, {32., 219.429}, {31., 214.536},
            \{30., 209.944\}, \{29., 205.652\}, \{28., 201.641\}, \{27., 197.851\}, \{26., 194.302\},
            \{25., 190.933\}, \{24., 187.744\}, \{23., 184.736\}, \{22., 181.888\},
            \{21., 179.161\}, \{20., 176.574\}, \{19., 174.128\}, \{18., 171.761\},
            \{17., 169.515\}, \{16., 167.369\}, \{15., 165.304\}, \{14., 163.339\},
            \{13., 161.453\}, \{12., 159.629\}, \{11., 157.884\}, \{10., 156.199\},
            {9., 154.575}, {8., 153.011}, {7., 151.507}, {6., 150.043}, {5., 148.639},
            \{4., 147.275\}, \{3., 145.972\}, \{2., 144.688\}, \{1., 143.465\}, \{0., 142.262\}\}
ln[462]:= imagePadding = {{80, 15}, {73, 7.5}};
          SS13 = ListLinePlot[{PeakMaskBaseline, PeakMaskMin, PeakMaskMax},
              AspectRatio \rightarrow 0.75, ImageSize \rightarrow 400, PlotRange \rightarrow {All, {0, 102.5}},
              AxesOrigin \rightarrow \{0, 0\}, Frame \rightarrow \{\{True, False\}, \{True, False\}\},
              FrameStyle → Directive[Black, 17], PlotRangePadding → None,
              PlotStyle \rightarrow {{Thickness[0.01], RGBColor[248 / 255, 196 / 255, 0]},
                  {Thickness[0.01], RGBColor[26/255, 94/255, 214/255]},
                  {Thickness[0.01], RGBColor[192/255, 0, 120/255]}},
              PlotLabel → Style[Row[{"Mask-wearing"}], 17, Black],
              ImagePadding → imagePadding,
              FrameLabel → {{"Relative reduction in\npeak number of diagnoses (%)", None},
                  {"Efficacy of mask-wearing (%)", None}}]
         Export[StringJoin[
                //Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine/
                   Resubmission//FinalFigures//SS13", ".pdf"], SS13];
         Export[StringJoin[
                //Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine/
                   Resubmission//FinalFigures//SS13", ".eps"], SS13];
          SS14 =
           ListLinePlot[{AttackRateMaskBaseline, AttackRateMaskMin, AttackRateMaskMax},
              AspectRatio \rightarrow 0.75, ImageSize \rightarrow 400, PlotRange \rightarrow {All, {-0.5, 20}},
              AxesOrigin \rightarrow {0, 0}, Filling \rightarrow {1 \rightarrow {2}}, Frame \rightarrow {{True, False}, {True, False}},
              FrameStyle → Directive[Black, 17], PlotRangePadding → None,
              PlotStyle \rightarrow \{\{Thickness[0.01], RGBColor[248 / 255, 196 / 255, 0]\},\
                  {Thickness[0.01], RGBColor[26 / 255, 94 / 255, 214 / 255]},
                  {Thickness[0.01], RGBColor[192/255, 0, 120/255]}},
              PlotLabel → Style[Row[{"Mask-wearing"}], 17, Black],
              ImagePadding → imagePadding, FrameLabel →
               \label{eq:continuous} $$ \{\{\text{"Attack rate (\%)", None}\}, \{\text{"Efficacy of mask-wearing (\%)", None}\}\}$ $$
          Export[StringJoin[
                "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
                   Resubmission//FinalFigures//SS14", ".pdf"], SS14];
         Export[StringJoin[
                "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
                   Resubmission//FinalFigures//SS14", ".eps"], SS14];
```

```
SS15 =
 ListLinePlot[{PeakTimingMaskBaseline, PeakTimingMaskMin, PeakTimingMaskMax},
  AspectRatio \rightarrow 0.75, ImageSize \rightarrow 400, PlotRange \rightarrow {All, {0, 365 \times 5 / 2 + 20}},
  AxesOrigin \rightarrow \{0, 0\}, Frame \rightarrow \{\{True, False\}, \{True, False\}\},
  FrameStyle → Directive[Black, 17], PlotMarkers → {"", "", '
    Graphics[{RGBColor[28 / 255, 162 / 255, 0], Thick, Circle[]}, ImageSize \rightarrow 10],
    Graphics [{RGBColor[185/255, 76/255, 225/255], Thick, Circle[]},
     ImageSize \rightarrow 10], ""},
  PlotStyle \rightarrow \{ \{ Thickness[0.01], RGBColor[248 / 255, 196 / 255, 0] \}, \}
    {Thickness[0.01], RGBColor[26/255, 94/255, 214/255]},
    {Thickness[0.01], RGBColor[192/255, 0, 120/255]}},
  FrameLabel → {{"Time until the peak\nof diagnoses (months)", None},
    {"Efficacy of mask-wearing (%)", None}},
  ImagePadding → imagePadding, PlotRangePadding → None,
  PlotLabel → Style[Row[{"Mask-wearing"}], 17, Black],
  PlotLegends → LineLegend[Table[Style[Row[{label}], Black, 13, "Text"],
      {label, {"7 days", "9 days", "5 days"}}], LegendLabel \rightarrow Style[
       "Recovery period\nof infectious\nwith mild disease", Black, 13, "Text"]],
  Export[StringJoin[
   "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
     Resubmission//FinalFigures//SS15", ".pdf"], SS15];
Export[StringJoin[
   "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
     Resubmission//FinalFigures//SS15", ".eps"], SS15];
                        Mask-wearing
```







In[492]:= ReductionFactor = Table[i, {i, 0, 1, 0.05}];

PeakGovBaseline =

 ${\tt PeakRange["ContactReductionGovernment", Join[ParametersSensitivityAnalyses["ContactReductionGovernment"]"] and the property of the proper$ RelativeInfectivityBaseline, ProportionMildSymptomsBaseline, RecoveryRateMildSymptomsBaseline, DiagnosisRateBaseline, BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline, RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline, RateAwarenessFadingSevereSymptomsBaseline, AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline, StartTimeBaseline], $\{r_4 \rightarrow factor\}$]

PeakGovMin =

PeakRange["ContactReductionGovernment", Join[ParametersSensitivityAnalyses[${\tt RelativeInfectivityBaseline, ProportionMildSymptomsBaseline,}$ RecoveryRateMildSymptomsMin, DiagnosisRateBaseline, BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline, RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,

```
RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_4 \rightarrow factor\}]
PeakGovMax =
 PeakRange["ContactReductionGovernment", Join[ParametersSensitivityAnalyses[
    RelativeInfectivityBaseline, ProportionMildSymptomsBaseline,
    RecoveryRateMildSymptomsMax, DiagnosisRateBaseline,
    BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline,
    RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_4 \rightarrow factor\}]]
AttackRateGovBaseline = AttackRateRange[
  "ContactReductionGovernment", Join[ParametersSensitivityAnalyses[
    RelativeInfectivityBaseline, ProportionMildSymptomsBaseline,
    RecoveryRateMildSymptomsBaseline, DiagnosisRateBaseline,
    BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline,
    RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_4 \rightarrow factor\}]]
AttackRateGovMin = AttackRateRange[
  "ContactReductionGovernment", Join[ParametersSensitivityAnalyses[
    RelativeInfectivityBaseline, ProportionMildSymptomsBaseline,
    RecoveryRateMildSymptomsMin, DiagnosisRateBaseline,
    BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline,
    RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_4 \rightarrow factor\}]]
AttackRateGovMax = AttackRateRange[
  "ContactReductionGovernment", Join[ParametersSensitivityAnalyses[
    {\tt RelativeInfectivityBaseline, ProportionMildSymptomsBaseline,}
    RecoveryRateMildSymptomsMax, DiagnosisRateBaseline,
    BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline,
    RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_4 \rightarrow factor\}]]
PeakTimingGovBaseline = PeakTimingRange[
  "ContactReductionGovernment", Join[ParametersSensitivityAnalyses[
    {\tt RelativeInfectivityBaseline, ProportionMildSymptomsBaseline,}
    RecoveryRateMildSymptomsBaseline, DiagnosisRateBaseline,
    BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline,
    {\tt RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,}
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_4 \rightarrow factor\}]]
PeakTimingGovMin = PeakTimingRange[
  "ContactReductionGovernment", Join[ParametersSensitivityAnalyses[
    RelativeInfectivityBaseline, ProportionMildSymptomsBaseline,
    RecoveryRateMildSymptomsMin, DiagnosisRateBaseline,
    BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline,
    {\tt RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,}
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
```

StartTimeBaseline], $\{r_4 \rightarrow factor\}$]

PeakTimingGovMax = PeakTimingRange[

