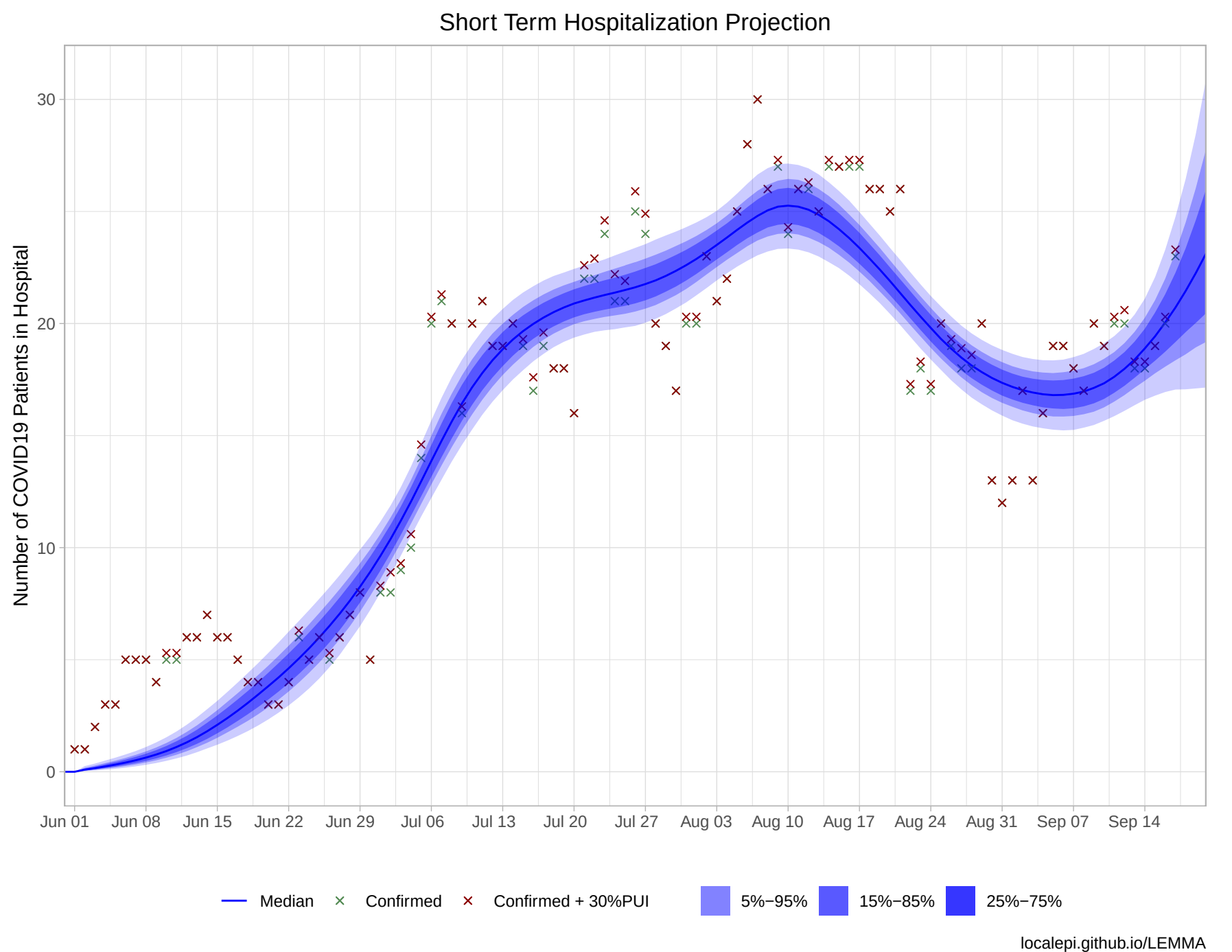
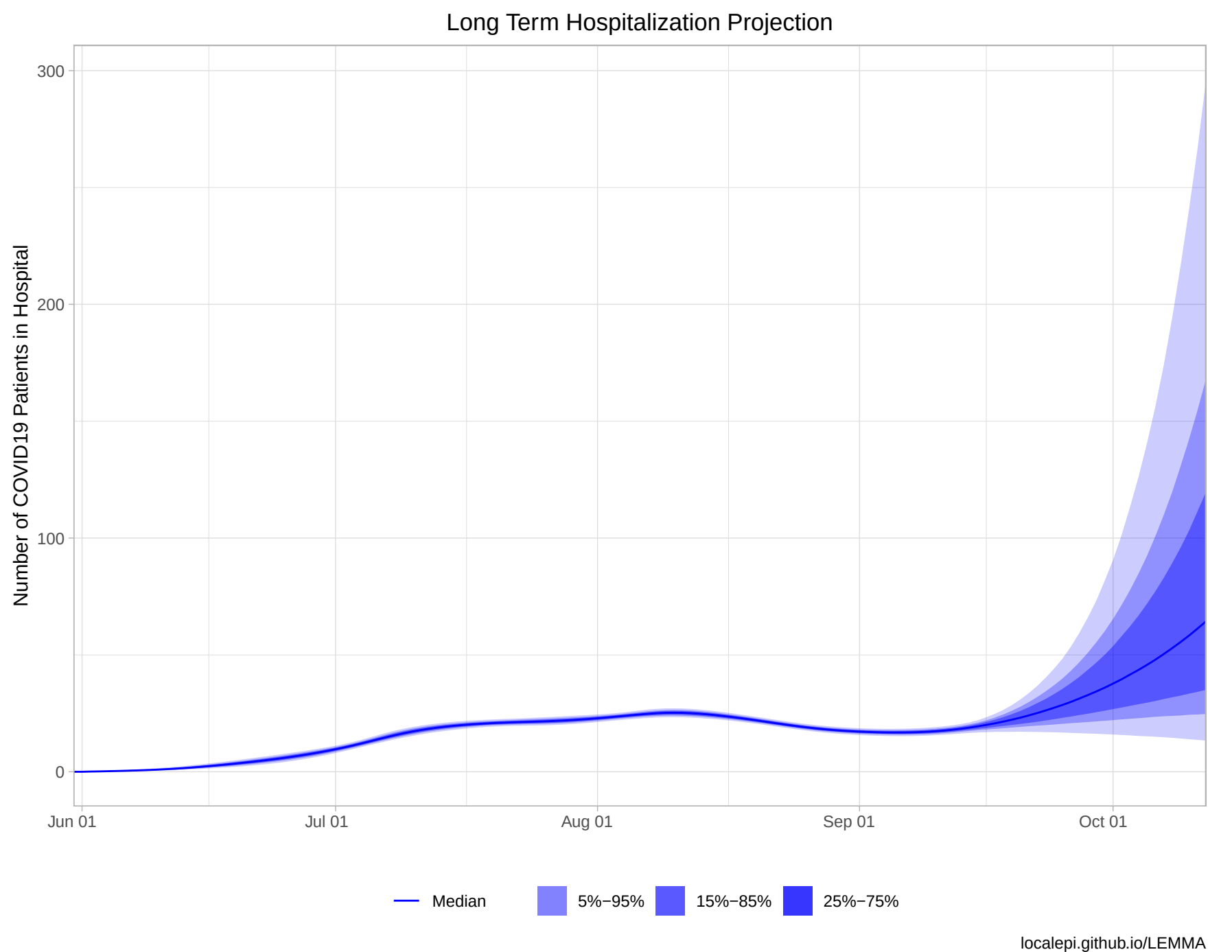
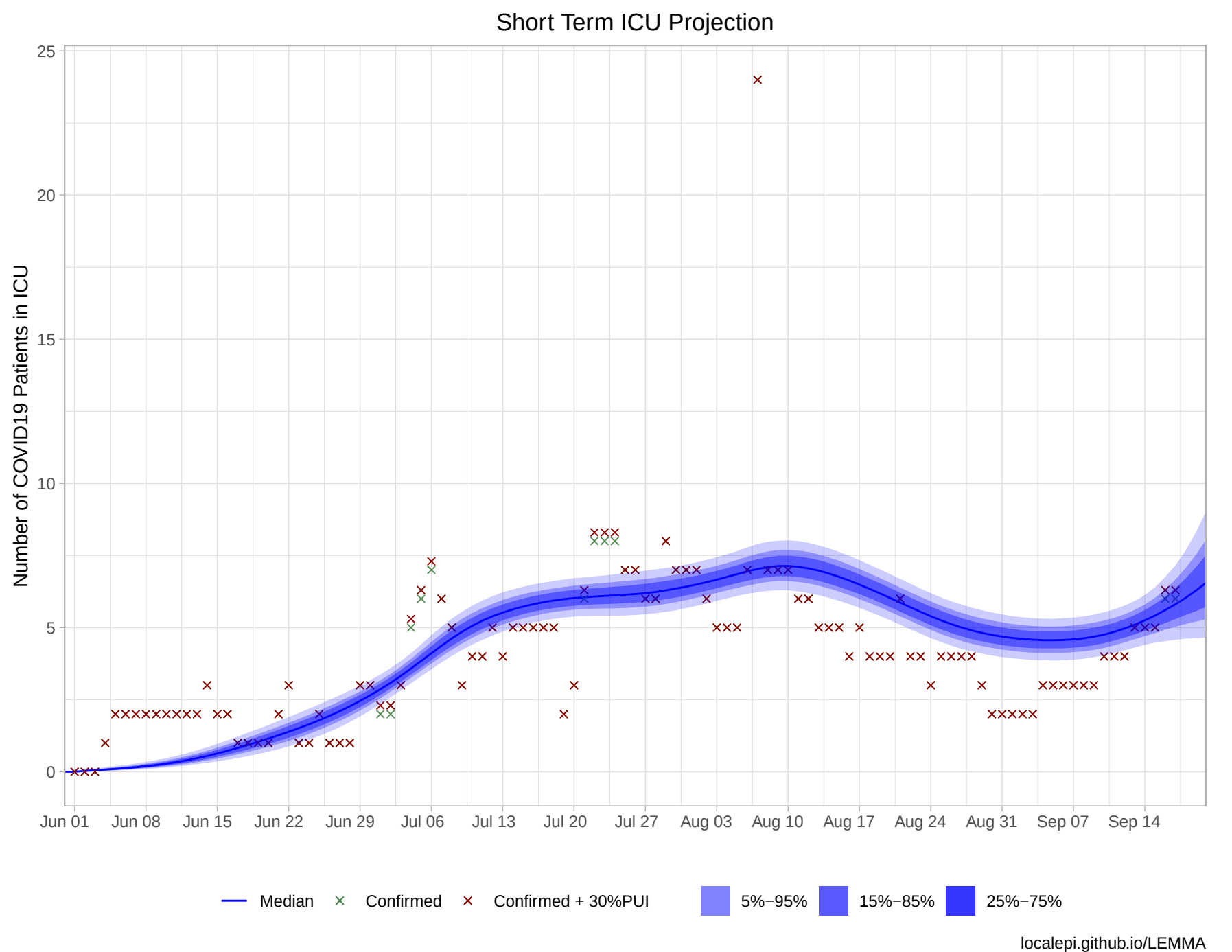
