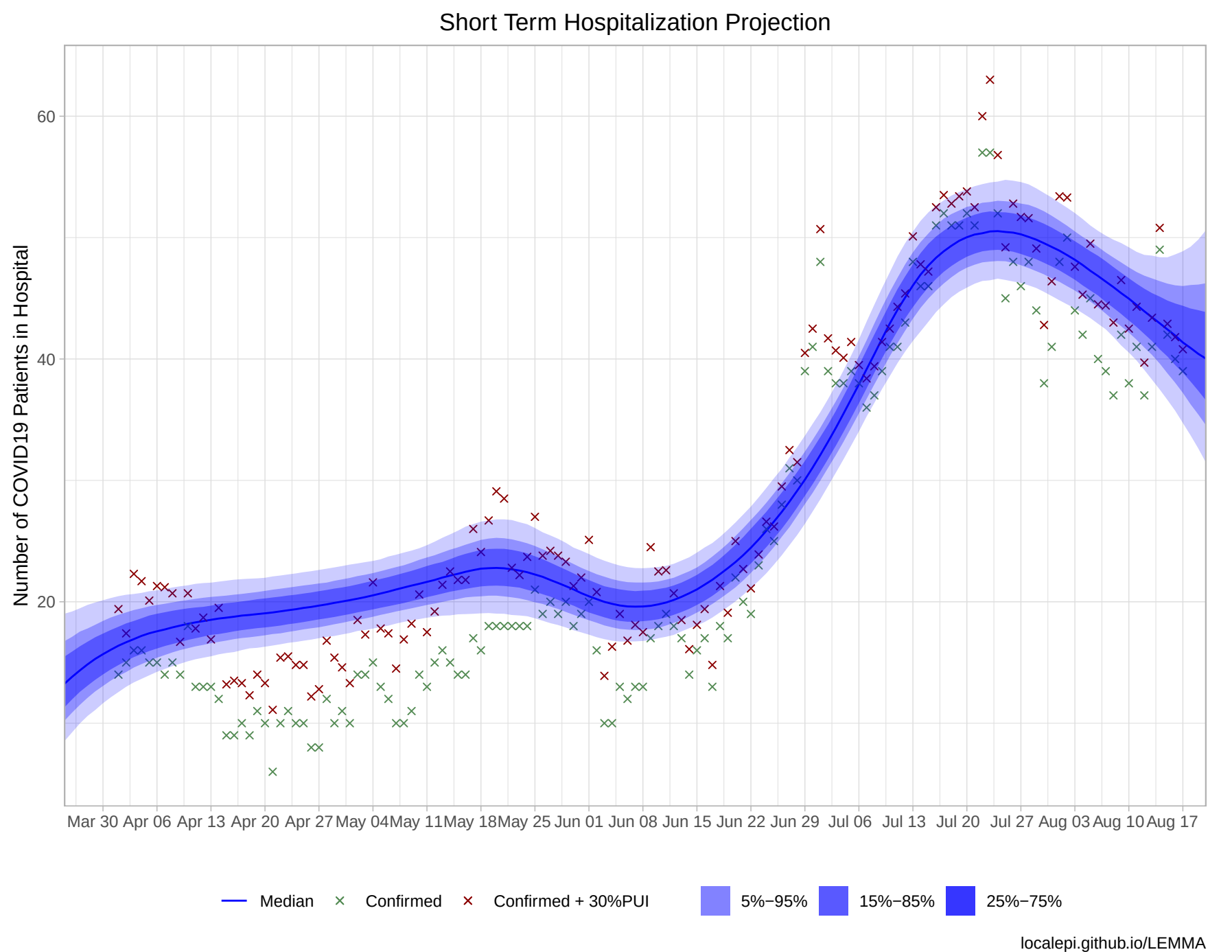
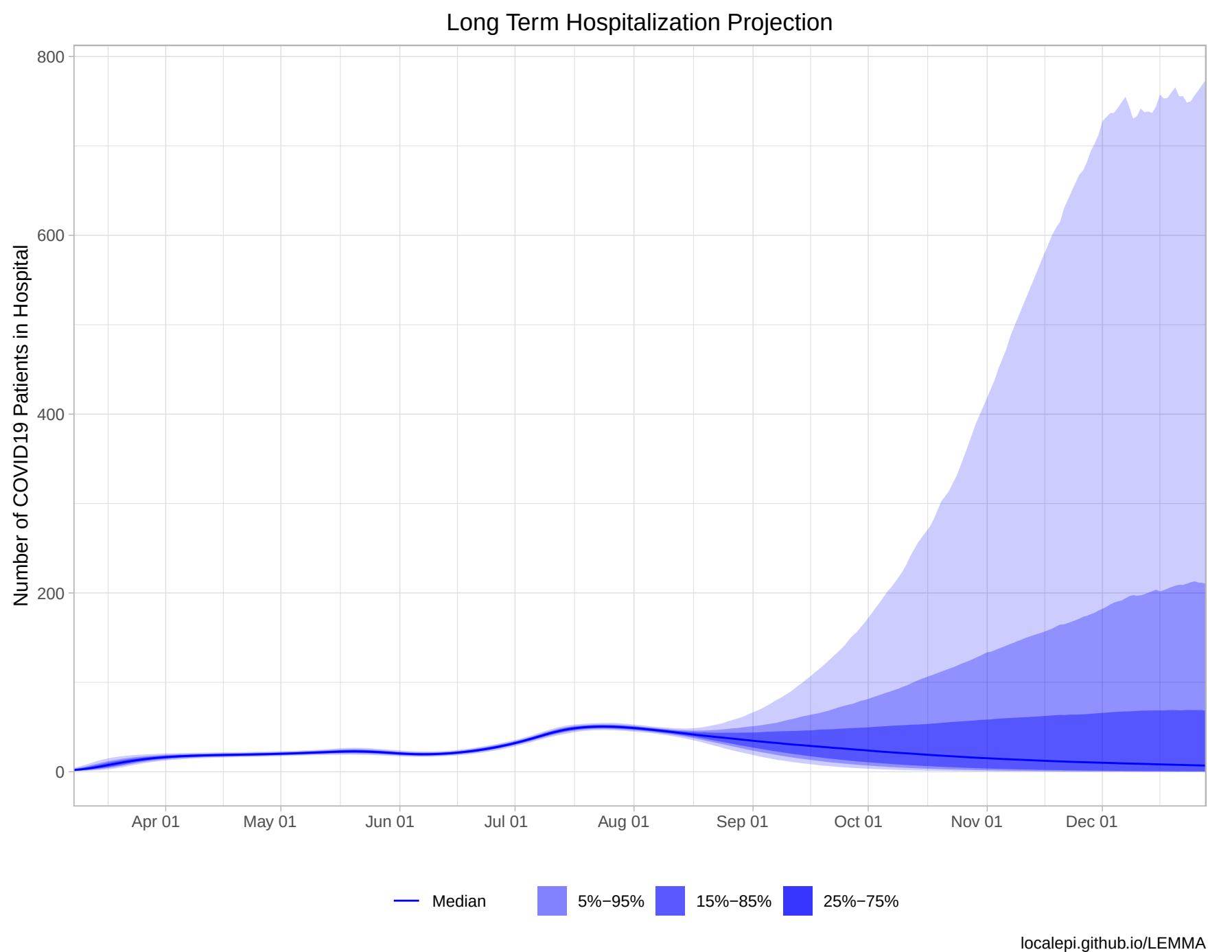
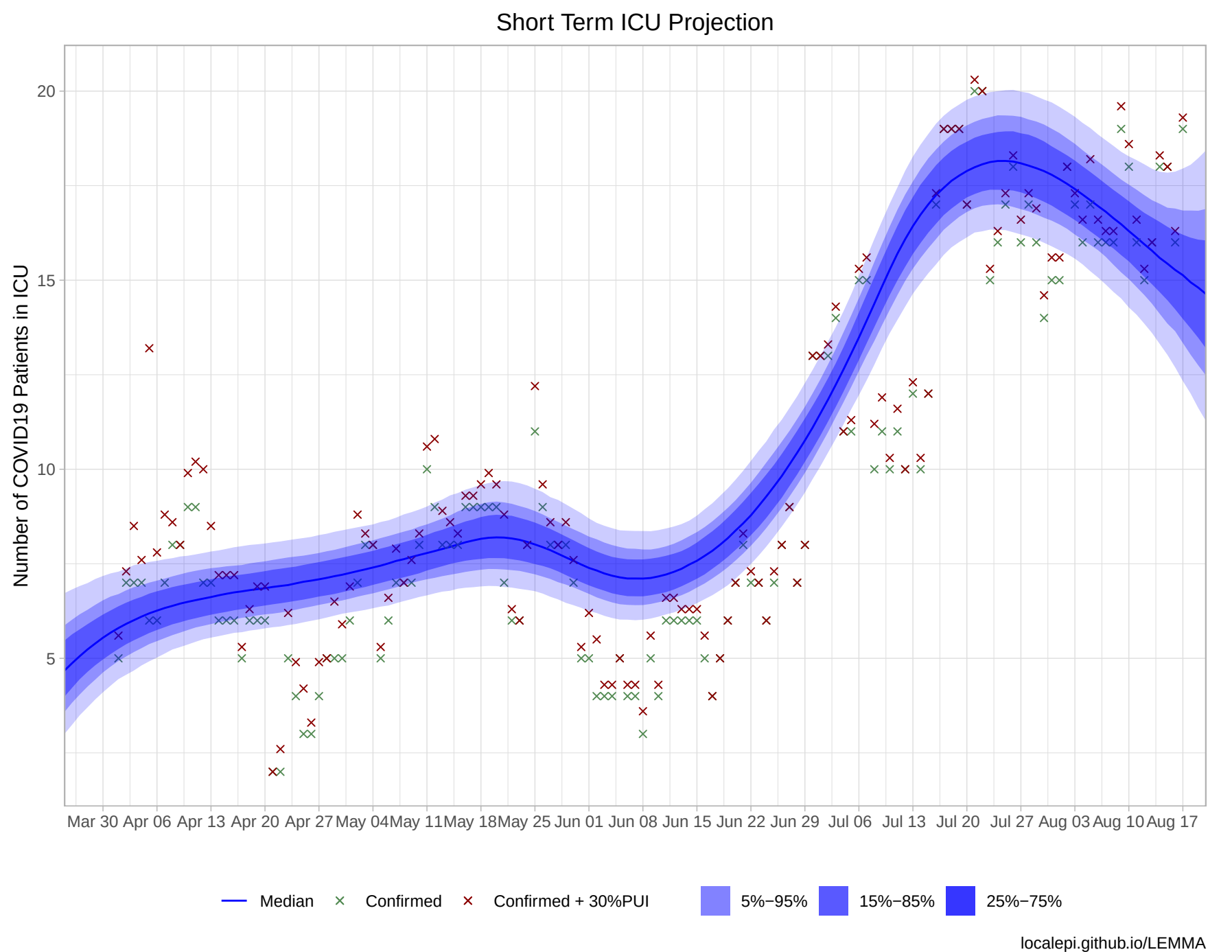
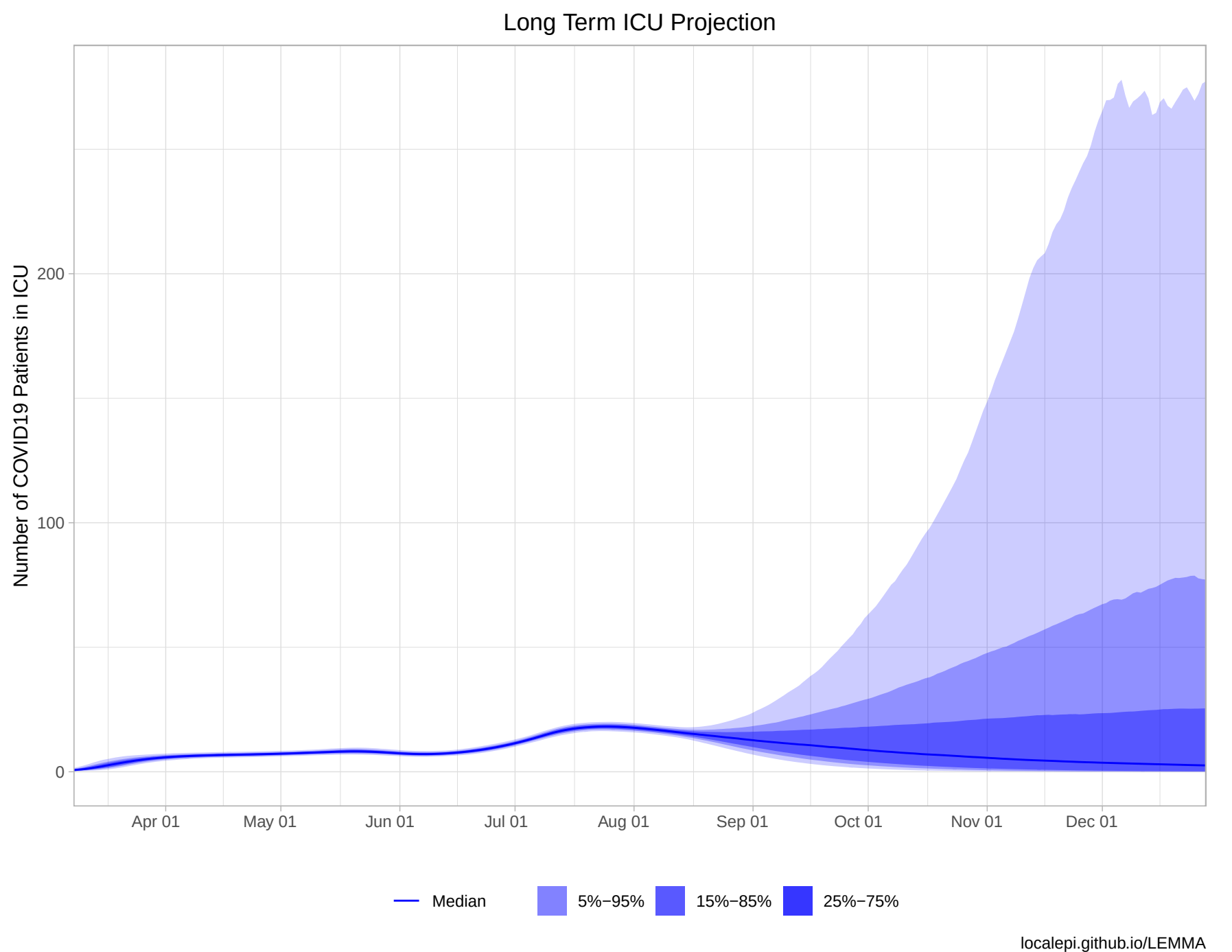
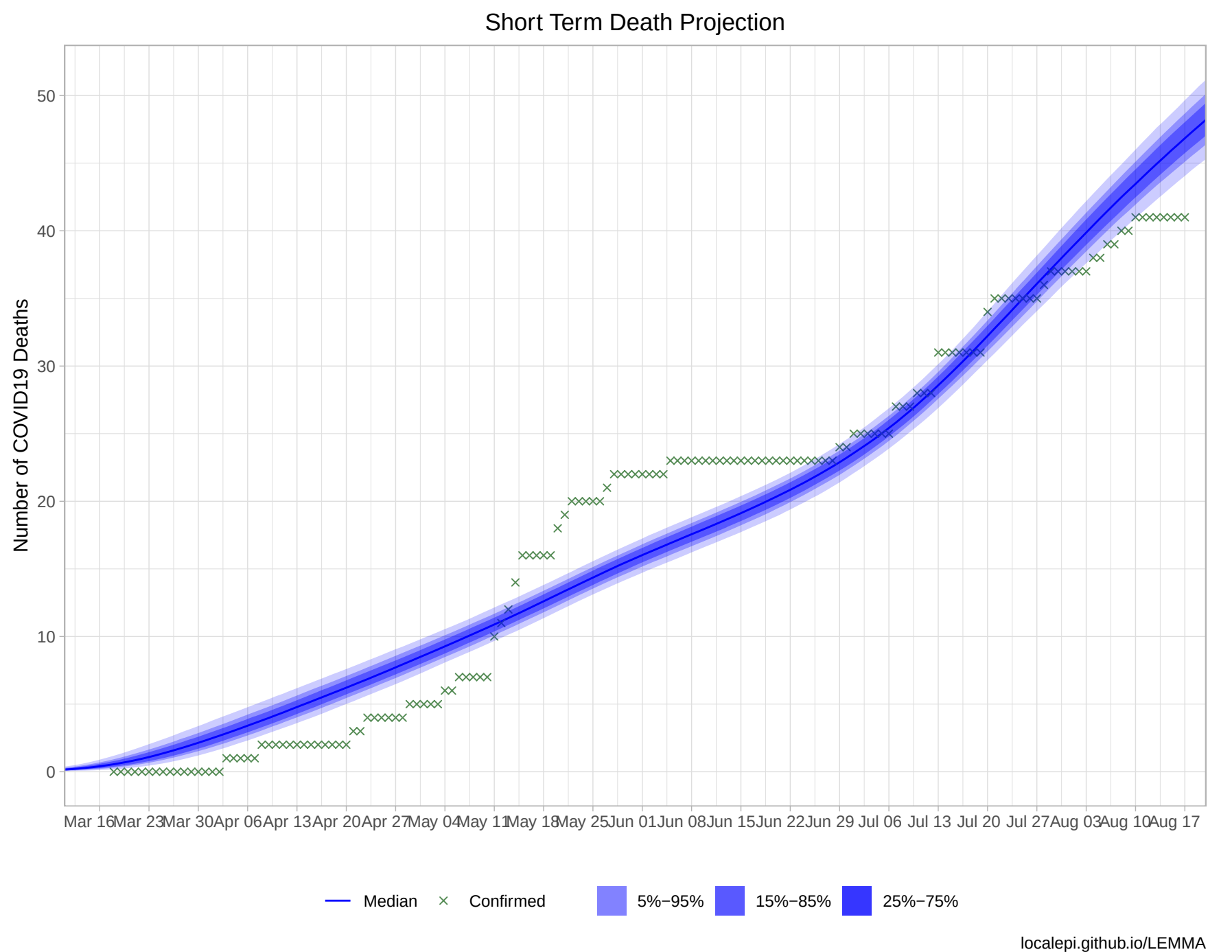
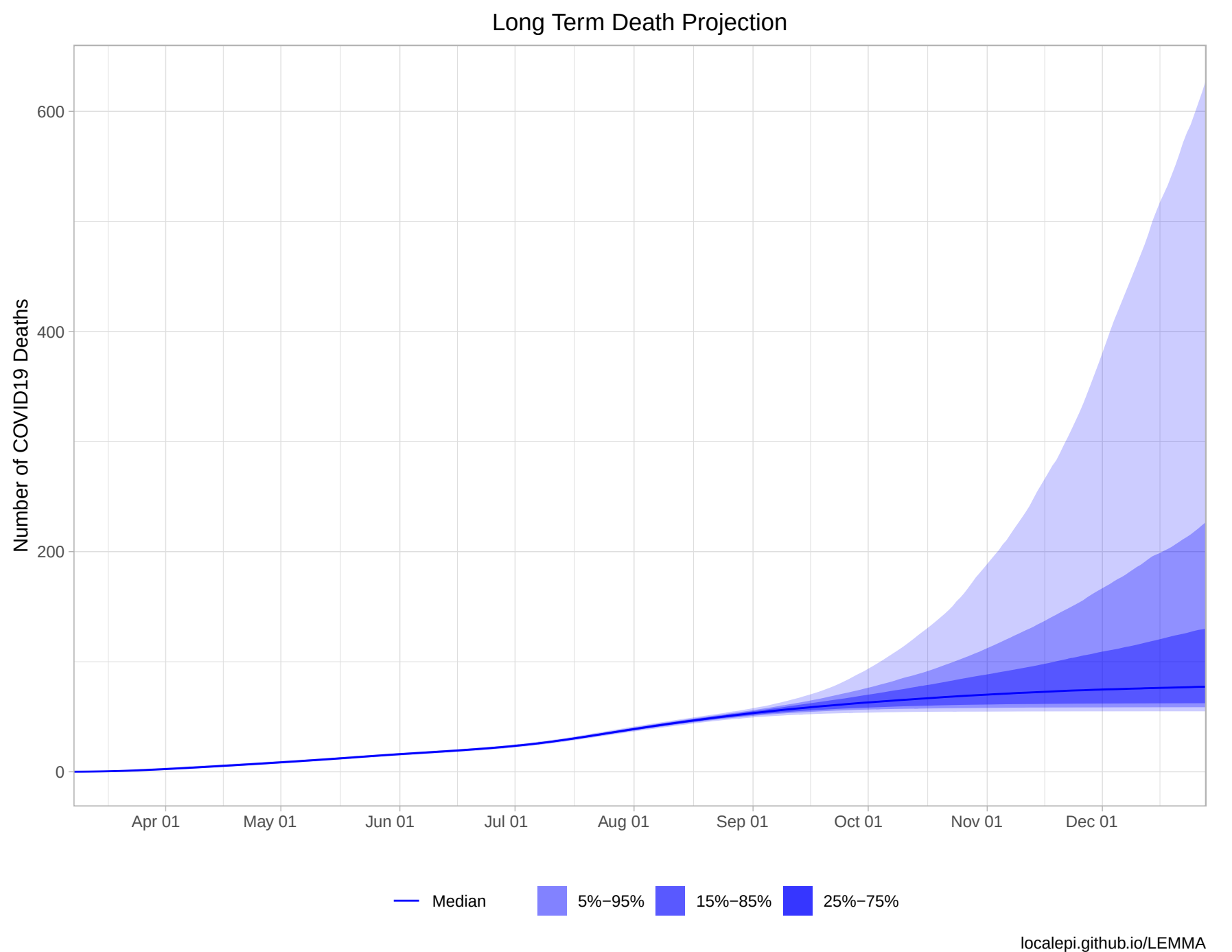