```
RelativeInfectivityBaseline, ProportionMildSymptomsBaseline,
                                                               RecoveryRateMildSymptomsMax, DiagnosisRateBaseline,
                                                               BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline,
                                                               RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
                                                               RateAwarenessFadingSevereSymptomsBaseline,
                                                               AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
                                                               StartTimeBaseline], \{r_4 \rightarrow factor\}]
\mathsf{Out}[493] = \left\{ \left\{ 100., 19.1862 \right\}, \left\{ 95., 19.1864 \right\}, \left\{ 90., 19.1867 \right\}, \left\{ 85., 19.1871 \right\}, \left\{ 96., 19.1867 \right\}, \left\{ 96.
                                             \{80., 19.1876\}, \{75., 19.1885\}, \{70., 19.1898\}, \{65., 19.1919\},
                                            \{60., 19.1954\}, \{55., 19.2013\}, \{50., 19.2108\}, \{45., 19.2263\},
                                            \{40., 19.2514\}, \{35., 19.2918\}, \{30., 19.3545\}, \{25., 19.4475\},
                                           \{20., 19.5743\}, \{15., 19.7226\}, \{10., 19.8368\}, \{5., 19.7664\}, \{0., 19.1837\}\}
Out[494] = \{\{100., 25.6984\}, \{95., 25.6985\}, \{90., 25.6986\}, \{85., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\}, \{95., 25.6988\},
                                               \{80., 25.6991\}, \{75., 25.6994\}, \{70., 25.7\}, \{65., 25.701\}, \{60., 25.7024\},
                                                55., 25.7047}, {50., 25.7081}, {45., 25.7133}, {40., 25.7209},
                                             \{35., 25.7319\}, \{30., 25.7474\}, \{25., 25.7679\}, \{20., 25.7931\},
                                            \{15., 25.8191\}, \{10., 25.8343\}, \{5., 25.8123\}, \{0., 25.6972\}\}
Out[495] = \{\{100., 12.7126\}, \{95., 12.7131\}, \{90., 12.7138\}, \{85., 12.7146\}, \{95., 12.7146\}, \{95., 12.7131\}, \{95., 12.7138\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\}, \{95., 12.7146\},
                                             \{80., 12.7159\}, \{75., 12.7178\}, \{70., 12.7208\}, \{65., 12.7259\},
                                             \{60., 12.7348\}, \{55., 12.7505\}, \{50., 12.779\}, \{45., 12.8315\},
                                             {40., 12.929}, {35., 13.1071}, {30., 13.4213}, {25., 13.9444},
                                           \{20., 14.7345\}, \{15., 15.7258\}, \{10., 16.4882\}, \{5., 15.9513\}, \{0., 12.7065\}\}
 \text{Out} [496] = \left\{ \left\{ 100., \, 15.5894 \right\}, \, \left\{ 95., \, 15.5894 \right\}, \, \left\{ 90., \, 15.5894 \right\}, \, \left\{ 85., \, 15.5894 \right\}, \right\} 
                                             \{80., 15.5894\}, \{75., 15.5894\}, \{70., 15.5893\}, \{65., 15.5893\},
                                            \{60., 15.5892\}, \{55., 15.589\}, \{50., 15.5888\}, \{45., 15.5884\},
                                            \{40., 15.5878\}, \{35., 15.5869\}, \{30., 15.5853\}, \{25., 15.5831\},
                                           \{20., 15.58\}, \{15., 15.5764\}, \{10., 15.5735\}, \{5., 15.5752\}, \{0., 15.5895\}\}
Out[497] = \{\{100., 15.7032\}, \{95., 15.7032\}, \{90., 15.7032\}, \{85., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\}, \{90., 15.7032\},
                                                80., 15.7032, \{75., 15.7031\}, \{70., 15.7031\}, \{65., 15.7031\},
                                             \{60., 15.7031\}, \{55., 15.703\}, \{50., 15.7029\}, \{45., 15.7028\},
                                             \{40., 15.7026\}, \{35., 15.7023\}, \{30., 15.702\}, \{25., 15.7014\},
                                            \{20., 15.7008\}, \{15., 15.7002\}, \{10., 15.6998\}, \{5., 15.7003\}, \{0., 15.7032\}\}
Out[498] = \{\{100., 15.3874\}, \{95., 15.3874\}, \{90., 15.3874\}, \{85., 15.3873\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\}, \{90., 15.3874\},
                                            \{80., 15.3873\}, \{75., 15.3873\}, \{70., 15.3872\}, \{65., 15.3871\},
                                             \{60., 15.3869\}, \{55., 15.3865\}, \{50., 15.3858\}, \{45., 15.3845\},
                                             {40., 15.3822}, {35., 15.3779}, {30., 15.3703}, {25., 15.3575},
                                           \{20., 15.3379\}, \{15., 15.3124\}, \{10., 15.2911\}, \{5., 15.3016\}, \{0., 15.3875\}\}
\texttt{Out[499]=} \; \{ \{ \texttt{100.,} \; \texttt{366.865} \} \; , \; \{ \texttt{95.,} \; \texttt{344.866} \} \; , \; \{ \texttt{90.,} \; \texttt{327.359} \} \; , \; \{ \texttt{85.,} \; \texttt{312.499} \} \; , \; \{ \texttt{85.,} \; \texttt{812.499} \} \; , \; \{ \texttt{85.,} \;
                                            \{80., 299.424\}, \{75., 287.712\}, \{70., 277.084\}, \{65., 267.358\},
                                            \{60., 258.253\}, \{55., 249.51\}, \{50., 240.867\}, \{45., 232.264\},
                                            \{40., 223.761\}, \{35., 215.458\}, \{30., 207.357\}, \{25., 199.496\},
                                           \{20., 191.835\}, \{15., 184.395\}, \{10., 177.095\}, \{5., 169.896\}, \{0., 162.797\}\}
Out[500]= \{\{100., 376.25\}, \{95., 359.044\}, \{90., 343.923\}, \{85., 330.407\},
                                             \{80., 318.134\}, \{75., 306.844\}, \{70., 296.396\}, \{65., 286.67\},
                                             \{60., 277.525\}, \{55., 268.842\}, \{50., 260.439\}, \{45., 252.157\},
                                             \{40., 243.995\}, \{35., 235.954\}, \{30., 228.052\}, \{25., 220.352\},
                                            \{20., 212.811\}, \{15., 205.452\}, \{10., 198.232\}, \{5., 191.173\}, \{0., 184.215\}\}
```

"ContactReductionGovernment", Join[ParametersSensitivityAnalyses[

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Out[501] = \{\{100., 366.163\}, \{95., 333.395\}, \{90., 313.\}, \{85., 296.837\}, \{80., 283.12\}, \{85., 296.837\}, \{80., 283.12\}, \{85., 296.837\}, \{80., 283.12\}, \{85., 296.837\}, \{80., 283.12\}, \{85., 296.837\}, \{80., 283.12\}, \{85., 296.837\}, \{80., 283.12\}, \{85., 296.837\}, \{80., 283.12\}, \{85., 296.837\}, \{80., 283.12\}, \{85., 296.837\}, \{80., 283.12\}, \{85., 296.837\}, \{80., 283.12\}, \{85., 296.837\}, \{80., 283.12\}, \{85., 296.837\}, \{80., 283.12\}, \{85., 296.837\}, \{80., 283.12\}, \{85., 296.837\}, \{80., 283.12\}, \{85., 296.837\}, \{80., 283.12\}, \{85., 296.837\}, \{80., 283.12\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{85., 296.837\}, \{8
             \{75., 271.108\}, \{70., 260.419\}, \{65., 250.753\}, \{60., 241.649\},
             \{55., 232.584\}, \{50., 223.36\}, \{45., 214.195\}, \{40., 205.251\},
             \{35., 196.608\}, \{30., 188.265\}, \{25., 180.224\}, \{20., 172.423\},
             \{15., 164.802\}, \{10., 157.262\}, \{5., 149.662\}, \{0., 142.262\}\}
 ln[502]:= imagePadding = { {80, 15}, {73, 7.5} };
          SS16 = ListLinePlot[{PeakGovBaseline, PeakGovMin, PeakGovMax},
              AspectRatio \rightarrow 0.75, ImageSize \rightarrow 400, PlotRange \rightarrow {All, {0, 102.5}},
              AxesOrigin \rightarrow \{0, 0\}, Frame \rightarrow \{\{True, False\}\}, \{True, False\}\},
              FrameStyle → Directive[Black, 17], PlotRangePadding → None,
              PlotStyle \rightarrow \{\{Thickness[0.01], RGBColor[248 / 255, 196 / 255, 0]\},\
                   {Thickness[0.01], RGBColor[26 / 255, 94 / 255, 214 / 255]},
                   {Thickness[0.01], RGBColor[192/255, 0, 120/255]}},
              PlotLabel → Style [Row[{"Government-imposed social distancing"}], 17, Black],
              ImagePadding → imagePadding,
              FrameLabel → {{"Relative reduction in\npeak number of diagnoses (%)", None},
                   {"Efficacy of government-imposed\nsocial distancing(%)", None}}]
          Export[StringJoin[
                 "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
                     Resubmission//FinalFigures//SS16", ".pdf"], SS16];
          Export[StringJoin[
                 "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
                     Resubmission//FinalFigures//SS16", ".eps"], SS16];
          SS17 = ListLinePlot[{AttackRateGovBaseline, AttackRateGovMin, AttackRateGovMax},
              AspectRatio \rightarrow 0.75, ImageSize \rightarrow 400, PlotRange \rightarrow {All, {-0.5, 20}},
              AxesOrigin \rightarrow {0, 0}, Filling \rightarrow {1 \rightarrow {2}}, Frame \rightarrow {{True, False}, {True, False}},
              FrameStyle → Directive[Black, 17], PlotRangePadding → None,
              PlotStyle \rightarrow \{\{Thickness[0.01], RGBColor[248 / 255, 196 / 255, 0]\},\
                   {Thickness[0.01], RGBColor[26/255, 94/255, 214/255]},
                   {Thickness[0.01], RGBColor[192/255, 0, 120/255]}},
              PlotLabel → Style[Row[{"Government-imposed social distancing"}], 17, Black],
               \label{eq:local_local_local_local} \textbf{ImagePadding} \rightarrow \textbf{imagePadding}, \ \textbf{FrameLabel} \rightarrow \ \{ \texttt{"Attack rate (\%)", None} \}, 
                   {"Efficacy of government-imposed\nsocial distancing(%)", None}}]
          Export[StringJoin[
                 "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
                    Resubmission//FinalFigures//SS17", ".pdf"], SS17];
          Export[StringJoin[
                 "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
                     Resubmission//FinalFigures//SS17", ".eps"], SS17];
          SS18 = ListLinePlot[{PeakTimingGovBaseline, PeakTimingGovMin, PeakTimingGovMax},
              AspectRatio \rightarrow 0.75, ImageSize \rightarrow 400, PlotRange \rightarrow {All, {0, 800}},
              AxesOrigin \rightarrow \{0, 0\}, Frame \rightarrow \{\{True, False\}\}, \{True, False\}\},
              FrameStyle → Directive[Black, 17], PlotMarkers → {"", "", "",
                  \texttt{Graphics}[\{\texttt{RGBColor}[28 \,/\, 255,\, 162 \,/\, 255,\, 0]\,,\, \texttt{Thick},\, \texttt{Circle}[]\}\,,\, \texttt{ImageSize} \rightarrow \texttt{10}]\,,
                  Graphics [ {RGBColor [185 / 255, 76 / 255, 225 / 255], Thick, Circle [ ] },
                     ImageSize \rightarrow 10], ""},
               PlotStyle \rightarrow \{\{Thickness[0.01], RGBColor[248 / 255, 196 / 255, 0]\}, 
                   {Thickness[0.01], RGBColor[26 / 255, 94 / 255, 214 / 255]},
                   {Thickness[0.01], RGBColor[192/255, 0, 120/255]}},
              FrameLabel → {{"Time until the peak\nof diagnoses (months)", None},
                   {"Efficacy of government-imposed\nsocial distancing(%)", None}},
              {\tt ImagePadding} \rightarrow {\tt imagePadding}, \ {\tt PlotRangePadding} \rightarrow {\tt None},
              PlotLabel → Style[Row[{"Government-imposed social distancing"}], 17, Black],
              PlotLegends → LineLegend[Table[Style[Row[{label}], Black, 13, "Text"],
                     {label, {"7 days", "9 days", "5 days"}}], LegendLabel \rightarrow Style[
```

```
"Recovery period\nof infectious\nwith mild disease", Black, 13, "Text"]],
\label{eq:frameTicks} \textbf{FrameTicks} \rightarrow \{\{\{\{0\,,\,\text{"0"}\}\,,\,\{365\,/\,2\,,\,\text{"6"}\}\,,\,\{365\,,\,\text{"12"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text{"24"}\}\,,\,\{365\,\times\,2\,,\,\text"24"}\,,\,\{365\,\times\,2\,,\,\text"24"\,,\,\text"24"}\,,\,\{365\,\times\,2\,,\,\text"24"\,,\,\text"24"\,,\,\text"24"\,,\,\text"24"\,,\,\text"24"\,,\,\text"24"\,,\,\text"24"\,,\,\text"24"\,,\,\text"24"\,,\,\text"24"\,,\,\text"24"\,,\,\text"24"\,,\,\text"24"\,,\,\text"24
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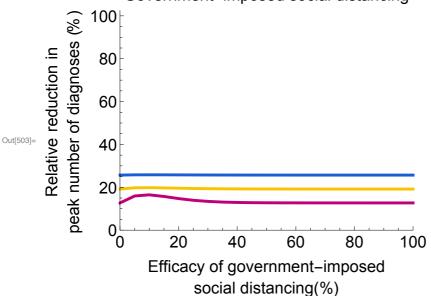
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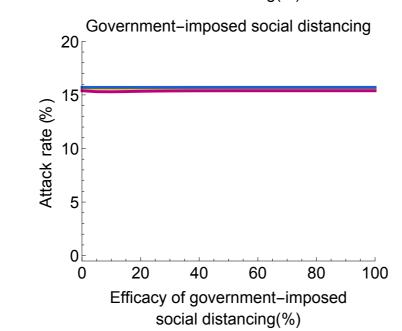