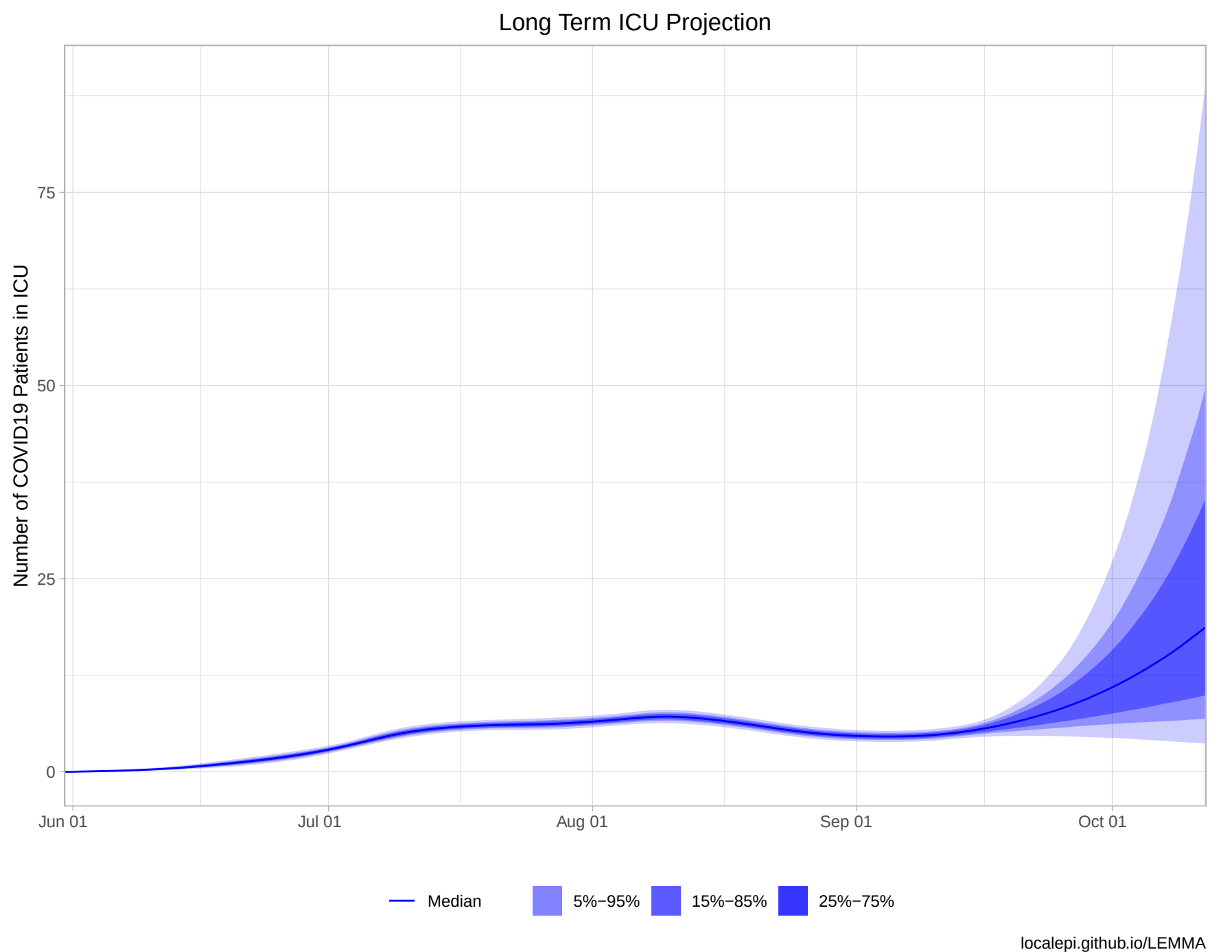
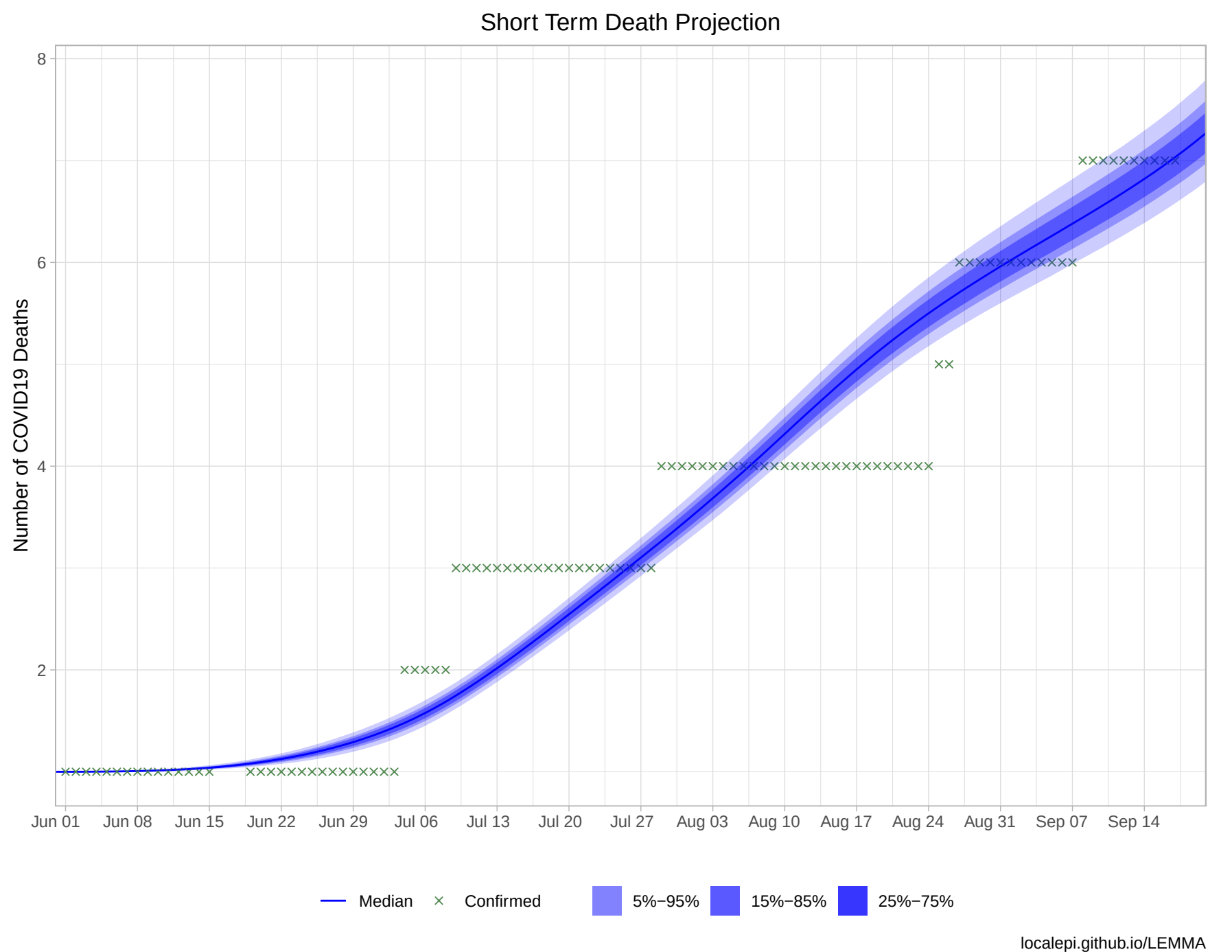
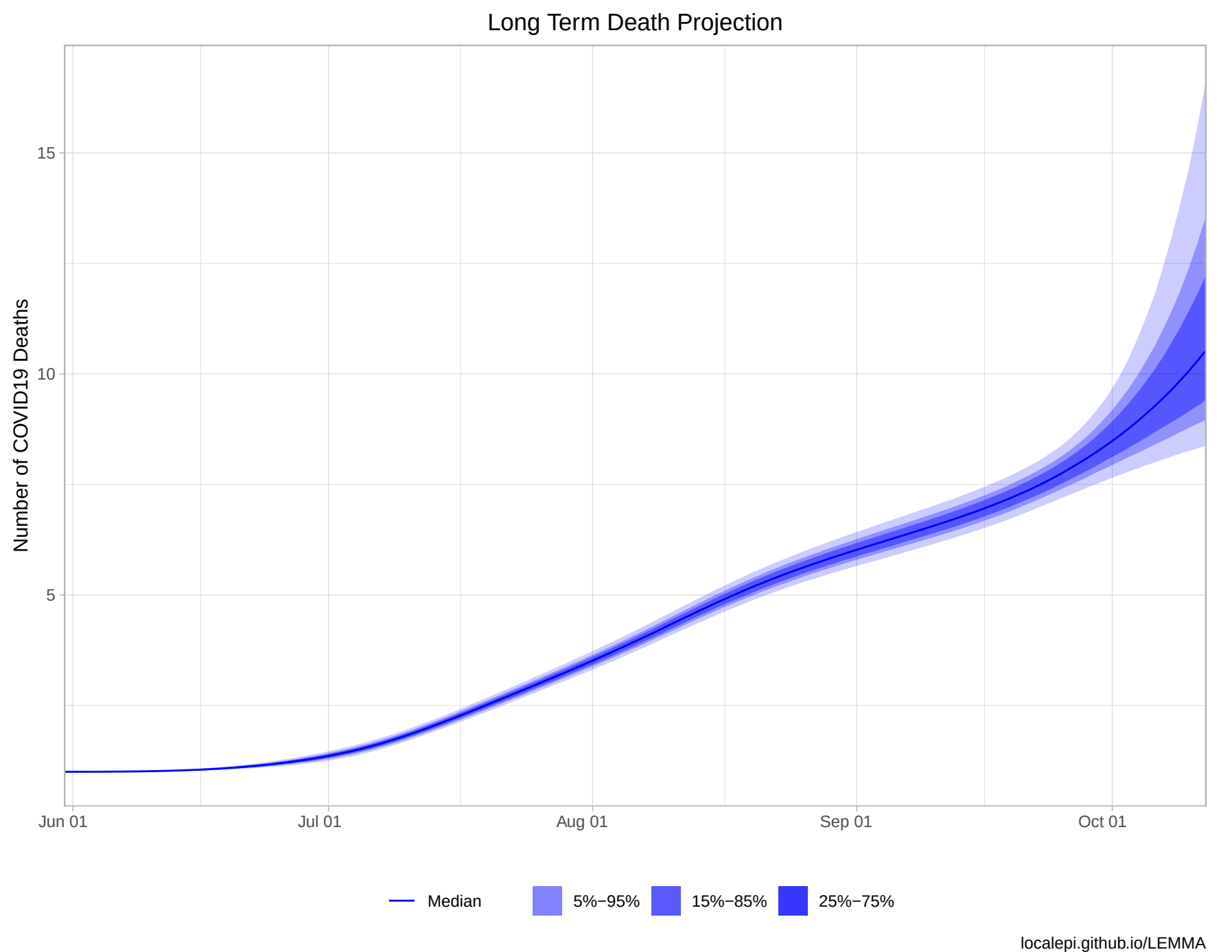