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
60
40
20
Mar 30
Apr 06
Apr 13
Apr 20
Apr 27
May 04
May 11
May 18
May 25
Jun 01
Jun 08
Jun 15
Jun 22
Jun 29
Jul 06
Jul 13
Jul 20
Jul 27
Aug 03
Aug 10
Aug 17
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

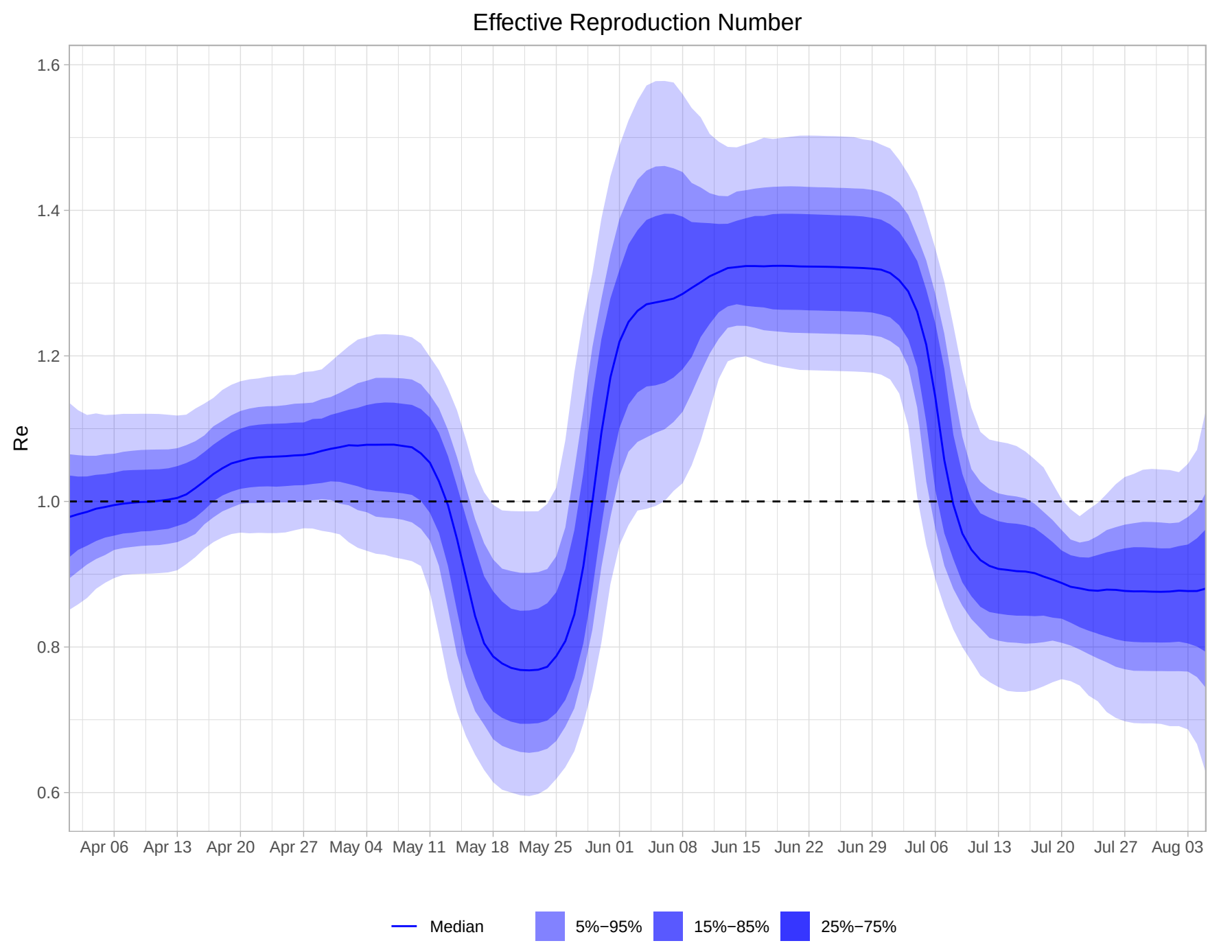

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
800
600
400
200
0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


