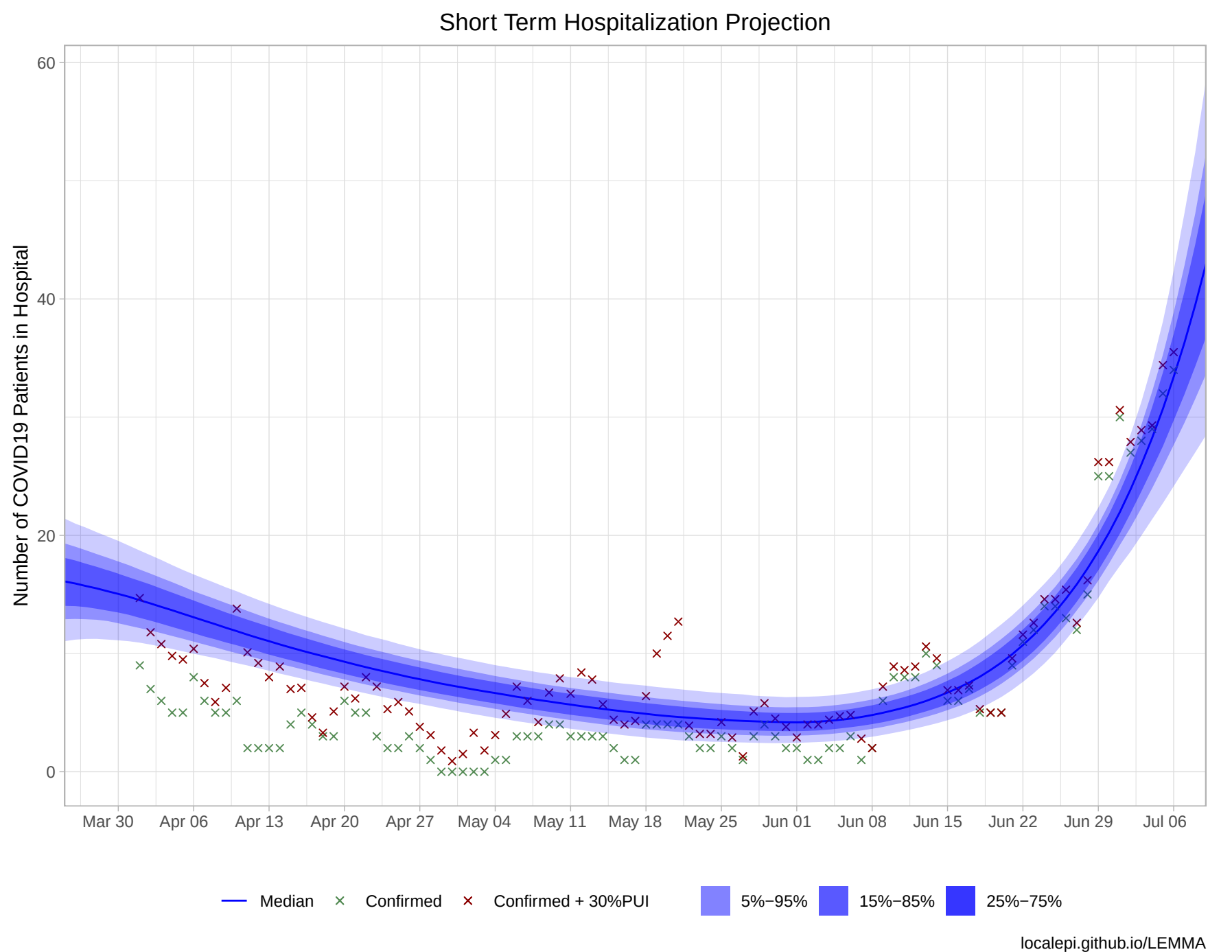
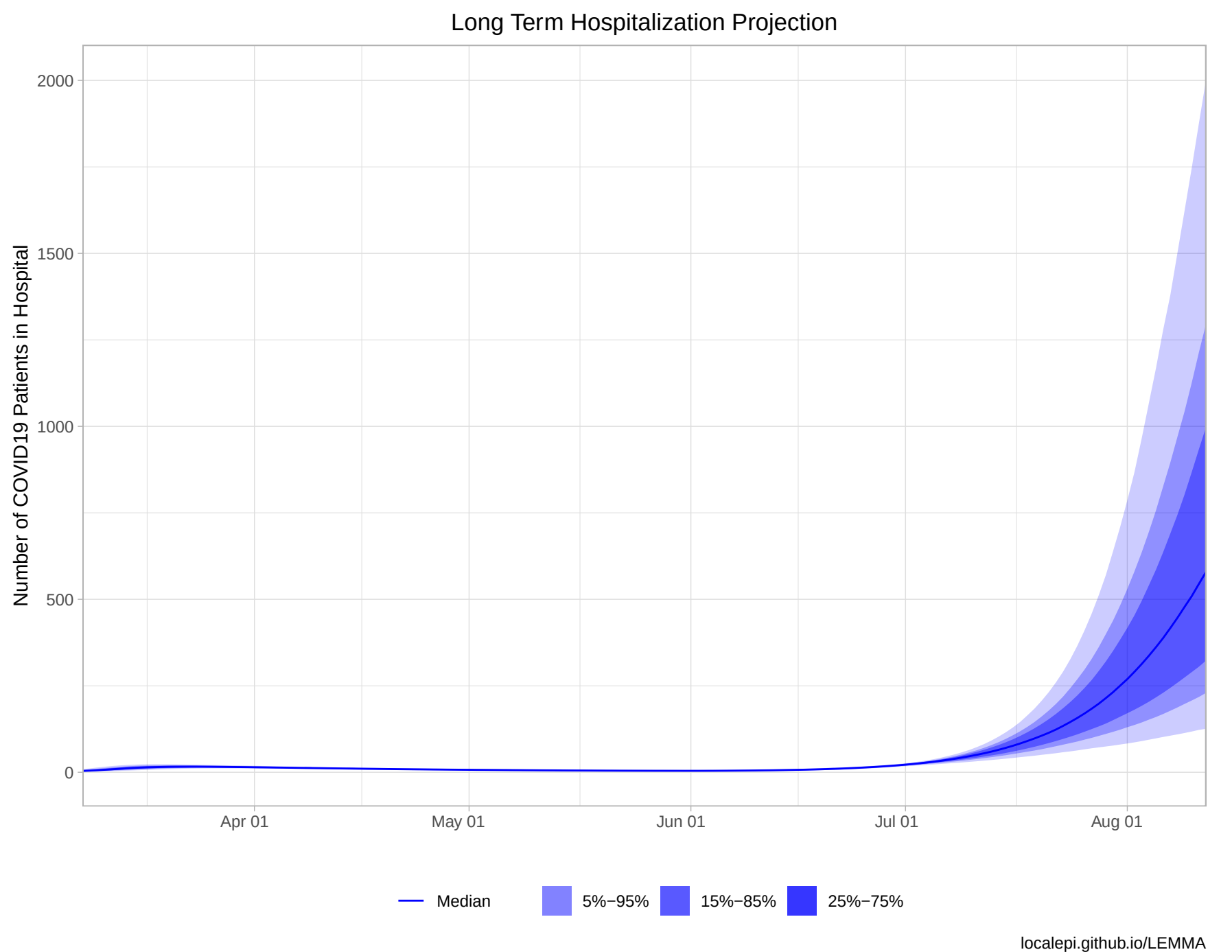
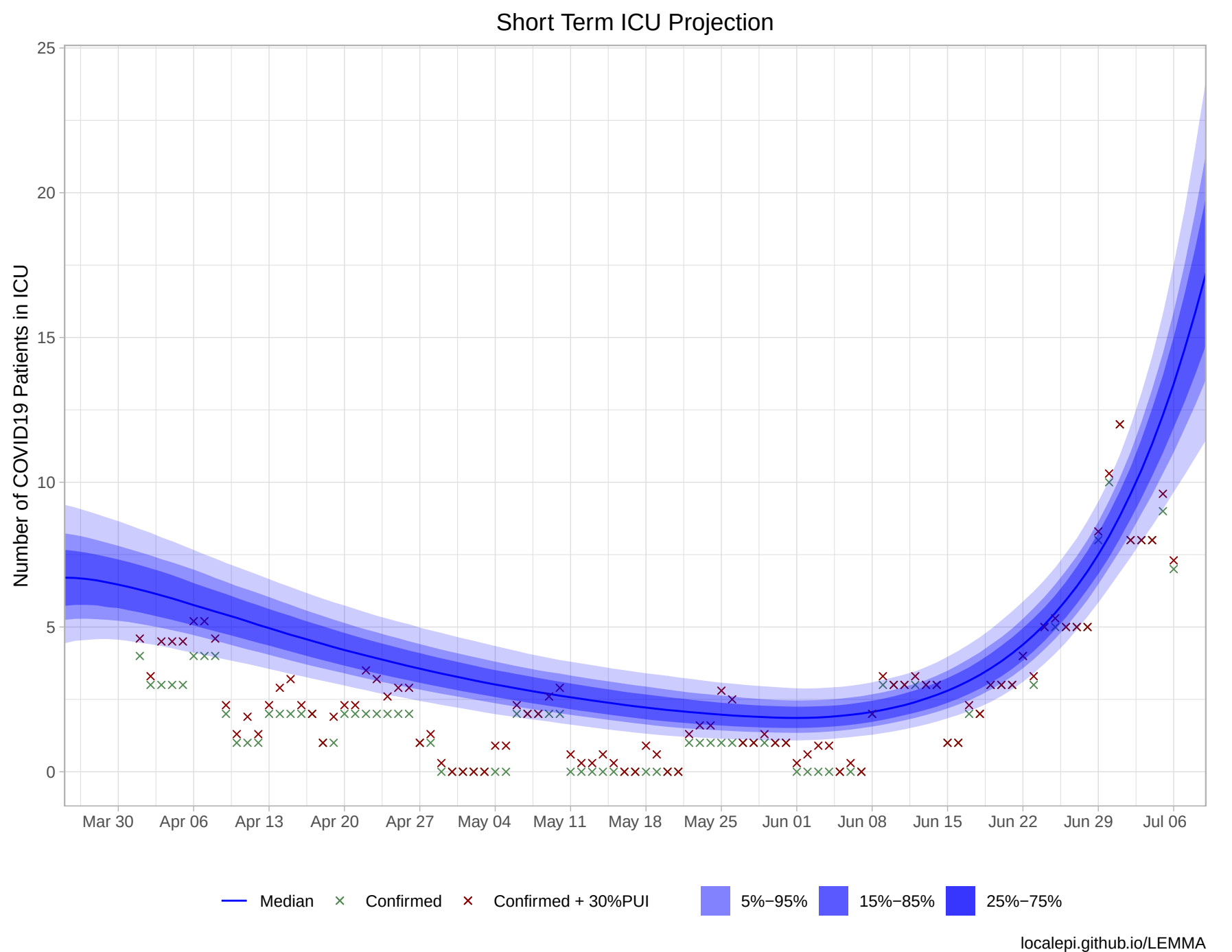