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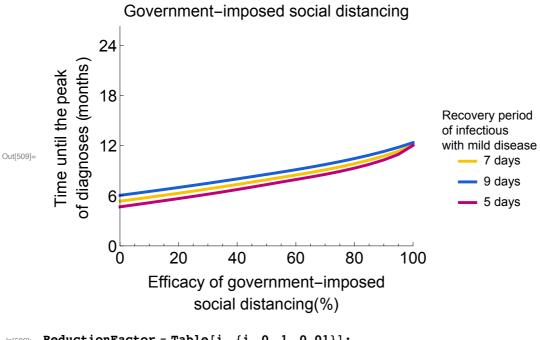
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Government-imposed social distancing





Out[506]=



In[532]:= ReductionFactor = Table[i, {i, 0, 1, 0.01}];

PeakMaskBaseline = PeakRange["Mask",

Join [ParametersSensitivityAnalyses [RelativeInfectivityBaseline, ProportionMildSymptomsBaseline, RecoveryRateMildSymptomsBaseline, DiagnosisRateBaseline, BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline, RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline, RateAwarenessFadingSevereSymptomsBaseline, AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline, StartTimeBaseline], $\{r_1 \rightarrow factor\}$]

PeakMaskMin = PeakRange["Mask",

Join [ParametersSensitivityAnalyses [RelativeInfectivityBaseline, ProportionMildSymptomsBaseline, RecoveryRateMildSymptomsBaseline, DiagnosisRateMin, BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline, RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline, RateAwarenessFadingSevereSymptomsBaseline, AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline, StartTimeBaseline], $\{r_1 \rightarrow factor\}$]

PeakMaskMax = PeakRange["Mask",

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AttackRateMaskBaseline =

AttackRateRange["Mask", Join[ParametersSensitivityAnalyses[RelativeInfectivityBaseline, ProportionMildSymptomsBaseline, RecoveryRateMildSymptomsBaseline, DiagnosisRateBaseline, BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline, RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline, RateAwarenessFadingSevereSymptomsBaseline,

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AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_1 \rightarrow factor\}]
AttackRateMaskMin = AttackRateRange["Mask",
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    DiagnosisRateMin, BasicReproductionNumberBaseline,
    RelativeSusceptibilityAwarenessBaseline,
    RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_1 \rightarrow factor\}]]
AttackRateMaskMax = AttackRateRange["Mask",
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    DiagnosisRateMax, BasicReproductionNumberBaseline,
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    RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
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    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_1 \rightarrow factor\}]]
PeakTimingMaskBaseline =
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    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_1 \rightarrow factor\}]
PeakTimingMaskMin = PeakTimingRange["Mask",
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    RelativeSusceptibilityAwarenessBaseline,
    {\tt RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,}
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_1 \rightarrow factor\}]]
PeakTimingMaskMax = PeakTimingRange["Mask",
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    {\tt Rate Awareness Fading Susceptible Exposed Mild Symptoms Baseline,}
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    StartTimeBaseline], \{r_1 \rightarrow factor\}]]
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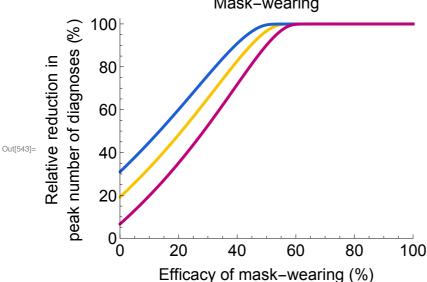
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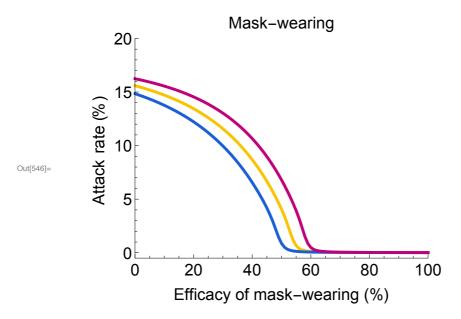
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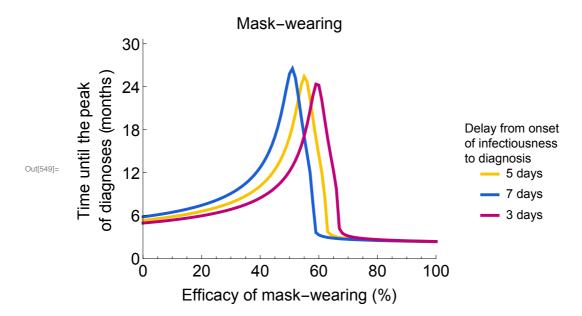
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                  \{9., 176.694\}, \{8., 174.93\}, \{7., 173.245\}, \{6., 171.601\}, \{5., 170.016\},
                  \{4., 168.472\}, \{3., 166.988\}, \{2., 165.544\}, \{1., 164.141\}, \{0., 162.797\}\}
\mathsf{Out}_{[540]} = \{\{100., 72.8957\}, \{99., 73.0762\}, \{98., 73.2567\}, \{97., 73.4372\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.6177\}, \{96., 73.
                   95., 73.8182}, {94., 74.0187}, {93., 74.2193}, {92., 74.4198}, {91., 74.6404},
                   90., 74.861}, {89., 75.1016}, {88., 75.3423}, {87., 75.5829}, {86., 75.8436},
                   85., 76.1043, \{84., 76.3851\}, \{83., 76.6859\}, \{82., 76.9867\}, \{81., 77.3076\},
                   80., 77.6485}, {79., 77.9894}, {78., 78.3704}, {77., 78.7715}, {76., 79.1726},
                  {75., 79.6338}, {74., 80.095}, {73., 80.6164}, {72., 81.178}, {71., 81.7796},
                  {70., 82.4413}, {69., 83.1633}, {68., 83.9855}, {67., 84.908}, {66., 85.9708},
                  {65., 87.1941}, {64., 88.6781}, {63., 90.4829}, {62., 92.8292}, {61., 96.078},
                  {60., 101.051}, {59., 110.898}, {58., 233.226}, {57., 367.306},
                  {56., 444.253}, {55., 519.635}, {54., 601.415}, {53., 689.17}, {52., 768.704},
                  \{51., 807.167\}, \{50., 785.248\}, \{49., 727.594\}, \{48., 664.003\},
                  {47.,606.729}, {46.,558.078}, {45.,517.249}, {44.,482.836},
                  {43., 453.598}, {42., 428.49}, {41., 406.712}, {40., 387.661}, {39., 370.856},
                  {38., 355.896}, {37., 342.5}, {36., 330.427}, {35., 319.498}, {34., 309.531},
                  {33., 300.427}, {32., 292.044}, {31., 284.343}, {30., 277.184},
                  \{29., 270.566\}, \{28., 264.39\}, \{27., 258.614\}, \{26., 253.22\}, \{25., 248.146\},
                  {24., 243.393}, {23., 238.901}, {22., 234.67}, {21., 230.659}, {20., 226.849},
                  \{19., 223.239\}, \{18., 219.81\}, \{17., 216.561\}, \{16., 213.453\}, \{15., 210.485\},
                  \{14., 207.637\}, \{13., 204.93\}, \{12., 202.323\}, \{11., 199.837\}, \{10., 197.45\},
                  \{9., 195.144\}, \{8., 192.938\}, \{7., 190.812\}, \{6., 188.767\}, \{5., 186.802\},
                  \{4., 184.896\}, \{3., 183.072\}, \{2., 181.287\}, \{1., 179.582\}, \{0., 177.918\}\}
```

```
Out[541] = \{\{100., 73.1564\}, \{99., 73.4171\}, \{98., 73.6979\}, \{97., 73.9586\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\}, \{96., 74.2594\},
             95., 74.5602}, {94., 74.861}, {93., 75.2019}, {92., 75.5428}, {91., 75.8837},
             90., 76.2648, \{89., 76.6458, \{88., 77.0469\}, \{87., 77.4881\}, \{86., 77.9493\},
             85., 78.4306, \{84., 78.9319\}, \{83., 79.4934\}, \{82., 80.075\}, \{81., 80.7167\},
            {80., 81.3985}, {79., 82.1606}, {78., 82.9828}, {77., 83.9053}, {76., 84.928},
            {75., 86.1112}, {74., 87.4548}, {73., 89.0591}, {72., 90.9843}, {71., 93.3907},
            {70., 96.5994}, {69., 101.172}, {68., 108.792}, {67., 128.304}, {66., 295.915},
            \{65., 373.924\}, \{64., 440.924\}, \{63., 512.155\}, \{62., 591.608\},
            \{61., 674.631\}, \{60., 736.818\}, \{59., 741.13\}, \{58., 692.64\}, \{57., 628.728\},
             [56., 569.75], {55., 520.096}, {54., 479.086}, {53., 445.075}, {52., 416.558},
            \{51., 392.373\}, \{50., 371.598\}, \{49., 353.569\}, \{48., 337.767\}, \{47., 323.789\},
            {46., 311.356}, {45., 300.186}, {44., 290.119}, {43., 280.994}, {42., 272.652},
            {41., 265.032}, {40., 258.013}, {39., 251.535}, {38., 245.519}, {37., 239.944},
            {36., 234.75}, {35., 229.877}, {34., 225.325}, {33., 221.054}, {32., 217.023},
            \{31., 213.233\}, \{30., 209.643\}, \{29., 206.234\}, \{28., 203.025\}, \{27., 199.957\},
            {26., 197.049}, {25., 194.282}, {24., 191.635}, {23., 189.108}, {22., 186.701},
            \{21., 184.395\}, \{20., 182.169\}, \{19., 180.043\}, \{18., 178.018\},
            \{17., 176.053\}, \{16., 174.168\}, \{15., 172.343\}, \{14., 170.598\},
            \{13., 168.914\}, \{12., 167.289\}, \{11., 165.725\}, \{10., 164.201\},
            \{9., 162.737\}, \{8., 161.313\}, \{7., 159.929\}, \{6., 158.586\}, \{5., 157.302\},
            \{4., 156.039\}, \{3., 154.836\}, \{2., 153.653\}, \{1., 152.489\}, \{0., 151.386\}\}
ln[542]:= imagePadding = {{80, 15}, {73, 7.5}};
          SS19 = ListLinePlot[{PeakMaskBaseline, PeakMaskMin, PeakMaskMax},
              AspectRatio \rightarrow 0.75, ImageSize \rightarrow 400, PlotRange \rightarrow {All, {0, 102.5}},
              AxesOrigin \rightarrow \{0, 0\}, Frame \rightarrow \{\{True, False\}, \{True, False\}\},
              FrameStyle → Directive[Black, 17], PlotRangePadding → None,
              PlotStyle \rightarrow {{Thickness[0.01], RGBColor[248 / 255, 196 / 255, 0]},
                  {Thickness[0.01], RGBColor[26/255, 94/255, 214/255]},
                  {Thickness[0.01], RGBColor[192/255, 0, 120/255]}},
              PlotLabel → Style[Row[{"Mask-wearing"}], 17, Black],
              ImagePadding → imagePadding,
              FrameLabel → {{"Relative reduction in\npeak number of diagnoses (%)", None},
                  {"Efficacy of mask-wearing (%)", None}}]
         Export[StringJoin[
                //Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine/
                   Resubmission//FinalFigures//SS19", ".pdf"], SS19];
         Export[StringJoin[
                //Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine/
                   Resubmission//FinalFigures//SS19", ".eps"], SS19];
          SS20 =
           ListLinePlot[{AttackRateMaskBaseline, AttackRateMaskMin, AttackRateMaskMax},
              AspectRatio \rightarrow 0.75, ImageSize \rightarrow 400, PlotRange \rightarrow {All, {-0.5, 20}},
              AxesOrigin \rightarrow {0, 0}, Filling \rightarrow {1 \rightarrow {2}}, Frame \rightarrow {{True, False}, {True, False}},
              FrameStyle → Directive[Black, 17], PlotRangePadding → None,
              PlotStyle \rightarrow \{\{Thickness[0.01], RGBColor[248 / 255, 196 / 255, 0]\},\
                  {Thickness[0.01], RGBColor[26 / 255, 94 / 255, 214 / 255]},
                  {Thickness[0.01], RGBColor[192/255, 0, 120/255]}},
              PlotLabel → Style[Row[{"Mask-wearing"}], 17, Black],
              ImagePadding → imagePadding, FrameLabel →
                \label{eq:continuous} $$ \{\{\text{``Attack rate (\%)'', None}\}, \{\text{``Efficacy of mask-wearing (\%)'', None}\}\}$ $$
          Export[StringJoin[
                "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
                   Resubmission//FinalFigures//SS20", ".pdf"], SS20];
         Export[StringJoin[
                "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
                   Resubmission//FinalFigures//SS20", ".eps"], SS20];
```

```
SS21 =
 ListLinePlot[{PeakTimingMaskBaseline, PeakTimingMaskMin, PeakTimingMaskMax},
  AspectRatio \rightarrow 0.75, ImageSize \rightarrow 400, PlotRange \rightarrow {All, {0, 365 \times 5 / 2 + 20}},
  AxesOrigin \rightarrow \{0, 0\}, Frame \rightarrow \{\{True, False\}, \{True, False\}\},
  FrameStyle → Directive[Black, 17], PlotMarkers → {"", "", '
     Graphics[{RGBColor[28 / 255, 162 / 255, 0], Thick, Circle[]}, ImageSize \rightarrow 10],
     Graphics [{RGBColor[185/255, 76/255, 225/255], Thick, Circle[]},
      ImageSize \rightarrow 10], ""},
  PlotStyle \rightarrow \{ \{ \text{Thickness}[0.01], \, \text{RGBColor}[248 / 255, \, 196 / 255, \, 0] \} \}
     {Thickness[0.01], RGBColor[26/255, 94/255, 214/255]},
     {Thickness[0.01], RGBColor[192/255, 0, 120/255]}},
  FrameLabel → {{"Time until the peak\nof diagnoses (months)", None},
     {"Efficacy of mask-wearing (%)", None}},
  ImagePadding → imagePadding, PlotRangePadding → None,
  PlotLabel → Style[Row[{"Mask-wearing"}], 17, Black],
  PlotLegends → LineLegend[Table[Style[Row[{label}], Black, 13, "Text"],
      {label, {"5 days", "7 days", "3 days"}}], LegendLabel \rightarrow Style[
        "Delay from onset\nof infectiousness\nto diagnosis", Black, 13, "Text"]],
  FrameTicks \rightarrow {{{{0, "0"}, {365 / 2, "6"}, {365, "12"}, {365 × 2, "24"}, {365 × 3 / 2, "18"}, {365 × 5 / 2, "30"}}, None}, {Automatic, None}}]
Export[StringJoin[
    "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
      Resubmission//FinalFigures//SS21", ".pdf"], SS21];
Export[StringJoin[
    "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
      Resubmission//FinalFigures//SS21", ".eps"], SS21];
                           Mask-wearing
       100
        80
```







