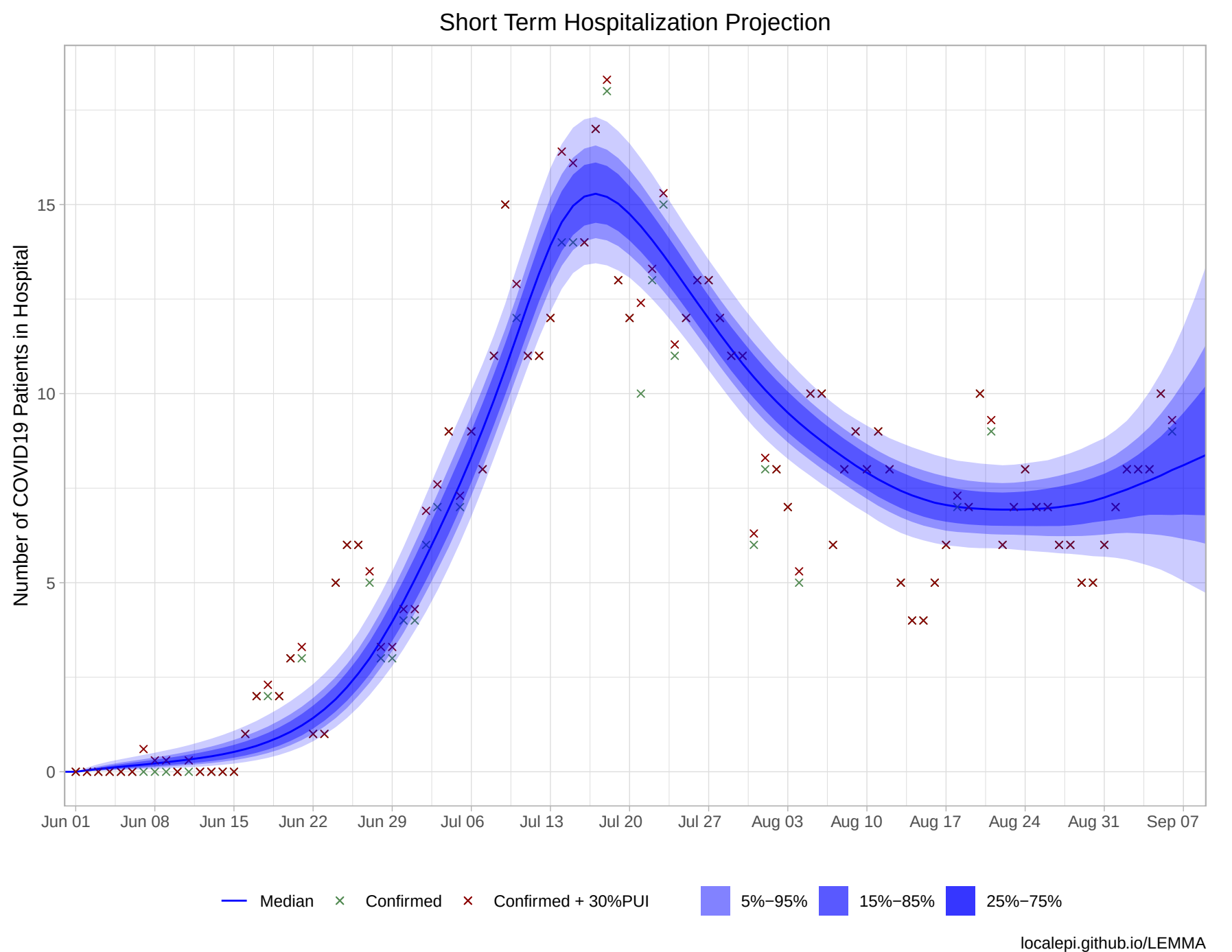
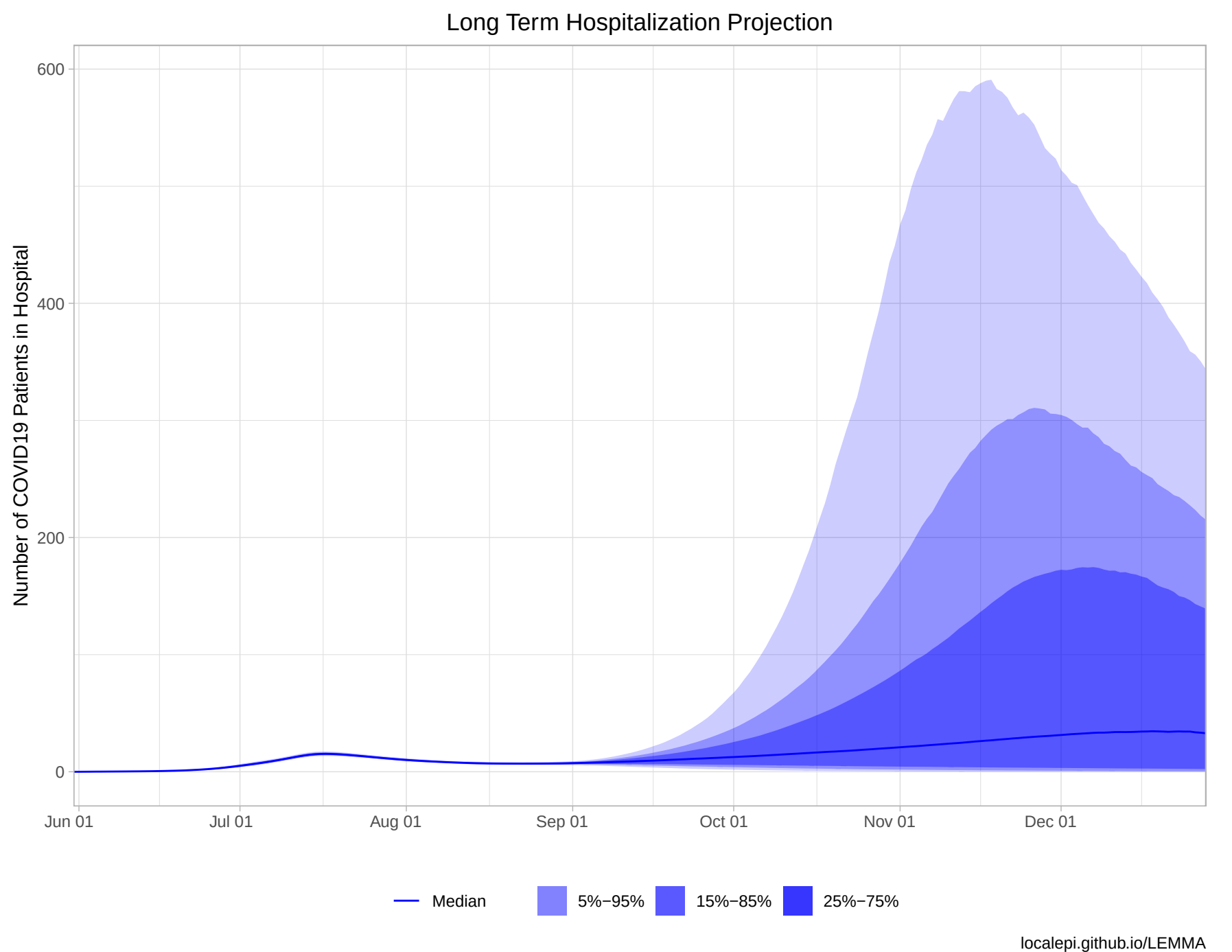
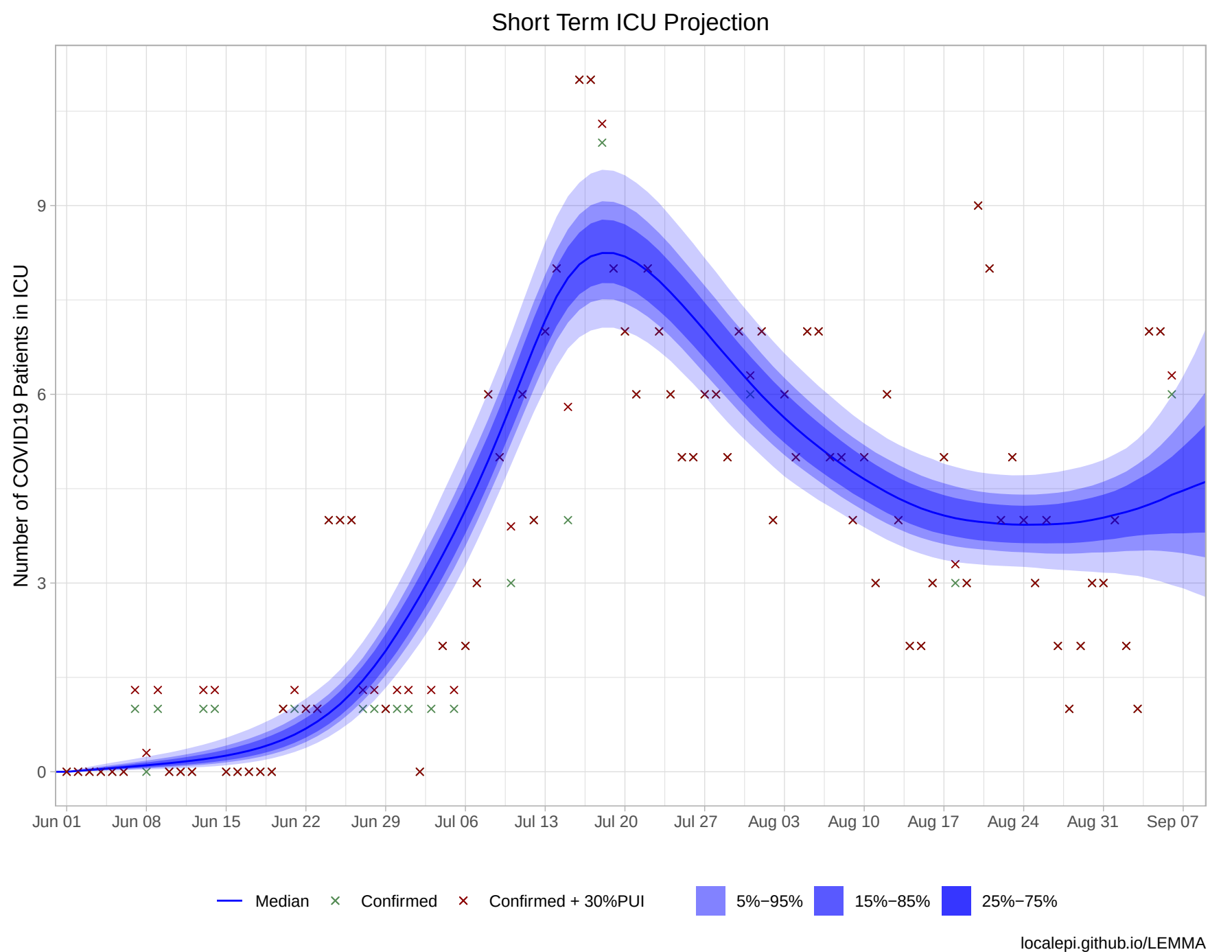