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
30
20
10
0
Jun 01
Jun 08
Jun 15
Jun 22
Jun 29
Jul 06
Jul 13
Jul 20
Jul 27
Aug 03
Aug 10
Aug 17
Aug 24
Aug 31
Sep 07
Sep 14
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

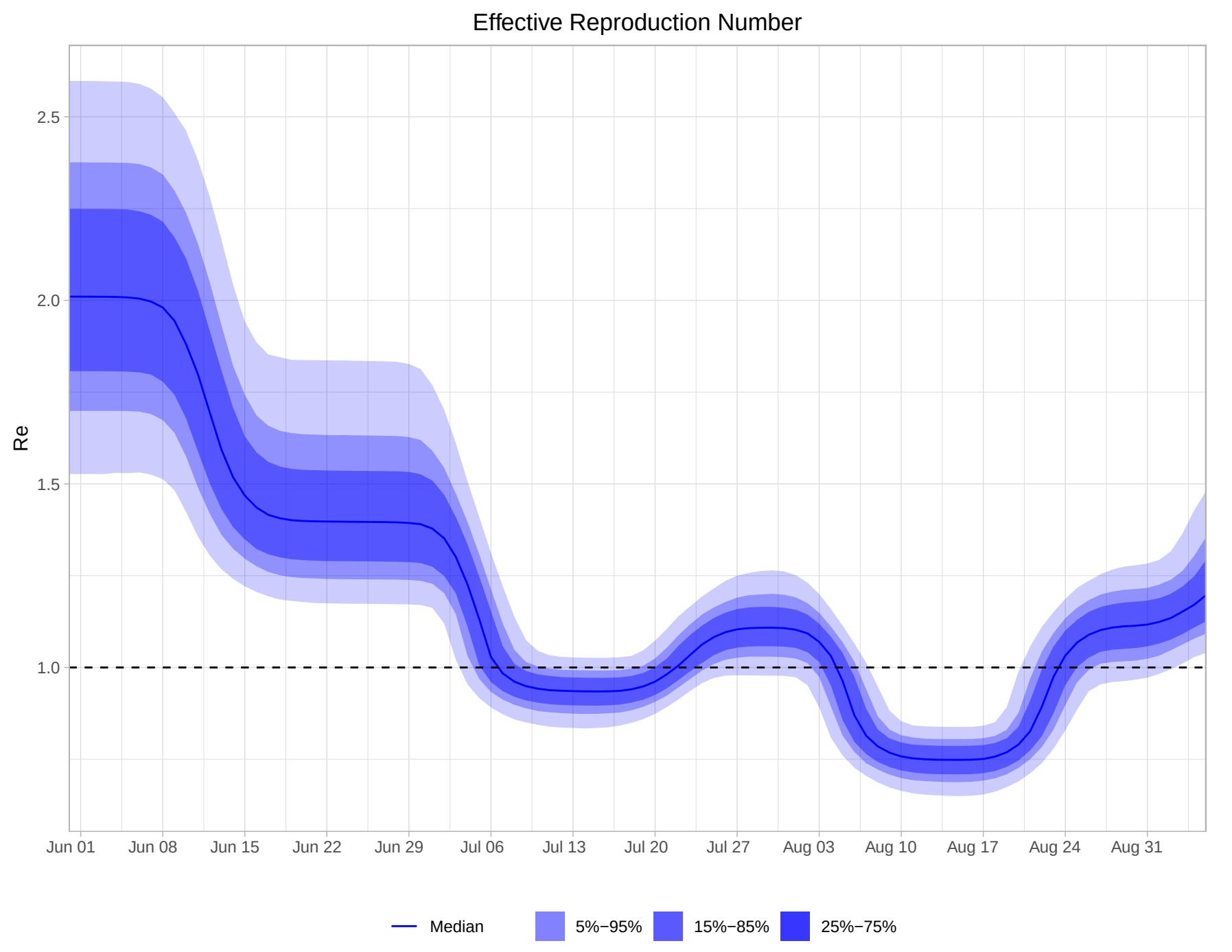

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
300
200
100
0
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


Short Term ICU Projection
Number of COVID19 Patients in ICU
25
20
15
10
5
0
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
Sep 14
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
0
25
50
75
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

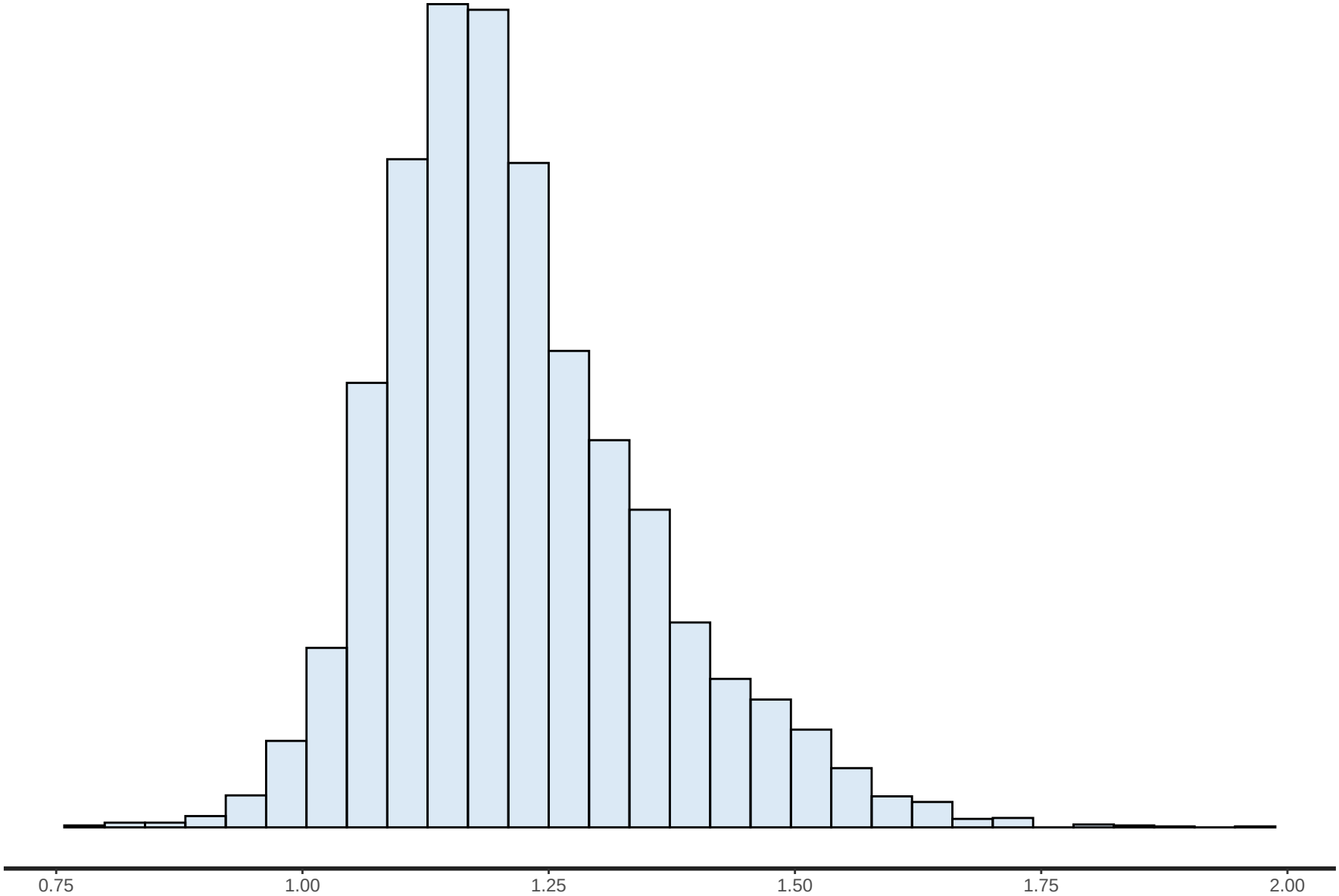

Short Term Death Projection
Number of COVID19 Deaths
8
6
4
2
Jun 01
Jun 08
Jun 15
Jun 22
Jun 29
Jul 06
Jul 13
Jul 20
Jul 27
Aug 03
Aug 10
Aug 17
Aug 24
Aug 31
Sep 07
Sep 14
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

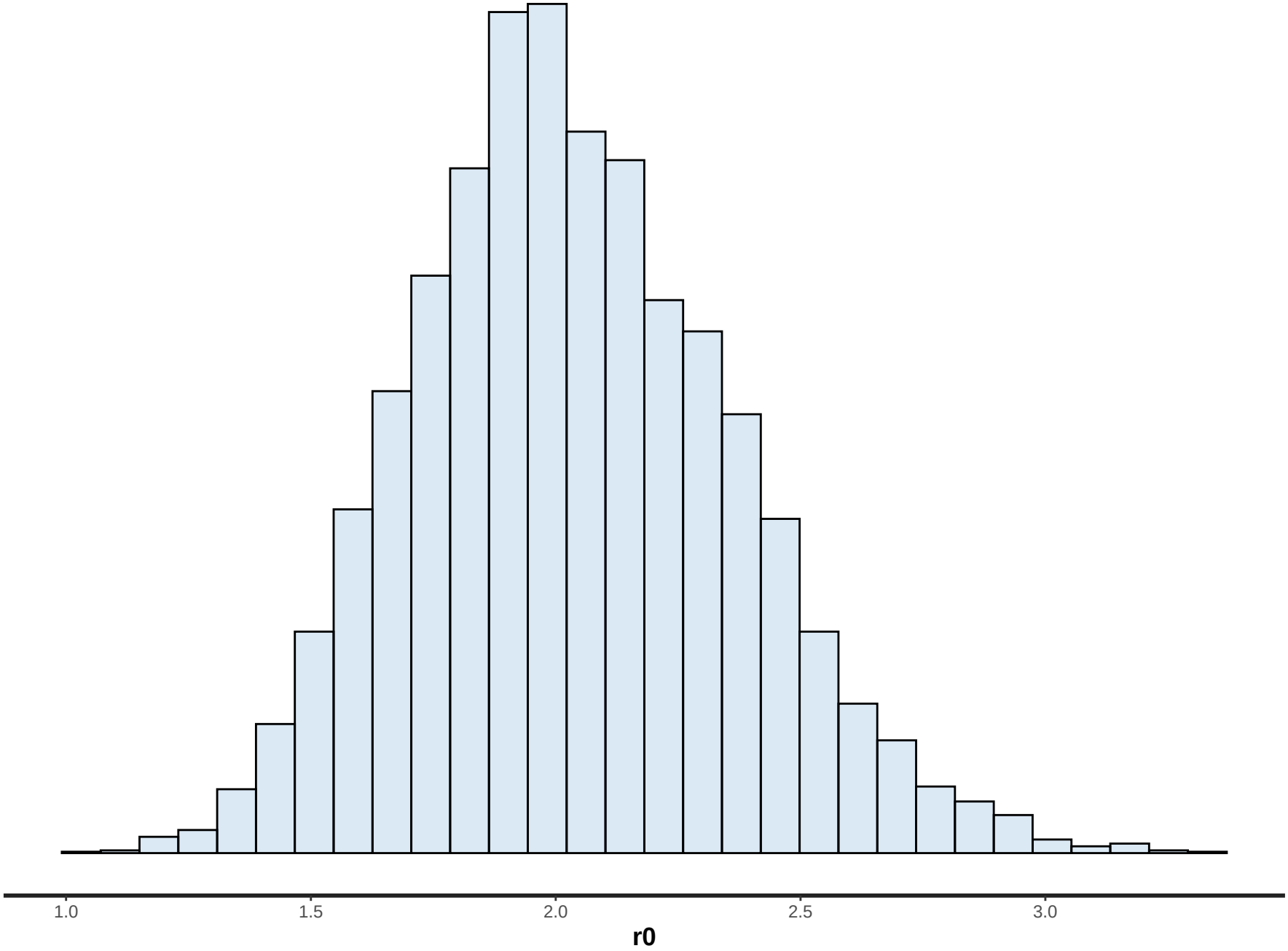

Long Term Death Projection
Number of COVID19 Deaths
15
10
5
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