Short Term ICU Projection
Number of COVID19 Patients in ICU
20
15
10
5
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
Jul 13
Jul 20
Jul 27
Aug 03
Aug 10
Aug 17
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
200
100
0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

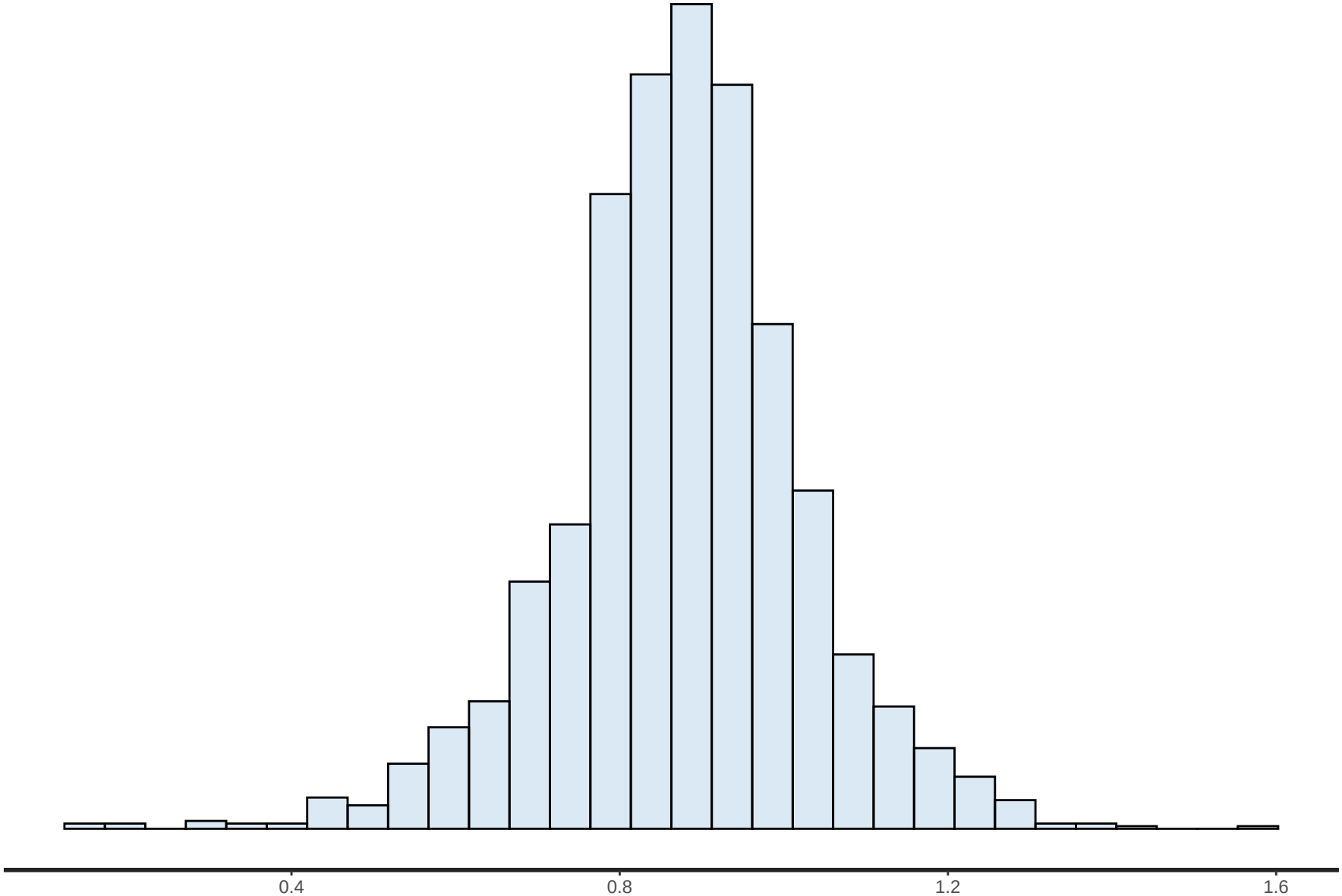

Short Term Death Projection
Number of COVID19 Deaths
0
10
20
30
40
50
Mar 16
Mar 23
Mar 30
Apr 06
Apr 13
Apr 20
Apr 27
May 04
May 11
May 18
May 25
Jun 01
Jun 08
Jun 15
Jun 22
Jun 29
Jul 06
Jul 13
Jul 20
Jul 27
Aug 03
Aug 10
Aug 17
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

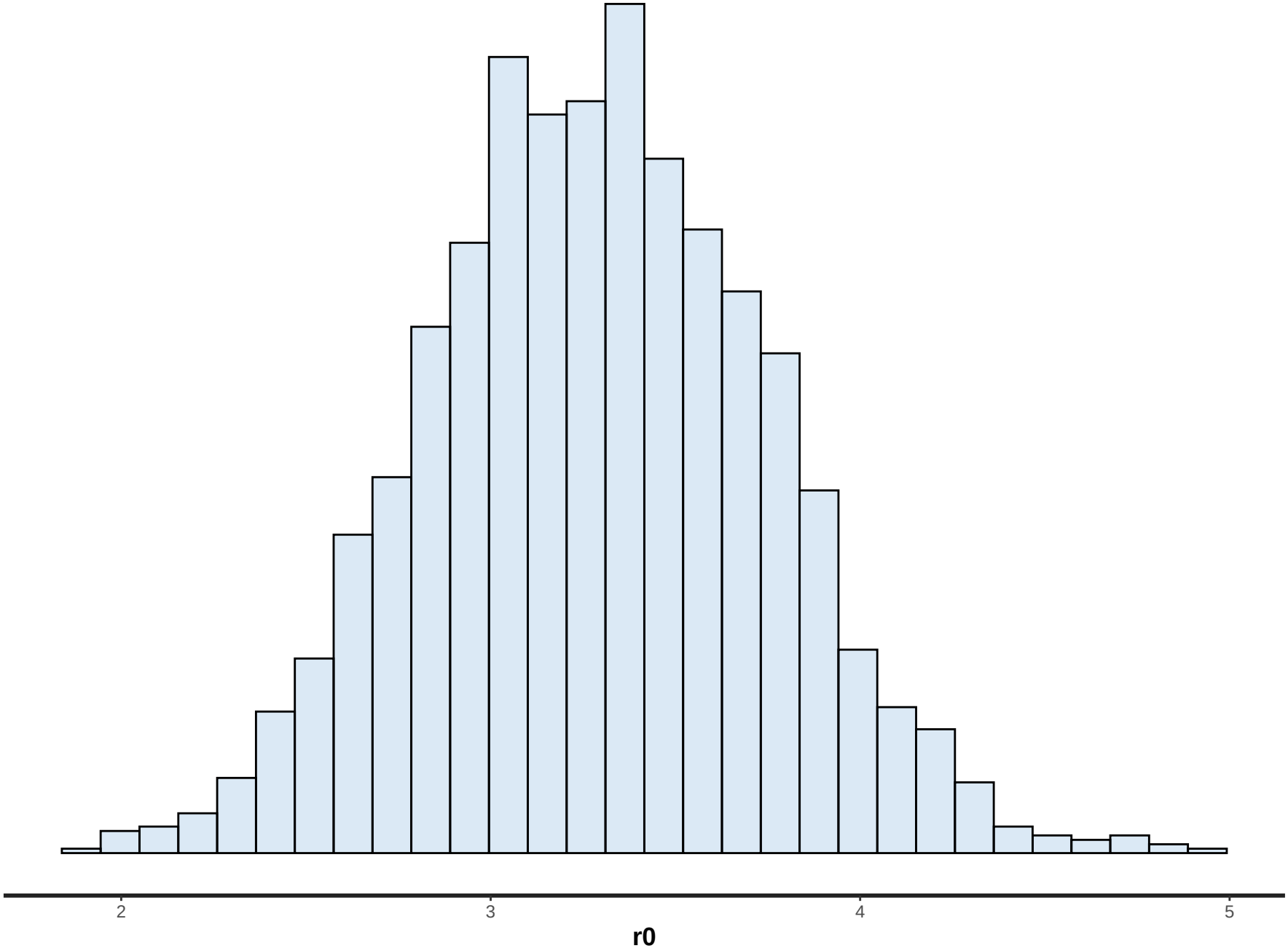

Long Term Death Projection
Number of COVID19 Deaths
600
400
200
0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

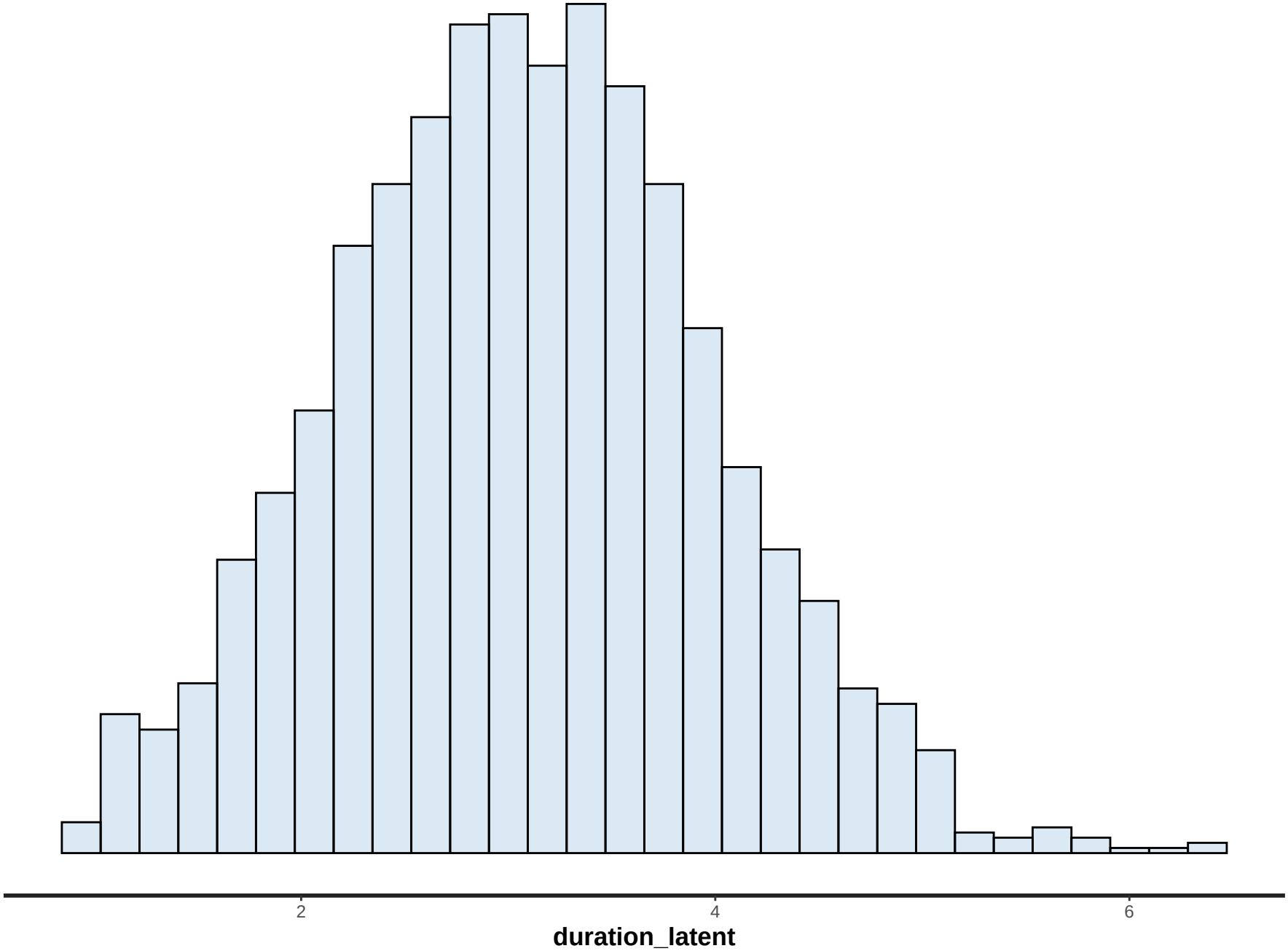

Effective Reproduction Number
Re
1.6
1.4
1.2
1.0
0.8
0.6
Apr 06
Apr 13
Apr 20
Apr 27
May 04
May 11
May 18
May 25
Jun 01
Jun 08
Jun 15
Jun 22
Jun 29
Jul 06
Jul 13
Jul 20
Jul 27
Aug 03
Median
5%−95%
15%−85%
25%−75%