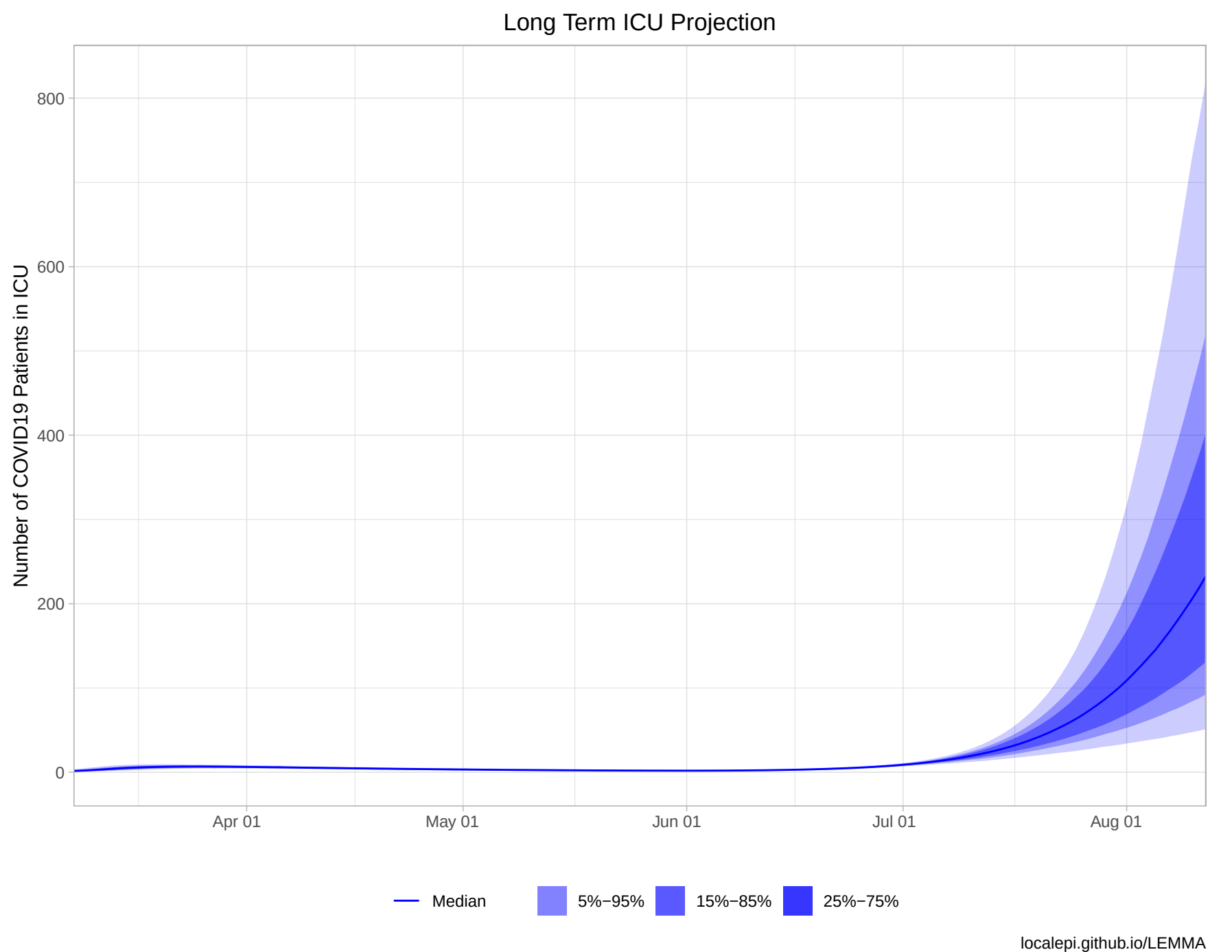
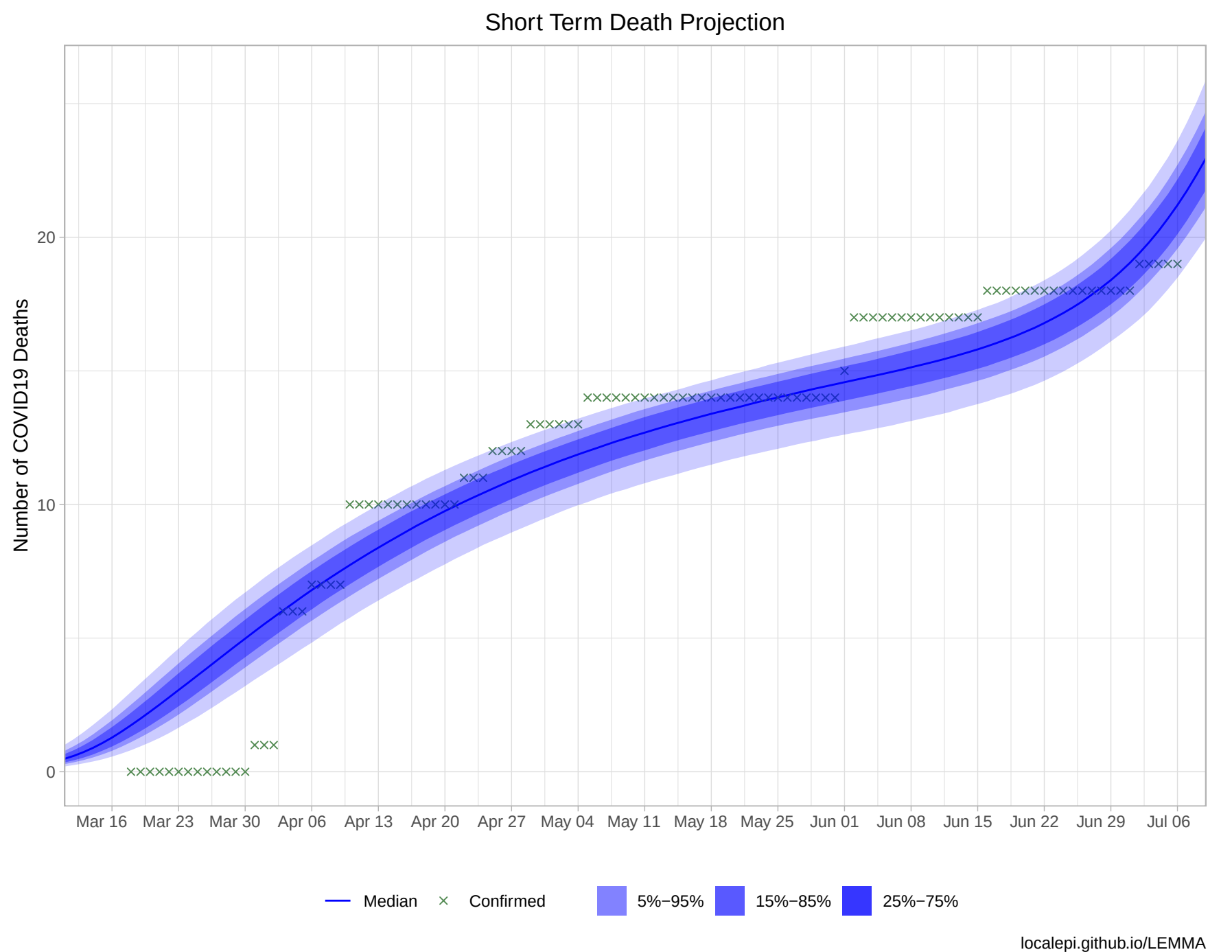
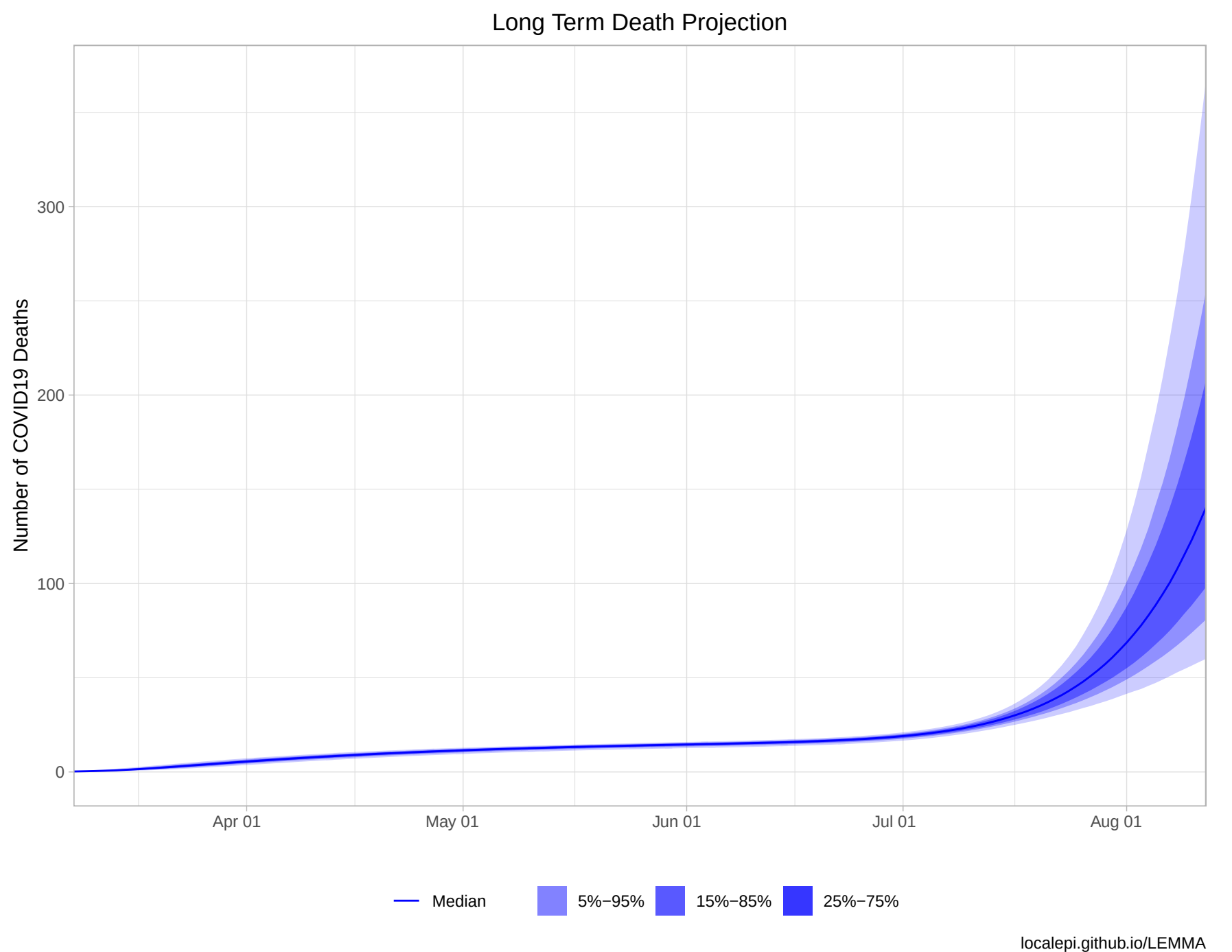