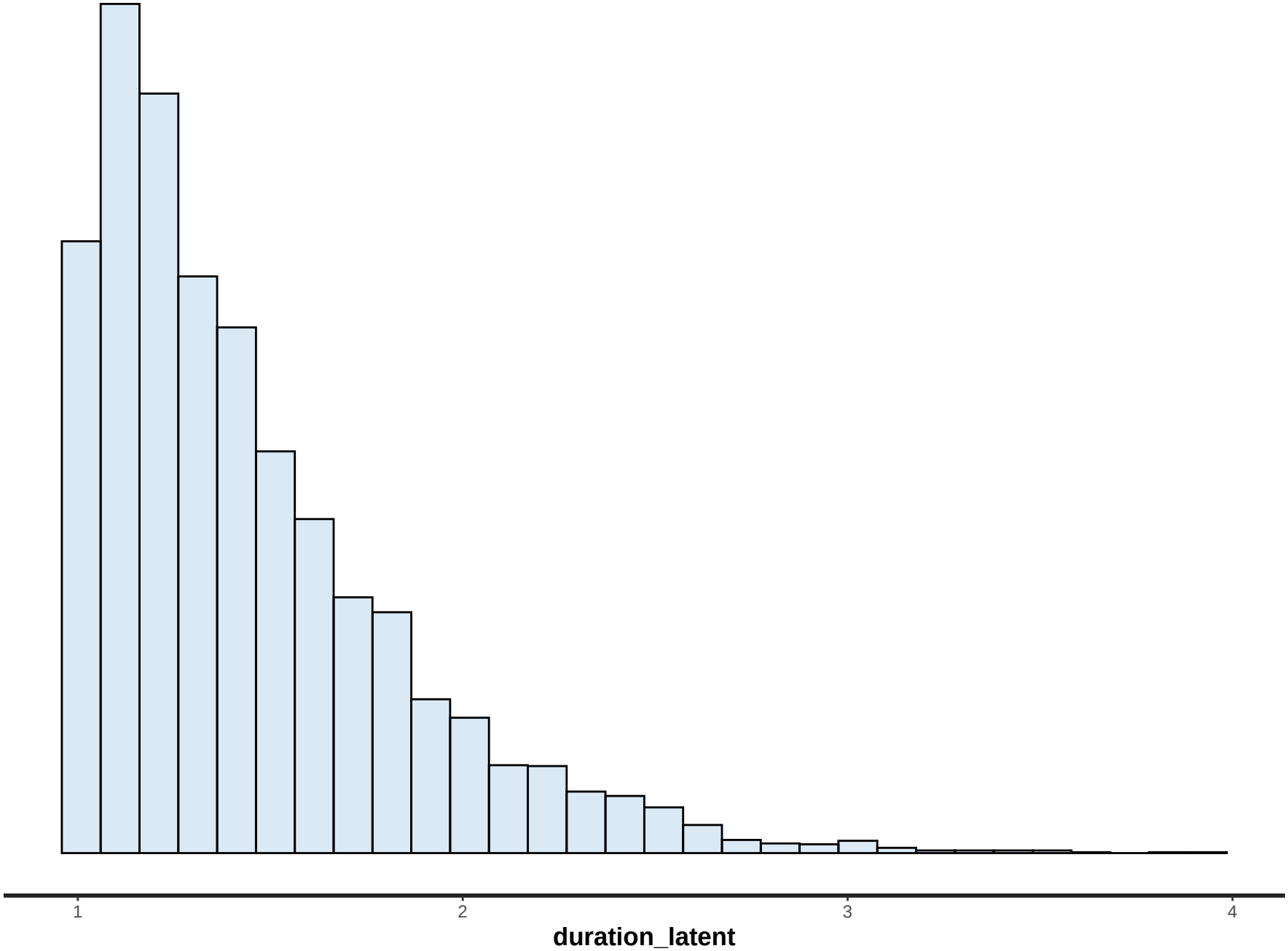

Effective Reproduction Number
Re
2.5
2.0
1.5
1.0
Jun 01
Jun 08
Jun 15
Jun 22
Jun 29
Jul 06
Jul 13
Jul 20
Jul 27
Aug 03
Aug 10
Aug 17
Aug 24
Aug 31
Median
5%−95%
15%−85%
25%−75%

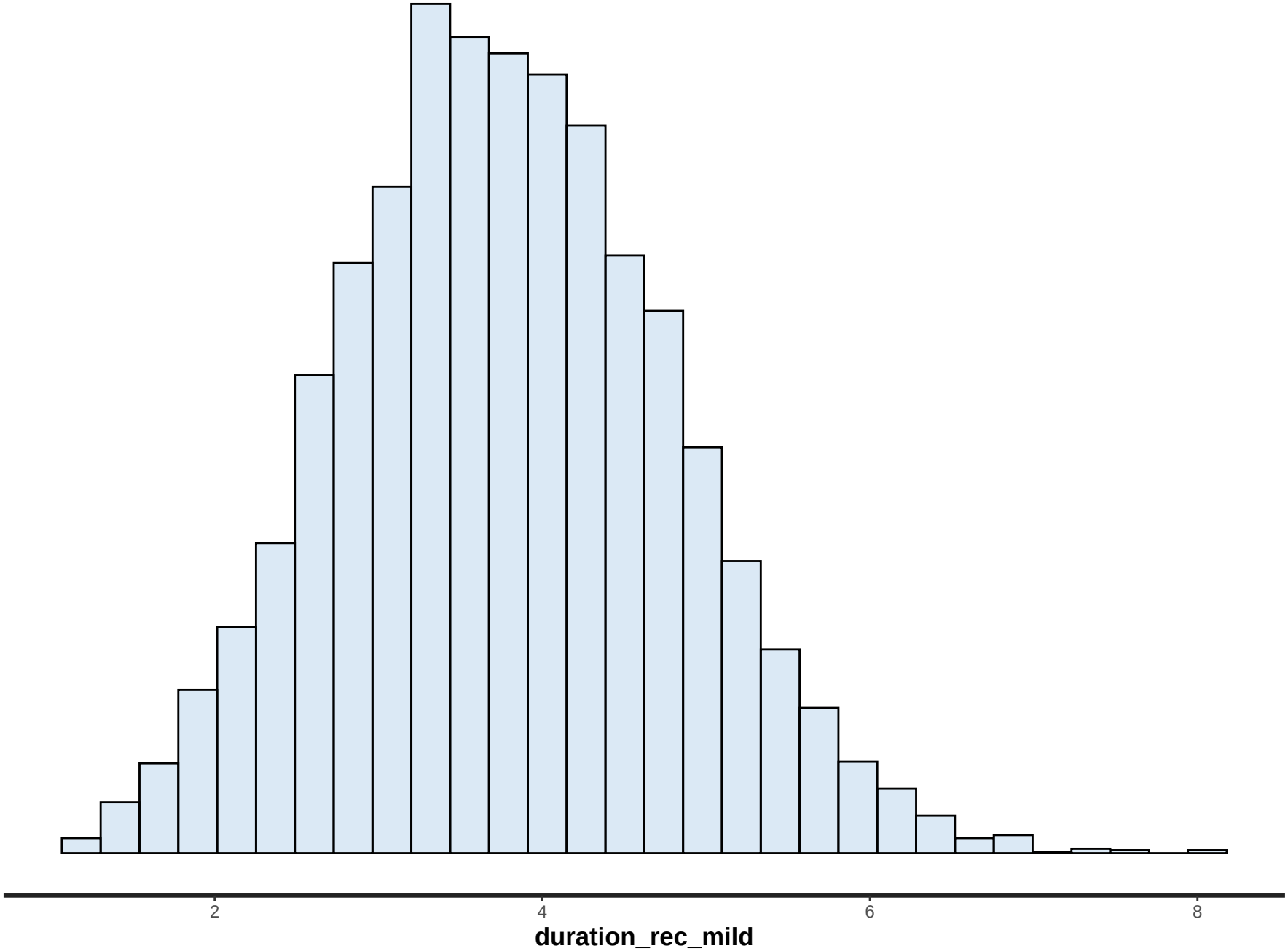
Rt as of 2020−09−05

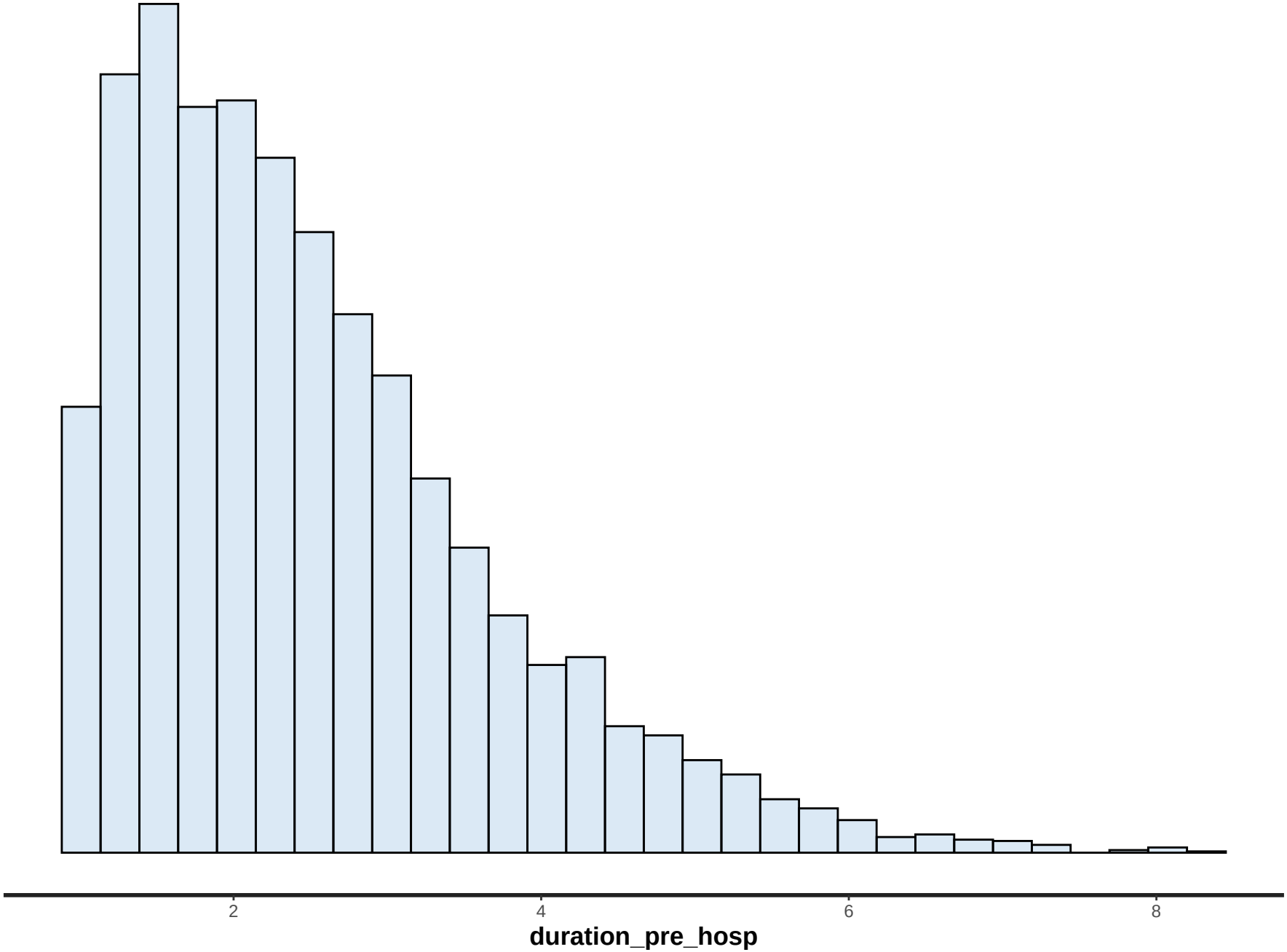
5%	10%	25%	50%	75%	90%	95%
1.04	1.07	1.13	1.20	1.29	1.40	1.48