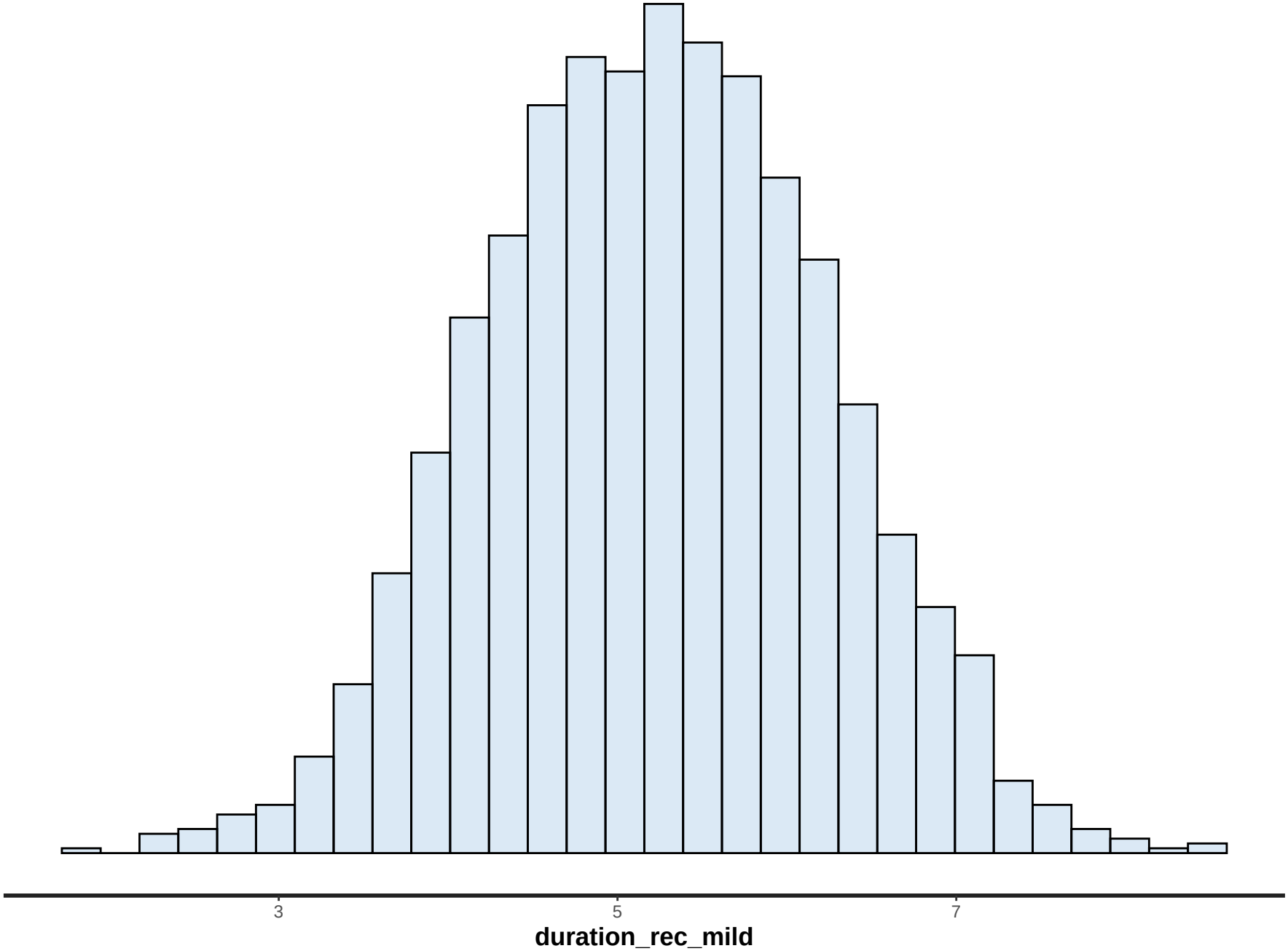
Rt as of 2020−08−05

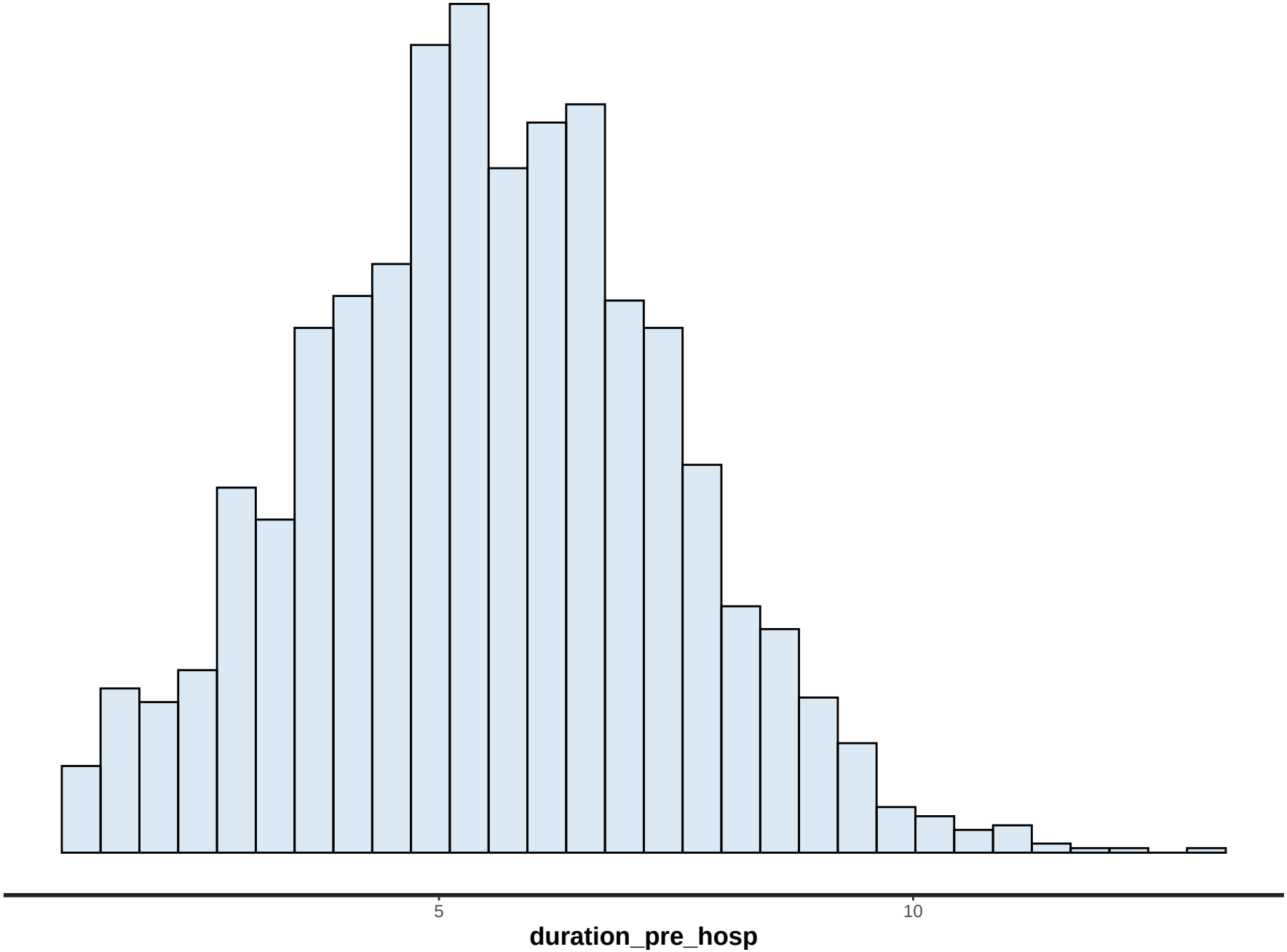
5%	10%	25%	50%	75%	90%	95%
0.63	0.70	0.79	0.88	0.96	1.05	1.13