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
60
40
20
0
Mar 30
Apr 06
Apr 13
Apr 20
Apr 27
May 04
May 11
May 18
May 25
Jun 01
Jun 08
Jun 15
Jun 22
Jun 29
Jul 06
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

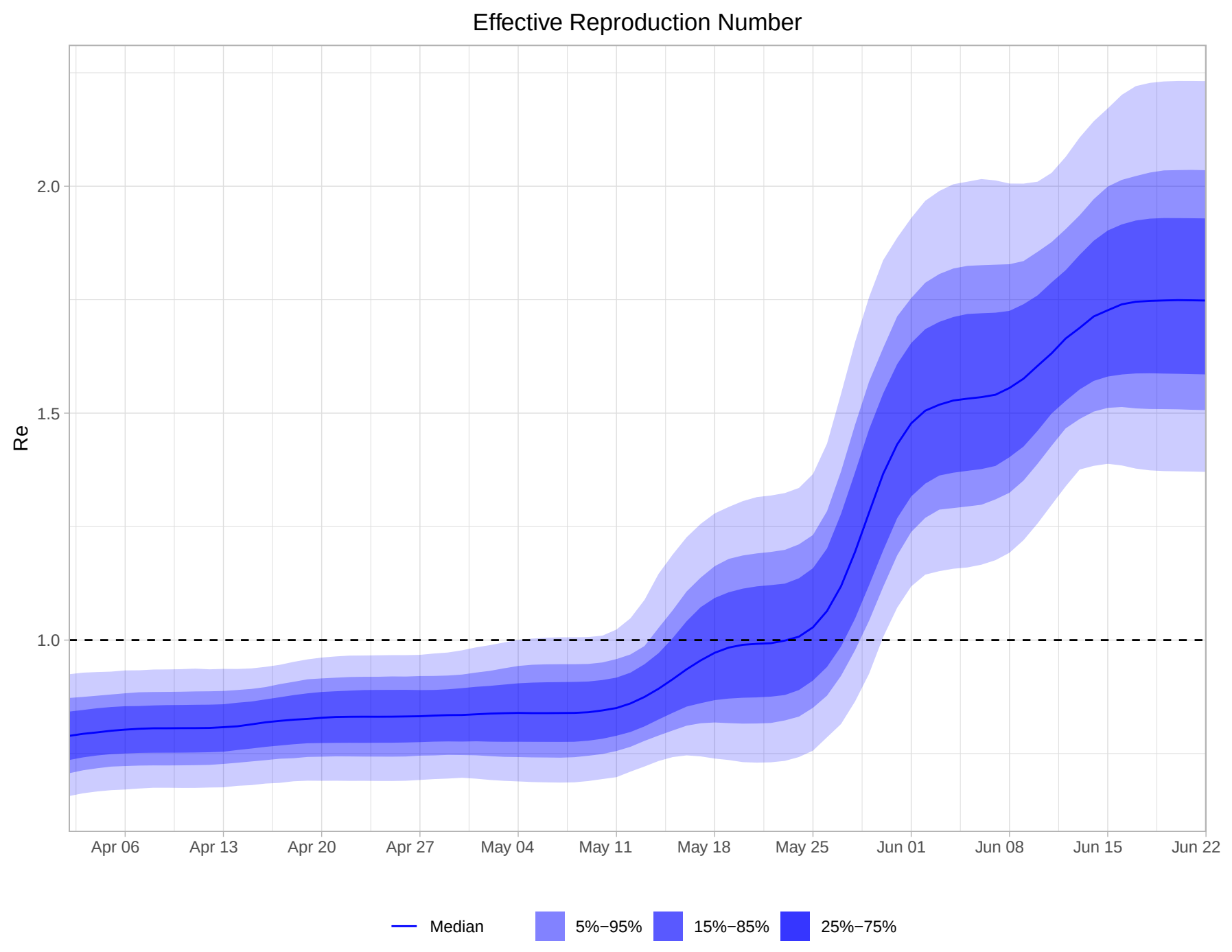

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
2000
1500
1000
500
0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


Short Term ICU Projection
Number of COVID19 Patients in ICU
25
20
15
10
5
0
Mar 30
Apr 06
Apr 13
Apr 20
Apr 27
May 04
May 11
May 18
May 25
Jun 01
Jun 08
Jun 15
Jun 22
Jun 29
Jul 06
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


Long Term ICU Projection
Number of COVID19 Patients in ICU
800
600
400
200
0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

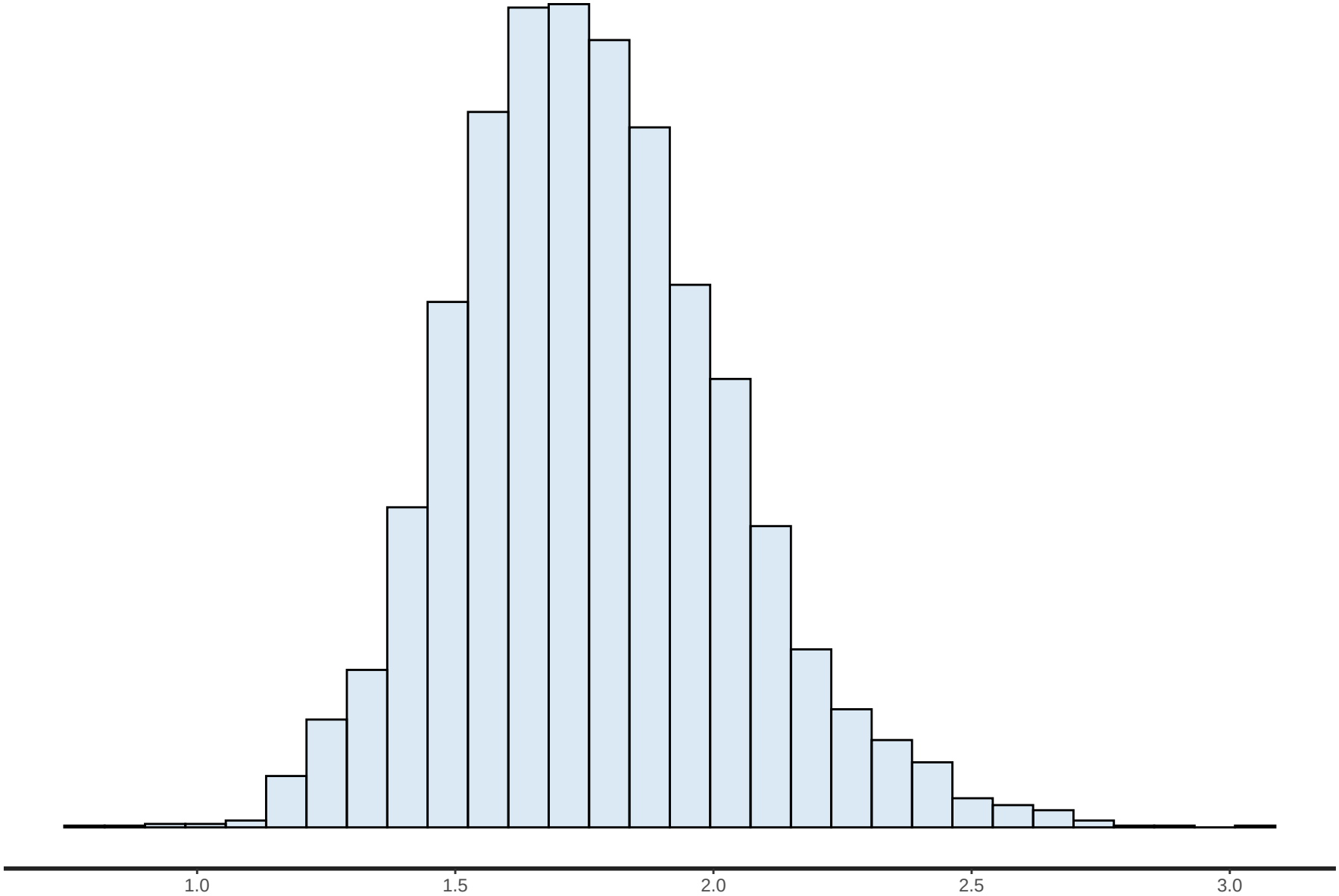

Short Term Death Projection
Number of COVID19 Deaths
0
10
20
Mar 16
Mar 23
Mar 30
Apr 06
Apr 13
Apr 20
Apr 27
May 04
May 11
May 18
May 25
Jun 01
Jun 08
Jun 15
Jun 22
Jun 29
Jul 06
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

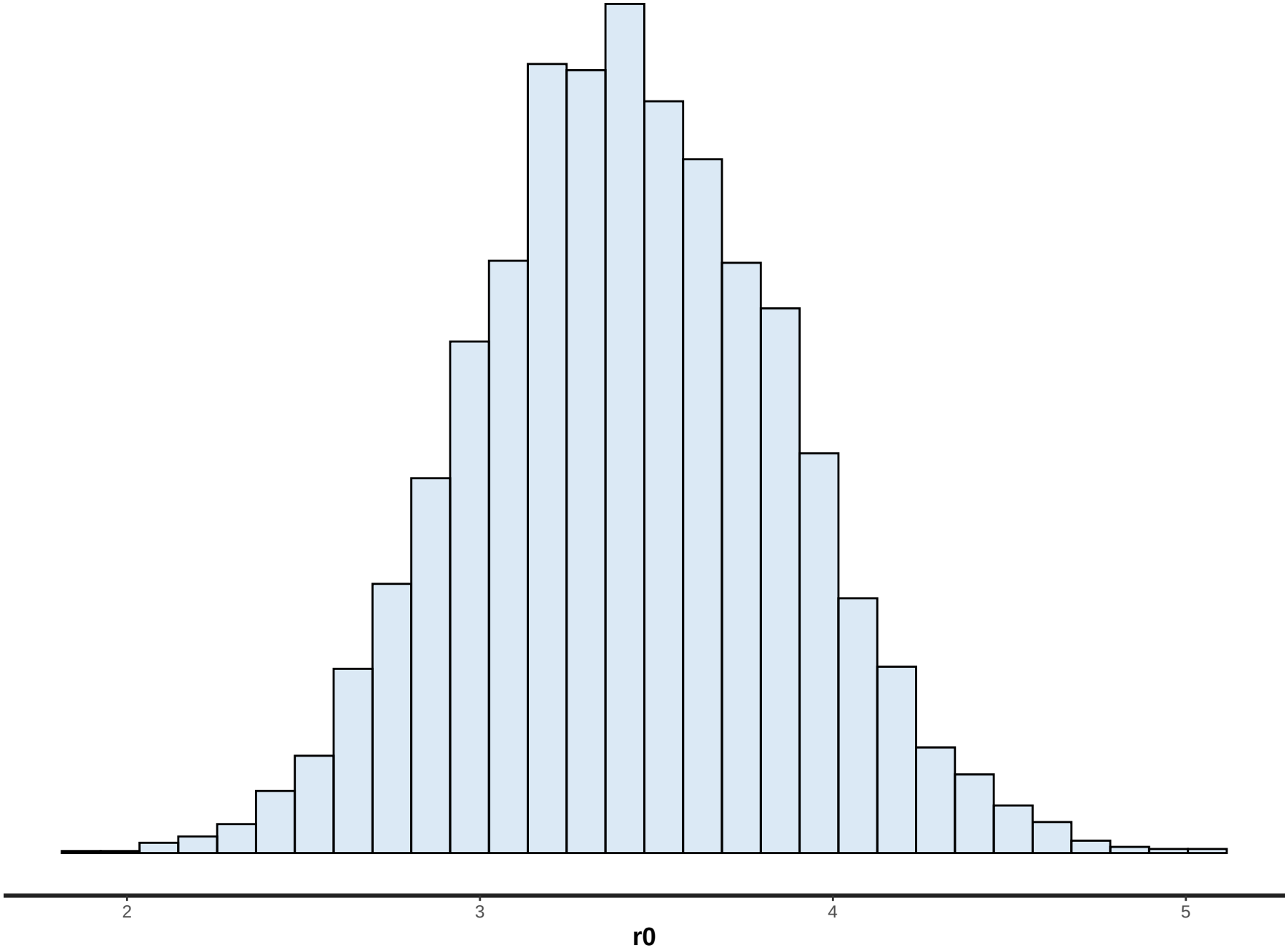

Long Term Death Projection
Number of COVID19 Deaths
300
200
100
0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