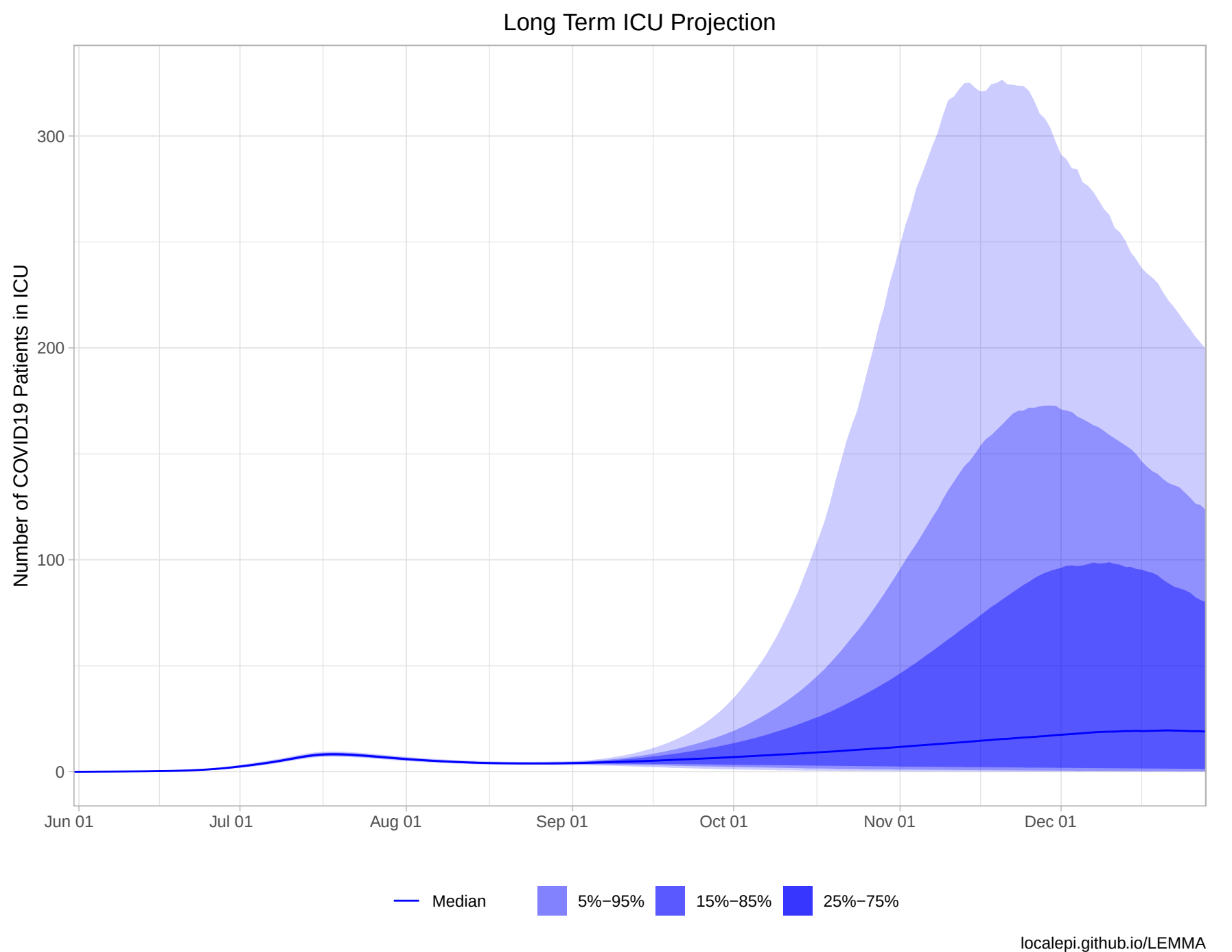
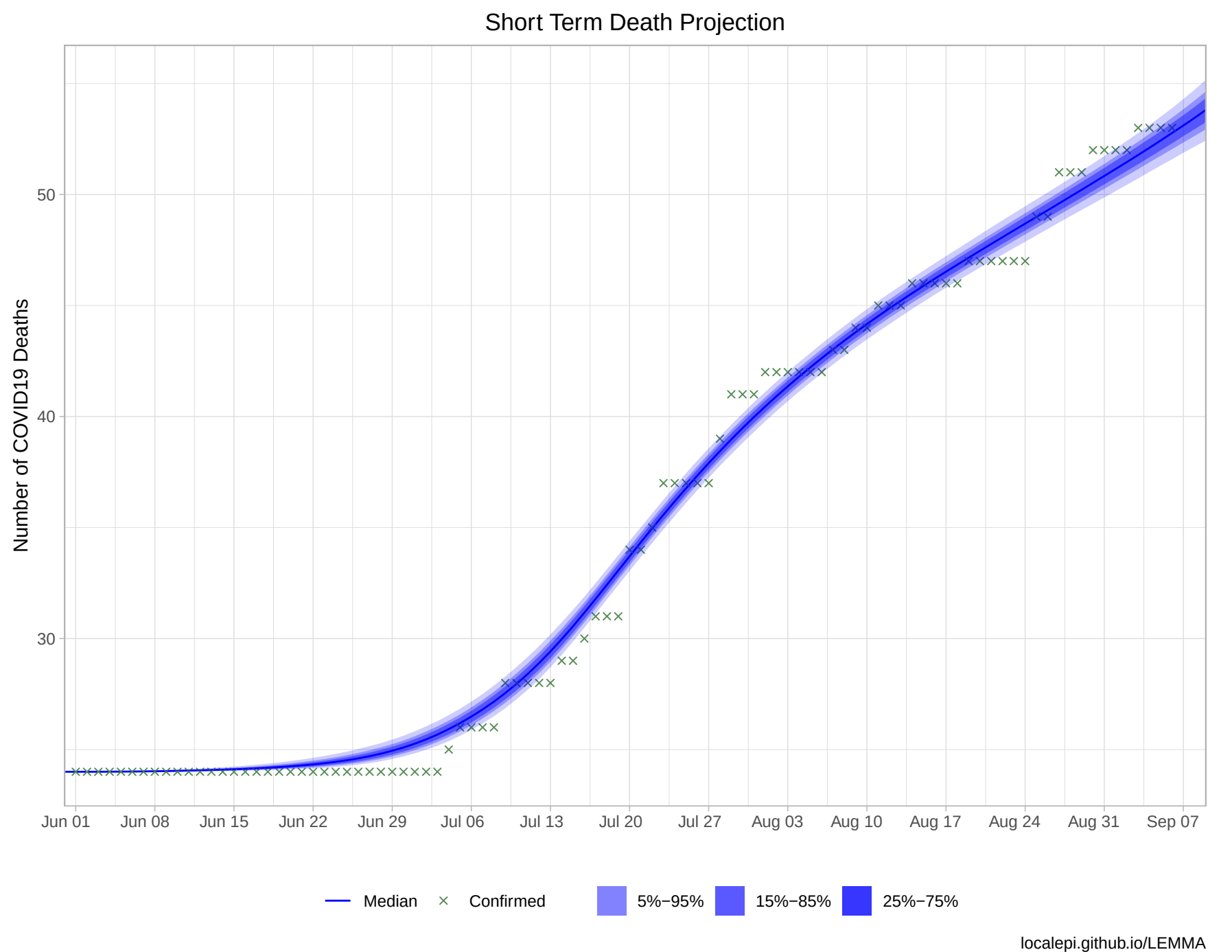
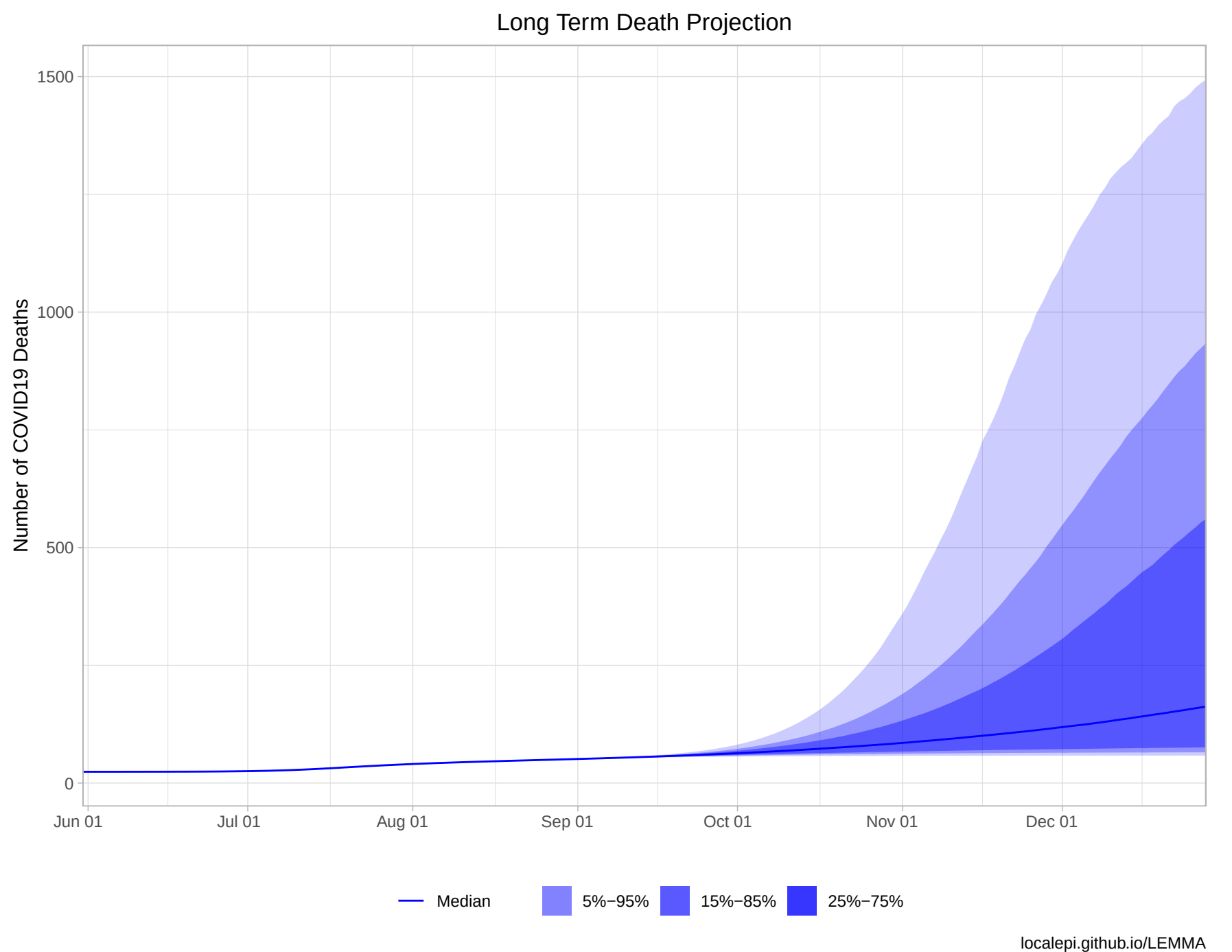