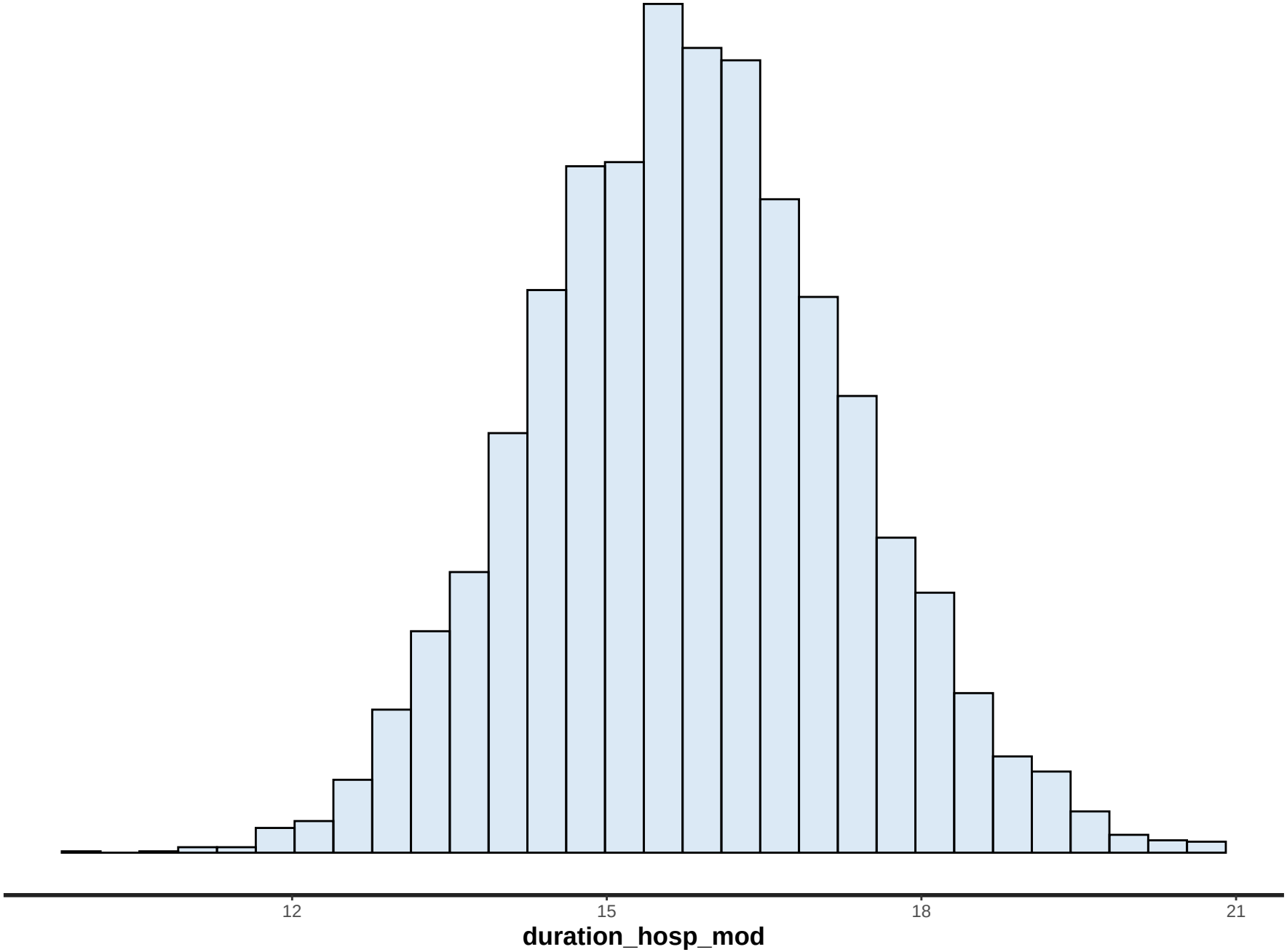


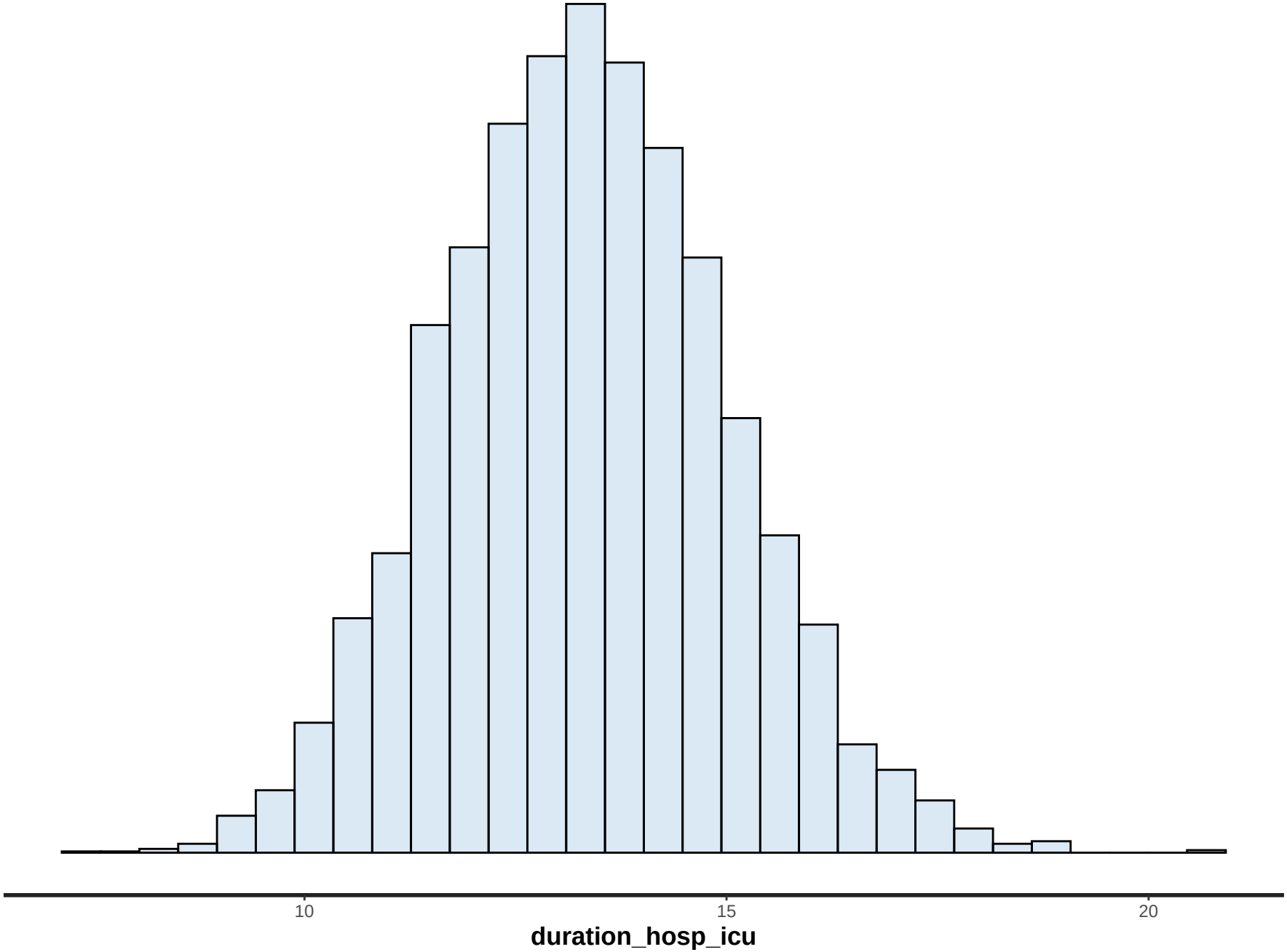

1.0
1.5
2.0
2.5
3.0
r0

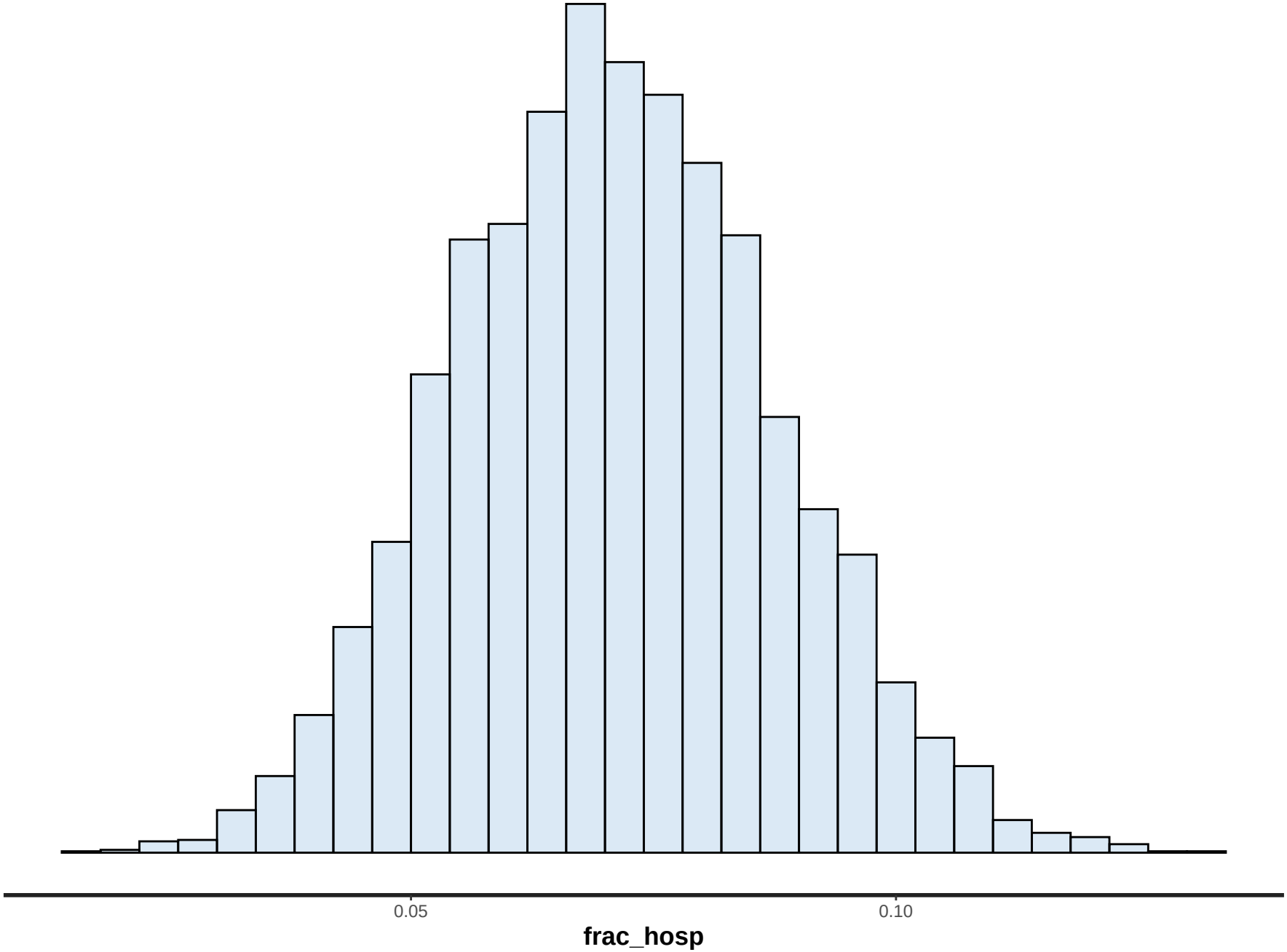

1
2
3
4
duration_latent

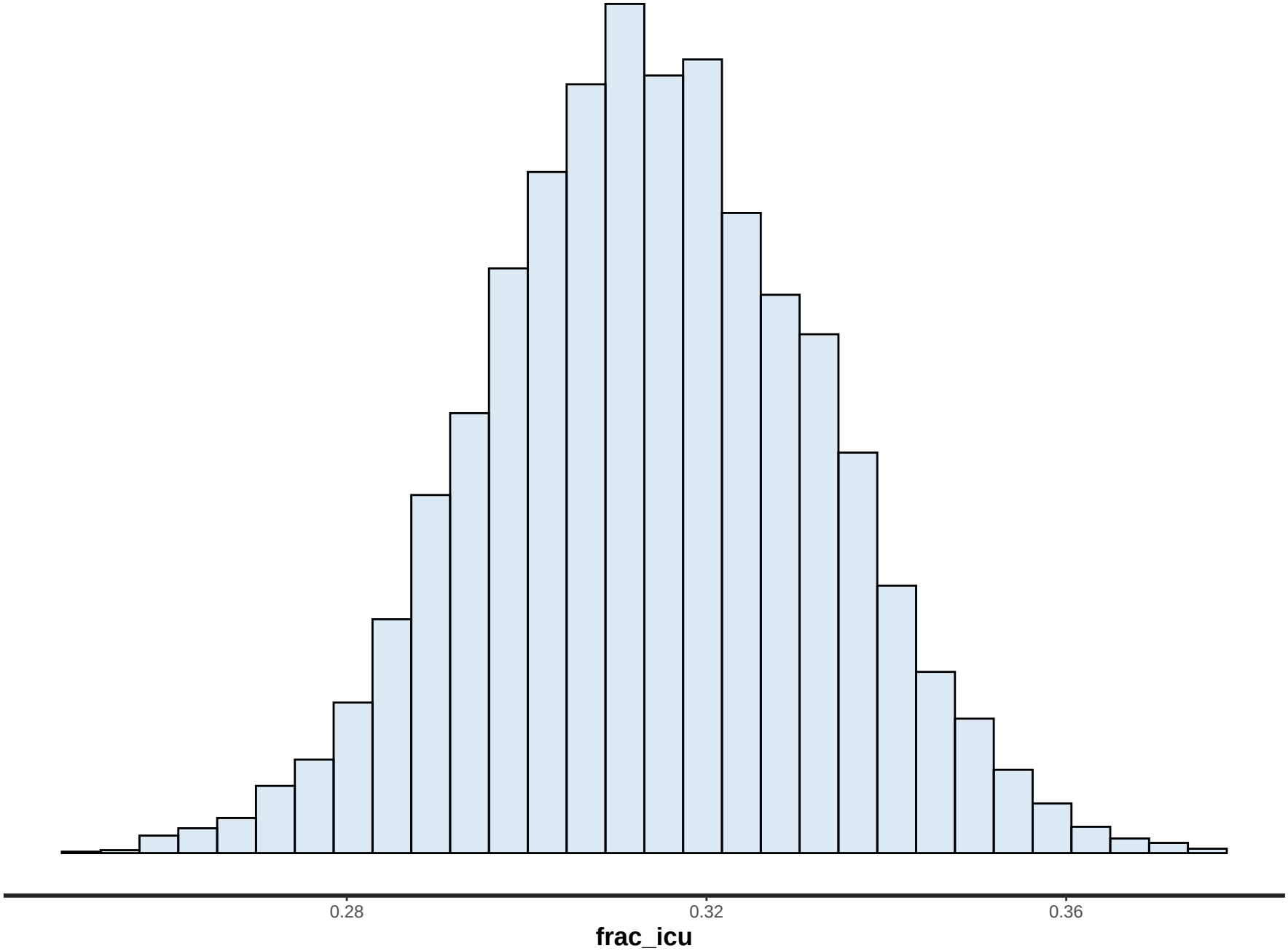

2
4
6
8
duration_rec_mild

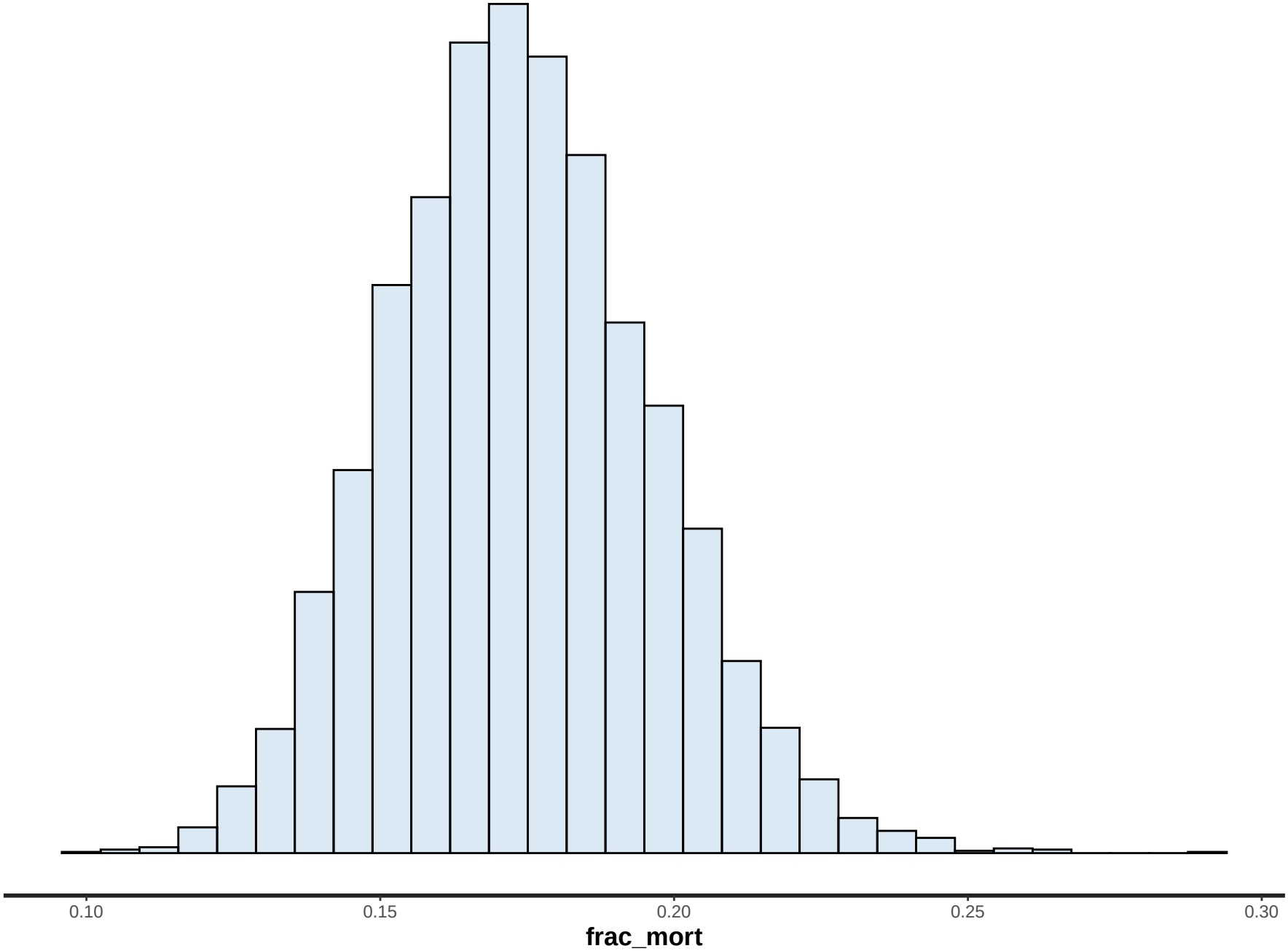

2
4
6
8
duration_pre_hosp

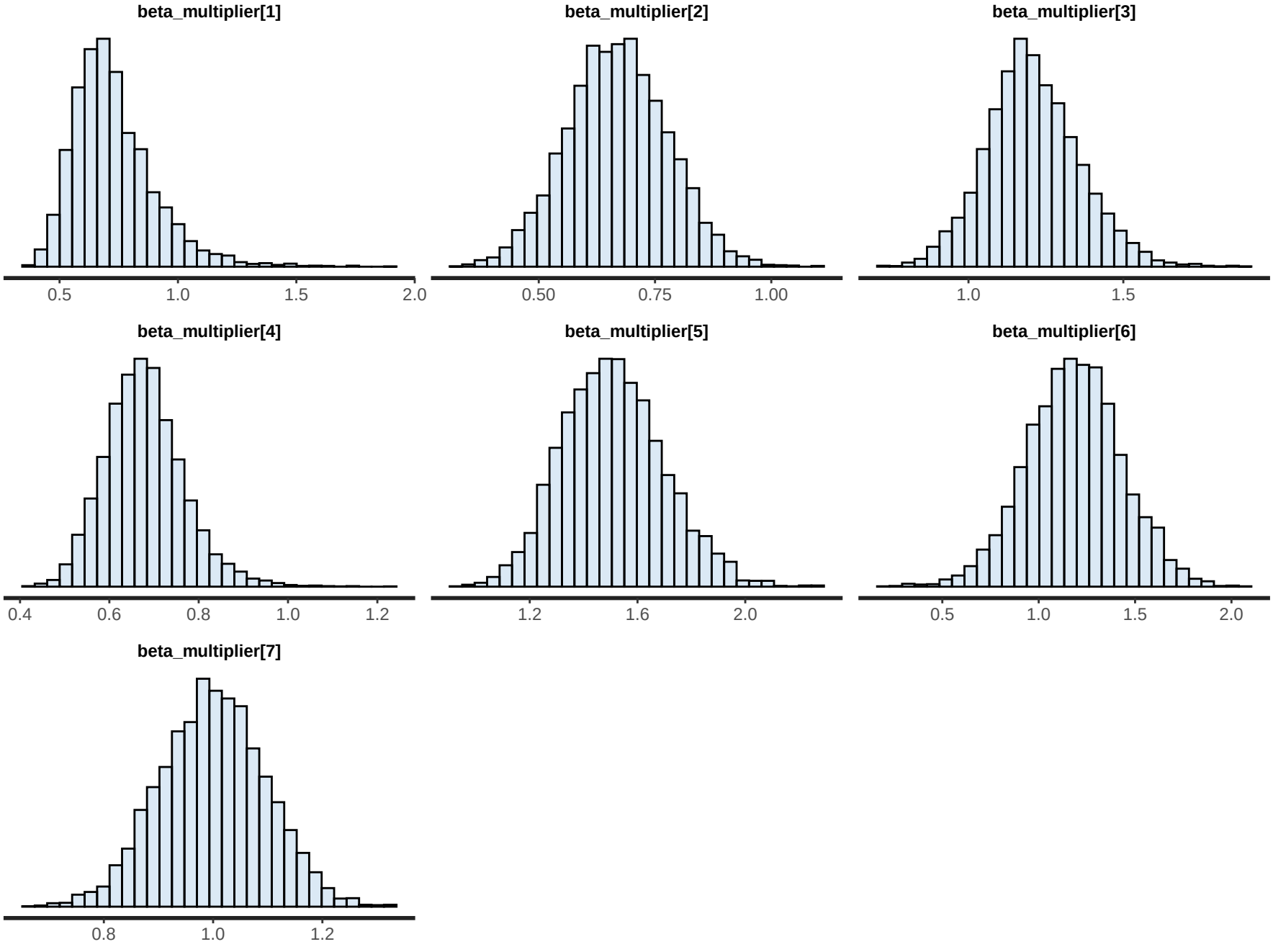

12
15
18
21
duration_hosp_mod

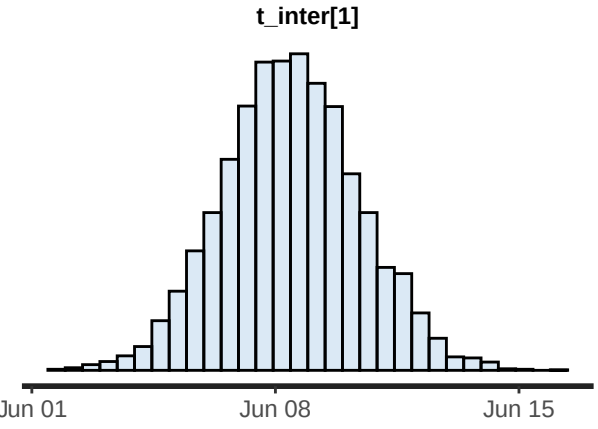

10
15
20
duration_hosp_icu