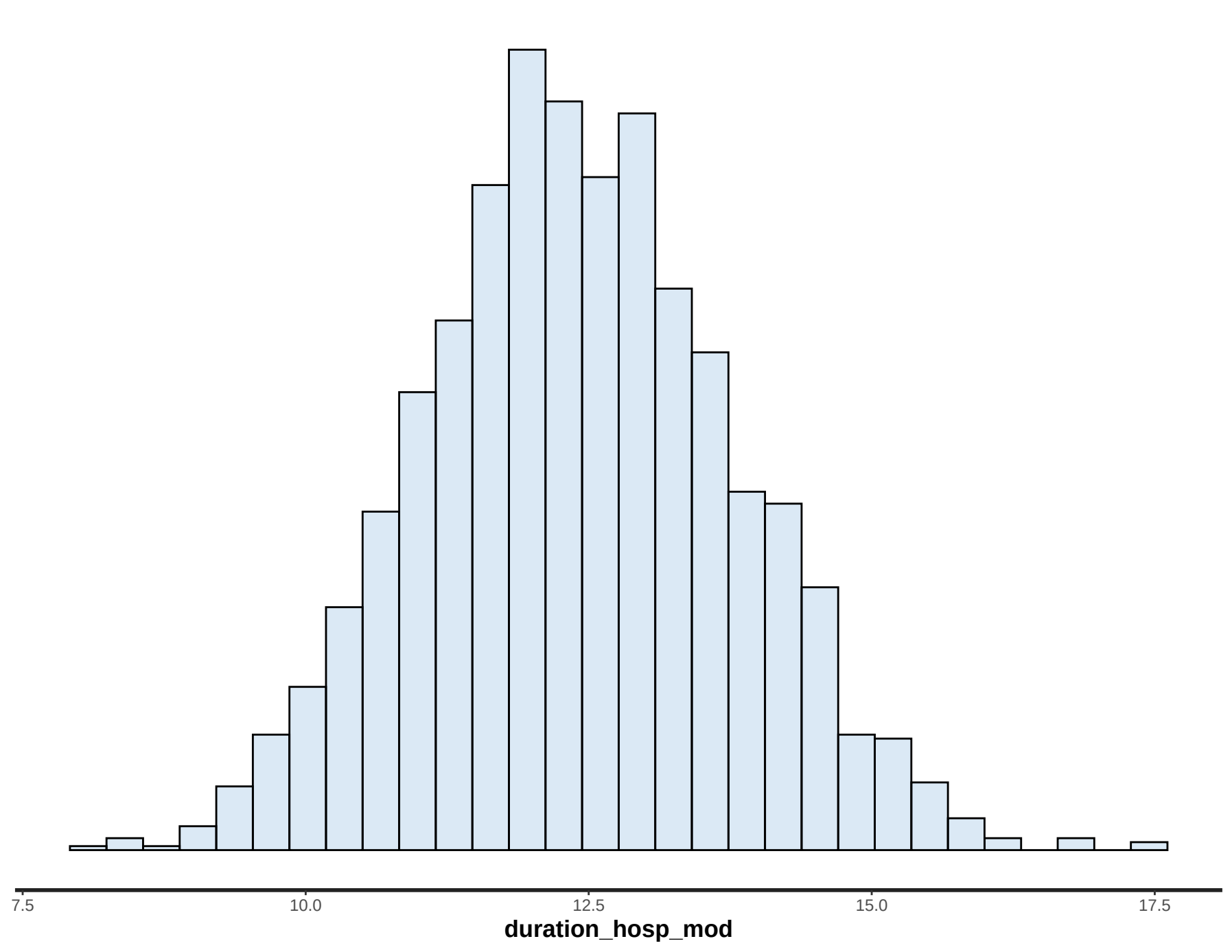


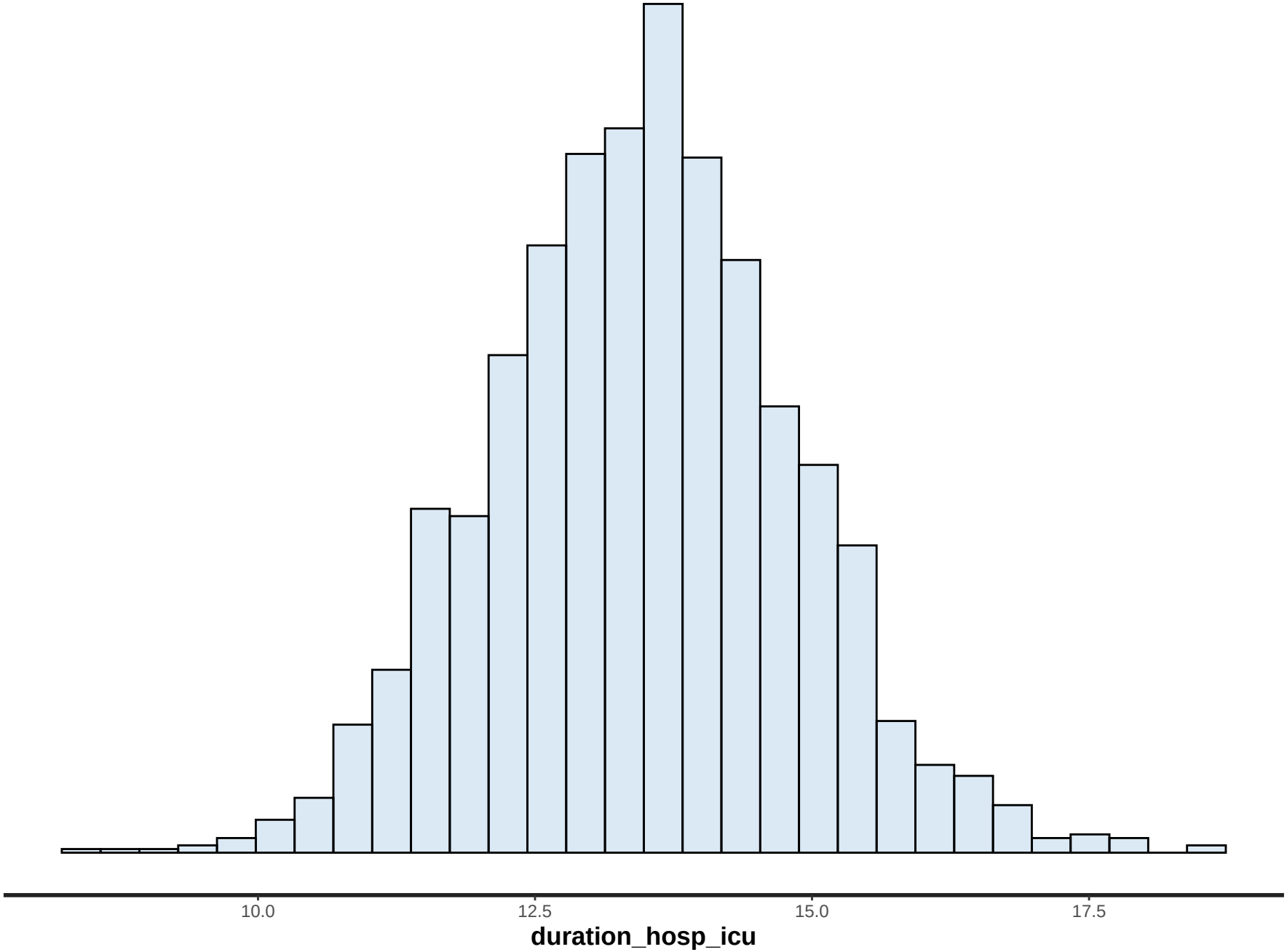

2
3
4
5
r0

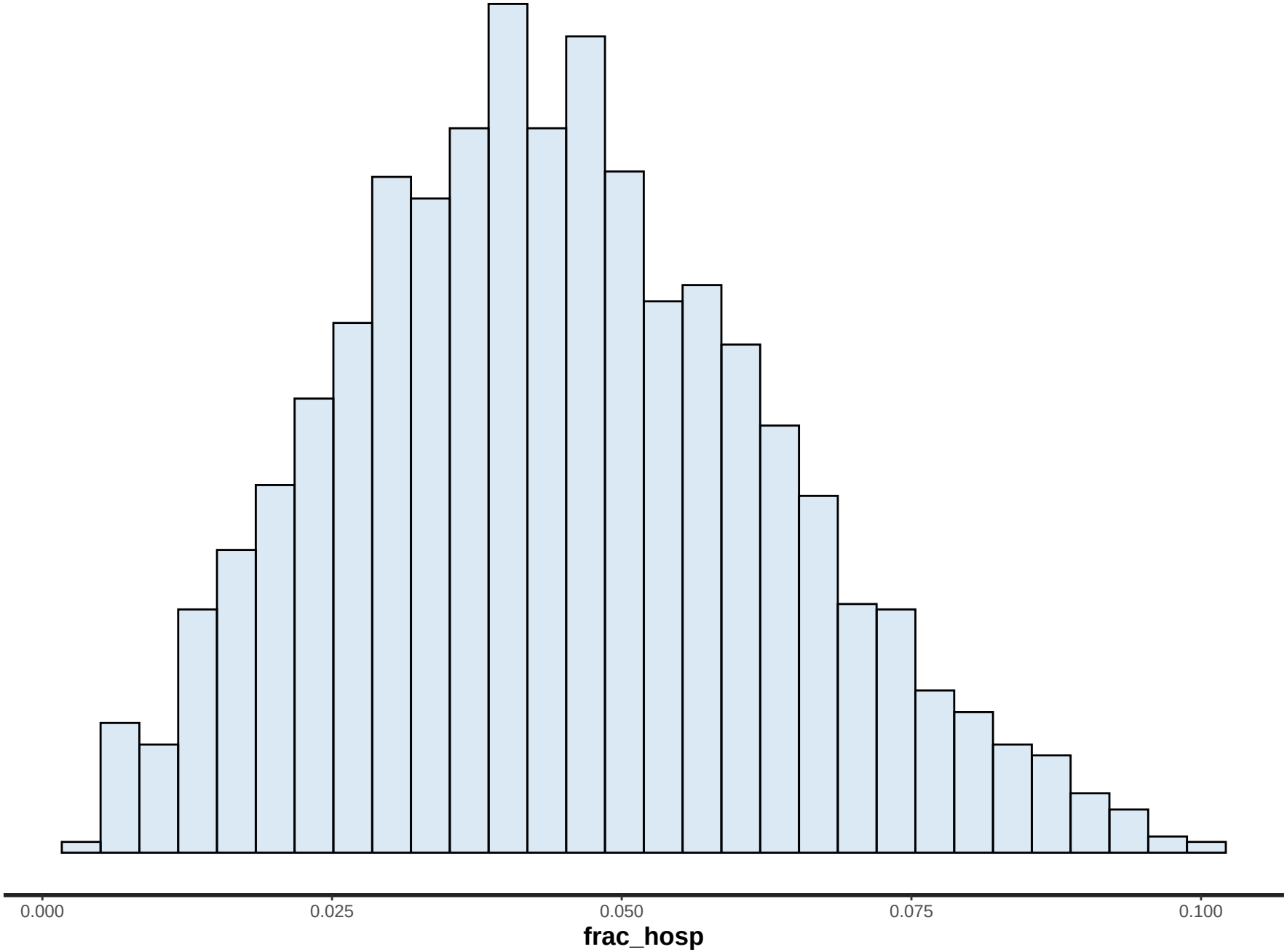

2
4
6
duration_latent

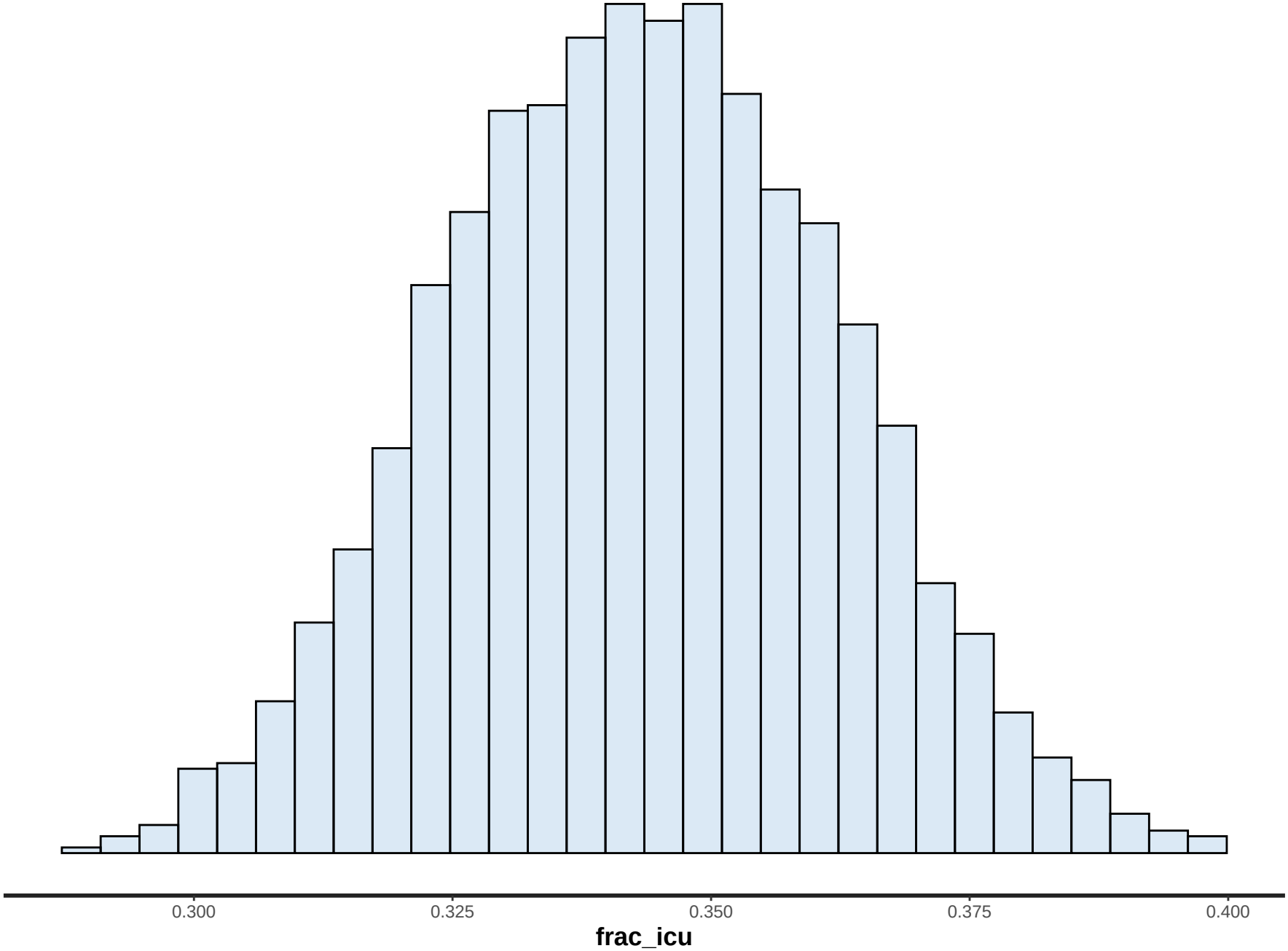

3
5
7
duration_rec_mild

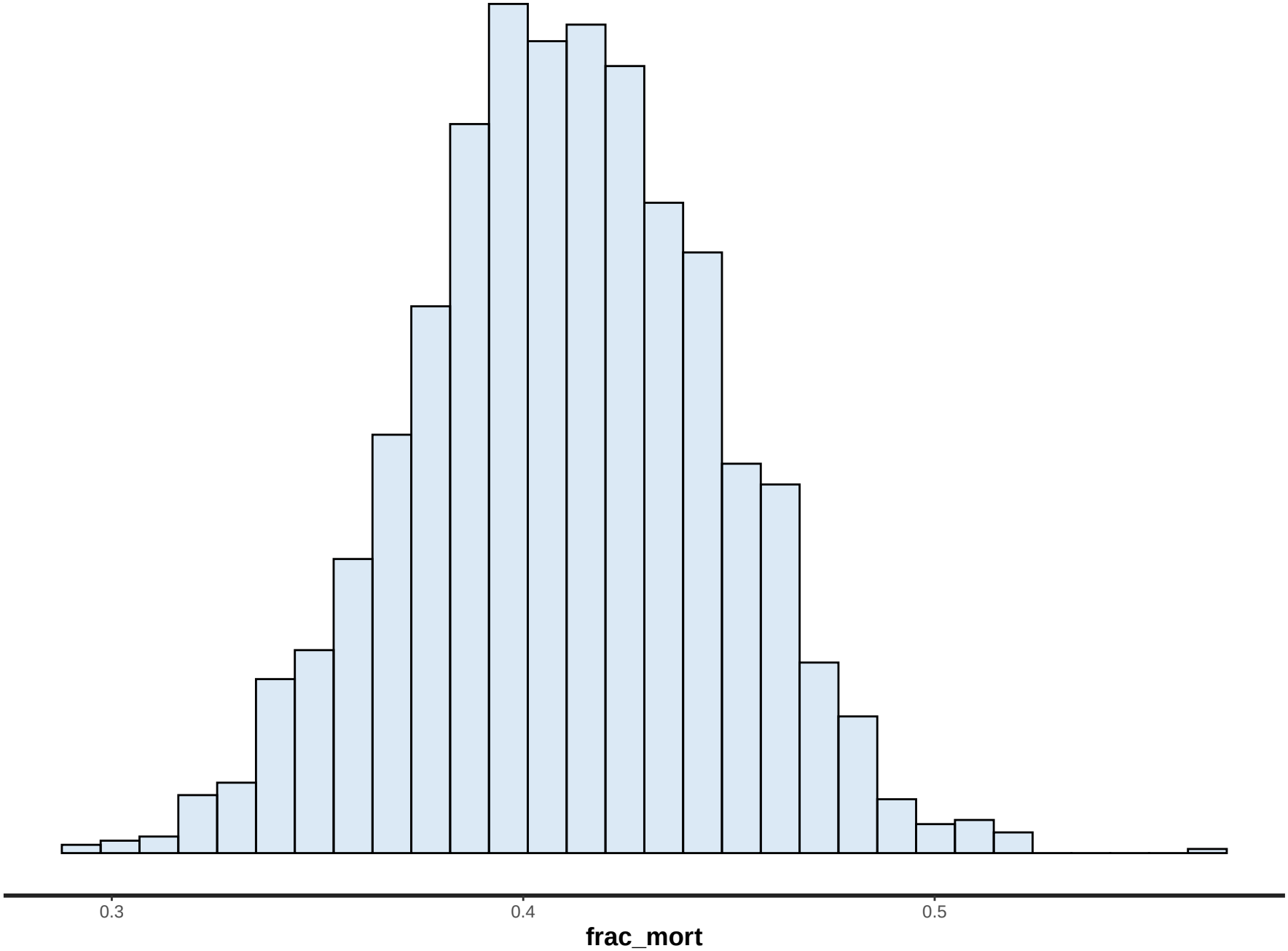

5
10
duration_pre_hosp

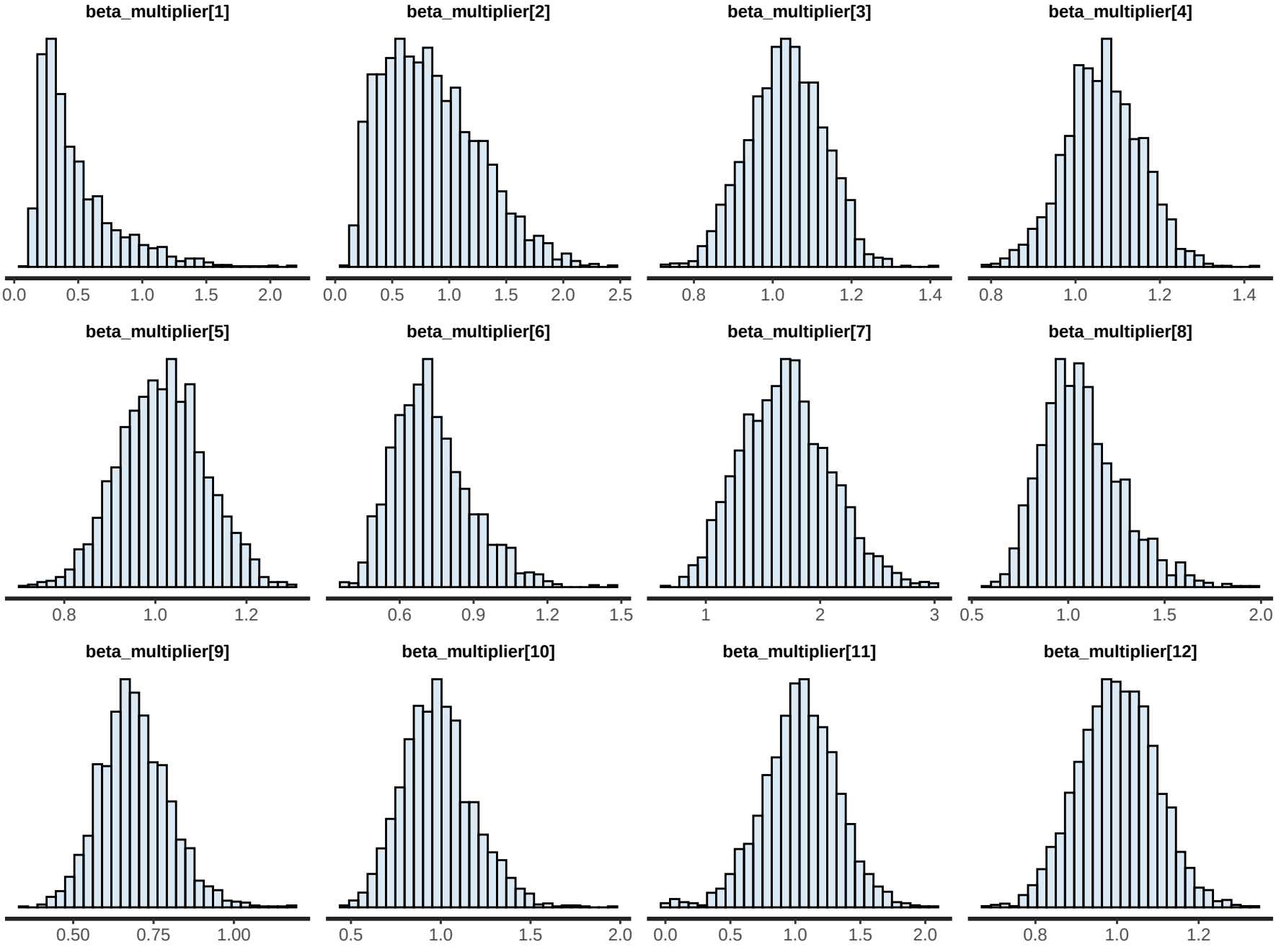

7.5
10.0
12.5
15.0
17.5
duration_hosp_mod

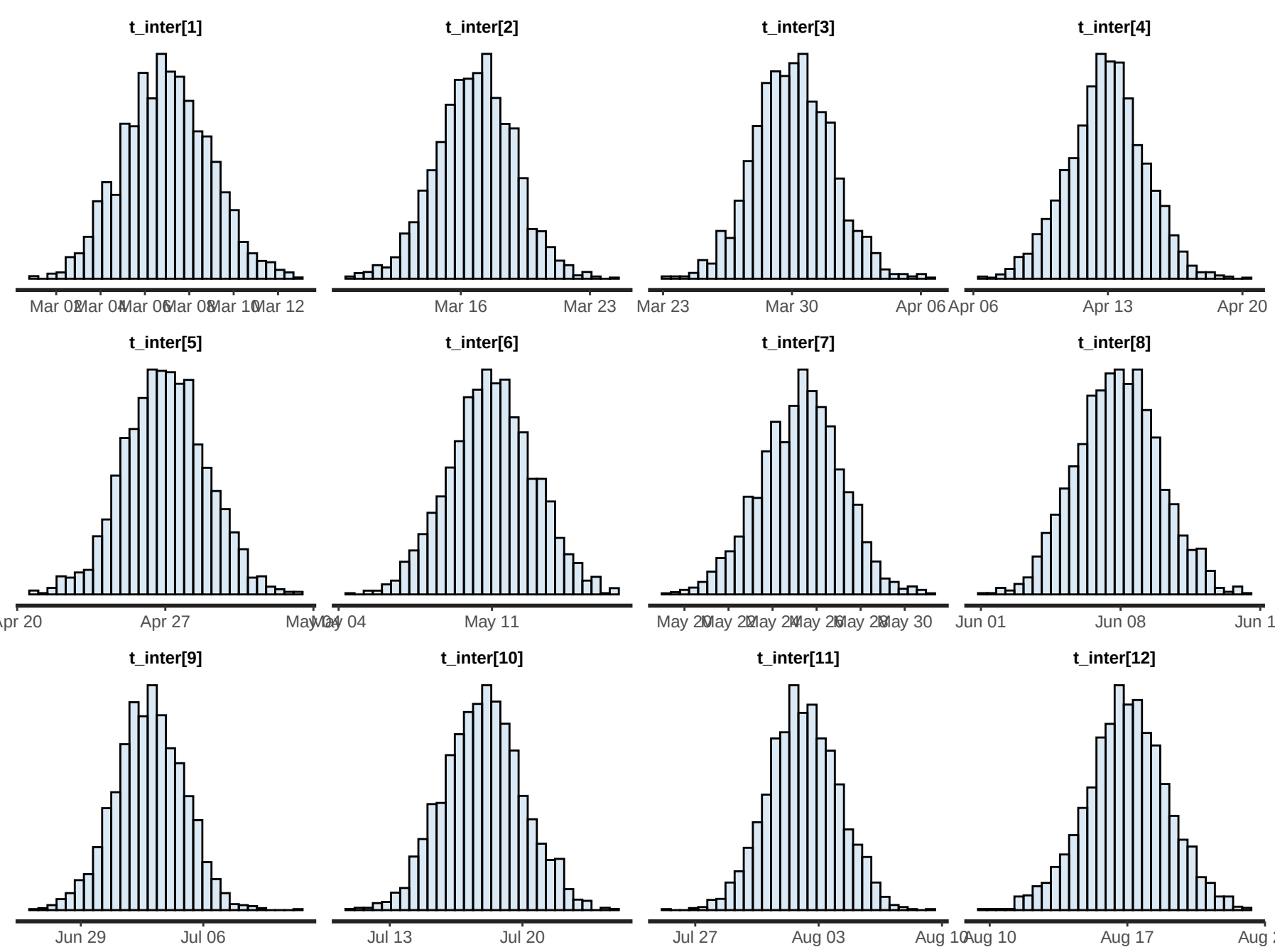

10.0
12.5
15.0
17.5
duration_hosp_icu

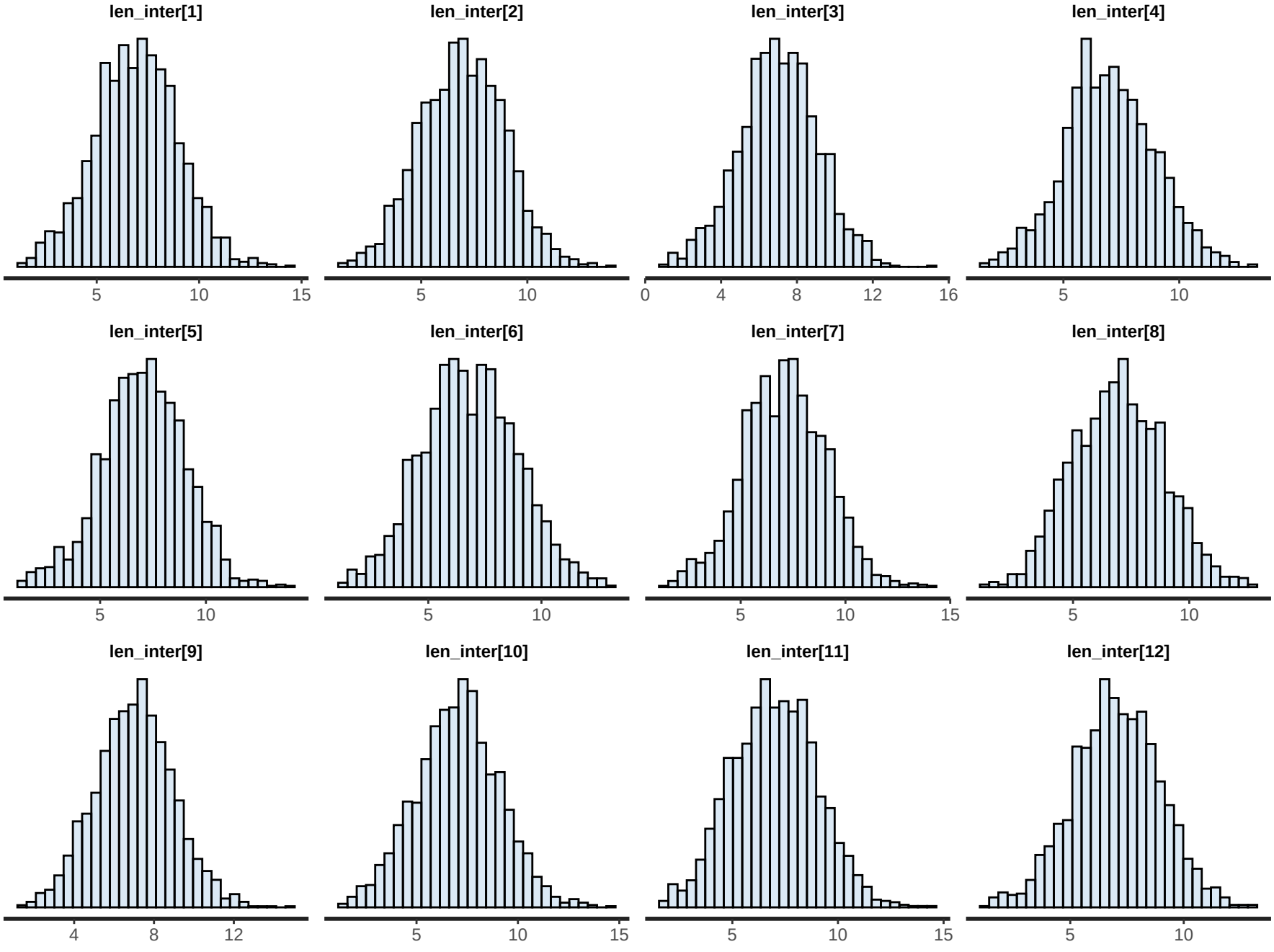

0.000
0.025
0.050
0.075