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
5
10
15
Jun 01
Jun 08
Jun 15
Jun 22
Jun 29
Jul 06
Jul 13
Jul 20
Jul 27
Aug 03
Aug 10
Aug 17
Aug 24
Aug 31
Sep 07
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

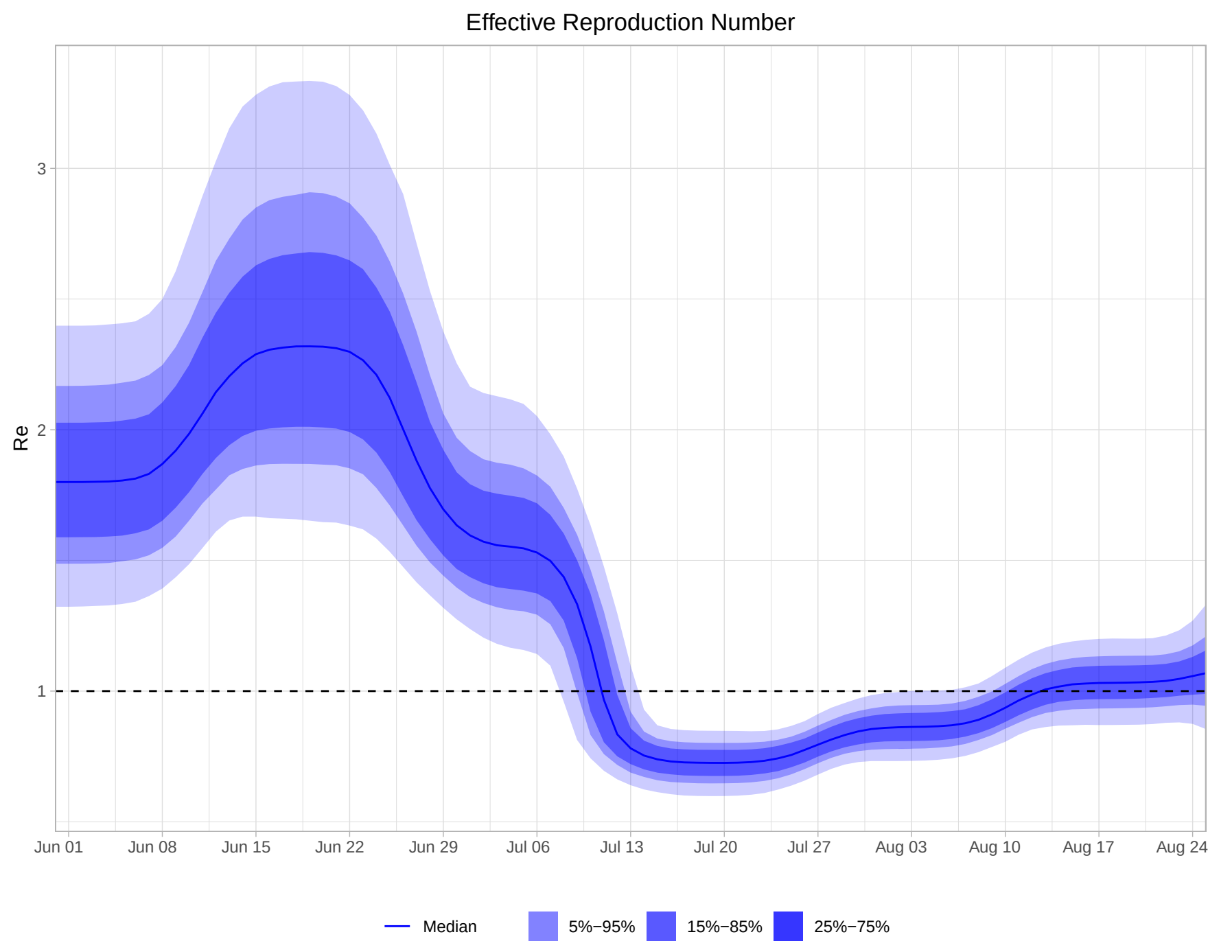

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
600
400
200
0
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


Short Term ICU Projection
Number of COVID19 Patients in ICU
0
3
6
9
Jun 01
Jun 08
Jun 15
Jun 22
Jun 29
Jul 06
Jul 13
Jul 20
Jul 27
Aug 03
Aug 10
Aug 17
Aug 24
Aug 31
Sep 07
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
300
200
100
0
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

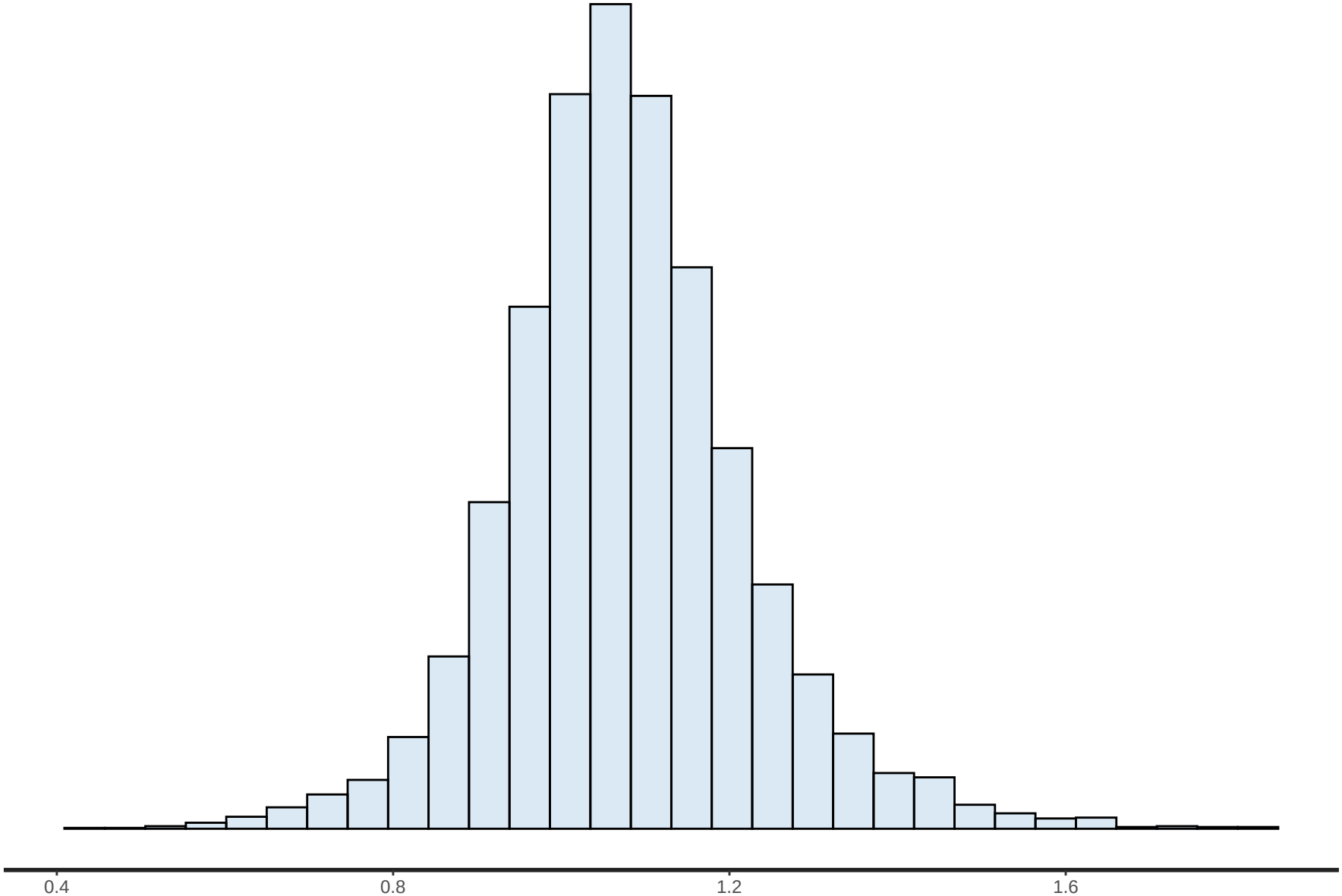

Short Term Death Projection
Number of COVID19 Deaths
50
40
30
Jun 01
Jun 08
Jun 15
Jun 22
Jun 29
Jul 06
Jul 13
Jul 20
Jul 27
Aug 03
Aug 10
Aug 17
Aug 24
Aug 31
Sep 07
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

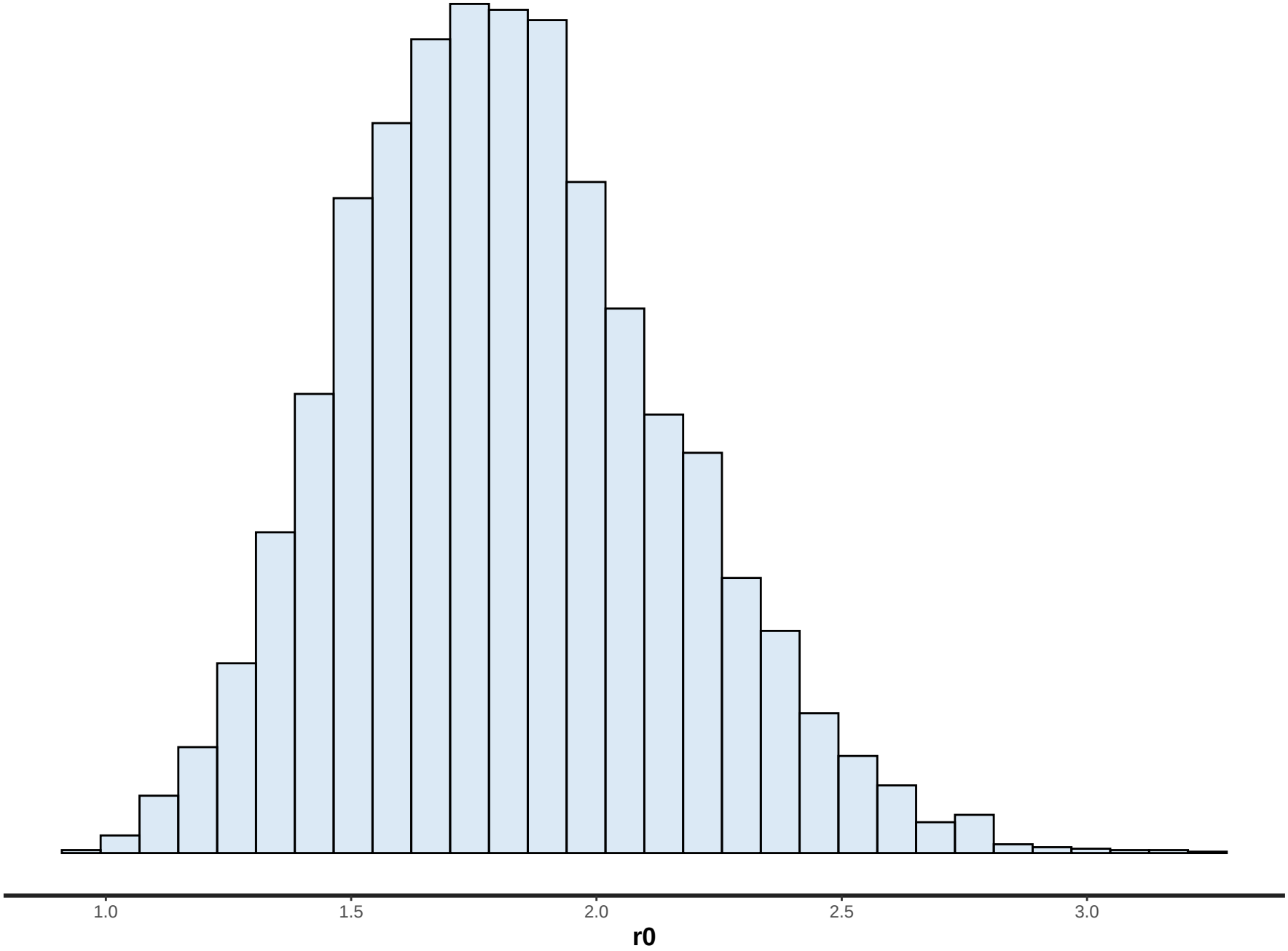

Long Term Death Projection
Number of COVID19 Deaths
1500
1000
500
0
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