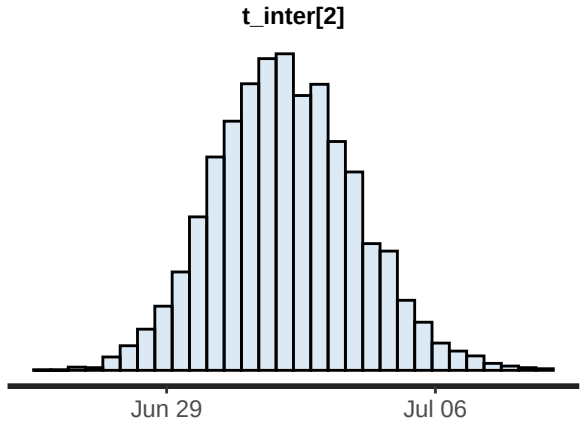

0.05
0.10
frac_hosp

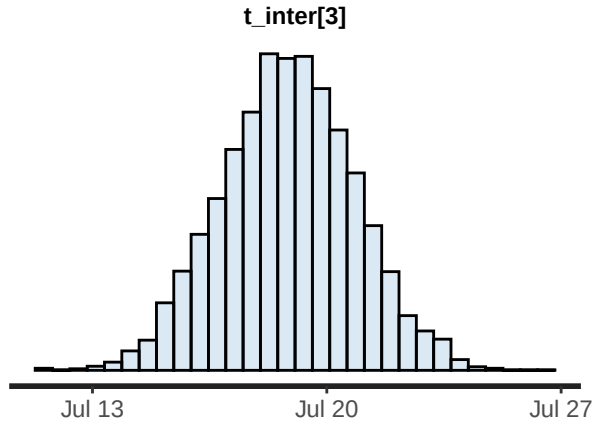

0.28
0.32
0.36
frac_icu

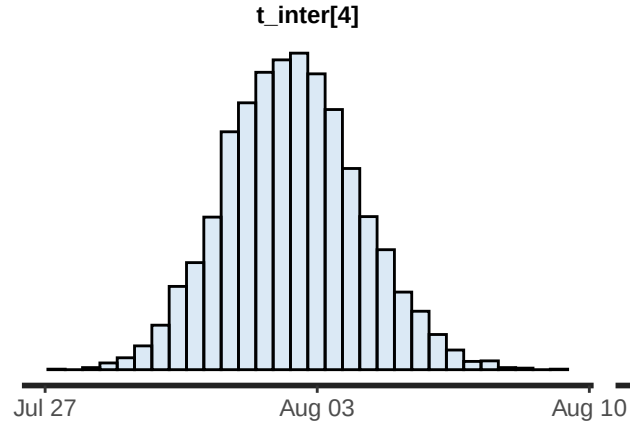

0.10
0.15
0.20
0.25
0.30
frac_mort

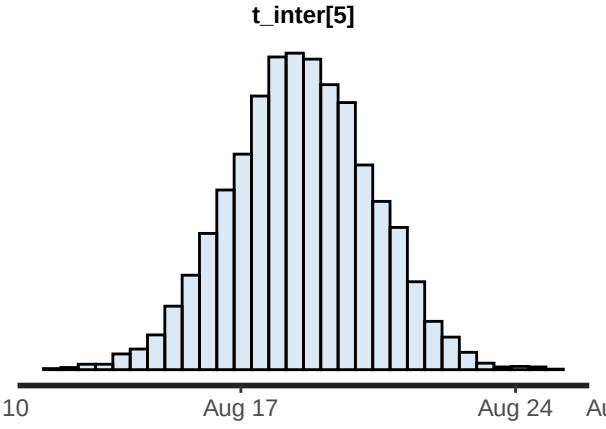

beta_multiplier[1]
0.5
1.0
1.5
2.0
beta_multiplier[2]
0.50
0.75
1.00
beta_multiplier[3]
1.0
1.5
beta_multiplier[4]
0.4
0.6
0.8
1.0
1.2
beta_multiplier[5]
1.2
1.6
2.0
beta_multiplier[6]
0.5
1.0
1.5
2.0
beta_multiplier[7]
0.8
1.0
1.2