In[552]:= ReductionFactor = Table[i, {i, 0, 1, 0.1}];

PeakGovBaseline =

 ${\tt PeakRange["ContactReductionGovernment", Join[ParametersSensitivityAnalyses["ContactReductionGovernment"]"] and the property of the proper$ ${\tt RelativeInfectivityBaseline, ProportionMildSymptomsBaseline,}$ RecoveryRateMildSymptomsBaseline, DiagnosisRateBaseline, BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline, RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline, RateAwarenessFadingSevereSymptomsBaseline, AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline, StartTimeBaseline], $\{r_4 \rightarrow factor\}$]

PeakGovMin =

PeakRange["ContactReductionGovernment", Join[ParametersSensitivityAnalyses[${\tt RelativeInfectivityBaseline, ProportionMildSymptomsBaseline,}$ RecoveryRateMildSymptomsBaseline, DiagnosisRateMin, BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline, RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,

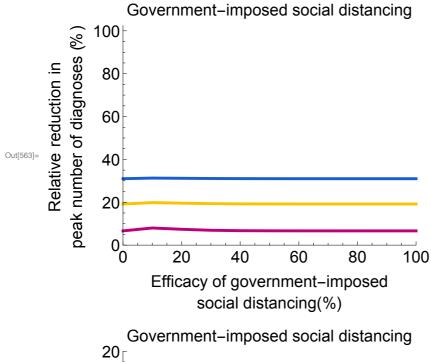
```
RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_4 \rightarrow factor\}]
PeakGovMax =
 PeakRange["ContactReductionGovernment", Join[ParametersSensitivityAnalyses[
    RelativeInfectivityBaseline, ProportionMildSymptomsBaseline,
    RecoveryRateMildSymptomsBaseline, DiagnosisRateMax,
    BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline,
    RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_4 \rightarrow factor\}]]
AttackRateGovBaseline = AttackRateRange[
  "ContactReductionGovernment", Join[ParametersSensitivityAnalyses[
    RelativeInfectivityBaseline, ProportionMildSymptomsBaseline,
    RecoveryRateMildSymptomsBaseline, DiagnosisRateBaseline,
    BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline,
    RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_4 \rightarrow factor\}]]
AttackRateGovMin = AttackRateRange[
  "ContactReductionGovernment", Join[ParametersSensitivityAnalyses[
    RelativeInfectivityBaseline, ProportionMildSymptomsBaseline,
    RecoveryRateMildSymptomsBaseline, DiagnosisRateMin,
    BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline,
    RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_4 \rightarrow factor\}]]
AttackRateGovMax = AttackRateRange[
  "ContactReductionGovernment", Join[ParametersSensitivityAnalyses[
    RelativeInfectivityBaseline, ProportionMildSymptomsBaseline,
    RecoveryRateMildSymptomsBaseline, DiagnosisRateMax,
    BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline,
    RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_4 \rightarrow factor\}]]
PeakTimingGovBaseline = PeakTimingRange[
  "ContactReductionGovernment", Join[ParametersSensitivityAnalyses[
    {\tt RelativeInfectivityBaseline, ProportionMildSymptomsBaseline,}
    RecoveryRateMildSymptomsBaseline, DiagnosisRateBaseline,
    BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline,
    {\tt RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,}
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_4 \rightarrow factor\}]]
PeakTimingGovMin = PeakTimingRange[
  "ContactReductionGovernment", Join[ParametersSensitivityAnalyses[
    RelativeInfectivityBaseline, ProportionMildSymptomsBaseline,
    RecoveryRateMildSymptomsBaseline, DiagnosisRateMin,
    BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline,
    {\tt RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,}
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
```

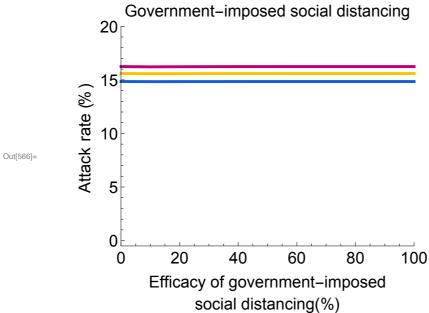
StartTimeBaseline], $\{r_4 \rightarrow factor\}$]

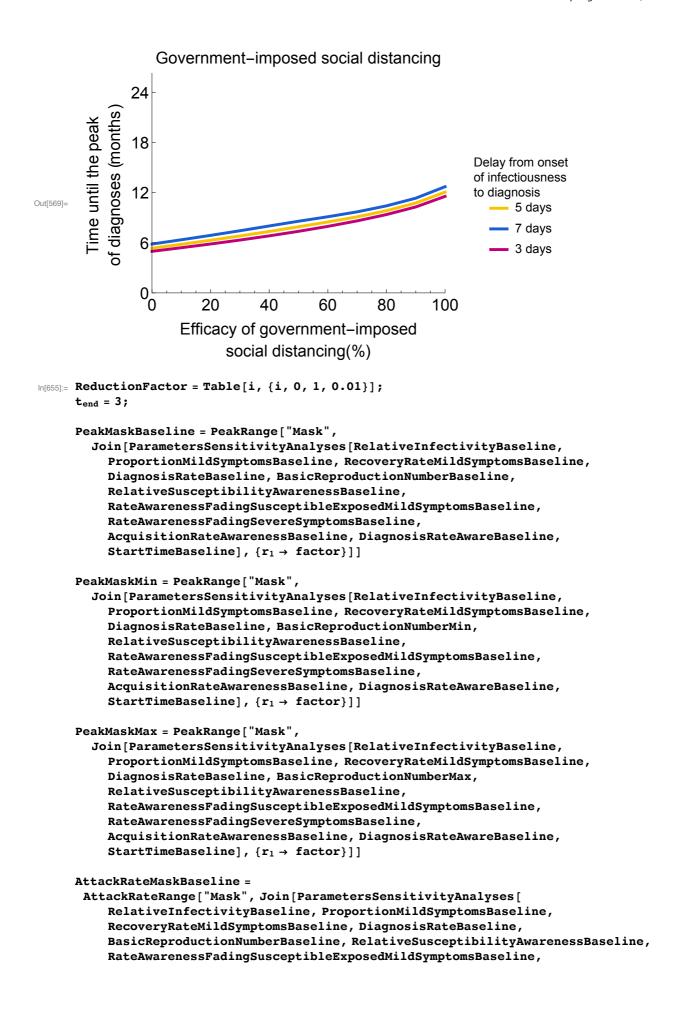
PeakTimingGovMax = PeakTimingRange[

```
"ContactReductionGovernment", Join[ParametersSensitivityAnalyses[
            RelativeInfectivityBaseline, ProportionMildSymptomsBaseline,
            RecoveryRateMildSymptomsBaseline, DiagnosisRateMax,
            BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline,
            RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
            RateAwarenessFadingSevereSymptomsBaseline,
            AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
            StartTimeBaseline], \{r_4 \rightarrow factor\}]
Out[553]= \{\{100., 19.1862\}, \{90., 19.1867\}, \{80., 19.1876\},
        \{70., 19.1898\}, \{60., 19.1954\}, \{50., 19.2108\}, \{40., 19.2514\},
        \{30., 19.3545\}, \{20., 19.5743\}, \{10., 19.8368\}, \{0., 19.1837\}\}
Out[554] = \{ \{100., 30.9891\}, \{90., 30.9895\}, \{80., 30.9903\}, \}
        \{70., 30.9921\}, \{60., 30.9964\}, \{50., 31.0068\}, \{40., 31.03\},
        \{30., 31.0806\}, \{20., 31.1758\}, \{10., 31.2745\}, \{0., 30.9869\}\}
{\scriptsize \texttt{Out[555]=}} \  \, \{\, \{\, 100\, \hbox{, } 6.64312 \,\} \, \hbox{, } \{\, 90\, \hbox{, } 6.64356 \,\} \, \hbox{, } \{\, 80\, \hbox{, } 6.64445 \,\} \, \hbox{, } \\
        \{70., 6.64655\}, \{60., 6.6527\}, \{50., 6.67259\}, \{40., 6.73684\},
        \{30., 6.9267\}, \{20., 7.38368\}, \{10., 7.98765\}, \{0., 6.64089\}\}
Out[556]= \{\{100., 15.5894\}, \{90., 15.5894\}, \{80., 15.5894\},
        \{70., 15.5893\}, \{60., 15.5892\}, \{50., 15.5888\}, \{40., 15.5878\},
        \{30., 15.5853\}, \{20., 15.58\}, \{10., 15.5735\}, \{0., 15.5895\}\}
Out[557]= \{\{100., 14.8426\}, \{90., 14.8426\}, \{80., 14.8426\}, 
        \{70., 14.8425\}, \{60., 14.8424\}, \{50., 14.8421\}, \{40., 14.8414\},
        \{30., 14.8398\}, \{20., 14.8369\}, \{10., 14.8339\}, \{0., 14.8427\}\}
Out[558]= \{\{100., 16.24\}, \{90., 16.24\}, \{80., 16.2399\},
        \{70., 16.2399\}, \{60., 16.2398\}, \{50., 16.2394\}, \{40., 16.2382\},
        \{30., 16.2346\}, \{20., 16.2259\}, \{10., 16.214\}, \{0., 16.24\}\}
Out[559]= \{\{100., 366.865\}, \{90., 327.359\}, \{80., 299.424\},
        \{70., 277.084\}, \{60., 258.253\}, \{50., 240.867\}, \{40., 223.761\},
        {30., 207.357}, {20., 191.835}, {10., 177.095}, {0., 162.797}}
Out[560]= \{\{100., 386.778\}, \{90., 344.886\}, \{80., 316.951\},
        \{70., 295.152\}, \{60., 277.345\}, \{50., 261.001\}, \{40., 243.775\},
        \{30., 226.348\}, \{20., 209.543\}, \{10., 193.459\}, \{0., 177.918\}\}
Out[561]= \{\{100., 351.464\}, \{90., 313.\}, \{80., 285.266\},
        \{70., 262.304\}, \{60., 242.25\}, \{50., 224.222\}, \{40., 207.718\},
        \{30., 192.417\}, \{20., 178.118\}, \{10., 164.562\}, \{0., 151.386\}\}
ln[562]:= imagePadding = { {80, 15}, {73, 7.5} };
       SS22 = ListLinePlot[{PeakGovBaseline, PeakGovMin, PeakGovMax},
          \textbf{AspectRatio} \rightarrow \textbf{0.75}, \; \textbf{ImageSize} \rightarrow \textbf{400}, \; \textbf{PlotRange} \rightarrow \{\textbf{All}, \; \{\textbf{0, 102.5}\}\}, 
         AxesOrigin \rightarrow \{0, 0\}, Frame \rightarrow \{\{True, False\}\}, \{True, False\}\},
         FrameStyle → Directive[Black, 17], PlotRangePadding → None,
         PlotStyle \rightarrow \{\{Thickness[0.01], RGBColor[248 / 255, 196 / 255, 0]\},\
            {Thickness[0.01], RGBColor[26 / 255, 94 / 255, 214 / 255]},
            {Thickness[0.01], RGBColor[192/255, 0, 120/255]}},
         PlotLabel → Style[Row[{"Government-imposed social distancing"}], 17, Black],
         ImagePadding → imagePadding,
         FrameLabel \rightarrow {{"Relative reduction in\npeak number of diagnoses (%)", None},
            {"Efficacy of government-imposed\nsocial distancing(%)", None}}]
      Export[StringJoin[
           "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
             Resubmission//FinalFigures//SS22", ".pdf"], SS22];
```

```
Export[StringJoin[
   "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
      Resubmission//FinalFigures//SS22", ".eps"], SS22];
SS23 = ListLinePlot[{AttackRateGovBaseline, AttackRateGovMin, AttackRateGovMax},
  AspectRatio \rightarrow 0.75, ImageSize \rightarrow 400, PlotRange \rightarrow {All, \{-0.5, 20\}\},
   \textbf{AxesOrigin} \rightarrow \{0, 0\}, \textbf{Filling} \rightarrow \{1 \rightarrow \{2\}\}, \textbf{Frame} \rightarrow \{\{\textbf{True}, \textbf{False}\}, \{\textbf{True}, \textbf{False}\}\}, 
  FrameStyle → Directive[Black, 17], PlotRangePadding → None,
  PlotStyle \rightarrow \{ \{ \text{Thickness}[0.01], \, \text{RGBColor}[248 / 255, \, 196 / 255, \, 0] \} \}
     {Thickness[0.01], RGBColor[26/255, 94/255, 214/255]},
     {Thickness[0.01], RGBColor[192/255, 0, 120/255]}},
  PlotLabel → Style[Row[{"Government-imposed social distancing"}], 17, Black],
  ImagePadding → imagePadding, FrameLabel → {{"Attack rate (%)", None},
     {"Efficacy of government-imposed\nsocial distancing(%)", None}}]
Export[StringJoin[
   "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
      Resubmission//FinalFigures//SS23", ".pdf"], SS23];
Export [StringJoin [
    "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
      Resubmission//FinalFigures//SS23", ".eps"], SS23];
SS24 = ListLinePlot[{PeakTimingGovBaseline, PeakTimingGovMin, PeakTimingGovMax},
  AspectRatio \rightarrow 0.75, ImageSize \rightarrow 400, PlotRange \rightarrow {All, {0, 800}},
  AxesOrigin \rightarrow \{0, 0\}, Frame \rightarrow \{\{True, False\}\}, \{True, False\}\},
  FrameStyle → Directive[Black, 17], PlotMarkers → {"", "", "",
    Graphics[\{RGBColor[28/255, 162/255, 0], Thick, Circle[]\}, ImageSize \rightarrow 10],
    Graphics[{RGBColor[185 / 255, 76 / 255, 225 / 255], Thick, Circle[]},
      ImageSize \rightarrow 10], ""},
  PlotStyle \rightarrow {{Thickness[0.01], RGBColor[248 / 255, 196 / 255, 0]},
     {Thickness[0.01], RGBColor[26/255, 94/255, 214/255]},
     {Thickness[0.01], RGBColor[192/255, 0, 120/255]}},
  FrameLabel → {{"Time until the peak\nof diagnoses (months)", None},
     {"Efficacy of government-imposed\nsocial distancing(%)", None}},
  ImagePadding → imagePadding, PlotRangePadding → None,
  PlotLabel → Style[Row[{"Government-imposed social distancing"}], 17, Black],
  PlotLegends → LineLegend[Table[Style[Row[{label}], Black, 13, "Text"],
      {label, {"5 days", "7 days", "3 days"}}], LegendLabel \rightarrow Style[
       "Delay from onset\nof infectiousness\nto diagnosis", Black, 13, "Text"]],
  FrameTicks \rightarrow {{{\{0, "0"}\}, {365 / 2, "6"}, {365, "12"}, {365 × 2, "24"},
       \{365 \times 3 / 2, "18"\}\}, None\}, {Automatic, None}}]
Export[StringJoin[
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```
RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_1 \rightarrow factor\}]
AttackRateMaskMin = AttackRateRange["Mask",
  Join [ParametersSensitivityAnalyses [RelativeInfectivityBaseline,
    ProportionMildSymptomsBaseline, RecoveryRateMildSymptomsBaseline,
    DiagnosisRateBaseline, BasicReproductionNumberMin,
    RelativeSusceptibilityAwarenessBaseline,
    RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_1 \rightarrow factor\}]]
AttackRateMaskMax = AttackRateRange["Mask",
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    ProportionMildSymptomsBaseline, RecoveryRateMildSymptomsBaseline,
    DiagnosisRateBaseline, BasicReproductionNumberMax,
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    RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
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    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_1 \rightarrow factor\}]]
PeakTimingMaskBaseline =
 PeakTimingRange["Mask", Join[ParametersSensitivityAnalyses[
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    BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline,
    RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_1 \rightarrow factor\}]]
PeakTimingMaskMin = PeakTimingRange["Mask",
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    ProportionMildSymptomsBaseline, RecoveryRateMildSymptomsBaseline,
    DiagnosisRateBaseline, BasicReproductionNumberMin,
    RelativeSusceptibilityAwarenessBaseline,
    {\tt Rate Awareness Fading Susceptible Exposed Mild Symptoms Baseline,}
    RateAwarenessFadingSevereSymptomsBaseline,
    {\tt AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,}
    StartTimeBaseline], \{r_1 \rightarrow factor\}]]
PeakTimingMaskMax = PeakTimingRange["Mask",
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    {\tt Proportion Mild Symptoms Baseline, Recovery Rate Mild Symptoms Baseline,}
    DiagnosisRateBaseline, BasicReproductionNumberMax,
    RelativeSusceptibilityAwarenessBaseline,
    {\tt Rate Awareness Fading Susceptible Exposed Mild Symptoms Baseline,}
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_1 \rightarrow factor\}]
```