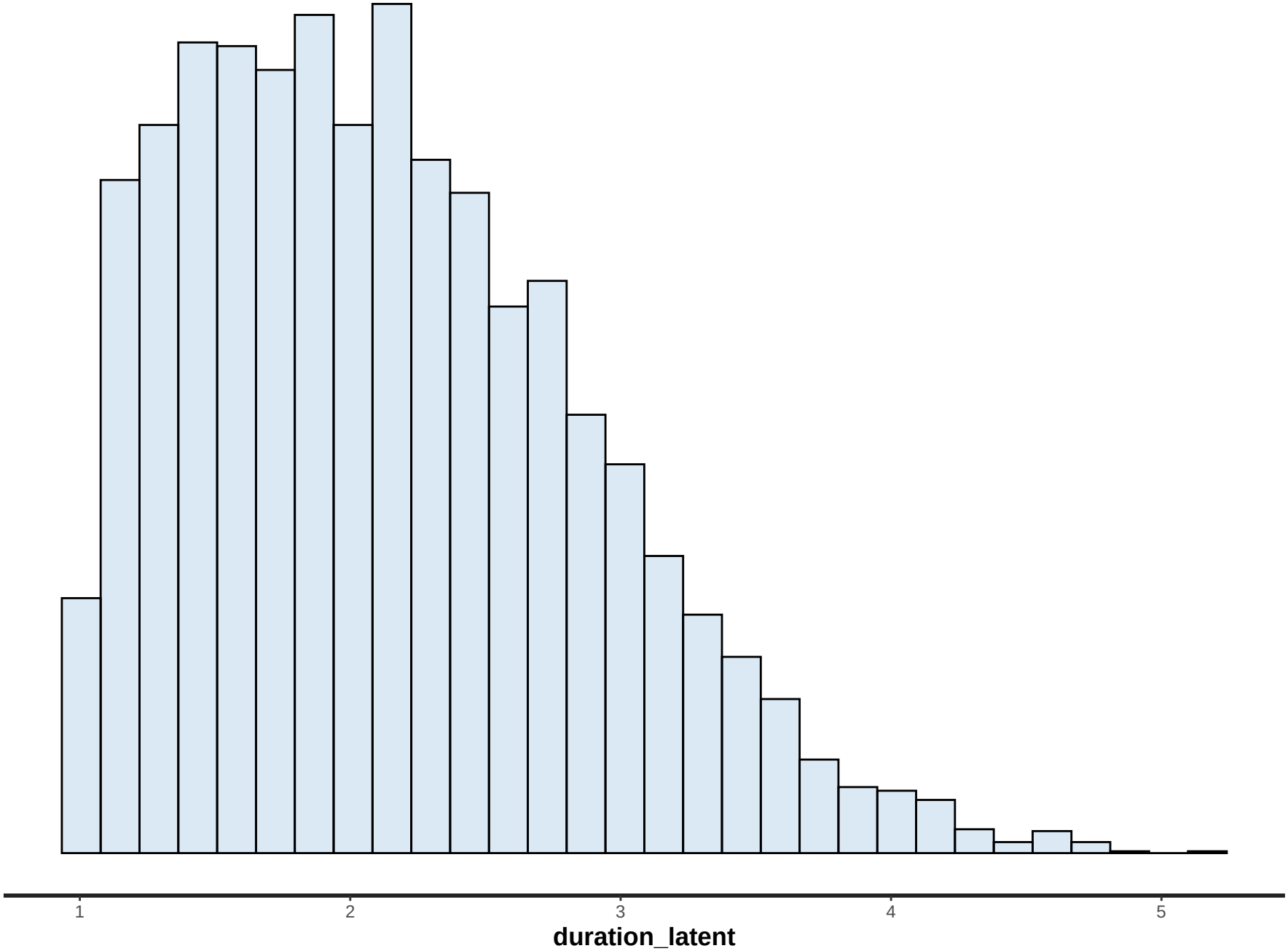

Effective Reproduction Number
Re
3
2
1
Jun 01
Jun 08
Jun 15
Jun 22
Jun 29
Jul 06
Jul 13
Jul 20
Jul 27
Aug 03
Aug 10
Aug 17
Aug 24
Median
5%−95%
15%−85%
25%−75%

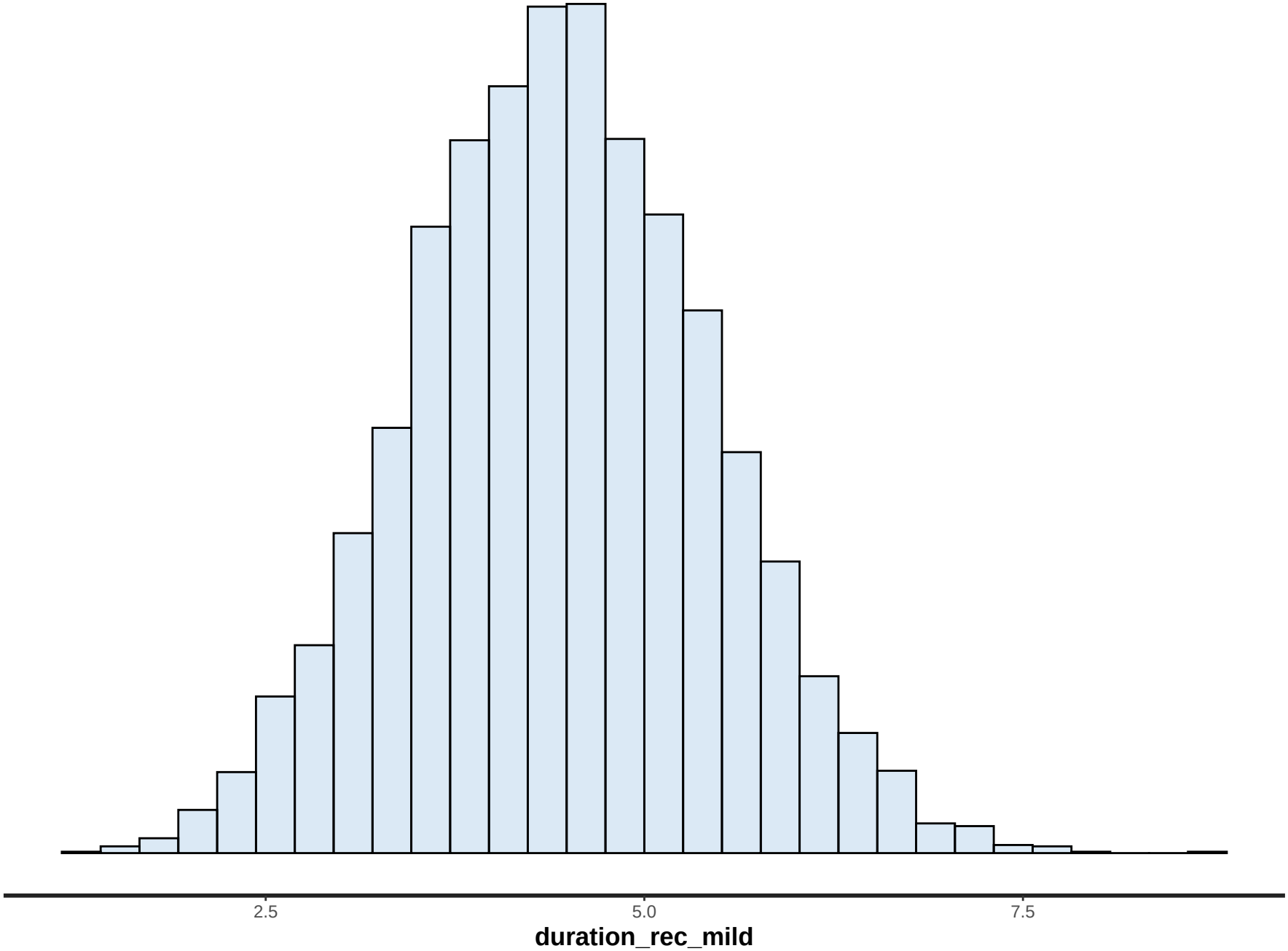
Rt as of 2020−08−25

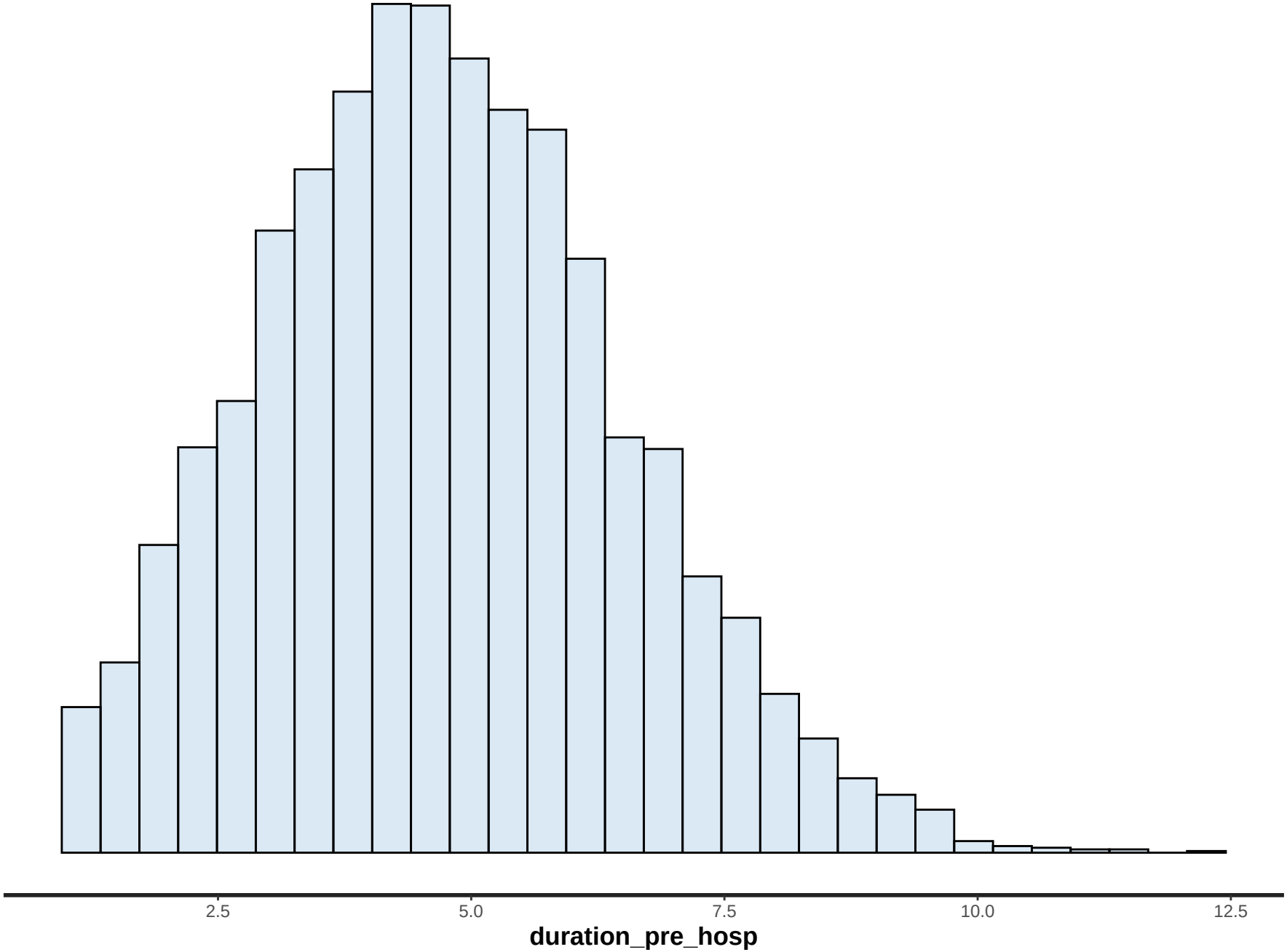
5%	10%	25%	50%	75%	90%	95%
0.85	0.91	0.99	1.07	1.16	1.26	1.33