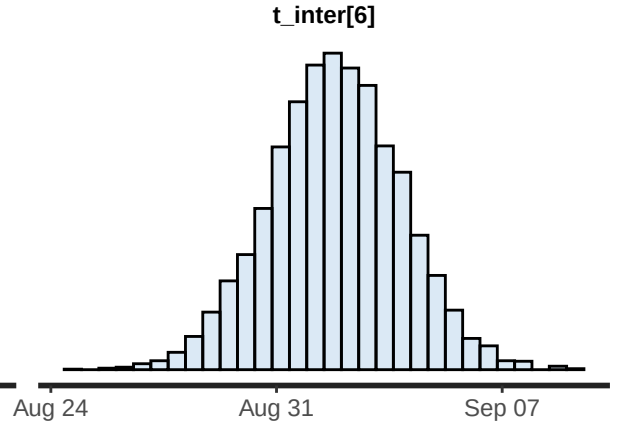

t_inter[1]
Jun 01
Jun 08
Jun 15

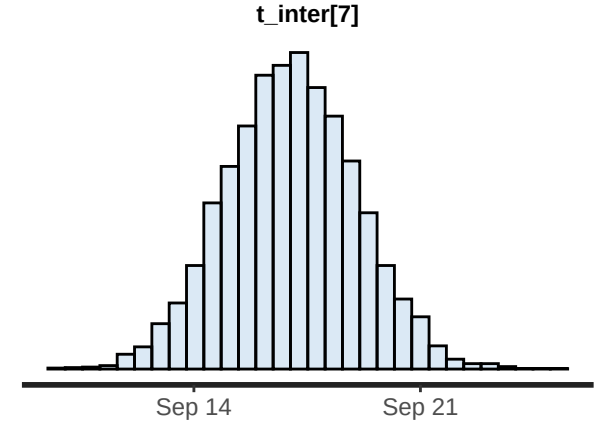

t_inter[2]
Jun 29
Jul 06

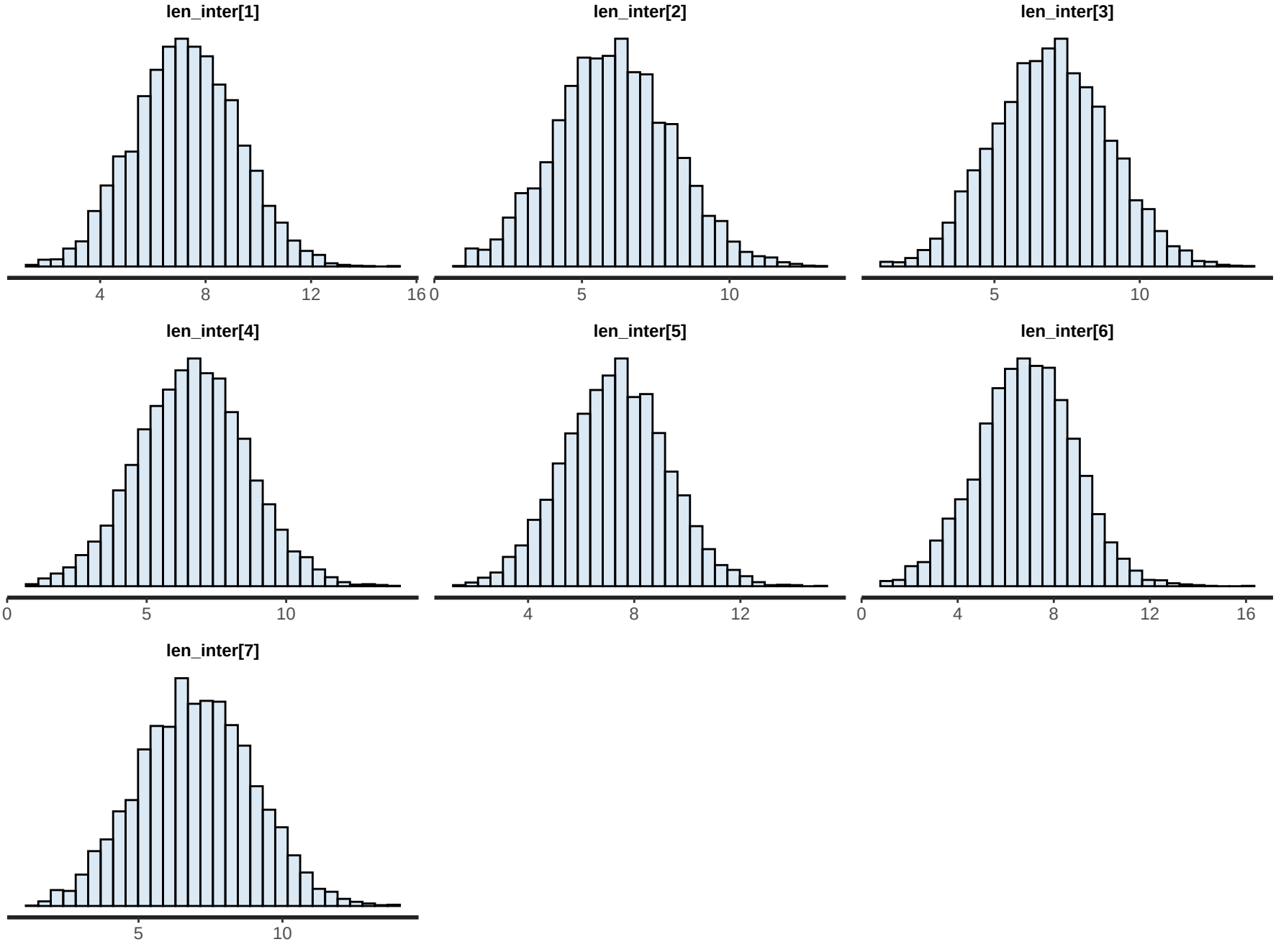

t_inter[3]
Jul 13
Jul 20
Jul 27

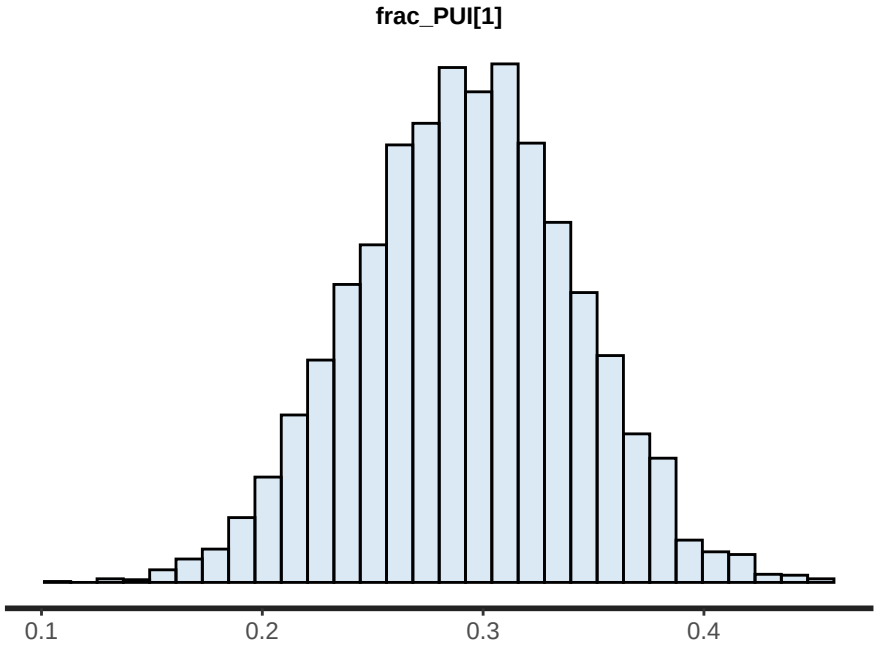

t_inter[4]
Jul 27
Aug 03
Aug 10

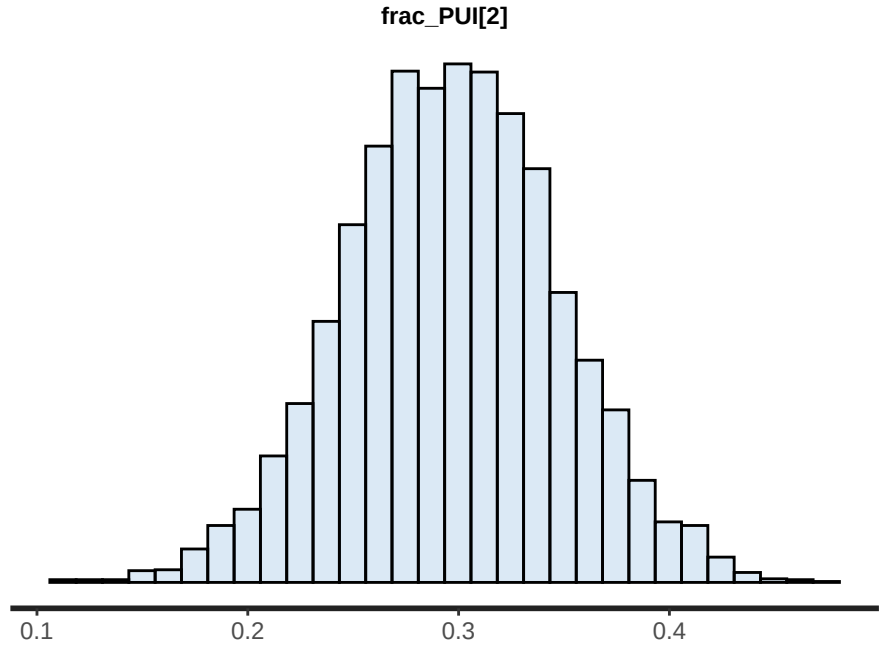

t_inter[5]
Aug 17
Aug 24

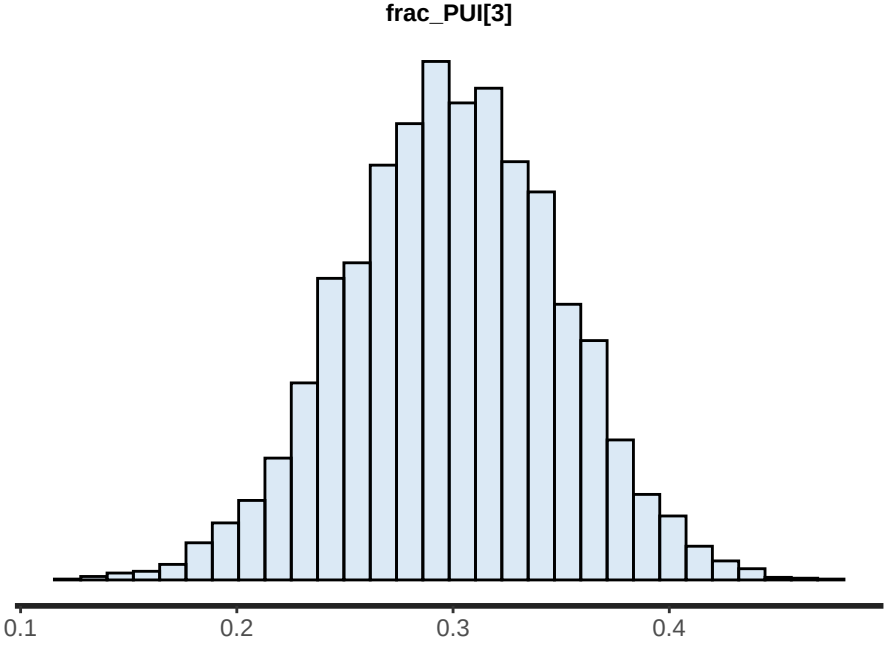

t_inter[6]
Aug 24
Aug 31
Sep 07

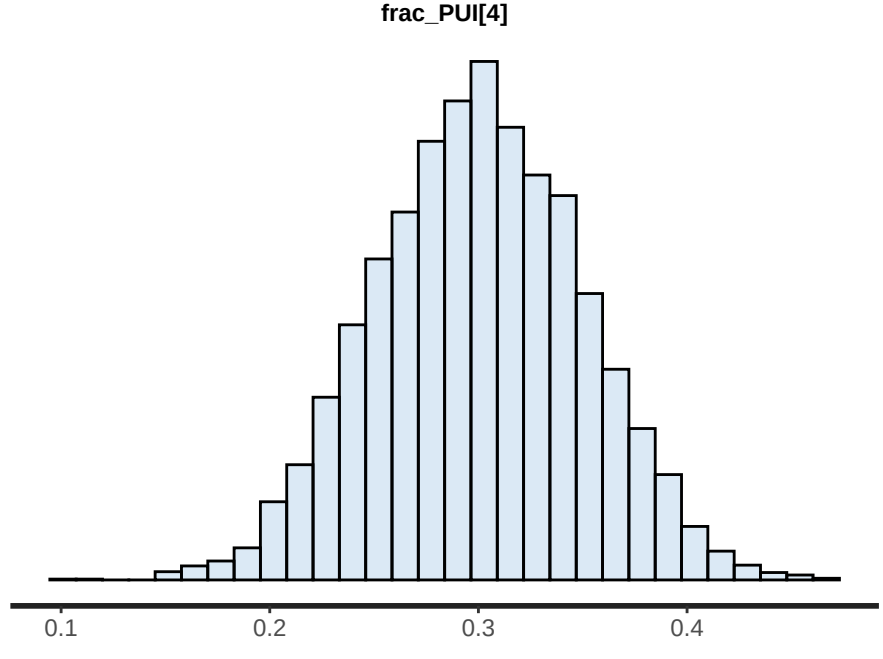