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\mathsf{Out}_{[660]} = \{\{100., \, 0.0168099\}, \, \{99., \, 0.0171898\}, \, \{98., \, 0.0175871\}, \, \{97., \, 0.018003\}, \, \{98., \, 0.0175871\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99., \, 0.018003\}, \, \{99.,
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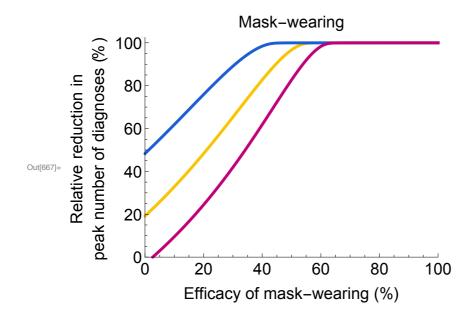
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\text{Out[663]= } \left\{ \left\{ 100., \, \frac{1570230}{21841} \right\}, \, \left\{ 99., \, \frac{1574610}{21841} \right\}, \, \left\{ 98., \, \frac{1579355}{21841} \right\}, \, \left\{ 97., \, \frac{1584100}{21841} \right\}, \, \left\{ 97., \, \frac{1584100}{21841} \right\}, \, \left\{ 98., \, \frac{1579355}{21841} \right\}, \, \left\{ 97., \, \frac{1584100}{21841} \right\}, \, \left\{ 98., \, \frac{1579355}{21841} \right\}, \, \left\{ 97., \, \frac{1584100}{21841} \right\}, \, \left\{ 98., \, \frac{1579355}{21841} \right\}, \, \left\{ 99., \, \frac{1584100}{21841} \right\}, \, \left\{ 99., \, \frac{1574610}{21841} \right\}, \, \left\{ 99., \, \frac{1574610}
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                                                  \{88., \frac{21841}{21841}\}, \{87., \frac{21841}{21841}\}, \{86., \frac{21841}{21841}\}, \{85., \frac{21841}{21841}\}, 
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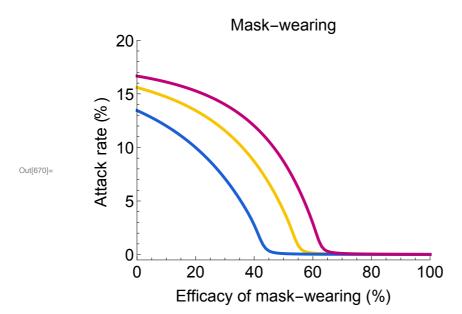
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                                                                  \left\{64., \frac{21841}{2355345}\right\}, \left\{63., \frac{21841}{21841}\right\}, \left\{62., \frac{21841}{21841}\right\}, \left\{61., \frac{2450245}{21841}\right\},
                                                                 \{60., \frac{21841}{21841}\}, \{59., \frac{21841}{21841}\}, \{58., \frac{2610115}{21841}\}, \{57., \frac{2698445}{21841}\},
                                                                \left\{ 56., \frac{21841}{21841} \right\}, \left\{ 59., \frac{21841}{21841} \right\}, \left\{ 56., \frac{2831670}{21841} \right\}, \left\{ 55., \frac{3086805}{21841} \right\}, \left\{ 54., \frac{5606765}{21841} \right\}, \left\{ 53., \frac{7751140}{21841} \right\}, \\ \left\{ 52., \frac{8981555}{21841} \right\}, \left\{ 51., \frac{10133495}{21841} \right\}, \left\{ 50., \frac{11348215}{21841} \right\}, \left\{ 49., \frac{12700175}{21841} \right\}, \\ \left\{ 48., \frac{14246315}{21841} \right\}, \left\{ 47., \frac{16011820}{21841} \right\}, \left\{ 46., \frac{17905805}{21841} \right\}, \left\{ 45., \frac{19527500}{21841} \right\}, \\ \left\{ 48., \frac{1348215}{21841} \right\}, \left\{ 47., \frac{16011820}{21841} \right\}, \left\{ 46., \frac{17905805}{21841} \right\}, \left\{ 45., \frac{19527500}{21841} \right\}, \\ \left\{ 48., \frac{19527555}{21841} \right\}, \left\{ 47., \frac{19527555}{21841} \right\}, \left\{ 47., \frac{19527555}{21841} \right\}, \left\{ 48., \frac{19527555}{21841} \right\}, \left\{ 49., \frac{19527555}{21841} \right\}
                                                                   \left\{44., \frac{21841}{21841}\right\}, \left\{43., \frac{19440265}{21841}\right\}, \left\{42., \frac{18033555}{21841}\right\}, \left\{41., \frac{16528660}{21841}\right\}, 
                                                                  \{40., \frac{21841}{21841}\}, \{39., \frac{21841}{21841}\}, \{38., \frac{21841}{21841}\}, \{37., \frac{21841}{21841}\},
                                                                   \left\{36., \frac{21841}{21841}\right\}, \left\{35., \frac{21841}{21841}\right\}, \left\{34., \frac{21841}{21841}\right\}, \left\{33., \frac{9880550}{21841}\right\}, 
                                                                  \{32., \frac{9465545}{21841}\}, \{31., \frac{9095435}{21841}\}, \{30., \frac{8763285}{21841}\}, \{29., \frac{8463255}{21841}\},
                                                                  \left\{28., \frac{8190965}{21841}\right\}, \left\{27., \frac{7942035}{21841}\right\}, \left\{26., \frac{7714275}{21841}\right\}, \left\{25., \frac{7504765}{21841}\right\}, \left\{24., \frac{7311315}{21841}\right\}, \left\{23., \frac{7131735}{21841}\right\}, \left\{22., \frac{6964930}{21841}\right\}, \left\{21., \frac{6809440}{21841}\right\}, 
                                                                  \{20., \frac{21841}{21841}\}, \{19., \frac{21841}{6528025}\}, \{18., \frac{21841}{21841}\}, \{17., \frac{6279460}{21841}\},
                                                                  \left\{16., \frac{21841}{21841}\right\}, \left\{15., \frac{21841}{21841}\right\}, \left\{14., \frac{5956800}{21841}\right\}, \left\{13., \frac{5860440}{21841}\right\}
                                                                  \{12., \frac{21841}{5768825}\}, \{11., \frac{21841}{21841}\}, \{10., \frac{5598735}{21841}\}, \{9., \frac{5519530}{21841}\},
                                                                  \left\{8., \frac{5443975}{21841}\right\}, \left\{7., \frac{5371705}{21841}\right\}, \left\{6., \frac{5302720}{21841}\right\}, \left\{5., \frac{5236290}{21841}\right\}, \left\{4., \frac{5172780}{21841}\right\}, \left\{5., \frac{5236290}{21841}\right\}, \left\{4., \frac{5172780}{21841}\right\}, \left\{5., \frac{5236290}{21841}\right\}, \left\{6., \frac{5111825}{21841}\right\}, \left\{6., \frac{4996485}{21841}\right\}, \left\{6., \frac{4942100}{21841}\right\} \right\}
```

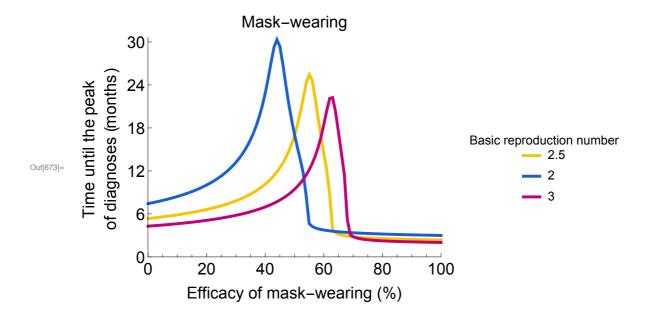
```
\text{Out[665]= } \big\{ \big\{ 100., \, \frac{1\,338\,820}{21\,841} \big\}, \, \big\{ 99., \, \frac{1\,343\,200}{21\,841} \big\}, \, \big\{ 98., \, \frac{1\,347\,945}{21\,841} \big\}, \, \big\{ 97., \, \frac{1\,352\,690}{21\,841} \big\}, \, \big\{ 98., \, \frac{1\,347\,945}{21\,841} \big\}, \, \big\{ 99., \, \frac{1\,343\,200}{21\,841} \big\}, \, \big\{ 99., \, \frac{1\,343\,200}{21\,84
                                                        \{96., \frac{1357435}{21841}\}, \{95., \frac{1362910}{21841}\}, \{94., \frac{1368020}{21841}\}, \{93., \frac{1373860}{21841}\},
                                                        \{92., \frac{1379700}{21841}\}, \{91., \frac{1385905}{21841}\}, \{90., \frac{1392475}{21841}\}, \{89., \frac{1399410}{21841}\},
                                                       \{88., \frac{21841}{21841}\}, \{87., \frac{21841}{21841}\}, \{86., \frac{21841}{21841}\}, \{85., \frac{21841}{21841}\},
                                                        \left\{84.,\ \frac{1\,440\,655}{21\,841}\right\},\ \left\{83.,\ \frac{1\,450\,875}{21\,841}\right\},\ \left\{82.,\ \frac{1\,461\,825}{21\,841}\right\},\ \left\{81.,\ \frac{1\,473\,870}{21\,841}\right\},
                                                        \{80., \frac{1487375}{21841}\}, \{79., \frac{1501975}{21841}\}, \{78., \frac{1518400}{21841}\}, \{77., \frac{1537380}{21841}\},
                                                       \{76., \frac{1558915}{21841}\}, \{75., \frac{1584465}{21841}\}, \{74., \frac{1615125}{21841}\}, \{73., \frac{1653085}{21841}\}, \{79., \frac{1653085}{21841}\}
                                                        \{72., \frac{1702725}{21841}\}, \{71., \frac{1770980}{21841}\}, \{70., \frac{1876465}{21841}\}, \{69., \frac{2076120}{21841}\},
                                                        \left\{68.,\,\frac{3\,514\,950}{21\,841}\right\},\,\left\{67.,\,\frac{7\,651\,495}{21\,841}\right\},\,\left\{66.,\,\frac{9\,618\,115}{21\,841}\right\},\,\left\{65.,\,\frac{11\,549\,330}{21\,841}\right\},
                                                        \{64.,\,\frac{13\,461\,930}{21\,841}\}\text{, }\{63.,\,\frac{14\,768\,630}{21\,841}\}\text{, }\{62.,\,\frac{14\,696\,360}{21\,841}\}\text{, }\{61.,\,\frac{13\,583\,110}{21\,841}\}\text{, }
                                                        \left\{60., \frac{12257430}{21841}\right\}, \left\{59., \frac{21841}{21841}\right\}, \left\{58., \frac{10097360}{21841}\right\}, \left\{57., \frac{9293630}{21841}\right\},
                                                        \{56., \frac{8628600}{21841}\}, \{55., \frac{8072340}{21841}\}, \{54., \frac{7600395}{21841}\}, \{53., \frac{7195245}{21841}\},
                                                        \{52., \frac{6844115}{21841}\}, \{51., \frac{6536055}{21841}\}, \{50., \frac{6264130}{21841}\}, \{49., \frac{6021770}{21841}\},
                                                         \left\{48., \frac{21841}{21841}\right\}, \left\{47., \frac{5608225}{21841}\right\}, \left\{46., \frac{5430470}{21841}\right\}, \left\{45., \frac{5268045}{21841}\right\}, 
                                                         \left\{44.,\ \frac{5\,119\,490}{21\,841}\right\}\text{, }\left\{43.,\ \frac{4\,982\,980}{21\,841}\right\}\text{, }\left\{42.,\ \frac{4\,856\,690}{21\,841}\right\}\text{, }\left\{41.,\ \frac{4\,739\,890}{21\,841}\right\}\text{, }
                                                                                                  \frac{21841}{4631120}\}, \{39., \frac{21841}{21841}\}, \{38., \frac{21841}{21841}\}, \{37., \frac{4346785}{21841}\}
                                                         \{36., \frac{4263565}{21841}\}, \{35., \frac{4185090}{21841}\}, \{34., \frac{4111360}{21841}\}, \{33., \frac{4041645}{21841}\},
                                                        \{32., \frac{3975580}{21841}\}, \{31., \frac{3912800}{21841}\}, \{30., \frac{3853305}{21841}\}, \{29., \frac{3796730}{21841}\},
                                                        \{28., \frac{3743075}{21841}\}, \{27., \frac{3691610}{21841}\}, \{26., \frac{3642700}{21841}\}, \{25., \frac{3595615}{21841}\}, \{3550720\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{3607650\}, \{36076500\}, \{3607650\}, \{36076500\}, \{36076500\}, \{36076500\}, \{360765000\}, \{360765000\}, \{360765
                                                         \{24., \frac{3550720}{21841}\}, \{23., \frac{3507650}{21841}\}, \{22., \frac{3466405}{21841}\}, \{21., \frac{3426985}{21841}\},
                                                        \{20., \frac{21841}{3389025}\}, \{19., \frac{21841}{3352525}\}, \{18., \frac{21841}{3317120}\}, \{17., \frac{3283175}{21841}\},
                                                        \{16.,\ \frac{3\,250\,690}{21\,841}\}\text{, }\{15.,\ \frac{3\,218\,935}{21\,841}\}\text{, }\{14.,\ \frac{3\,188\,640}{21\,841}\}\text{, }\{13.,\ \frac{3\,159\,075}{21\,841}\}
                                                         \{12., \frac{3130605}{21841}\}, \{11., \frac{3102865}{21841}\}, \{10., \frac{3076220}{21841}\}, \{9., \frac{3050305}{21841}\}, \{8., \frac{3025485}{21841}\}, \{7., \frac{3001030}{21841}\}, \{9., \frac{307670}{21841}\}, \{9., \frac{3050305}{21841}\}, \{10., \frac{3025485}{21841}\}, \{10., \frac{3025485}, \frac{3025485}{21841}\}, \{10., \frac{3025485}{21841}\}, \{10., \frac{3
                                                        \{8., \frac{3025485}{21841}\}, \{7., \frac{3001030}{21841}\}, \{6., \frac{2977670}{21841}\}, \{5., \frac{2954675}{21841}\}, \{4., \frac{2932410}{21841}\},
                                                                                            \frac{21841}{2910875}\}, \{2., \frac{2889705}{21841}\}, \{1., \frac{2869265}{21841}\}, \{0., \frac{2849555}{21841}\}\}
```

In[666]:= imagePadding = {{80, 15}, {73, 7.5}};