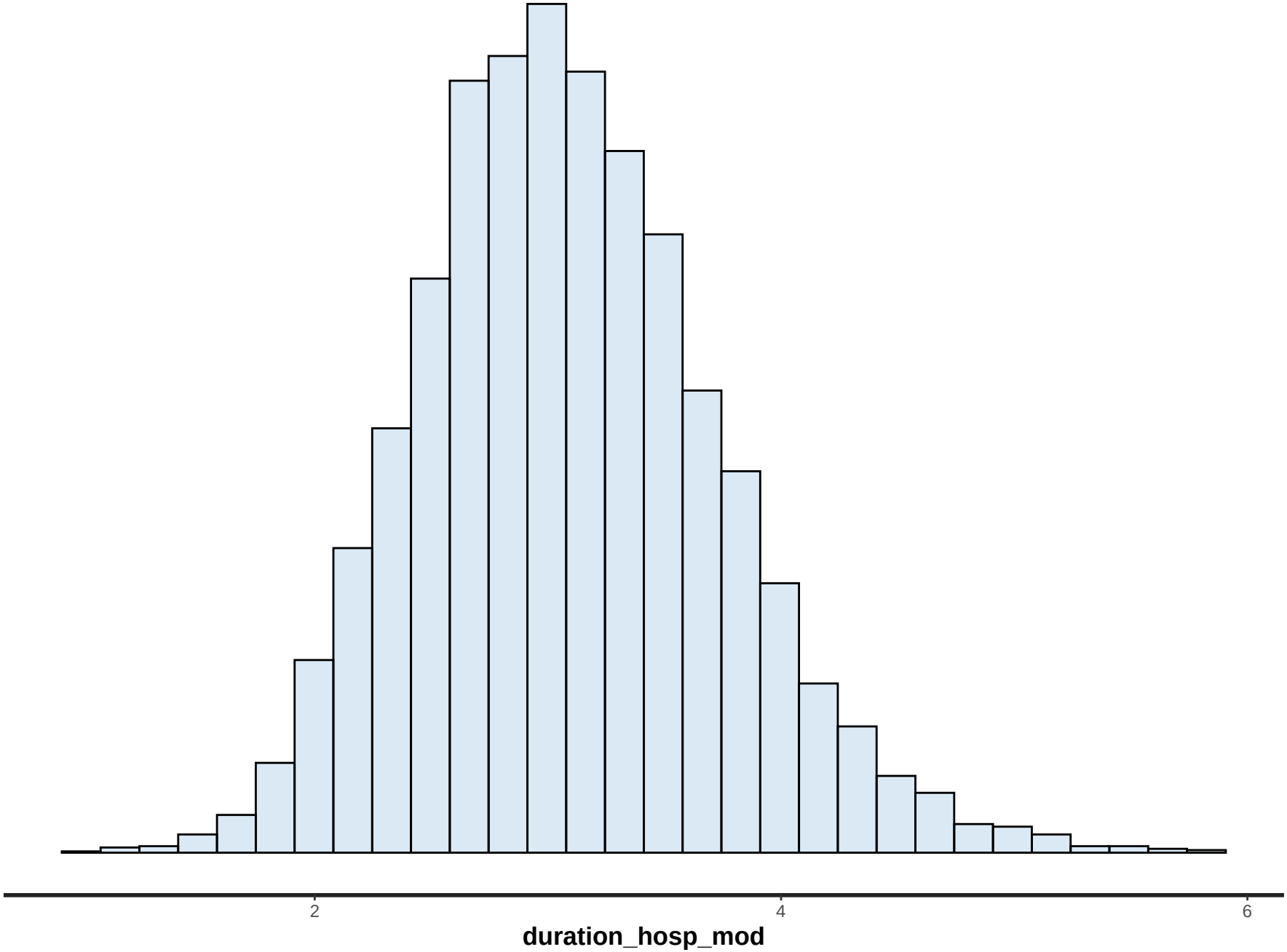


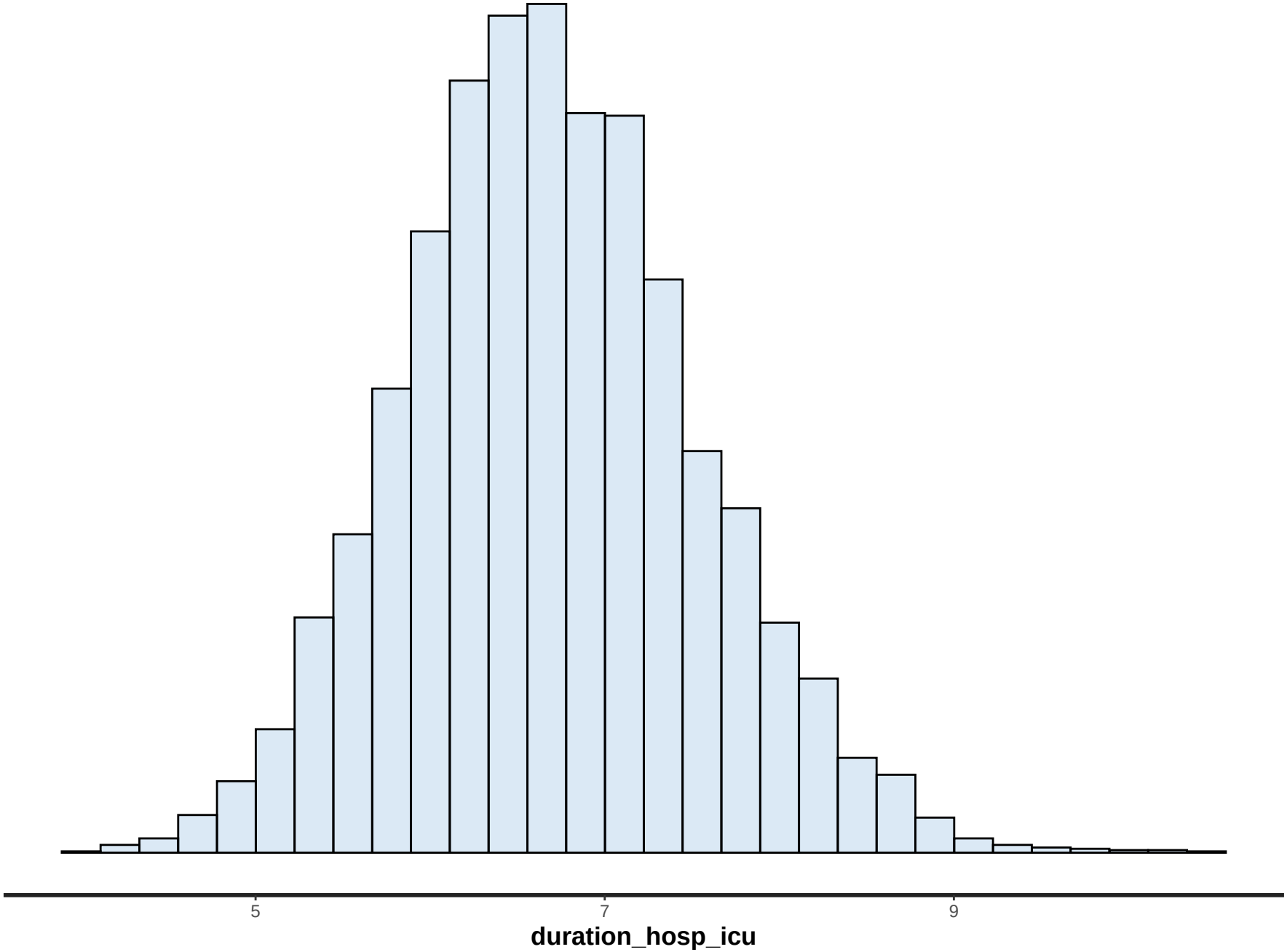

1.0
1.5
2.0
2.5
3.0
r0

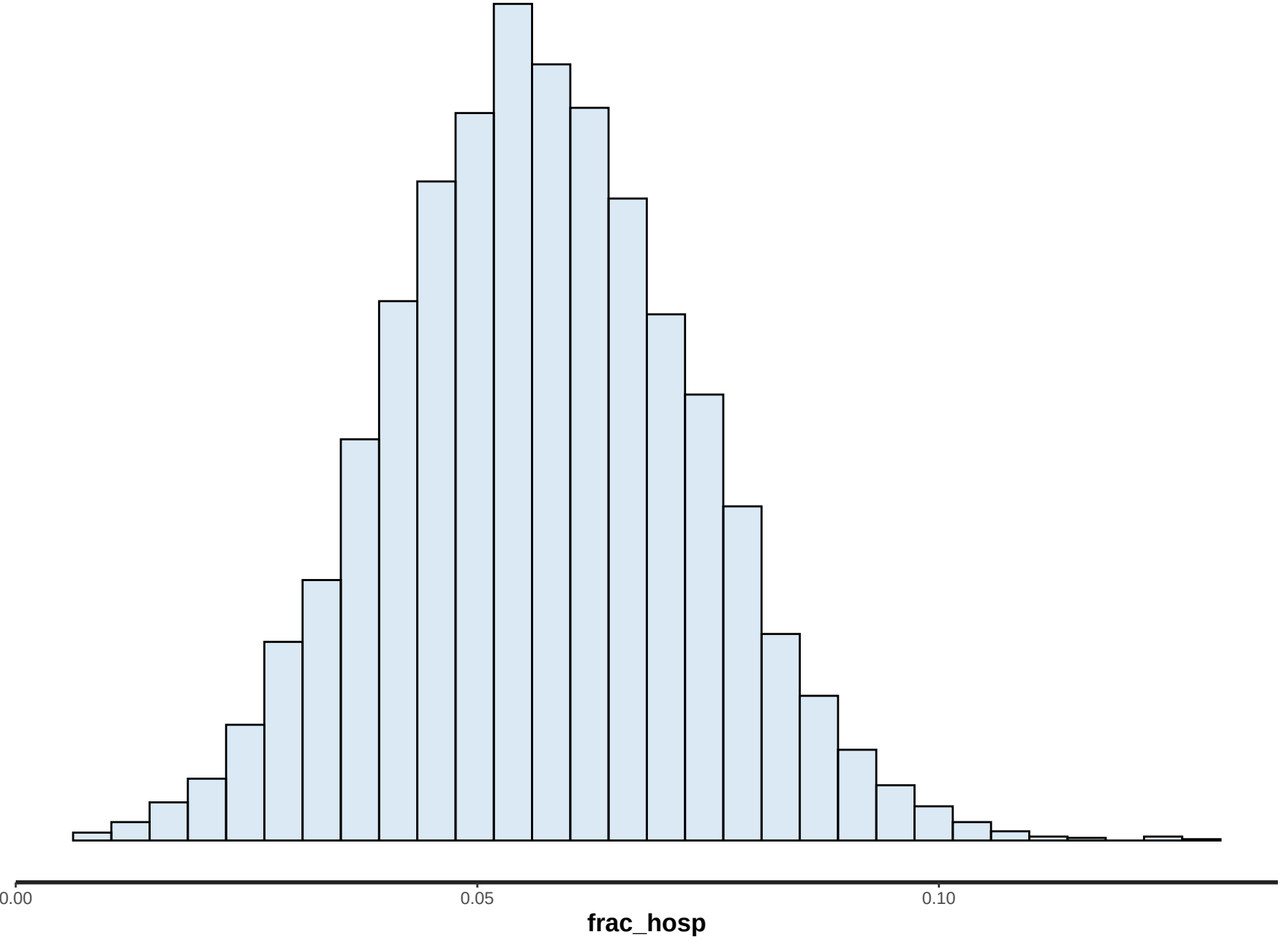

1
2
3
4
5
duration_latent

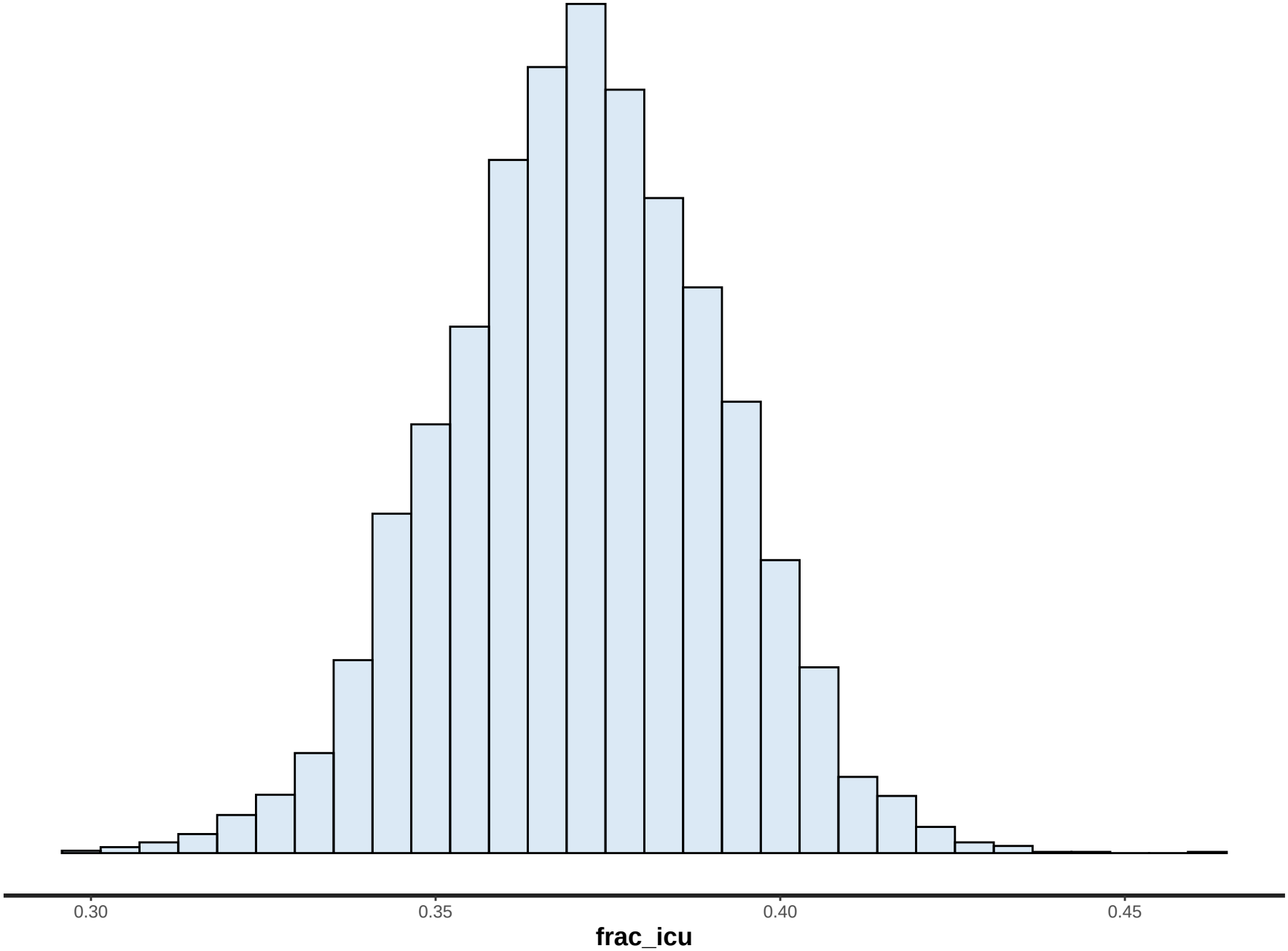

2.5
5.0
7.5
duration_rec_mild

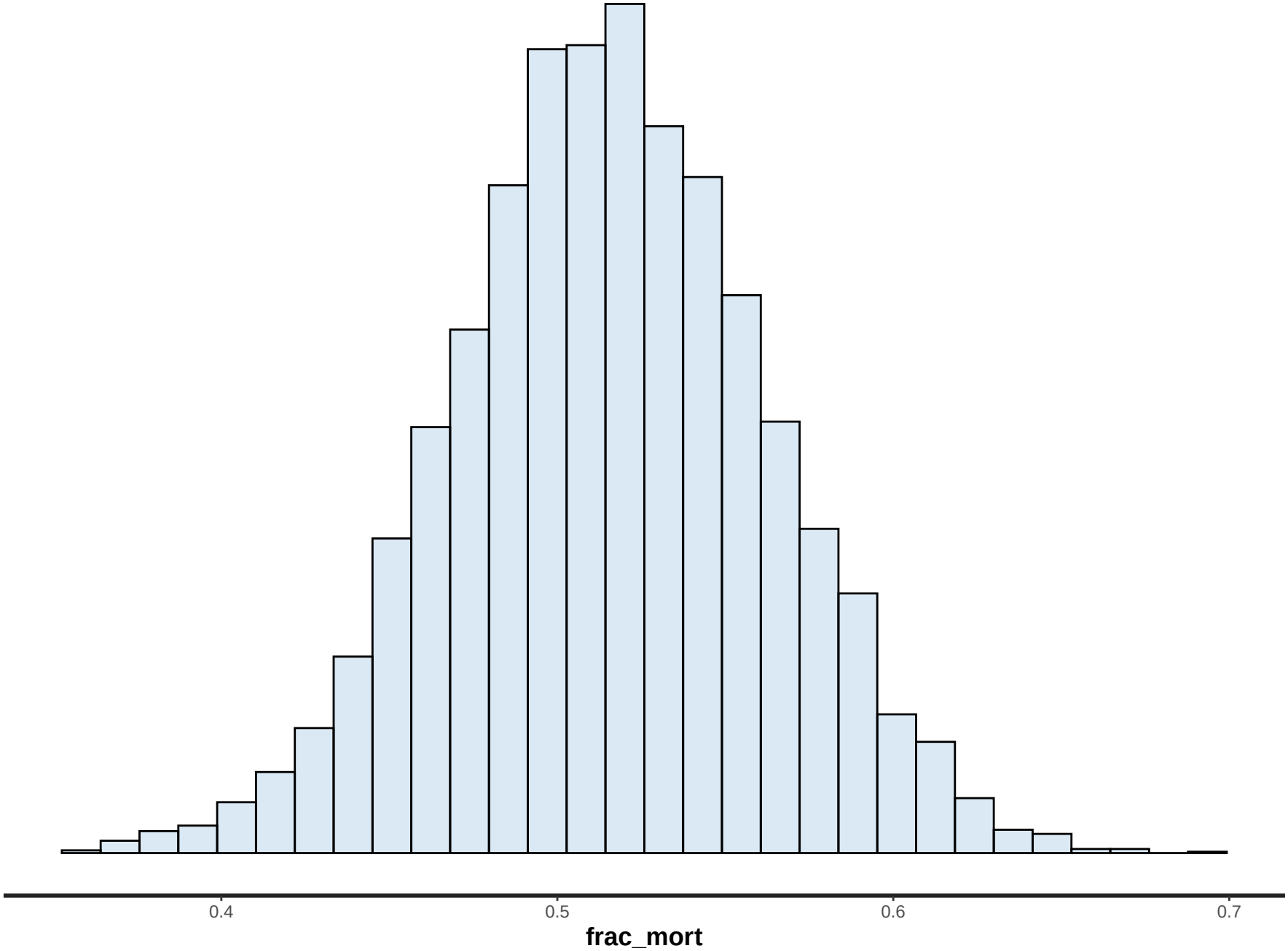

2.5
5.0
7.5
10.0
12.5
duration_pre_hosp

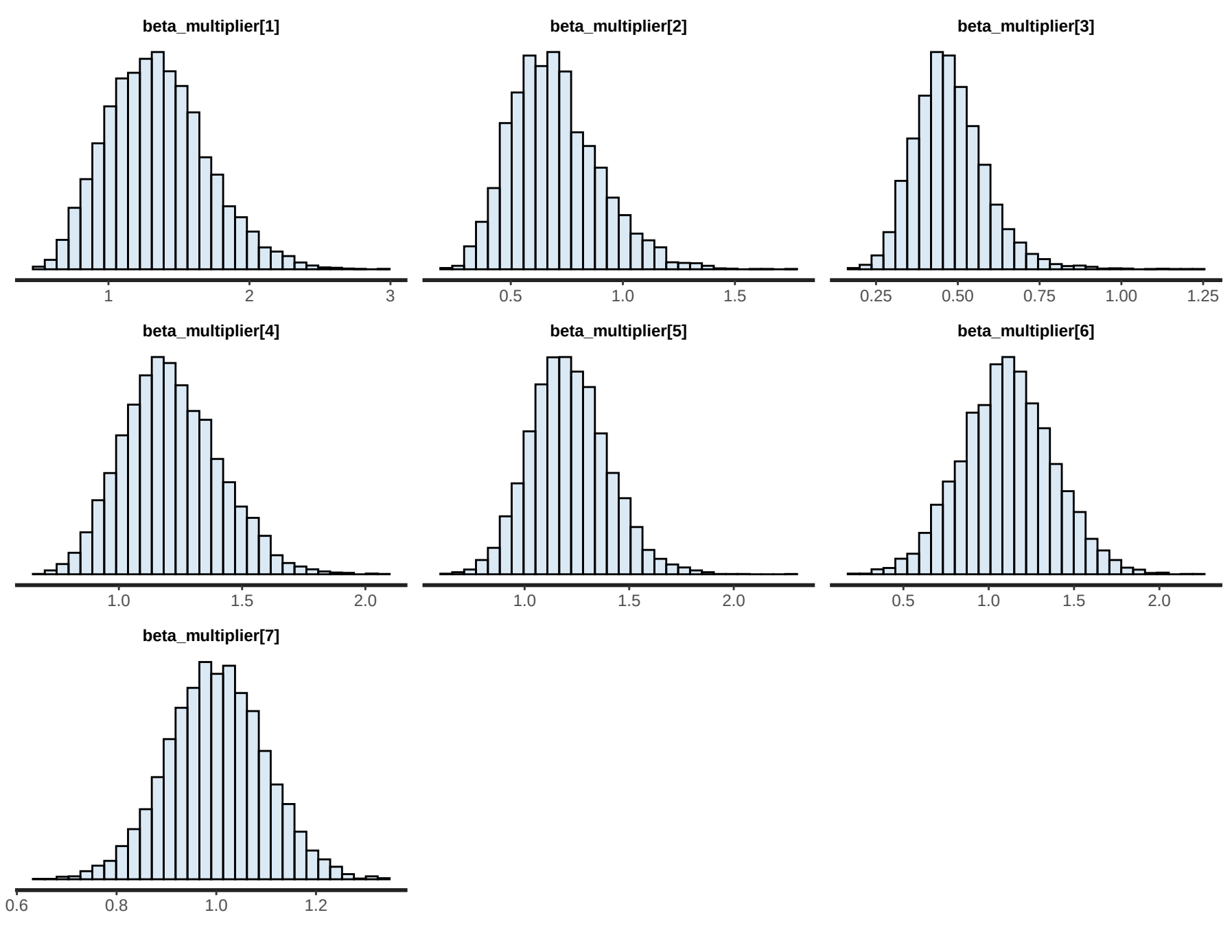

2
4
6
duration_hosp_mod

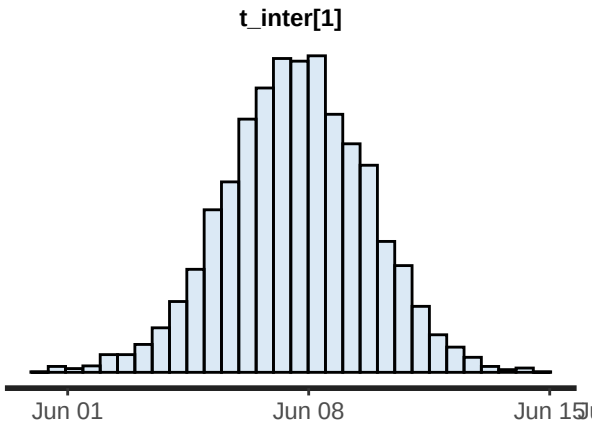

5
7
9
duration_hosp_icu