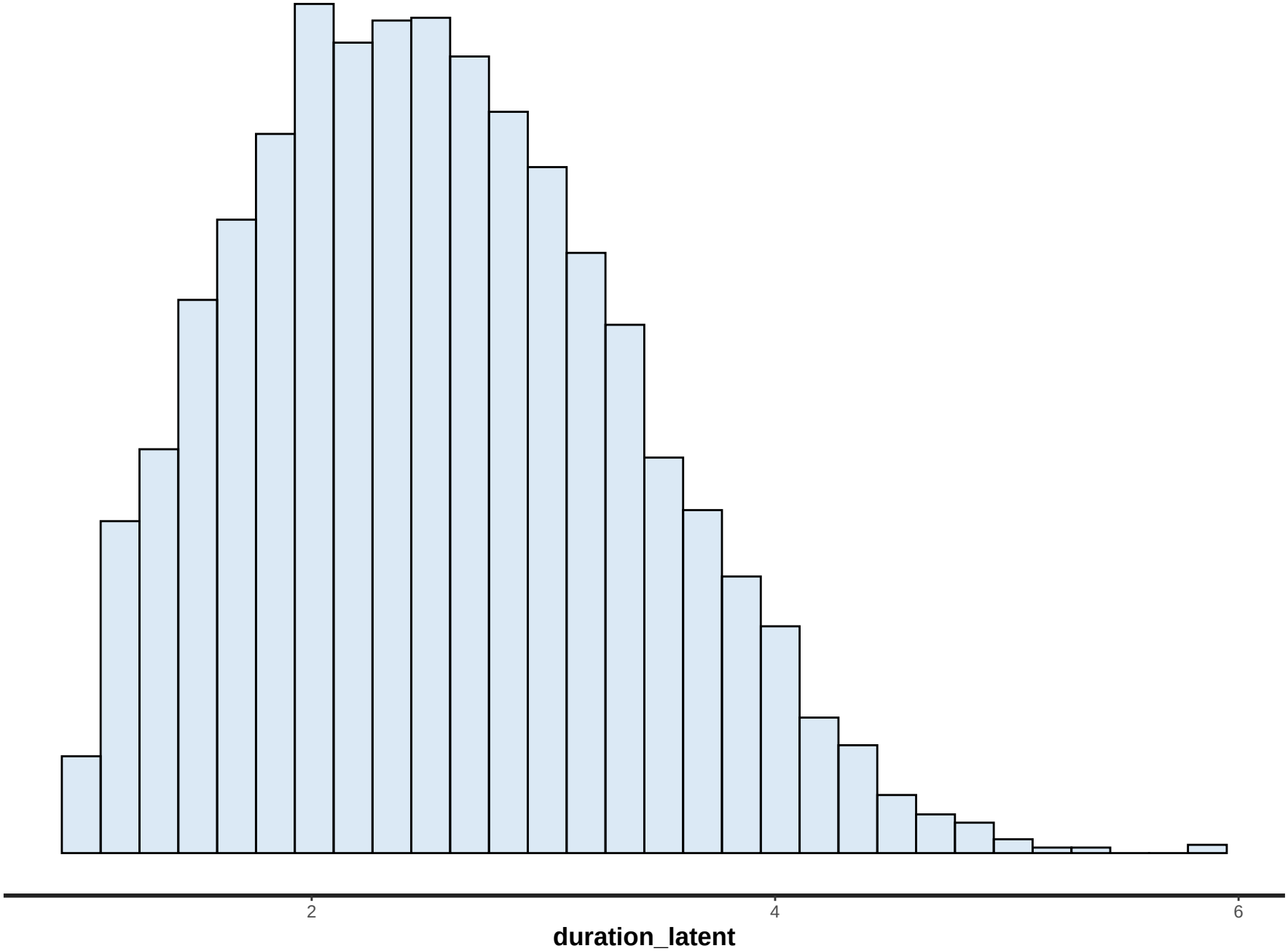

Effective Reproduction Number
Re
2.0
1.5
1.0
Apr 06
Apr 13
Apr 20
Apr 27
May 04
May 11
May 18
May 25
Jun 01
Jun 08
Jun 15
Jun 22
Median
5%−95%
15%−85%
25%−75%

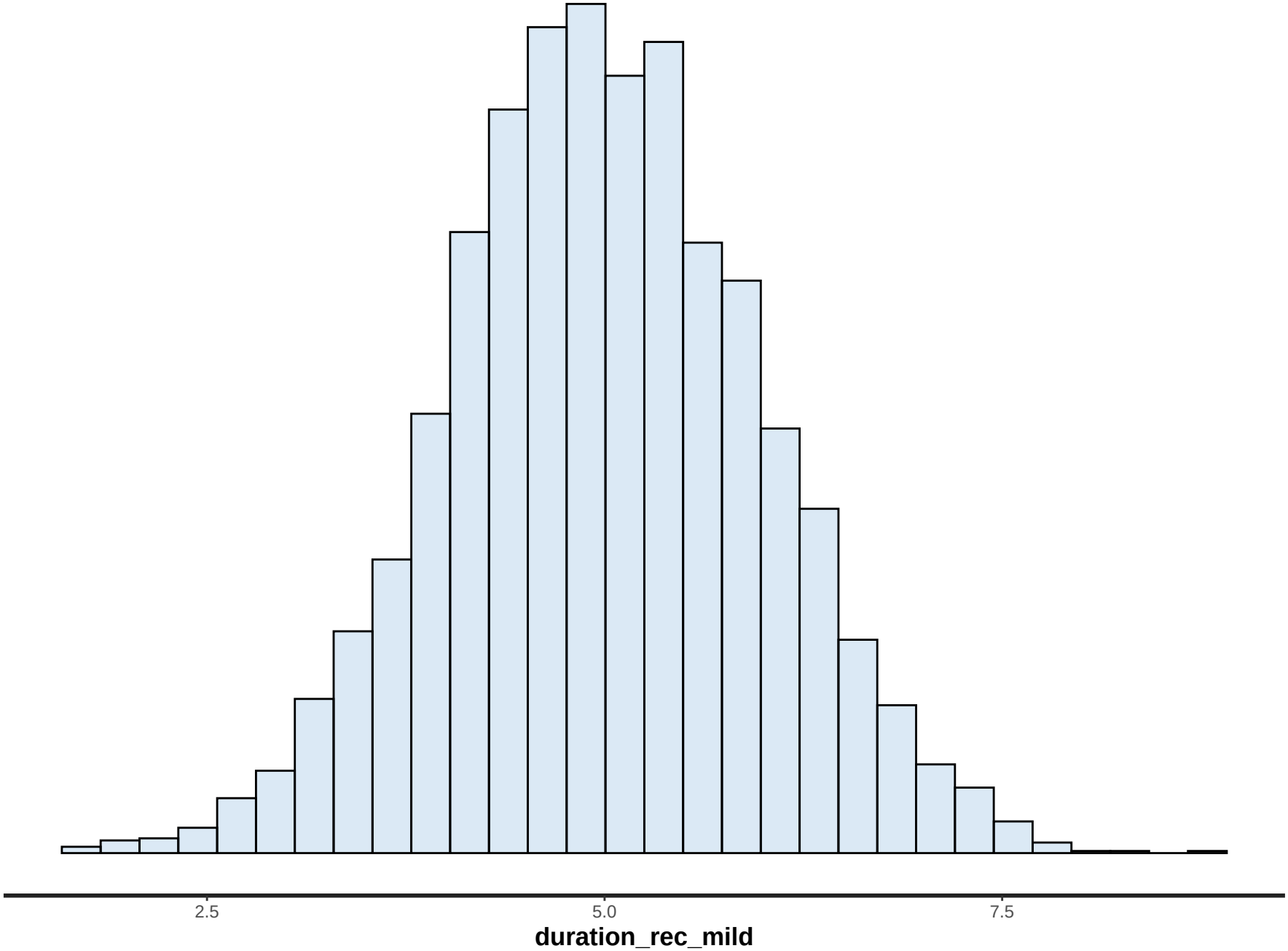
Rt as of 2020−06−22

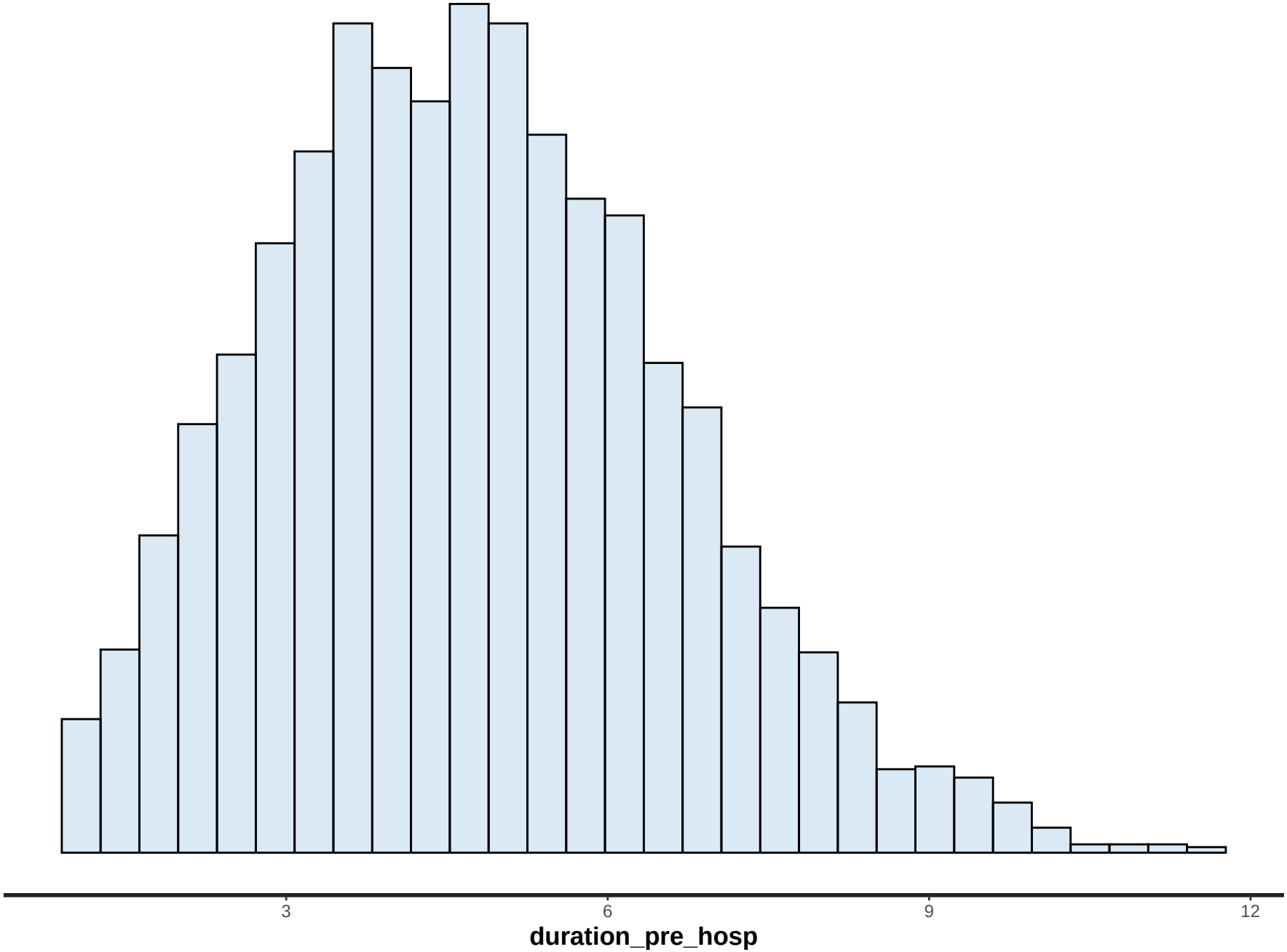
5%	10%	25%	50%	75%	90%	95%
1.37	1.45	1.59	1.75	1.93	2.11	2.23