```
AspectRatio \rightarrow 0.75, ImageSize \rightarrow 400, PlotRange \rightarrow {All, {0, 102.5}},
      AxesOrigin \rightarrow \{0, 0\}, Frame \rightarrow \{\{True, False\}\}, \{True, False\}\},
      FrameStyle → Directive[Black, 17], PlotRangePadding → None,
      PlotStyle \rightarrow \{\{Thickness[0.01], RGBColor[248 / 255, 196 / 255, 0]\},\
             {Thickness[0.01], RGBColor[26/255, 94/255, 214/255]},
             {Thickness[0.01], RGBColor[192/255, 0, 120/255]}},
      PlotLabel → Style[Row[{"Mask-wearing"}], 17, Black],
      ImagePadding → imagePadding,
      FrameLabel → {{"Relative reduction in\npeak number of diagnoses (%)", None},
             {"Efficacy of mask-wearing (%)", None}}]
Export[StringJoin[
         "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
               Resubmission//FinalFigures//SS25", ".pdf"], SS25];
Export[StringJoin[
          "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
               Resubmission//FinalFigures//SS25", ".eps"], SS25];
SS26 =
  ListLinePlot[{AttackRateMaskBaseline, AttackRateMaskMin, AttackRateMaskMax},
      AspectRatio \rightarrow 0.75, ImageSize \rightarrow 400, PlotRange \rightarrow {All, {-0.5, 20}},
      AxesOrigin \rightarrow \{0, 0\}, Filling \rightarrow \{1 \rightarrow \{2\}\}, Frame \rightarrow \{\{True, False\}, \{True, False\}\}, \{True, False\}, \{True, False}, \{True, False\}, \{True, False}, \{True, False
      FrameStyle → Directive[Black, 17], PlotRangePadding → None,
      PlotStyle \rightarrow \{\{Thickness[0.01], RGBColor[248 / 255, 196 / 255, 0]\},\
             {Thickness[0.01], RGBColor[26/255, 94/255, 214/255]},
             {Thickness[0.01], RGBColor[192/255, 0, 120/255]}},
      PlotLabel → Style[Row[{"Mask-wearing"}], 17, Black],
      ImagePadding → imagePadding, FrameLabel →
         {{"Attack rate (%)", None}, {"Efficacy of mask-wearing (%)", None}}]
Export[StringJoin[
          "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
               Resubmission//FinalFigures//SS26", ".pdf"], SS26];
Export[StringJoin[
          "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
               Resubmission//FinalFigures//SS26", ".eps"], SS26];
SS27 =
  ListLinePlot[{PeakTimingMaskBaseline, PeakTimingMaskMin, PeakTimingMaskMax},
      AspectRatio \rightarrow 0.75, ImageSize \rightarrow 400, PlotRange \rightarrow {All, {0, 365 \times 5 / 2 + 20}},
      AxesOrigin \rightarrow \{0, 0\}, Frame \rightarrow \{\{True, False\}, \{True, False\}\},\
      FrameStyle → Directive[Black, 17], PlotMarkers → {"", "", "",
            \label{eq:graphics} $$ \operatorname{Graphics}\left[\left\{\operatorname{RGBColor}\left[28 \ / \ 255, \ 162 \ / \ 255, \ 0\right], \ \operatorname{Thick}, \ \operatorname{Circle}\left[\right]\right\}, \ \operatorname{ImageSize} \to 10\right], $$
            Graphics[{RGBColor[185 / 255, 76 / 255, 225 / 255], Thick, Circle[]},
               ImageSize \rightarrow 10], ""},
       PlotStyle \rightarrow \{\{Thickness[0.01], RGBColor[248 / 255, 196 / 255, 0]\}, 
             {Thickness[0.01], RGBColor[26/255, 94/255, 214/255]},
             {Thickness[0.01], RGBColor[192/255, 0, 120/255]}},
      FrameLabel → {{"Time until the peak\nof diagnoses (months)", None},
            {"Efficacy of mask-wearing (%)", None}},
      ImagePadding → imagePadding, PlotRangePadding → None,
      PlotLabel → Style[Row[{"Mask-wearing"}], 17, Black], PlotLegends → LineLegend[
            Table[Style[Row[{label}], Black, 13, "Text"], {label, {"2.5", "2", "3"}}],
            LegendLabel → Style["Basic reproduction number", Black, 13, "Text"]],
      \label{eq:frameTicks} \textbf{FrameTicks} \rightarrow \{ \{ \{ \{0\,,\,"0"\} \,,\, \{ 365\,/\,2\,,\,"6" \} \,,\, \{ 365\,,\,"12" \} \,,\, \{ 365\,\times\,2\,,\,"24" \} \,,\,"24"\,\times\,2\,,\,"24" \} \,,\, \{ 365\,\times\,2\,,\,"24
                  \{365 \times 3 / 2, "18"\}, \{365 \times 5 / 2, "30"\}\}, None\}, \{Automatic, None\}\}
Export[StringJoin[
         "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
               Resubmission//FinalFigures//SS27", ".pdf"], SS27];
Export[StringJoin[
         "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
               Resubmission//FinalFigures//SS27", ".eps"], SS27];
```







 $ln[726] = t_{end} = 1.5;$ ReductionFactor = Table[i, {i, 0, 1, 0.01}];

PeakGovBaseline =

PeakRange["ContactReductionGovernment", Join[ParametersSensitivityAnalyses[RelativeInfectivityBaseline, ProportionMildSymptomsBaseline, RecoveryRateMildSymptomsBaseline, DiagnosisRateBaseline, BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline, RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline, RateAwarenessFadingSevereSymptomsBaseline, AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline, StartTimeBaseline], $\{r_4 \rightarrow factor\}$]]

PeakGovMin =

PeakRange ["ContactReductionGovernment", Join [ParametersSensitivityAnalyses [RelativeInfectivityBaseline, ProportionMildSymptomsBaseline, RecoveryRateMildSymptomsBaseline, DiagnosisRateBaseline, BasicReproductionNumberMin, RelativeSusceptibilityAwarenessBaseline, RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline, RateAwarenessFadingSevereSymptomsBaseline, AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline, StartTimeBaseline], $\{r_4 \rightarrow factor\}$]

PeakGovMax =

PeakRange["ContactReductionGovernment", Join[ParametersSensitivityAnalyses[RelativeInfectivityBaseline, ProportionMildSymptomsBaseline, RecoveryRateMildSymptomsBaseline, DiagnosisRateBaseline, BasicReproductionNumberMax, RelativeSusceptibilityAwarenessBaseline, RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline, RateAwarenessFadingSevereSymptomsBaseline, AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline, StartTimeBaseline], $\{r_4 \rightarrow factor\}$]

AttackRateGovBaseline = AttackRateRange[

"ContactReductionGovernment", Join[ParametersSensitivityAnalyses[RelativeInfectivityBaseline, ProportionMildSymptomsBaseline, RecoveryRateMildSymptomsBaseline, DiagnosisRateBaseline, BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline, RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,