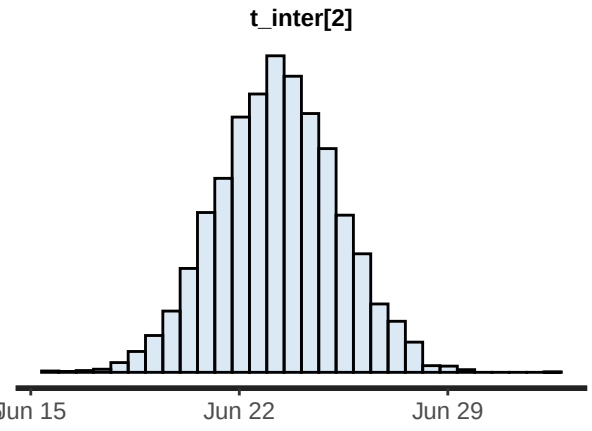

0.00
0.05
0.10
frac_hosp

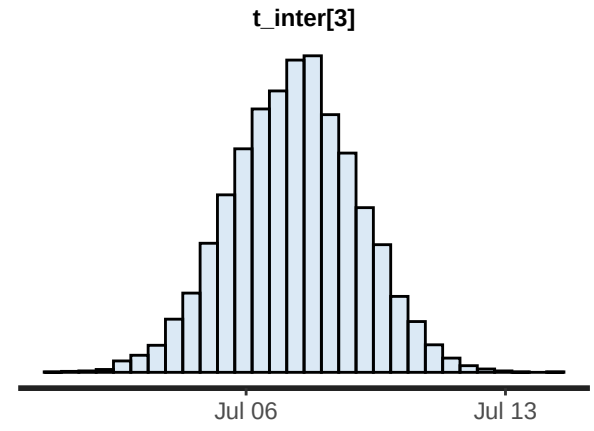

0.30
0.35
0.40
0.45
frac_icu

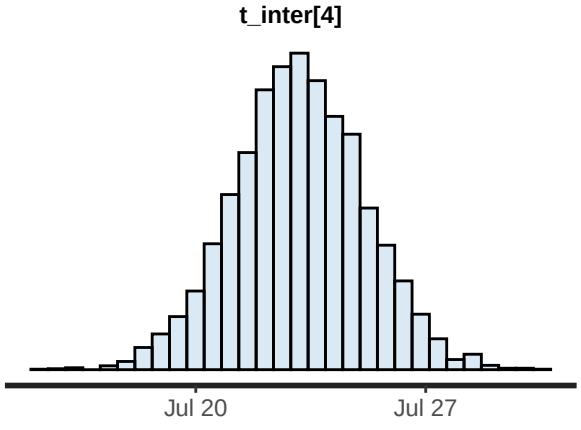

0.4
0.5
0.6
0.7
frac_mort

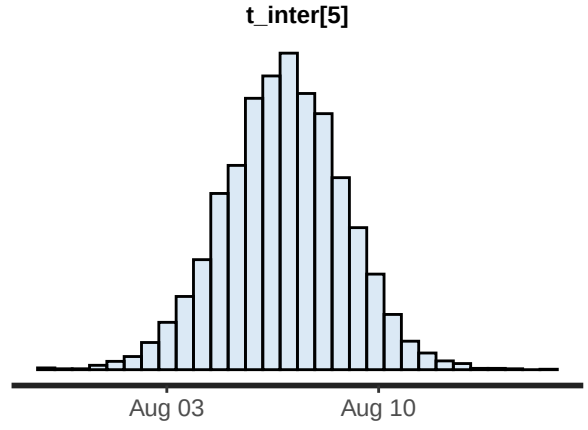

beta_multiplier[1]
1
2
3
beta_multiplier[2]
0.5
1.0
1.5
beta_multiplier[3]
0.25
0.50
0.75
1.00
1.25
beta_multiplier[4]
1.0
1.5
2.0
beta_multiplier[5]
1.0
1.5
2.0
beta_multiplier[6]
0.5
1.0
1.5
2.0
beta_multiplier[7]
0.6
0.8
1.0
1.2