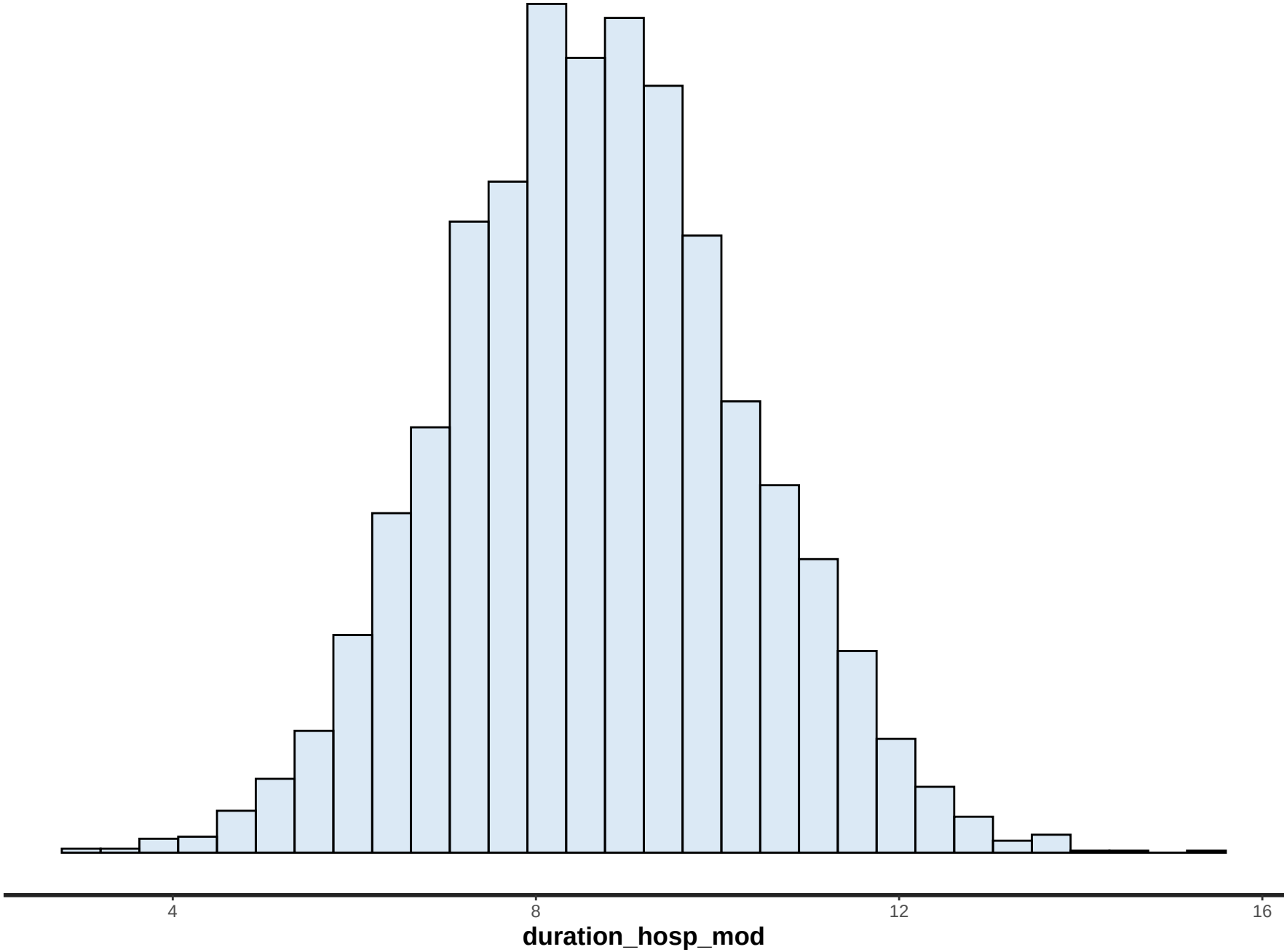


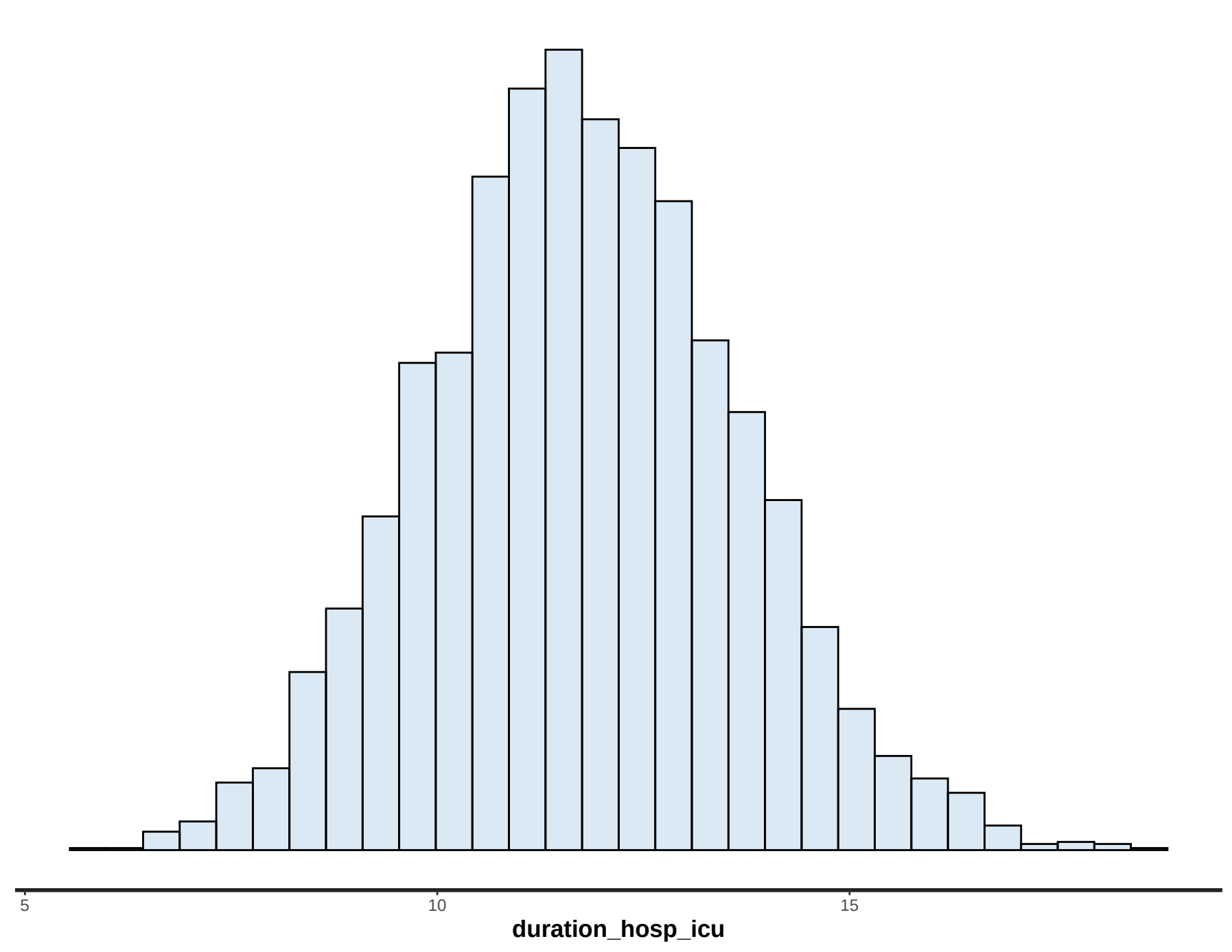

2
3
4
5
r0

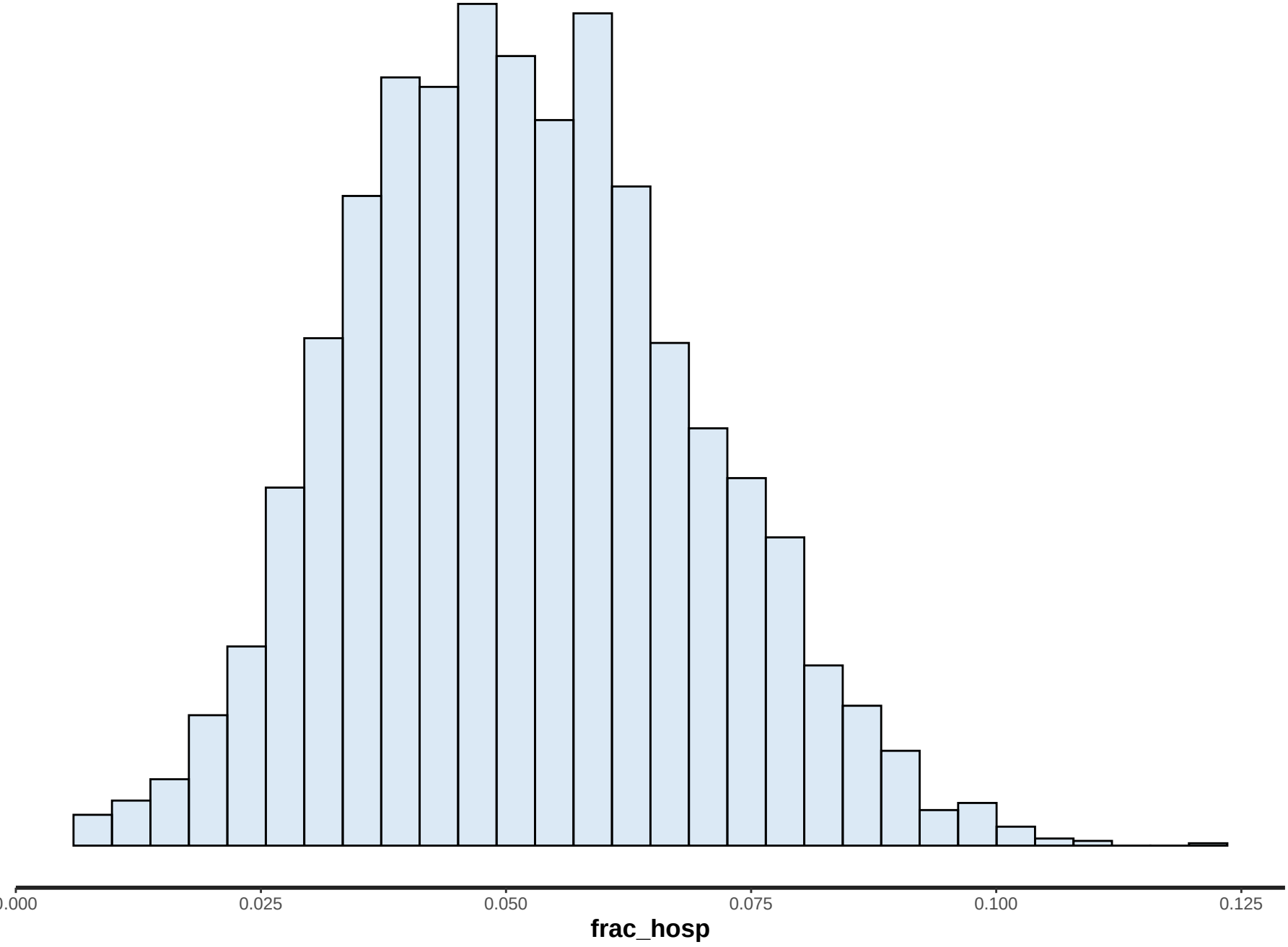

2
4
6
duration_latent

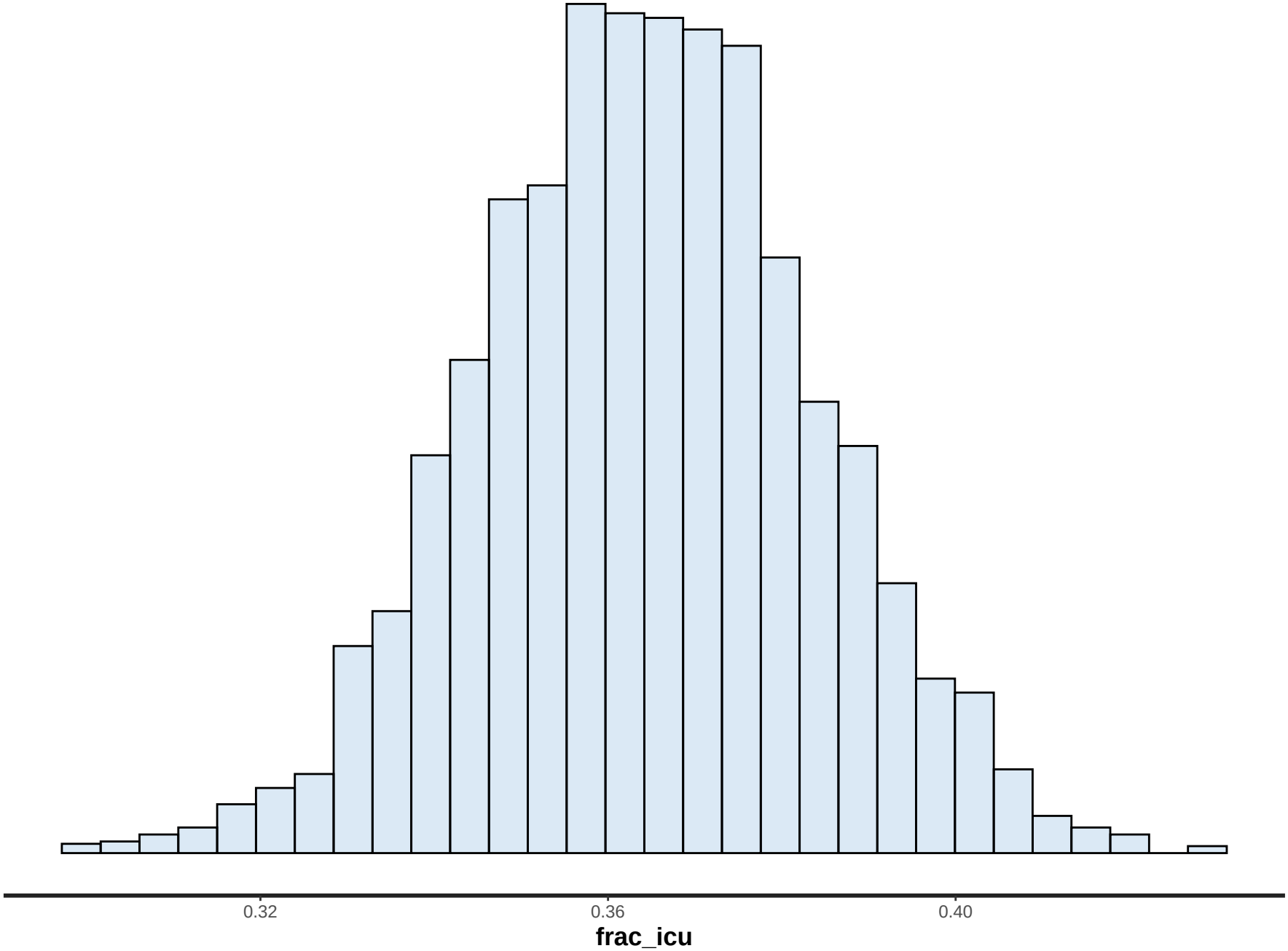

2.5
5.0
7.5
duration_rec_mild

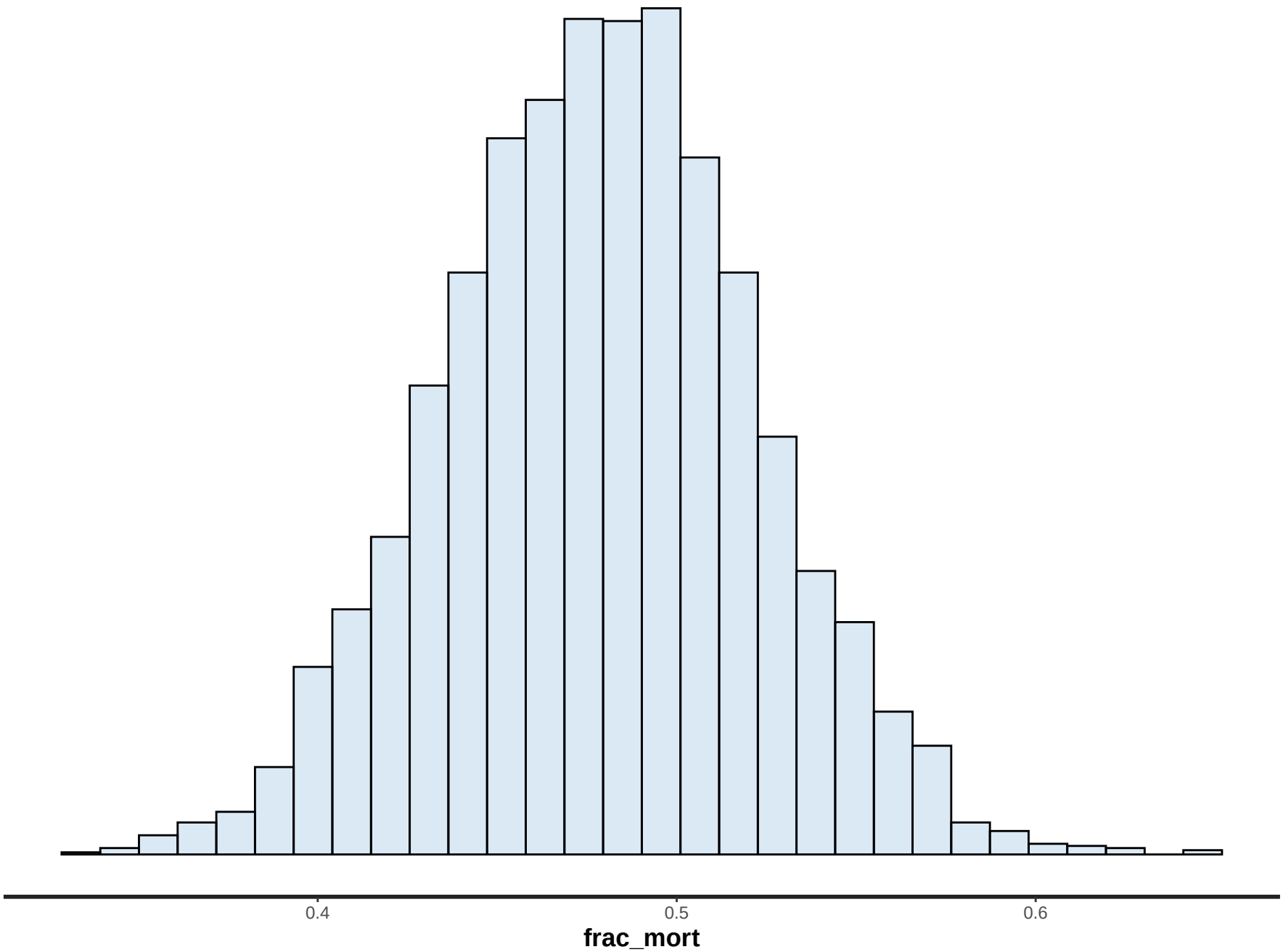

3
6
9
12
duration_pre_hosp

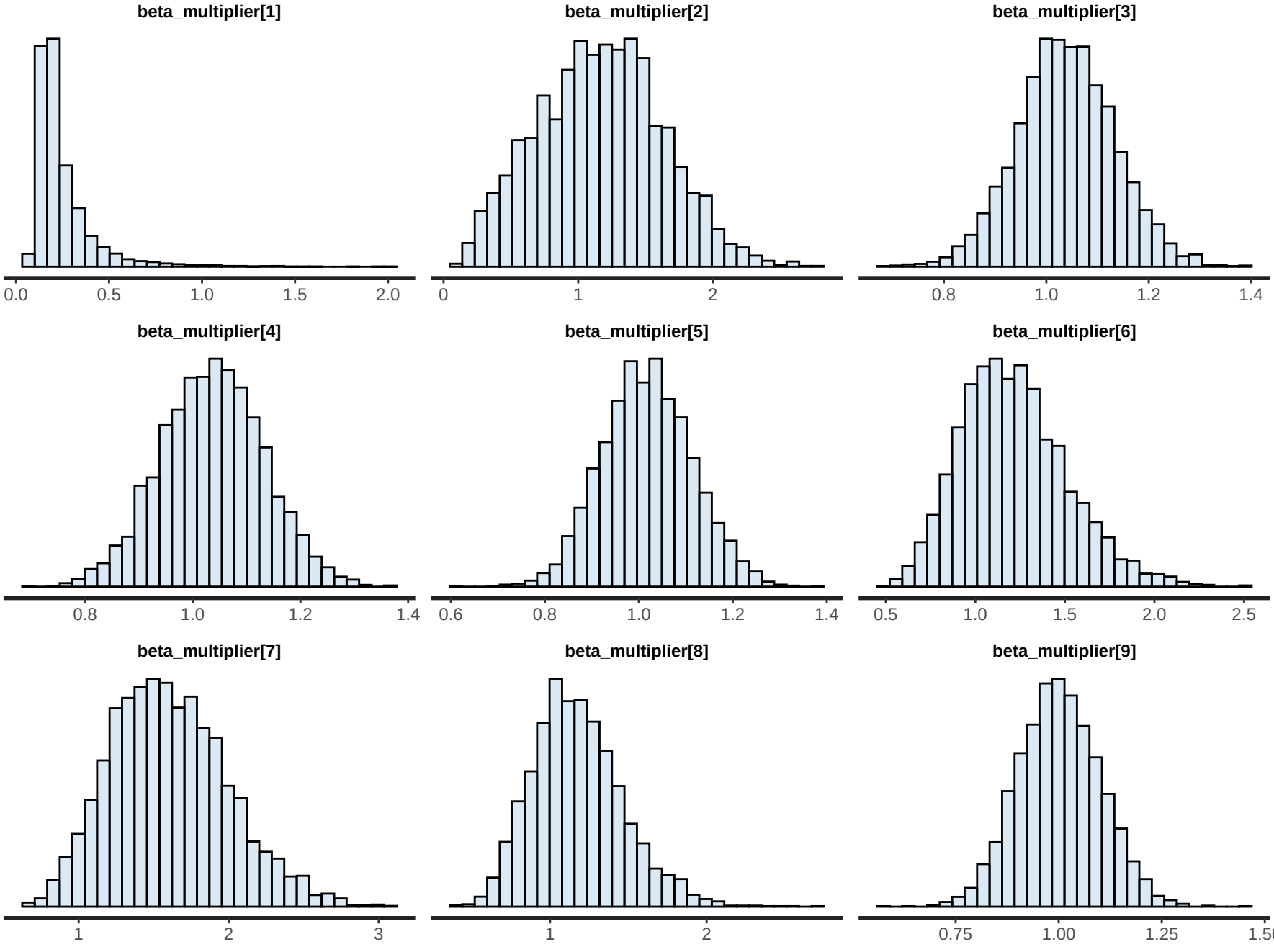

4
8
12
16
duration_hosp_mod

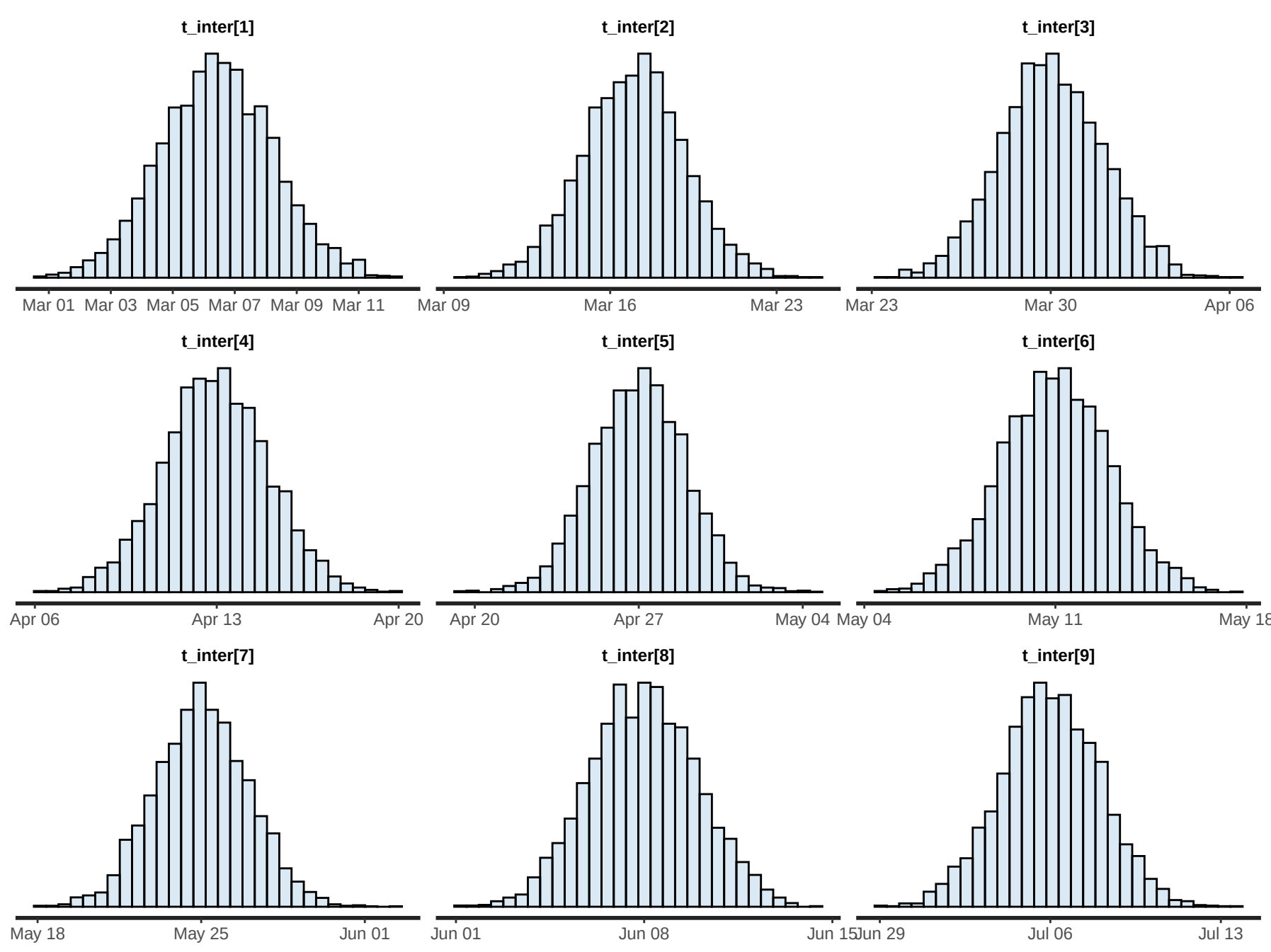

5
10
15
