```
                                          First-Order↙
Norm of
 Iteration  Func-count     Residual       optimality      Lambda↙
step
     0           4       0.0694079           0.316         0.01
     1           8      6.73034e-05          0.0176        0.001↙
0.243741
     2          12      4.64754e-10         4.13e-05       0.0001↙
0.00628919
     3          16      3.75398e-18         1.42e-09        1e-05↙
1.8289e-05
     4          20       4.6218e-28         1.42e-14        1e-06↙
2.04729e-09

Equation solved.

fsolve completed because the vector of function values is near zero
as measured by the value of the function tolerance, and
the problem appears regular as measured by the gradient.

<stopping criteria details>
Max. abs. error in calibration targets:1.6931e-14


pis1 =

   7.8215e-08


pis2 =

   1.2411e-04


pis3 =

    0.3892


RnotSIR =

    1.4998
```

Iteration	Func-count	Residual	First-Order optimality	Lambda	Norm of step
0	1751	6.47073e+07	3.45e+05	0.01	
1	3502	784307	3.41e+04	0.001	39.2675
2	5253	176.098	584	0.0001	5.38923
3	7004	0.000851385	0.205	1e-05	0.774548
4	8756	0.000727077	0.0221	0.0001	0.722836
5	10507	0.000631612	0.0191	1e-05	0.677187
6	12259	0.000547994	0.0165	0.0001	0.633777
7	14010	0.00047488	0.0142	1e-05	0.59264
8	15761	0.00044868	0.444	1e-06	3.40563
9	17512	0.000436377	0.522	1e-07	3.92427
10	19263	5.44507e-08	0.00571	1e-08	0.430046
11	21014	9.13064e-16	6.18e-07	1e-09	0.00465893

Equation solved.

fsolve completed because the vector of function values is near zero
as measured by the value of the function tolerance, and
the problem appears regular as measured by the gradient.

<stopping criteria details>
Equation solved. First Order Optimality is Small
Max. abs. error in equilib. equations:7.7574e-09

aggCons_trough_percent =

  -12.0319

```
aggCons_avg_first_year_percent =

   -6.4776


terminal_one_minus_susceptibles_percent =

   53.0941


peak_infection_percent =

    5.1683


terminal_death_share_percent =

    0.1327


terminal_number_deaths_US_millions =

    0.4380

Elapsed time is 76.836270 seconds.
>>
```