0.100
frac_hosp

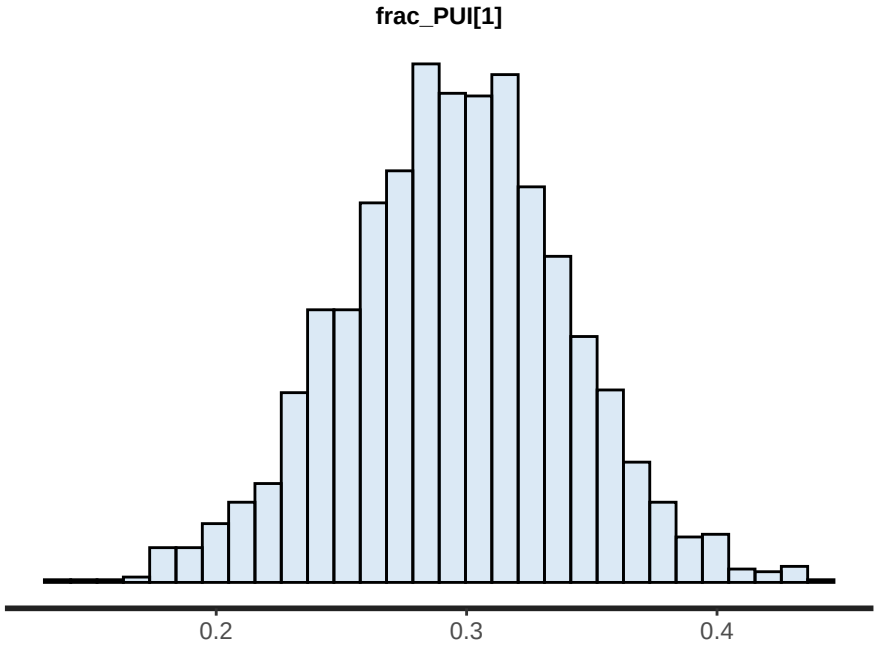

0.300
0.325
0.350
0.375
0.400
frac_icu

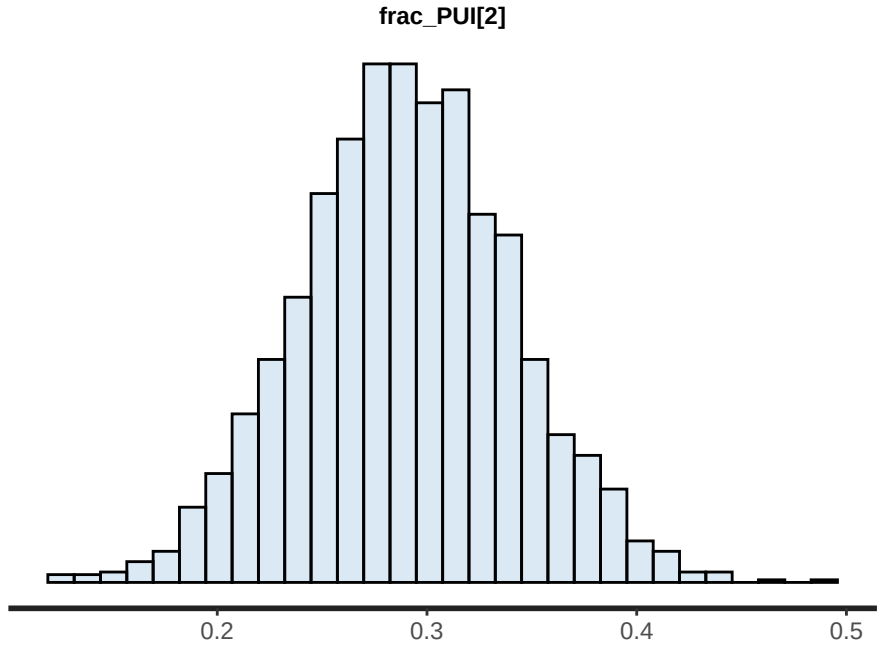

0.3
0.4
0.5
frac_mort

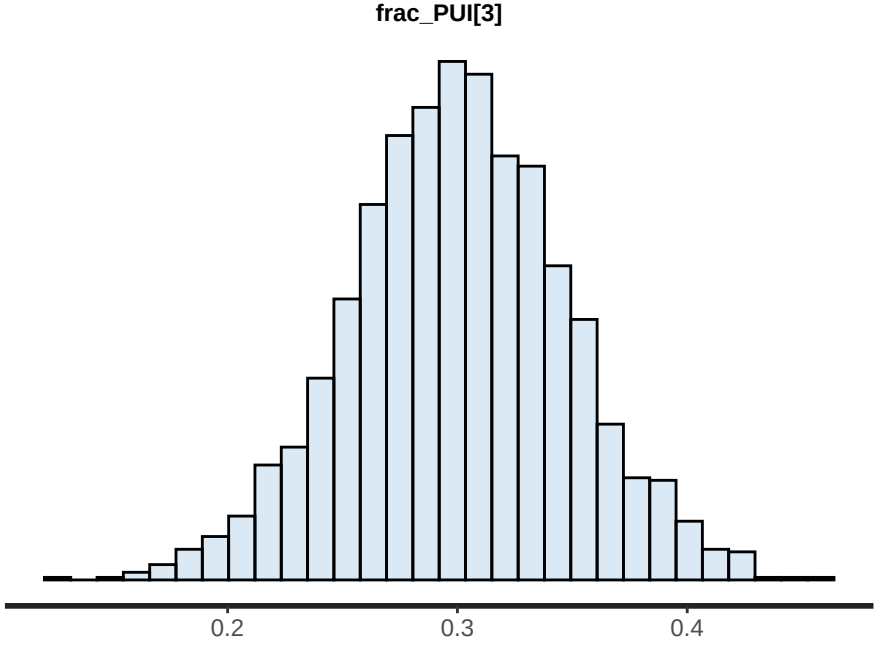

beta_multiplier[1]
0.0 0.5 1.0 1.5 2.0
beta_multiplier[2]
0.0 0.5 1.0 1.5 2.0 2.5
beta_multiplier[3]
0.8 1.0 1.2 1.4
beta_multiplier[4]
0.8 1.0 1.2 1.4
beta_multiplier[5]
0.8 1.0 1.2
beta_multiplier[6]
0.6 0.9 1.2 1.5
beta_multiplier[7]
1 2 3
beta_multiplier[8]
0.5 1.0 1.5 2.0
beta_multiplier[9]
0.50 0.75 1.00