duration_hosp_icu

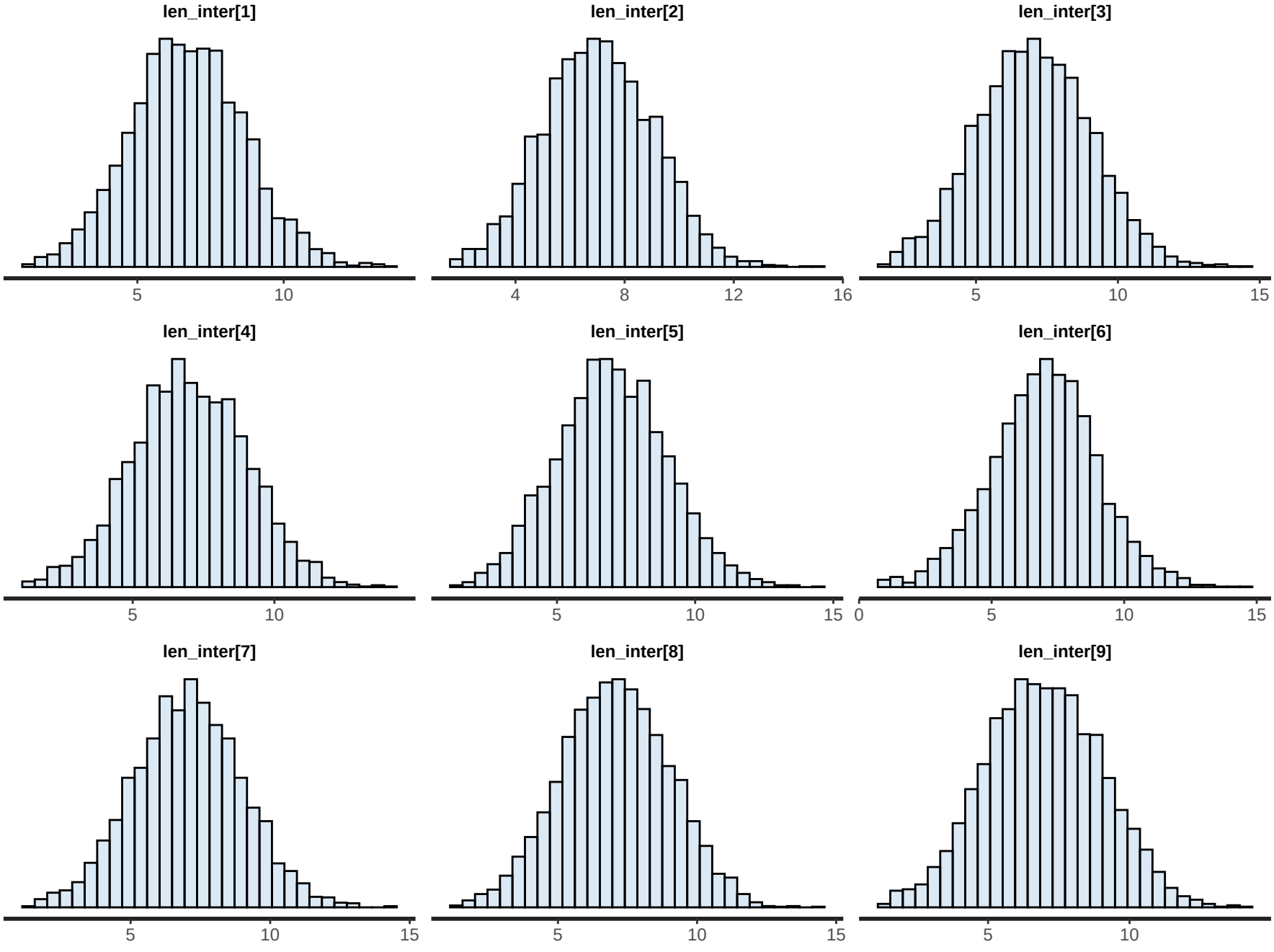

0.000
0.025
0.050
0.075
0.100
0.125
frac_hosp

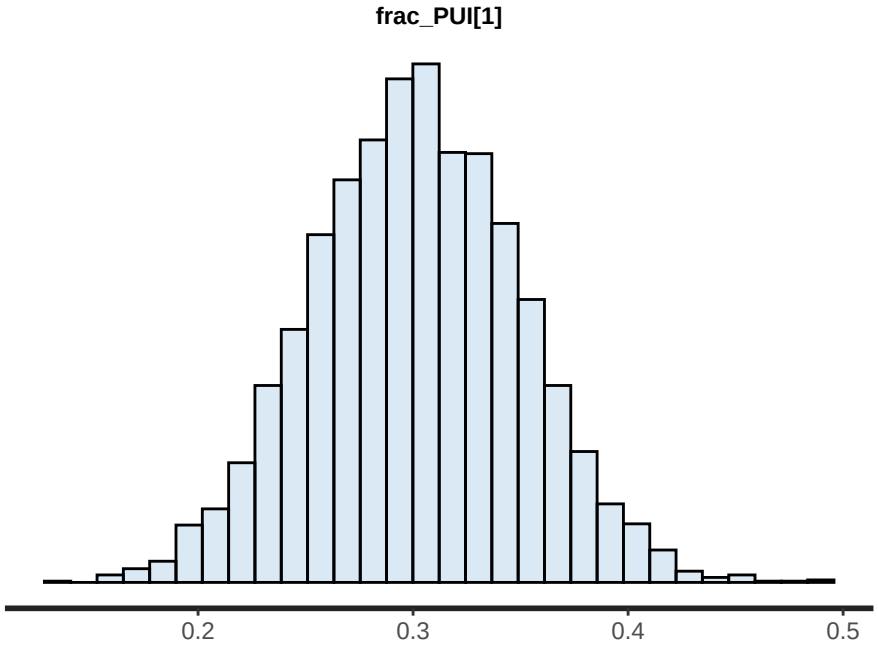

0.32
0.36
0.40
frac_icu

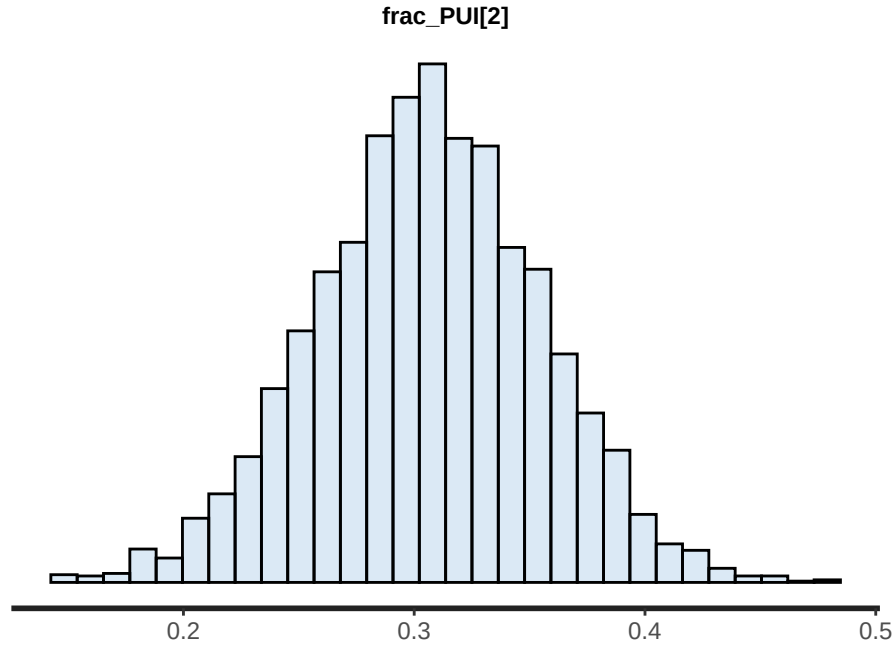

0.4
0.5
0.6
frac_mort

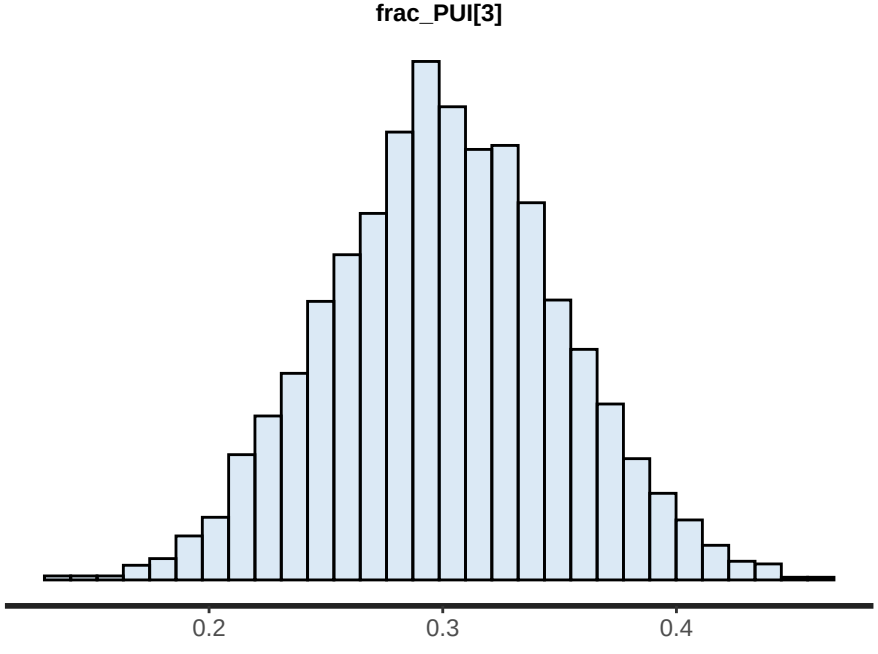

beta_multiplier[1]
0.0
0.5
1.0
1.5
2.0
beta_multiplier[2]
0
1
2
beta_multiplier[3]
0.8
1.0
1.2
1.4
beta_multiplier[4]
0.8
1.0
1.2
1.4
beta_multiplier[5]
0.6