t_inter[7]
Sep 14
Sep 21


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


frac_PUI[1]
0.1
0.2
0.3
0.4


frac_PUI[2]
0.1
0.2
0.3
0.4


frac_PUI[3]
0.1
0.2
0.3
0.4


frac_PUI[4]
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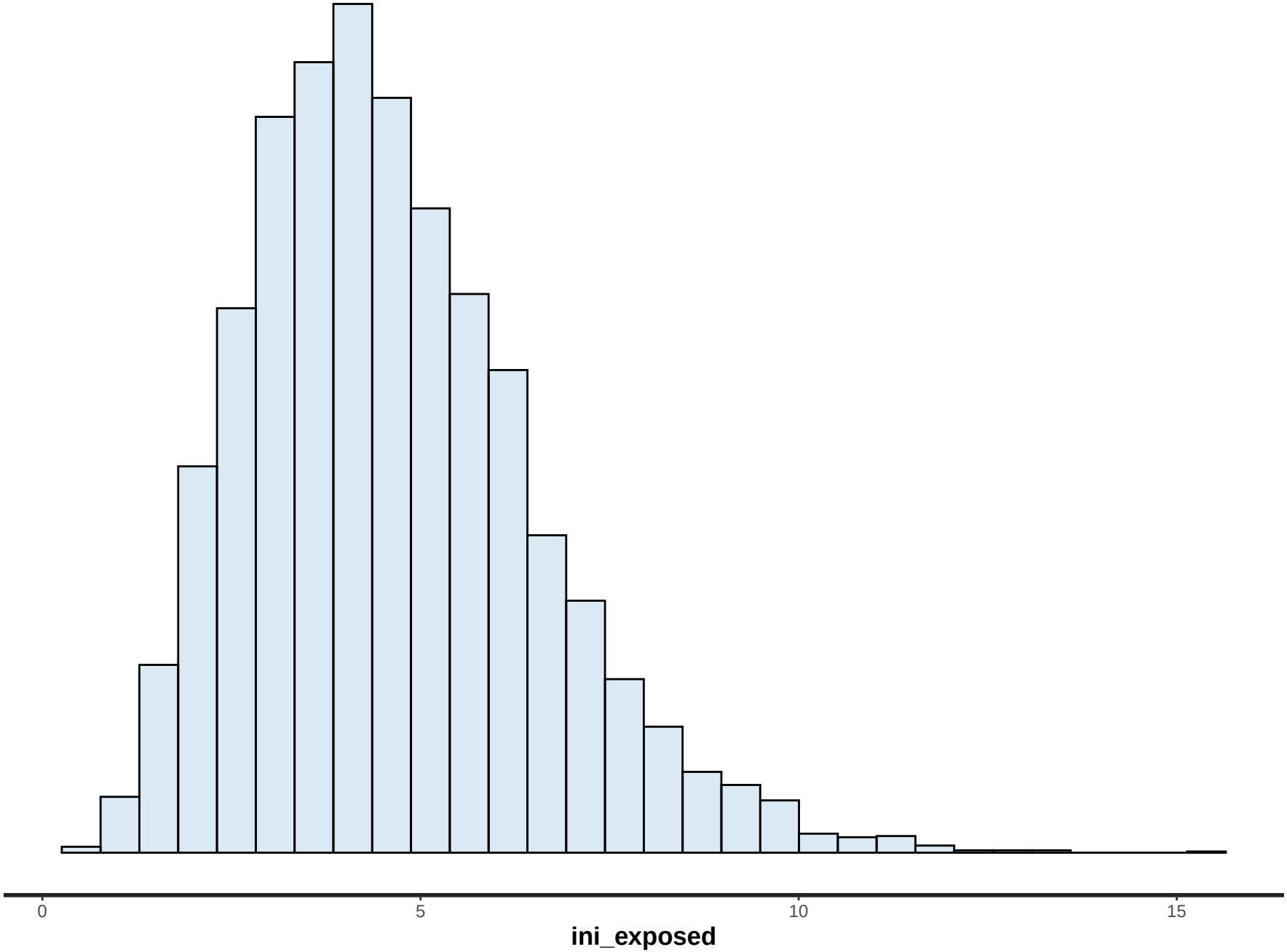
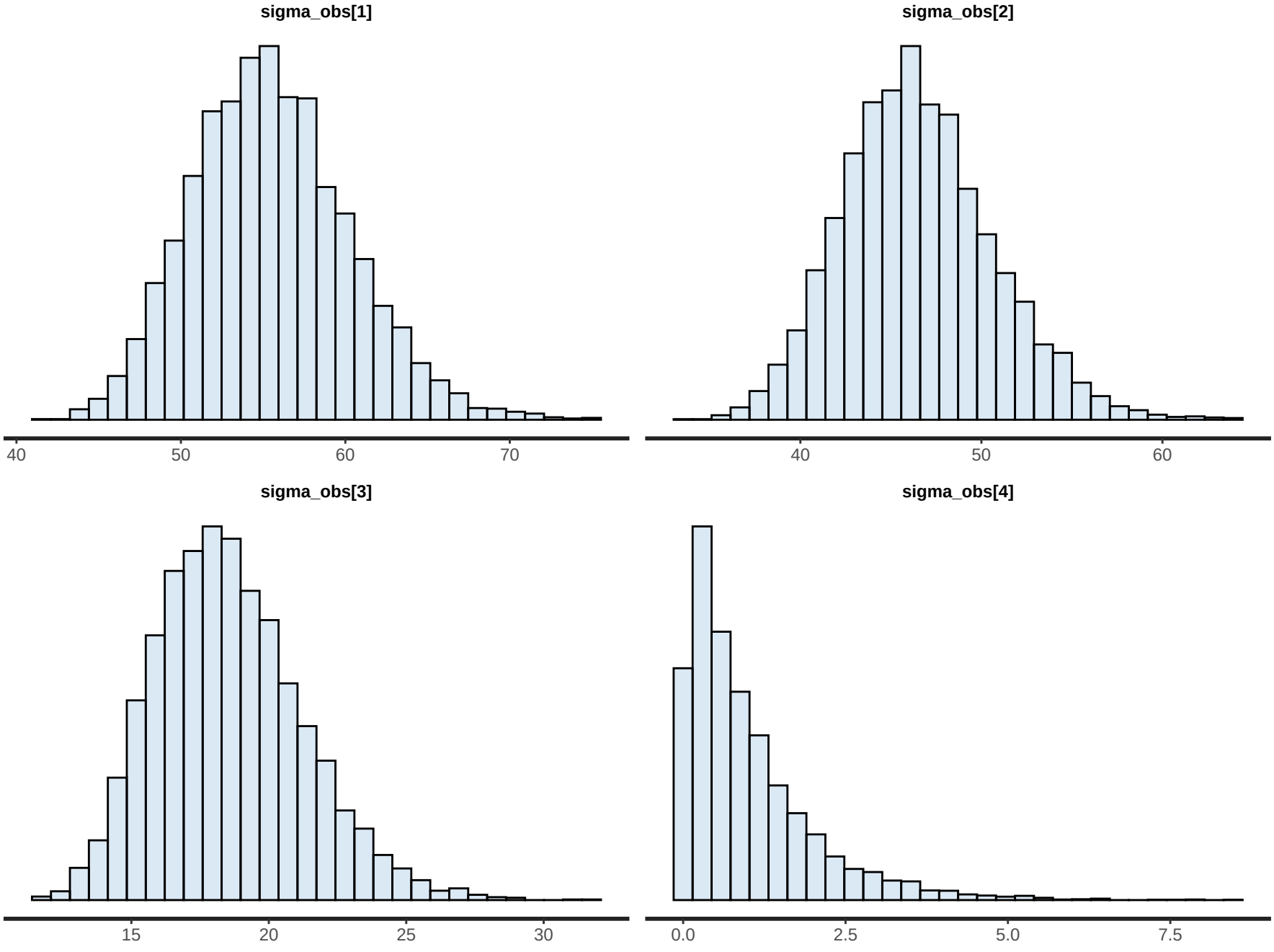
0.2
0.3
0.4


0
5
10
15
ini_exposed


sigma_obs[1]
40
50
60
70
sigma_obs[2]
40
50
60
sigma_obs[3]
15
20
25
30
sigma_obs[4]
0.0
2.5
5.0
7.5