beta_multiplier[10]
0.5 1.0 1.5 2.0
beta_multiplier[11]
0.0 0.5 1.0 1.5 2.0
beta_multiplier[12]
0.8 1.0 1.2

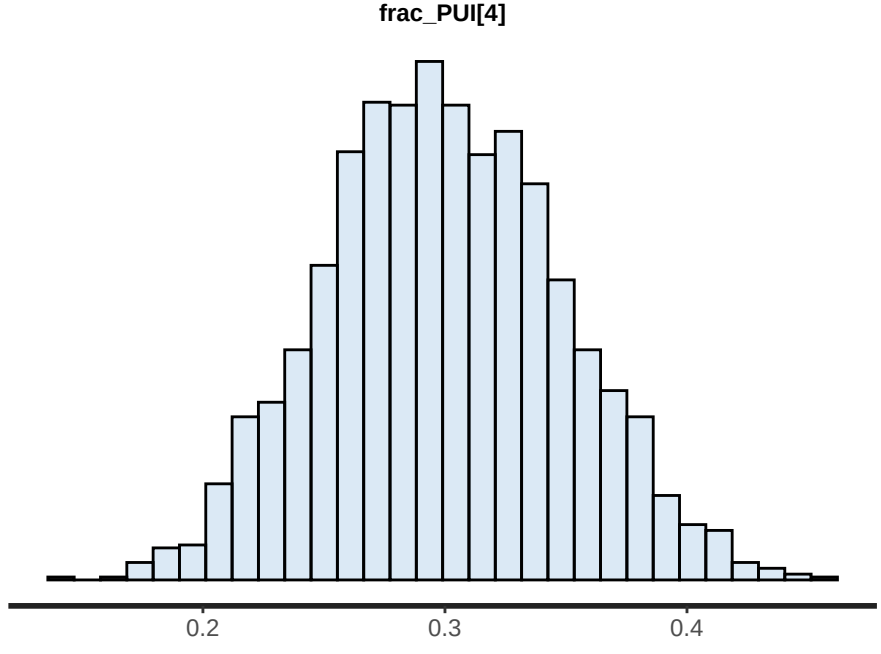

t_inter[1]
Mar 02
Mar 04
Mar 06
Mar 08
Mar 10
Mar 12
t_inter[2]
Mar 16
Mar 23
t_inter[3]
Mar 23
Mar 30
Apr 06
t_inter[4]
Apr 06
Apr 13
Apr 20
t_inter[5]
Apr 20
Apr 27
May 04
t_inter[6]
May 04
May 11
t_inter[7]
May 20
May 22
May 24
May 26
May 28
May 30
t_inter[8]
Jun 01
Jun 08
t_inter[9]
Jun 29
Jul 06
t_inter[10]
Jul 13
Jul 20
t_inter[11]
Jul 27
Aug 03
t_inter[12]
Aug 10
Aug 17