0.8
1.0
1.2
1.4
beta_multiplier[6]
0.5
1.0
1.5
2.0
2.5
beta_multiplier[7]
1
2
3
beta_multiplier[8]
1
2
beta_multiplier[9]
0.75
1.00
1.25
1.50

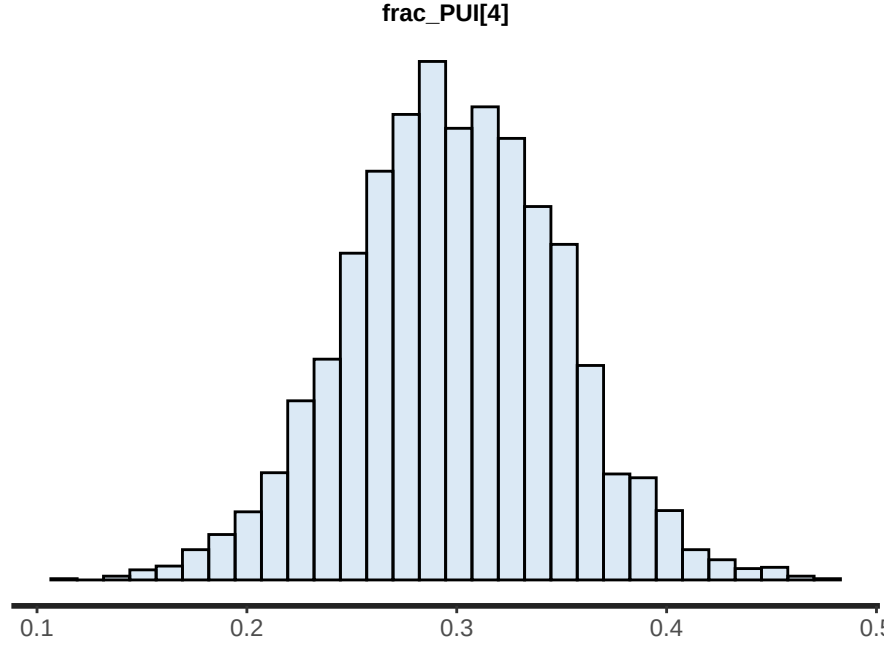

t_inter[1]
Mar 01
Mar 03
Mar 05
Mar 07
Mar 09
Mar 11
t_inter[2]
Mar 09
Mar 16
Mar 23
t_inter[3]
Mar 23
Mar 30
Apr 06
t_inter[4]
Apr 06
Apr 13
Apr 20
t_inter[5]
Apr 20
Apr 27
May 04
t_inter[6]
May 04
May 11
May 18
t_inter[7]
May 18
May 25
Jun 01