```
RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_4 \rightarrow factor\}]
AttackRateGovMin = AttackRateRange[
  "ContactReductionGovernment", Join[ParametersSensitivityAnalyses[
    RelativeInfectivityBaseline, ProportionMildSymptomsBaseline,
    RecoveryRateMildSymptomsBaseline, DiagnosisRateBaseline,
    BasicReproductionNumberMin, RelativeSusceptibilityAwarenessBaseline,
    RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_4 \rightarrow factor\}]]
AttackRateGovMax = AttackRateRange[
  "ContactReductionGovernment", Join[ParametersSensitivityAnalyses[
    RelativeInfectivityBaseline, ProportionMildSymptomsBaseline,
    RecoveryRateMildSymptomsBaseline, DiagnosisRateBaseline,
    BasicReproductionNumberMax, RelativeSusceptibilityAwarenessBaseline,
    RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_4 \rightarrow factor\}]]
PeakTimingGovBaseline = PeakTimingRange[
  "ContactReductionGovernment", Join[ParametersSensitivityAnalyses[
    RelativeInfectivityBaseline, ProportionMildSymptomsBaseline,
    RecoveryRateMildSymptomsBaseline, DiagnosisRateBaseline,
    BasicReproductionNumberBaseline, RelativeSusceptibilityAwarenessBaseline,
    RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_4 \rightarrow factor\}]]
PeakTimingGovMin = PeakTimingRange[
  "ContactReductionGovernment", Join[ParametersSensitivityAnalyses[
    RelativeInfectivityBaseline, ProportionMildSymptomsBaseline,
    {\tt RecoveryRateMildSymptomsBaseline, DiagnosisRateBaseline,}
    {\tt BasicReproductionNumberMin, RelativeSusceptibilityAwarenessBaseline,}
    {\tt RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,}
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_4 \rightarrow factor\}]]
PeakTimingGovMax = PeakTimingRange[
  "ContactReductionGovernment", Join[ParametersSensitivityAnalyses[
    {\tt RelativeInfectivityBaseline, ProportionMildSymptomsBaseline,}
    RecoveryRateMildSymptomsBaseline, DiagnosisRateBaseline,
    BasicReproductionNumberMax, RelativeSusceptibilityAwarenessBaseline,
    {\tt RateAwarenessFadingSusceptibleExposedMildSymptomsBaseline,}
    RateAwarenessFadingSevereSymptomsBaseline,
    AcquisitionRateAwarenessBaseline, DiagnosisRateAwareBaseline,
    StartTimeBaseline], \{r_4 \rightarrow factor\}]
```

```
95., 19.1865}, {94., 19.1865}, {93., 19.1865}, {92., 19.1866}, {91., 19.1866},
              90., 19.1867}, {89., 19.1868}, {88., 19.1869}, {87., 19.187}, {86., 19.187},
              85., 19.1871}, \{84., 19.1872}, \{83., 19.1873}, \{82., 19.1874}, \{81., 19.1875},
             [80., 19.1876], {79., 19.1878}, {78., 19.1879}, {77., 19.1881}, {76., 19.1883},
             \{75., 19.1885\}, \{74., 19.1887\}, \{73., 19.1889\}, \{72., 19.1892\}, \{71., 19.1895\},
             {70., 19.1898}, {69., 19.1902}, {68., 19.1905}, {67., 19.1909}, {66., 19.1914},
             {65., 19.1919}, {64., 19.1925}, {63., 19.1931}, {62., 19.1938}, {61., 19.1946},
             \{60., 19.1955\}, \{59., 19.1964\}, \{58., 19.1974\}, \{57., 19.1986\}, \{56., 19.1999\},
              55., 19.2013}, {54., 19.2028}, {53., 19.2045}, {52., 19.2064}, {51., 19.2085},
             \{50., 19.2108\}, \{49., 19.2133\}, \{48., 19.2161\}, \{47., 19.2192\}, \{46., 19.2225\},
             \{45., 19.2263\}, \{44., 19.2304\}, \{43., 19.2349\}, \{42., 19.2399\}, \{41., 19.2454\},
             {40., 19.2514}, {39., 19.2581}, {38., 19.2654}, {37., 19.2734}, {36., 19.2822},
             {35., 19.2918}, {34., 19.3023}, {33., 19.3137}, {32., 19.3263}, {31., 19.3398},
             \{30., 19.3546\}, \{29., 19.3705\}, \{28., 19.3877\}, \{27., 19.4063\}, \{26., 19.4262\},
             \{25., 19.4475\}, \{24., 19.4702\}, \{23., 19.4943\}, \{22., 19.5197\},
             \{21., 19.5465\}, \{20., 19.5743\}, \{19., 19.6032\}, \{18., 19.6328\},
             \{17., 19.6628\}, \{16., 19.6929\}, \{15., 19.7226\}, \{14., 19.7511\},
             \{13., 19.7779\}, \{12., 19.8019\}, \{11., 19.8219\}, \{10., 19.8368\},
             {9., 19.8448}, {8., 19.8442}, {7., 19.8326}, {6., 19.8076}, {5., 19.7663},
            \{4., 19.7055\}, \{3., 19.6212\}, \{2., 19.5093\}, \{1., 19.3653\}, \{0., 19.1837\}\}
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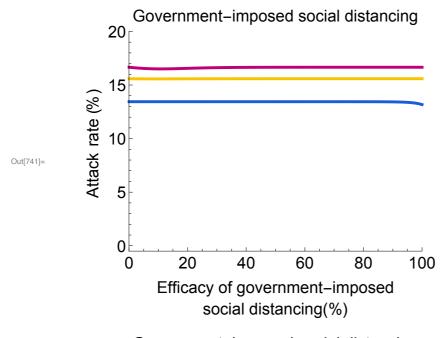
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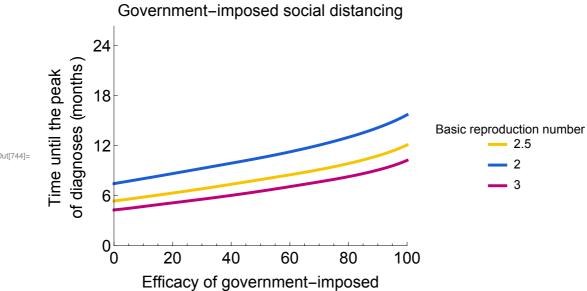
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                       {70., 13.4441}, {69., 13.4442}, {68., 13.4442}, {67., 13.4443}, {66., 13.4443},
                         [65., 13.4443], {64., 13.4443}, {63., 13.4444}, {62., 13.4444}, {61., 13.4444},
                         [60., 13.4444], {59., 13.4444}, {58., 13.4444}, {57., 13.4444}, {56., 13.4444},
                         55., 13.4444}, {54., 13.4444}, {53., 13.4444}, {52., 13.4444}, {51., 13.4444},
                       \{50., 13.4444\}, \{49., 13.4444\}, \{48., 13.4444\}, \{47., 13.4444\}, \{46., 13.4444\},
                       {45., 13.4444}, {44., 13.4444}, {43., 13.4444}, {42., 13.4443}, {41., 13.4443},
                       {40., 13.4443}, {39., 13.4443}, {38., 13.4443}, {37., 13.4443}, {36., 13.4442},
                       \{35., 13.4442\}, \{34., 13.4442\}, \{33., 13.4442\}, \{32., 13.4441\},
                       {31., 13.4441}, {30., 13.4441}, {29., 13.4441}, {28., 13.444}, {27., 13.444},
                       {26., 13.444}, {25., 13.4439}, {24., 13.4439}, {23., 13.4438}, {22., 13.4438},
                       \{21., 13.4438\}, \{20., 13.4437\}, \{19., 13.4437\}, \{18., 13.4437\},
                       \{17., 13.4436\}, \{16., 13.4436\}, \{15., 13.4435\}, \{14., 13.4435\},
                       \{13., 13.4435\}, \{12., 13.4435\}, \{11., 13.4435\}, \{10., 13.4435\},
                       {9., 13.4435}, {8., 13.4435}, {7., 13.4435}, {6., 13.4436}, {5., 13.4437},
                       \{4., 13.4438\}, \{3., 13.4439\}, \{2., 13.4441\}, \{1., 13.4443\}, \{0., 13.4446\}\}
\mathsf{Out}_{[733]} = \{\{100., 16.6592\}, \{99., 16.6592\}, \{98., 16.6592\}, \{97., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.6592\}, \{96., 16.
                         95., 16.6592}, {94., 16.6592}, {93., 16.6592}, {92., 16.6592}, {91., 16.6592},
                         90., 16.6592}, {89., 16.6591}, {88., 16.6591}, {87., 16.6591}, {86., 16.6591},
                         85., 16.6591, \{84., 16.6591\}, \{83., 16.6591\}, \{82., 16.6591\}, \{81., 16.6591\},
                         80., 16.6591}, {79., 16.6591}, {78., 16.6591}, {77., 16.659}, {76., 16.659},
                       {75., 16.659}, {74., 16.659}, {73., 16.659}, {72., 16.659}, {71., 16.6589},
                       {70., 16.6589}, {69., 16.6589}, {68., 16.6588}, {67., 16.6588}, {66., 16.6587},
                       {65., 16.6587}, {64., 16.6586}, {63., 16.6585}, {62., 16.6585}, {61., 16.6584},
                       {60., 16.6583}, {59., 16.6581}, {58., 16.658}, {57., 16.6579}, {56., 16.6577},
                       {55., 16.6575}, {54., 16.6572}, {53., 16.657}, {52., 16.6567}, {51., 16.6564},
                       {50., 16.656}, {49., 16.6555}, {48., 16.655}, {47., 16.6545}, {46., 16.6538},
                       {45., 16.6531}, {44., 16.6523}, {43., 16.6513}, {42., 16.6502}, {41., 16.649},
                       {40., 16.6477}, {39., 16.6462}, {38., 16.6444}, {37., 16.6425}, {36., 16.6403},
                       {35., 16.6379}, {34., 16.6352}, {33., 16.6322}, {32., 16.6288}, {31., 16.6251},
                       {30., 16.6211}, {29., 16.6166}, {28., 16.6117}, {27., 16.6063}, {26., 16.6005},
                       {25., 16.5943}, {24., 16.5876}, {23., 16.5806}, {22., 16.5731},
                       {21., 16.5654}, {20., 16.5575}, {19., 16.5494}, {18., 16.5414},
                       \{17., 16.5336\}, \{16., 16.5263\}, \{15., 16.5196\}, \{14., 16.5138\},
                       \{13., 16.5093\}, \{12., 16.5063\}, \{11., 16.5051\}, \{10., 16.5059\},
                       \{9., 16.5092\}, \{8., 16.5149\}, \{7., 16.5234\}, \{6., 16.5348\}, \{5., 16.549\},
                       \{4., 16.566\}, \{3., 16.5857\}, \{2., 16.608\}, \{1., 16.6326\}, \{0., 16.6593\}\}
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Out[734] = \{\{100., 366.872\}, \{99., 361.959\}, \{98., 357.313\}, \{97., 352.968\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\}, \{96., 348.824\},
                         95., 344.88}, {94., 341.103}, {93., 337.46}, {92., 333.985}, {91., 330.609},
                         90., 327.367}, {89., 324.225}, {88., 321.151}, {87., 318.209}, {86., 315.302},
                         85., 312.494\}, \{84., 309.754\}, \{83., 307.08\}, \{82., 304.473\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}, \{81., 301.933\}
                         [80., 299.426], {79., 296.987}, {78., 294.614}, {77., 292.274}, {76., 289.968},
                       {75., 287.729}, {74., 285.523}, {73., 283.35}, {72., 281.211}, {71., 279.139},
                       {70., 277.101}, {69., 275.095}, {68., 273.09}, {67., 271.151}, {66., 269.246},
                       {65., 267.341}, {64., 265.503}, {63., 263.665}, {62., 261.827}, {61., 260.055},
                       {60., 258.251}, {59., 256.479}, {58., 254.741}, {57., 253.003}, {56., 251.265},
                         55., 249.528}, {54., 247.79}, {53., 246.052}, {52., 244.314}, {51., 242.609},
                       \{50., 240.871\}, \{49., 239.133\}, \{48., 237.429\}, \{47., 235.691\}, \{46., 233.986\},
                       {45., 232.248}, {44., 230.544}, {43., 228.839}, {42., 227.135}, {41., 225.464},
                       \{40., 223.759\}, \{39., 222.088\}, \{38., 220.417\}, \{37., 218.746\}, \{36., 217.108\},
                       \{35., 215.471\}, \{34., 213.833\}, \{33., 212.195\}, \{32., 210.591\},
                       \{31., 208.953\}, \{30., 207.383\}, \{29., 205.778\}, \{28., 204.207\},
                       {27., 202.637}, {26., 201.066}, {25., 199.495}, {24., 197.958}, {23., 196.42},
                       \{22., 194.883\}, \{21., 193.379\}, \{20., 191.841\}, \{19., 190.337\},
                       \{18., 188.833\}, \{17., 187.363\}, \{16., 185.859\}, \{15., 184.388\},
                       \{14., 182.918\}, \{13., 181.447\}, \{12., 180.01\}, \{11., 178.54\}, \{10., 177.102\},
                       \{9., 175.665\}, \{8., 174.195\}, \{7., 172.758\}, \{6., 171.354\}, \{5., 169.917\},
                       \{4., 168.48\}, \{3., 167.076\}, \{2., 165.639\}, \{1., 164.235\}, \{0., 162.798\}\}
Out[735] = \{\{100., 476.93\}, \{99., 471.248\}, \{98., 465.834\}, \{97., 460.687\}, \{96., 455.74\}, \{96., 455.74\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96., 476.93\}, \{96
                         95., 450.994}, {94., 446.449}, {93., 442.071}, {92., 437.826}, {91., 433.715},
                         90., 429.705}, {89., 425.828}, {88., 422.085}, {87., 418.408}, {86., 414.832},
                         85., 411.323}, {84., 407.914}, {83., 404.571}, {82., 401.296}, {81., 398.088},
                         80., 394.946}, {79., 391.871}, {78., 388.863}, {77., 385.889}, {76., 382.948},
                       {75., 380.073}, {74., 377.266}, {73., 374.492}, {72., 371.751}, {71., 369.044},
                       {70., 366.404}, {69., 363.763}, {68., 361.19}, {67., 358.65}, {66., 356.143},
                       {65., 353.703}, {64., 351.264}, {63., 348.857}, {62., 346.484}, {61., 344.145},
                       {60., 341.839}, {59., 339.533}, {58., 337.293}, {57., 335.054}, {56., 332.882},
                       {55., 330.709}, {54., 328.57}, {53., 326.431}, {52., 324.326}, {51., 322.253},
                       {50., 320.215}, {49., 318.176}, {48., 316.171}, {47., 314.165}, {46., 312.193},
                       {45., 310.222}, {44., 308.283}, {43., 306.345}, {42., 304.406}, {41., 302.501},
                       {40., 300.596}, {39., 298.691}, {38., 296.786}, {37., 294.881}, {36., 293.009},
                       {35., 291.104}, {34., 289.199}, {33., 287.328}, {32., 285.423}, {31., 283.518},
                       {30., 281.646}, {29., 279.741}, {28., 277.836}, {27., 275.964},
                       {26., 274.059}, {25., 272.188}, {24., 270.282}, {23., 268.411},
                       {22., 266.506}, {21., 264.634}, {20., 262.763}, {19., 260.891},
                       \{18., 259.019\}, \{17., 257.148\}, \{16., 255.276\}, \{15., 253.438\},
                       \{14., 251.566\}, \{13., 249.728\}, \{12., 247.89\}, \{11., 246.052\}, \{10., 244.247\},
                       \{9., 242.409\}, \{8., 240.604\}, \{7., 238.799\}, \{6., 236.994\}, \{5., 235.19\},
                       \{4., 233.385\}, \{3., 231.613\}, \{2., 229.842\}, \{1., 228.071\}, \{0., 226.299\}\}
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Out[736] = \{\{100., 310.89\}, \{99., 306.345\}, \{98., 302.167\}, \{97., 298.223\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, \{96., 294.513\}, 
             95., 291.004}, {94., 287.662}, {93., 284.453}, {92., 281.412}, {91., 278.471},
             90., 275.63}, {89., 272.889}, {88., 270.216}, {87., 267.642}, {86., 265.169},
             85., 262.729, \{84., 260.39, \{83., 258.084\}, \{82., 255.844\}, \{81., 253.672\},
            {80., 251.533}, {79., 249.461}, {78., 247.455}, {77., 245.45}, {76., 243.512},
            \{75., 241.607\}, \{74., 239.735\}, \{73., 237.897\}, \{72., 236.092\}, \{71., 234.287\},
            \{70., 232.516\}, \{69., 230.744\}, \{68., 229.007\}, \{67., 227.269\}, \{66., 225.531\},
            {65., 223.793}, {64., 222.055}, {63., 220.35}, {62., 218.612}, {61., 216.908},
             [60., 215.203], {59., 213.499}, {58., 211.794}, {57., 210.123},
             56., 208.419}, {55., 206.781}, {54., 205.11}, {53., 203.472}, {52., 201.868},
             [51., 200.23], {50., 198.659}, {49., 197.055}, {48., 195.484}, {47., 193.914},
            {46., 192.376}, {45., 190.839}, {44., 189.335}, {43., 187.831}, {42., 186.327},
            {41., 184.823}, {40., 183.352}, {39., 181.915}, {38., 180.478}, {37., 179.041},
            {36., 177.604}, {35., 176.2}, {34., 174.796}, {33., 173.426}, {32., 172.022},
            \{31., 170.652\}, \{30., 169.315\}, \{29., 167.978\}, \{28., 166.608\},
            \{27., 165.304\}, \{26., 163.968\}, \{25., 162.664\}, \{24., 161.327\},
            {23., 160.024}, {22., 158.72}, {21., 157.417}, {20., 156.113}, {19., 154.81},
            {18., 153.507}, {17., 152.203}, {16., 150.9}, {15., 149.563}, {14., 148.226},
            \{13., 146.889\}, \{12., 145.552\}, \{11., 144.215\}, \{10., 142.845\},
            {9., 141.475}, {8., 140.138}, {7., 138.801}, {6., 137.464}, {5., 136.161},
            \{4., 134.924\}, \{3., 133.721\}, \{2., 132.584\}, \{1., 131.515\}, \{0., 130.479\}\}
ln[737] = imagePadding = { {80, 15}, {73, 7.5} };
          SS28 = ListLinePlot[{PeakGovBaseline, PeakGovMin, PeakGovMax},
              AspectRatio \rightarrow 0.75, ImageSize \rightarrow 400, PlotRange \rightarrow {All, {-5, 102.5}},
              AxesOrigin \rightarrow \{0, 0\}, Frame \rightarrow \{\{True, False\}, \{True, False\}\},
              FrameStyle → Directive[Black, 17], PlotRangePadding → None,
              PlotStyle \rightarrow \{\{Thickness[0.01], RGBColor[248 / 255, 196 / 255, 0]\},\
                  {Thickness[0.01], RGBColor[26 / 255, 94 / 255, 214 / 255]},
                  {Thickness[0.01], RGBColor[192/255, 0, 120/255]}},
              PlotLabel → Style[Row[{"Government-imposed social distancing"}], 17, Black],
              ImagePadding → imagePadding,
              FrameLabel → {{"Relative reduction in\npeak number of diagnoses (%)", None},
                  {"Efficacy of government-imposed\nsocial distancing(%)", None}}]
         Export[StringJoin[
                //Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine/
                   Resubmission//FinalFigures//SS28", ".pdf"], SS28];
         Export[StringJoin[
                "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
                   Resubmission//FinalFigures//SS28", ".eps"], SS28];
          SS29 = ListLinePlot[{AttackRateGovBaseline, AttackRateGovMin, AttackRateGovMax},
              AspectRatio \rightarrow 0.75, ImageSize \rightarrow 400, PlotRange \rightarrow {All, \{-0.5, 20\}\},
              AxesOrigin \rightarrow {0, 0}, Filling \rightarrow {1 \rightarrow {2}}, Frame \rightarrow {{True, False}, {True, False}},
              FrameStyle → Directive[Black, 17], PlotRangePadding → None,
              PlotStyle \rightarrow \{\{Thickness[0.01], RGBColor[248 / 255, 196 / 255, 0]\},\
                  {Thickness[0.01], RGBColor[26 / 255, 94 / 255, 214 / 255]},
                  {Thickness[0.01], RGBColor[192/255, 0, 120/255]}},
              PlotLabel → Style[Row[{"Government-imposed social distancing"}], 17, Black],
              \label{local_local_local_local} \mbox{ImagePadding} \rightarrow \mbox{imagePadding}, \mbox{ FrameLabel} \rightarrow \mbox{ $\{\{$"Attack rate $(\%)$ ", None}\}$,
                  {\tt "Efficacy \ of \ government-imposed \ nsocial \ distancing (\%) ", None}\}]
          Export[StringJoin[
                "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
                   Resubmission//FinalFigures//SS29", ".pdf"], SS29];
         Export[StringJoin[
                "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
                   Resubmission//FinalFigures//SS29", ".eps"], SS29];
```