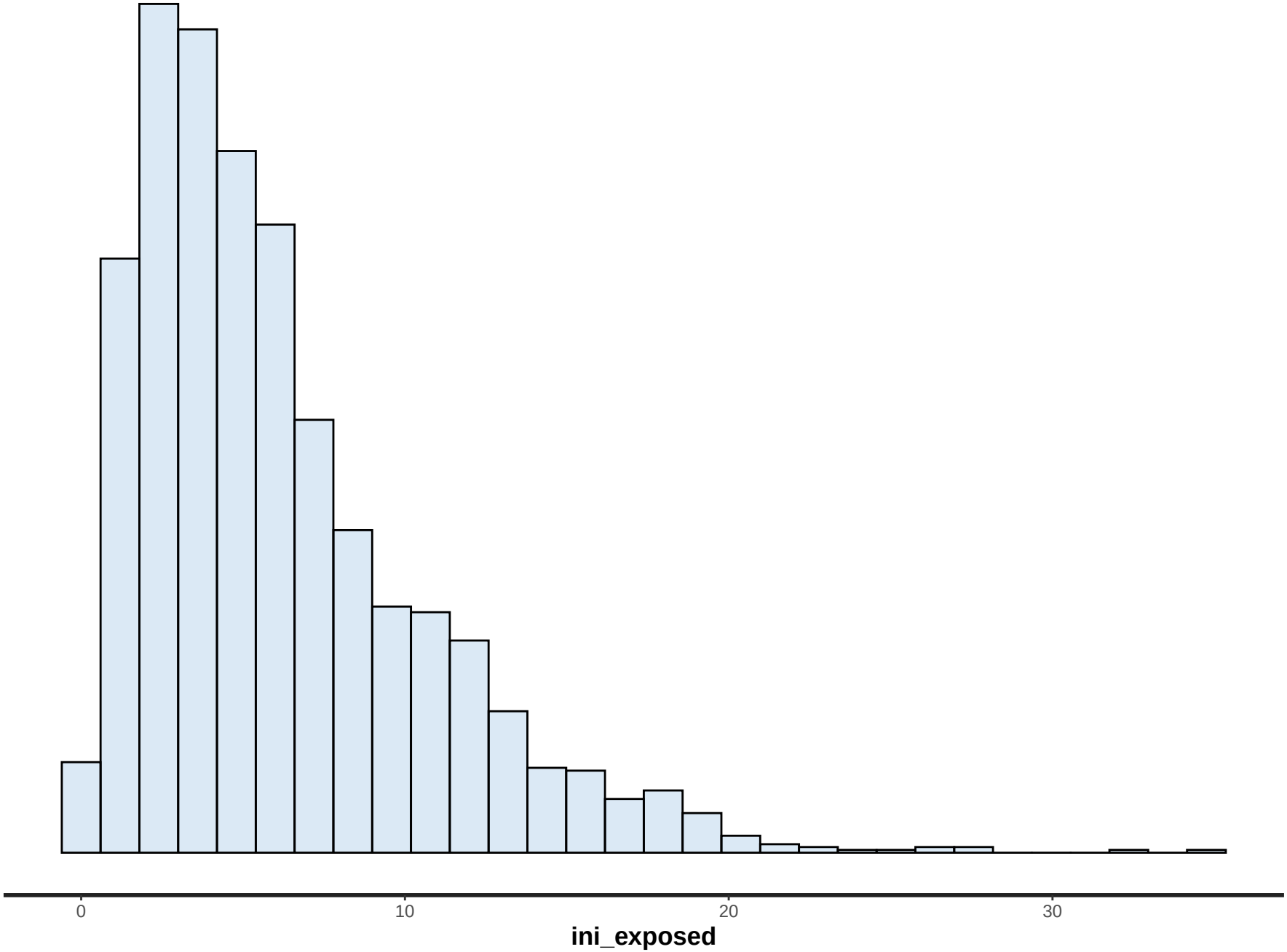

len_inter[1]
5
10
15
len_inter[2]
5
10
len_inter[3]
0
4
8
12
16
len_inter[4]
5
10
len_inter[5]
5
10
len_inter[6]
5
10
len_inter[7]
5
10
15
len_inter[8]
5
10
len_inter[9]
4
8
12
len_inter[10]
5
10
15
len_inter[11]
5
10
15
len_inter[12]
5
10

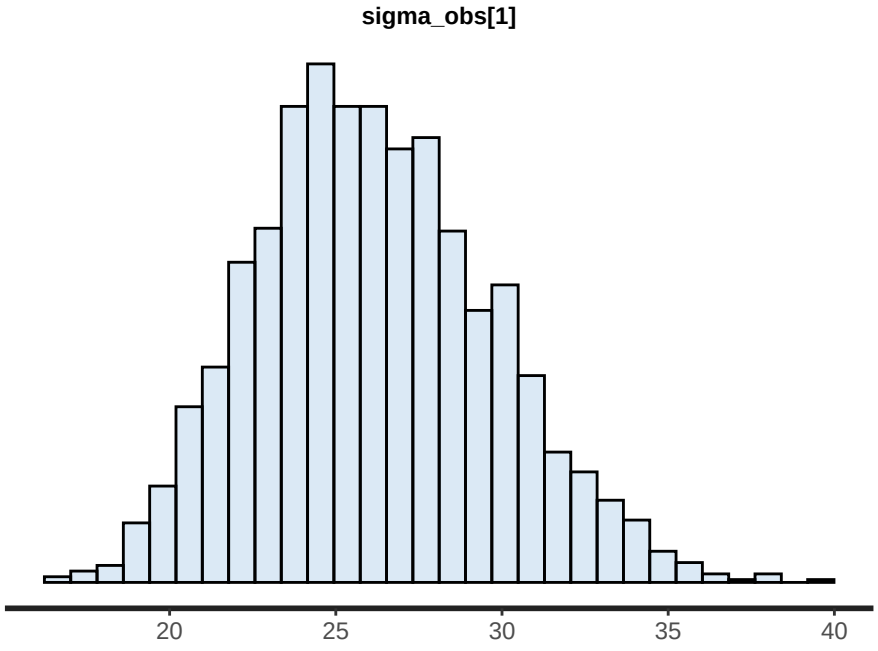

frac_PUI[1]
0.2
0.3
0.4

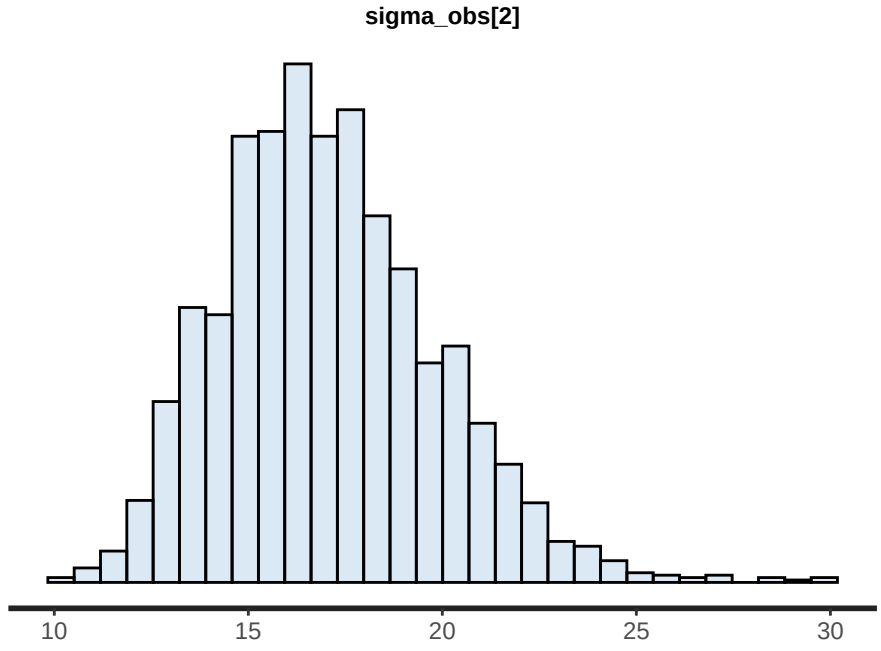

frac_PUI[2]
0.2
0.3
0.4
0.5

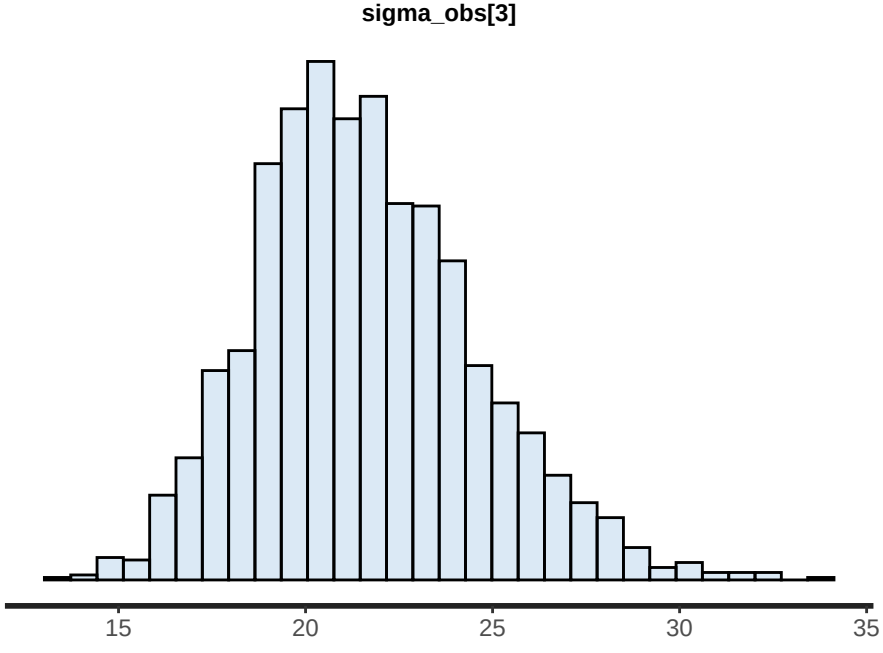

frac_PUI[3]
0.2
0.3
0.4

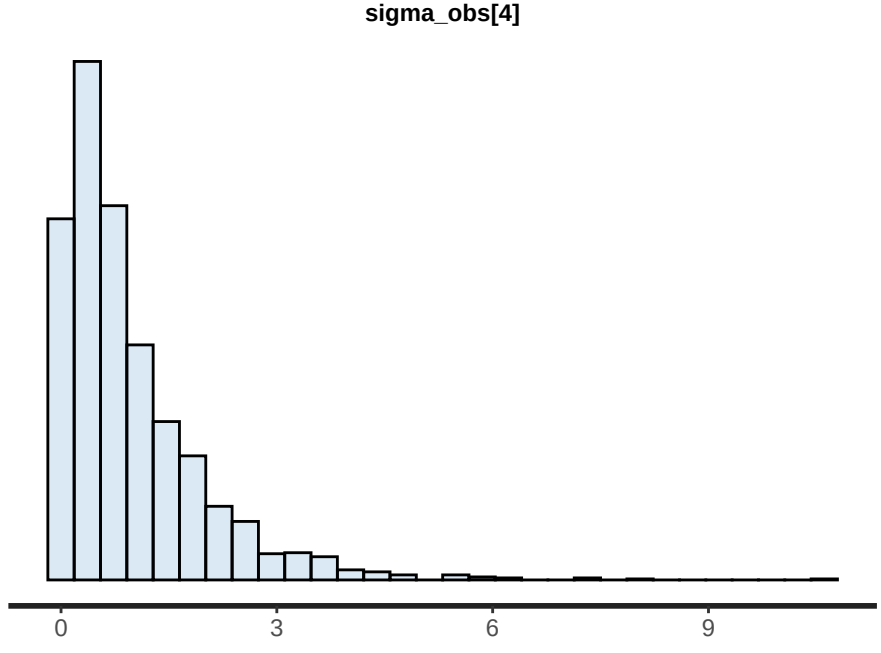

frac_PUI[4]
0.2
0.3
0.4


0
10
20
30
ini_exposed


sigma_obs[1]
20
25
30
35
40


sigma_obs[2]
10
15
20
25
30


sigma_obs[3]
15
20
25
30
35


sigma_obs[4]
0
3
6
9