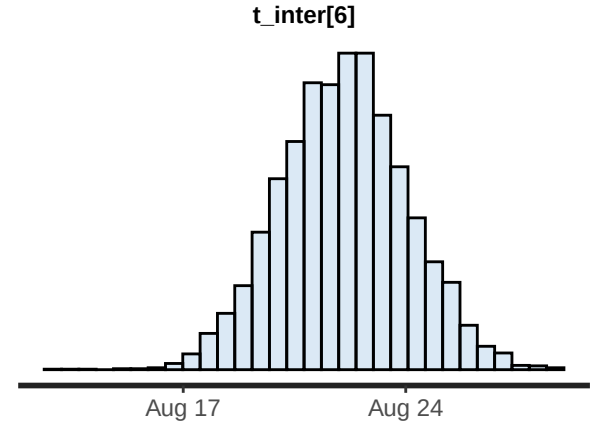

t_inter[1]
Jun 01
Jun 08
Jun 15

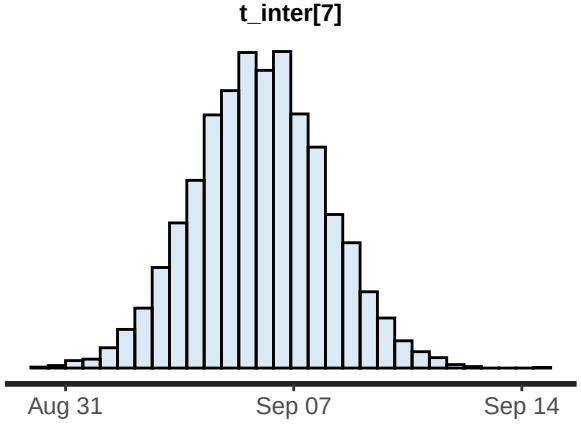

t_inter[2]
Jun 15
Jun 22
Jun 29

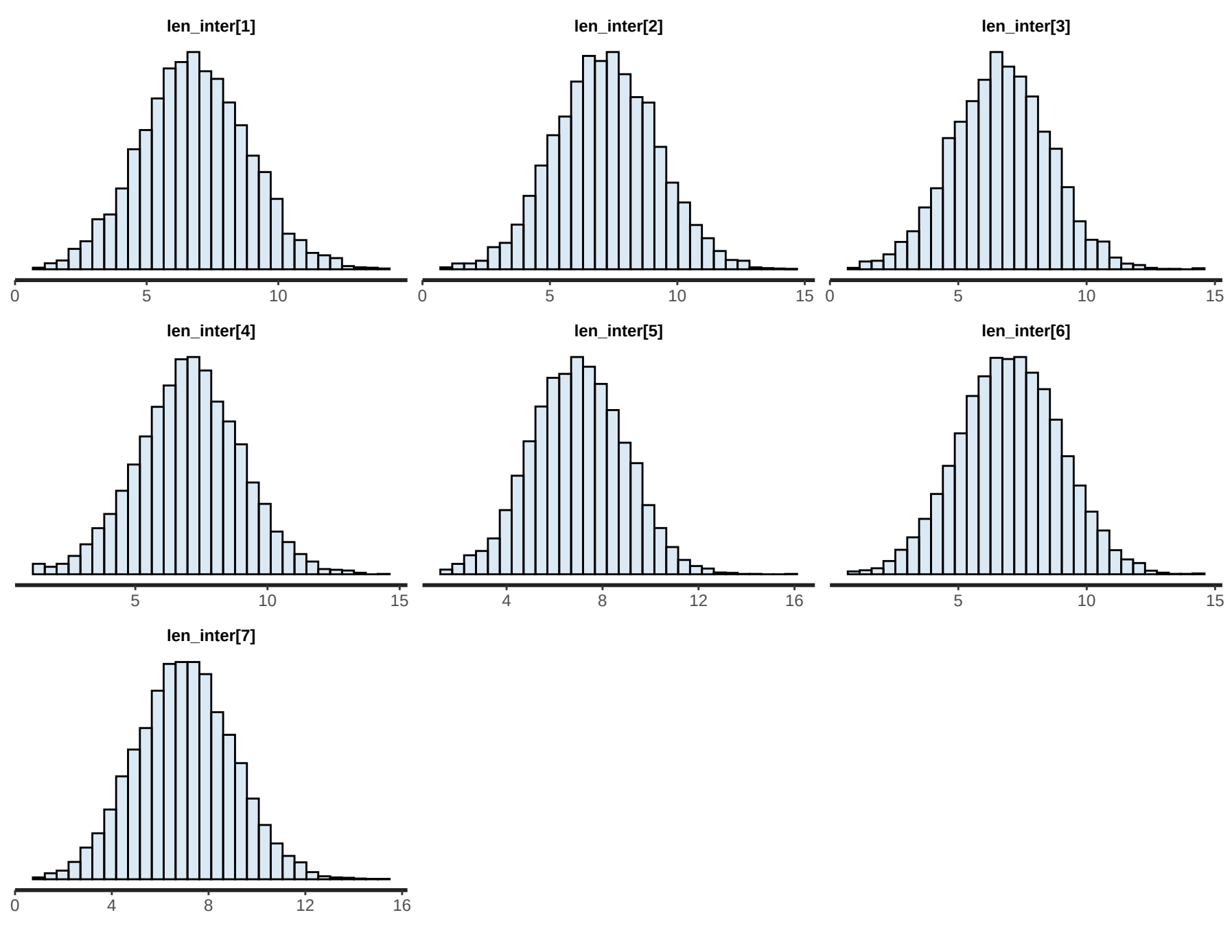

t_inter[3]
Jul 06
Jul 13

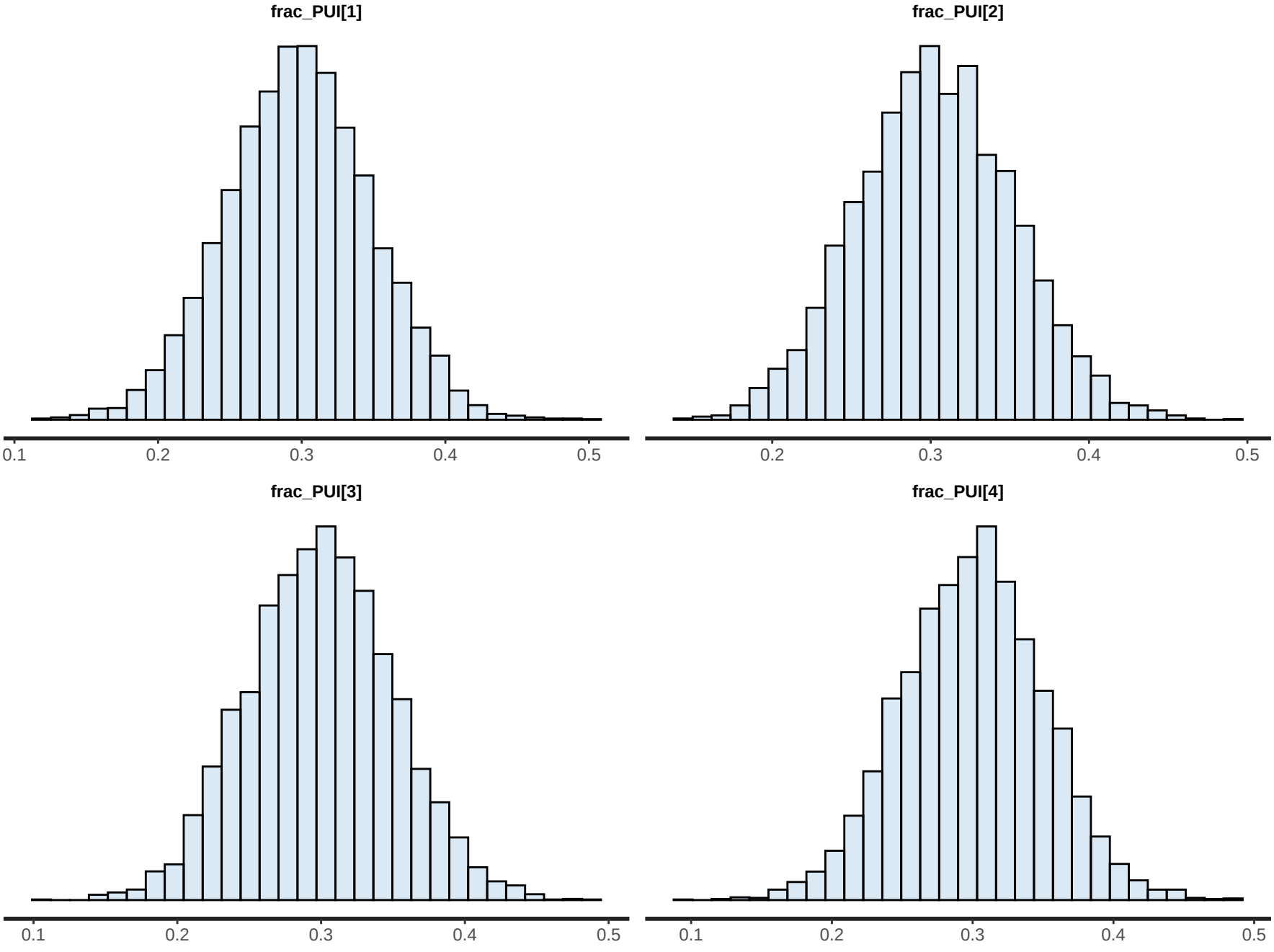

t_inter[4]
Jul 20
Jul 27

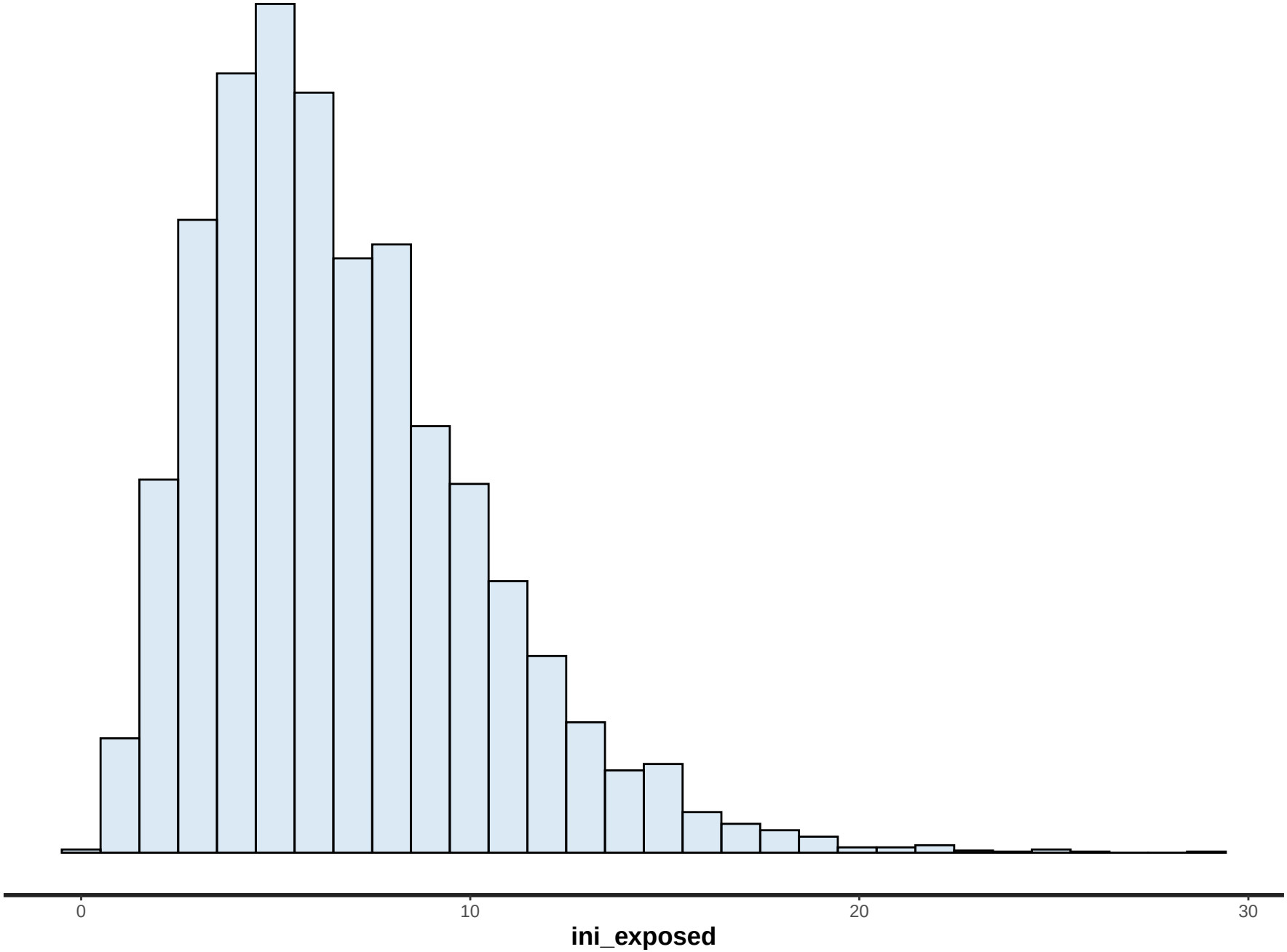

t_inter[5]
Aug 03
Aug 10

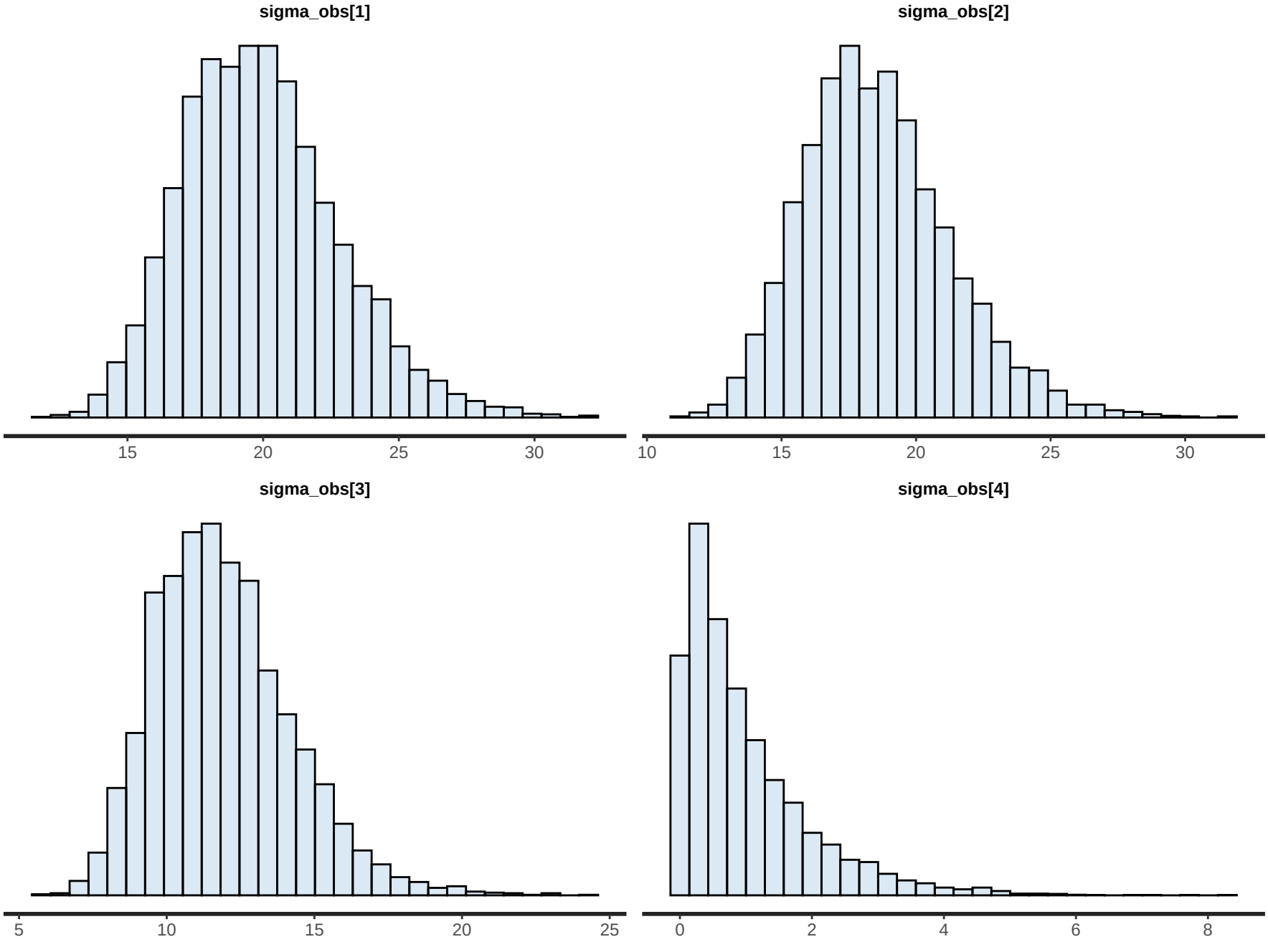

t_inter[6]
Aug 17
Aug 24


t_inter[7]
Aug 31
Sep 07
Sep 14


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


frac_PUI[1]
0.1
0.2
0.3
0.4
0.5
frac_PUI[2]
0.2
0.3
0.4
0.5
frac_PUI[3]
0.1
0.2
0.3
0.4
0.5
frac_PUI[4]
0.1
0.2
0.3
0.4
0.5


0
10
20
30
ini_exposed


sigma_obs[1]
15
20
25
30
sigma_obs[2]
10
15
20
25
30
sigma_obs[3]
5
10
15
20
25
sigma_obs[4]
0
2
4
6
8