t_inter[8]
Jun 01
Jun 08
Jun 15
t_inter[9]
Jun 29
Jul 06
Jul 13

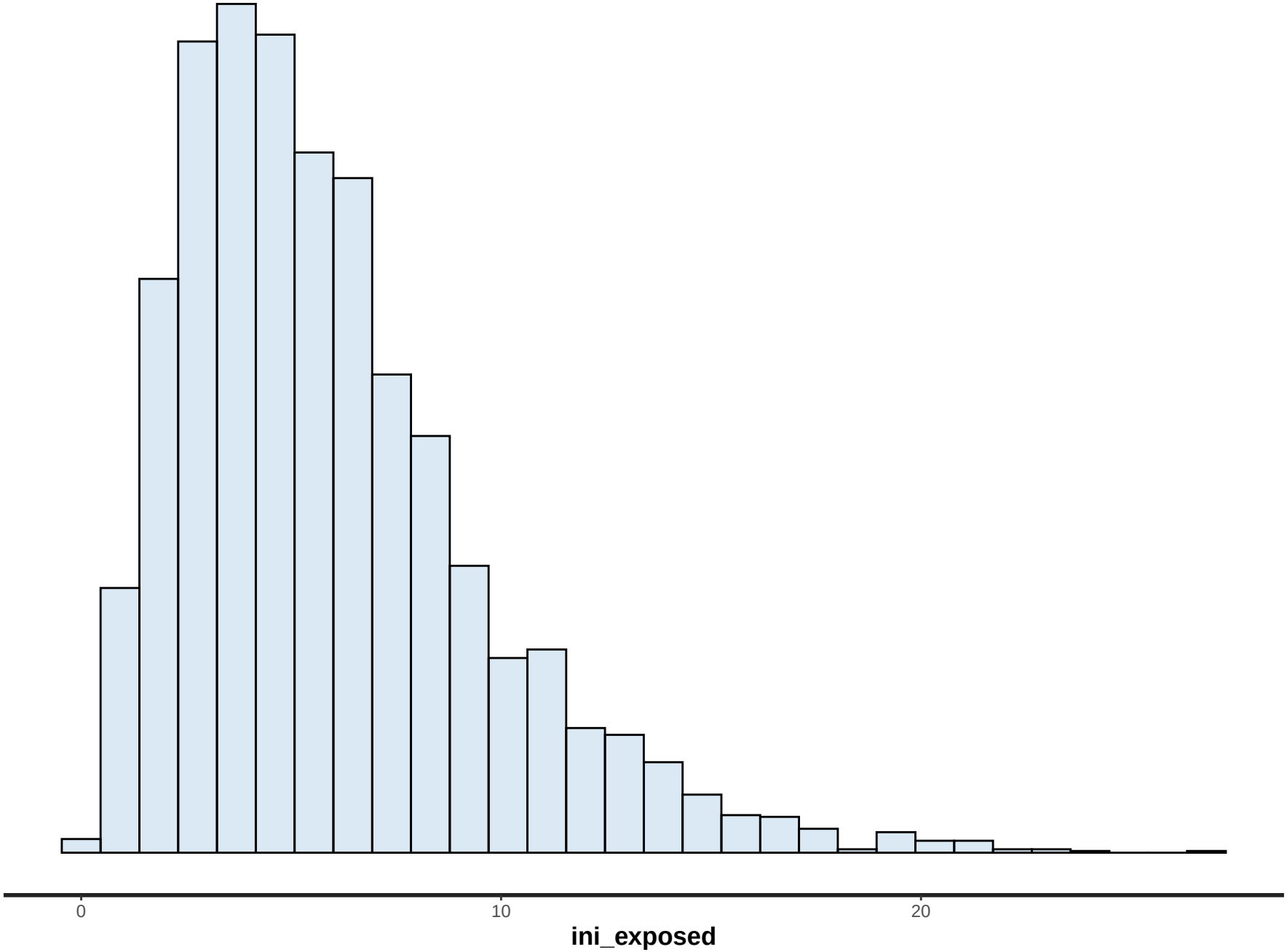

len_inter[1]
5
10
len_inter[2]
4
8
12
16
len_inter[3]
5
10
15
len_inter[4]
5
10
len_inter[5]
5
10
15
len_inter[6]
0
5
10
15
len_inter[7]
5
10
15
len_inter[8]
5
10
15
len_inter[9]
5
10


frac_PUI[1]
0.2
0.3
0.4
0.5


frac_PUI[2]
0.2
0.3
0.4
0.5


frac_PUI[3]
0.2
0.3
0.4


frac_PUI[4]
0.1
0.2
0.3
0.4
0.5


0
10
20
ini_exposed