```
SS30 = ListLinePlot[{PeakTimingGovBaseline, PeakTimingGovMin, PeakTimingGovMax},
                     AspectRatio \rightarrow 0.75, ImageSize \rightarrow 400, PlotRange \rightarrow {All, {0, 800}},
                      AxesOrigin \rightarrow \{0, 0\}, Frame \rightarrow \{\{True, False\}, \{True, False\}\},
                      FrameStyle → Directive[Black, 17], PlotMarkers → {"", "", '
                            Graphics[{RGBColor[28 / 255, 162 / 255, 0], Thick, Circle[]}, ImageSize \rightarrow 10],
                            Graphics [{RGBColor[185/255, 76/255, 225/255], Thick, Circle[]},
                               ImageSize \rightarrow 10], ""},
                      PlotStyle \rightarrow {{Thickness[0.01], RGBColor[248 / 255, 196 / 255, 0]},
                             {Thickness[0.01], RGBColor[26 / 255, 94 / 255, 214 / 255]},
                             {Thickness[0.01], RGBColor[192/255, 0, 120/255]}},
                      FrameLabel → {{"Time until the peak\nof diagnoses (months)", None},
                             {"Efficacy of government-imposed\nsocial distancing(%)", None}},
                      ImagePadding → imagePadding, PlotRangePadding → None,
                      PlotLabel → Style[Row[{"Government-imposed social distancing"}], 17, Black],
                      PlotLegends → LineLegend[
                            Table[Style[Row[{label}], Black, 13, "Text"], {label, {"2.5", "2", "3"}}],
                            LegendLabel → Style["Basic reproduction number", Black, 13, "Text"]],
                      \label{eq:frameTicks} \textbf{FrameTicks} \rightarrow \{ \{ \{ \{0\,,\,\,^{"}0\,^{"}\} \,,\,\, \{ 365\,/\,\,2\,,\,\,^{"}6\,^{"} \} \,,\,\, \{ 365\,,\,\,^{"}12\,^{"} \} \,,\,\, \{ 365\,\times\,2\,,\,\,^{"}24\,^{"} \} \,,\,\, \{ 365\,,\,\,^{"}12\,^{"} \} \,,\,\, \{ 365\,,\,\,^{"}12\,^{"} \} \,,\,\, \{ 365\,,\,\,^{"}12\,^{"} \} \,,\,\, \{ 365\,,\,\,^{"}12\,^{"} \} \,,\,\, \{ 365\,,\,\,^{"}12\,^{"} \} \,,\,\, \{ 365\,,\,\,^{"}12\,^{"} \} \,,\,\, \{ 365\,,\,\,^{"}12\,^{"} \} \,,\,\, \{ 365\,,\,\,^{"}12\,^{"} \} \,,\,\, \{ 365\,,\,\,^{"}12\,^{"} \} \,,\,\, \{ 365\,,\,\,^{"}12\,^{"} \} \,,\,\, \{ 365\,,\,\,^{"}12\,^{"} \} \,,\,\, \{ 365\,,\,\,^{"}12\,^{"} \} \,,\,\, \{ 365\,,\,\,^{"}12\,^{"} \} \,,\,\, \{ 365\,,\,\,^{"}12\,^{"} \} \,,\,\, \{ 365\,,\,\,^{"}12\,^{"} \} \,,\,\, \{ 365\,,\,\,^{"}12\,^{"} \} \,,\,\, \{ 365\,,\,\,^{"}12\,^{"} \} \,,\,\, \{ 365\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,^{"}12\,,\,\,
                                   \{365 \times 3 / 2, "18"\}\}, None, {Automatic, None}}
                Export[StringJoin[
                          "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
                               Resubmission//FinalFigures//SS30", ".pdf"], SS30];
                Export[StringJoin[
                          "//Users//LynxGAV//Documents//Work//CoronaLadies//Submission//PlosMedicine//
                               Resubmission//FinalFigures//SS30", ".eps"], SS30];
                                               Government-imposed social distancing
                                  100
                         peak number of diagnoses
                Relative reduction in
                                     80
                                     60
                                     40
Out[738]=
                                     20
                                        0
                                           0
                                                                20
                                                                                       40
                                                                                                             60
                                                                                                                                    80
                                                                                                                                                         100
                                                        Efficacy of government-imposed
                                                                          social distancing(%)
```





social distancing(%)