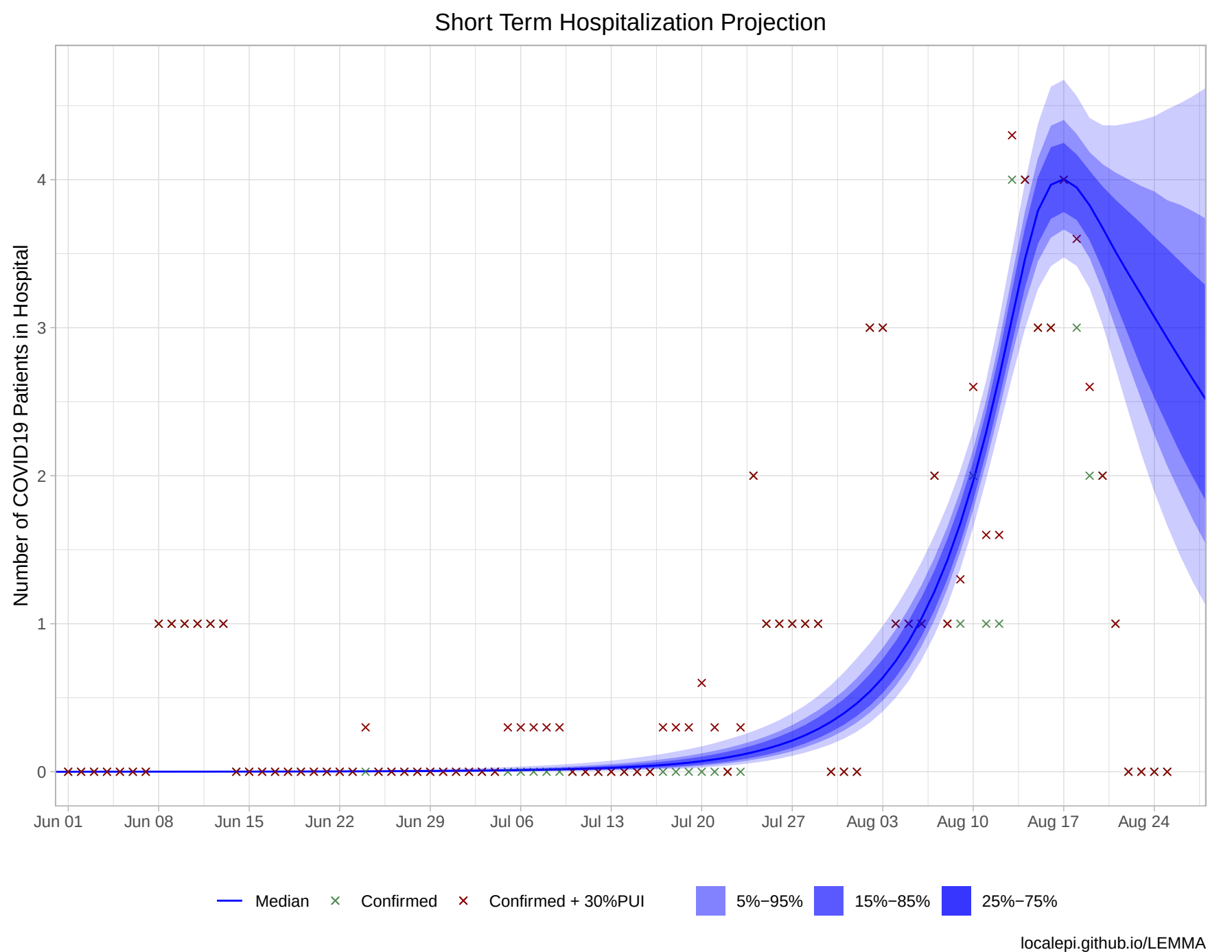
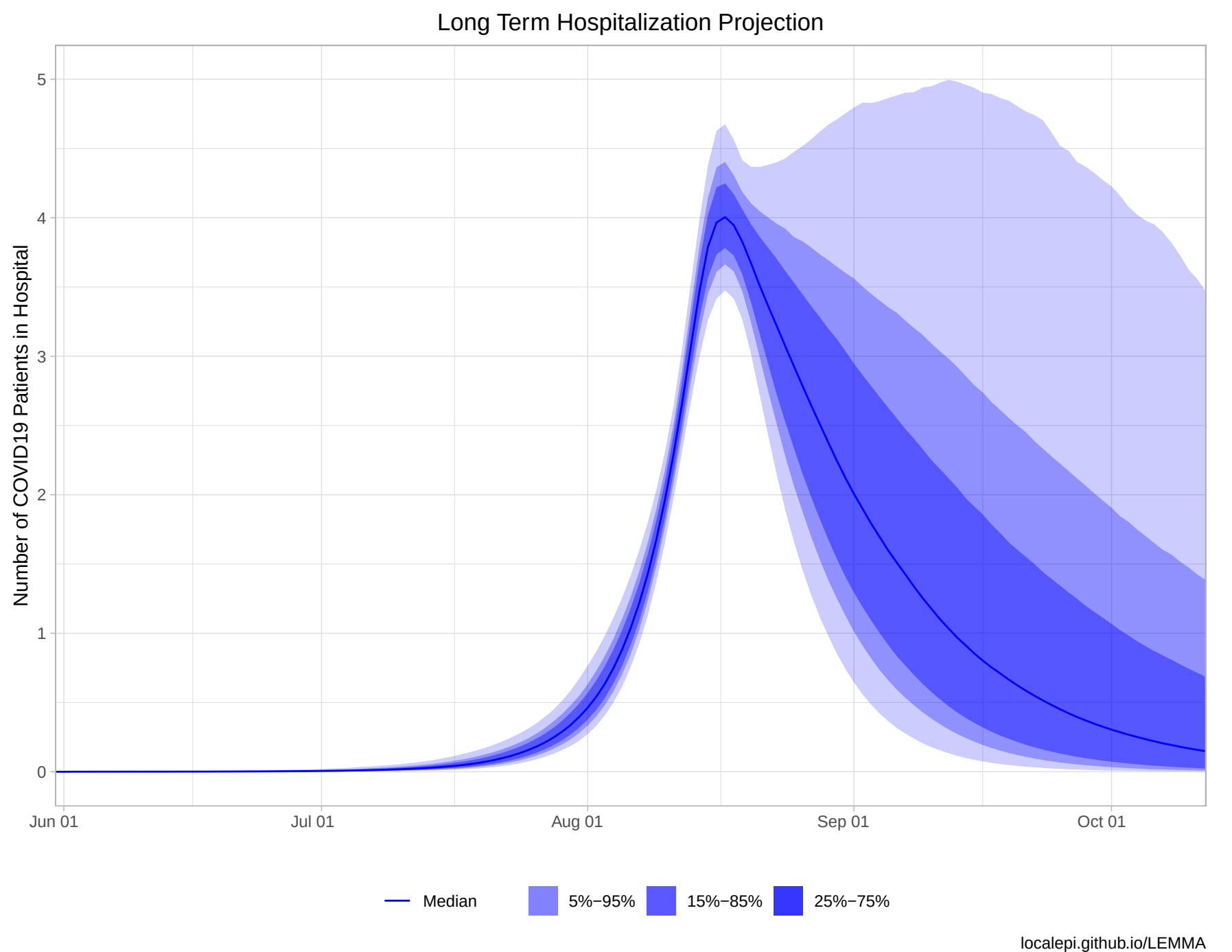
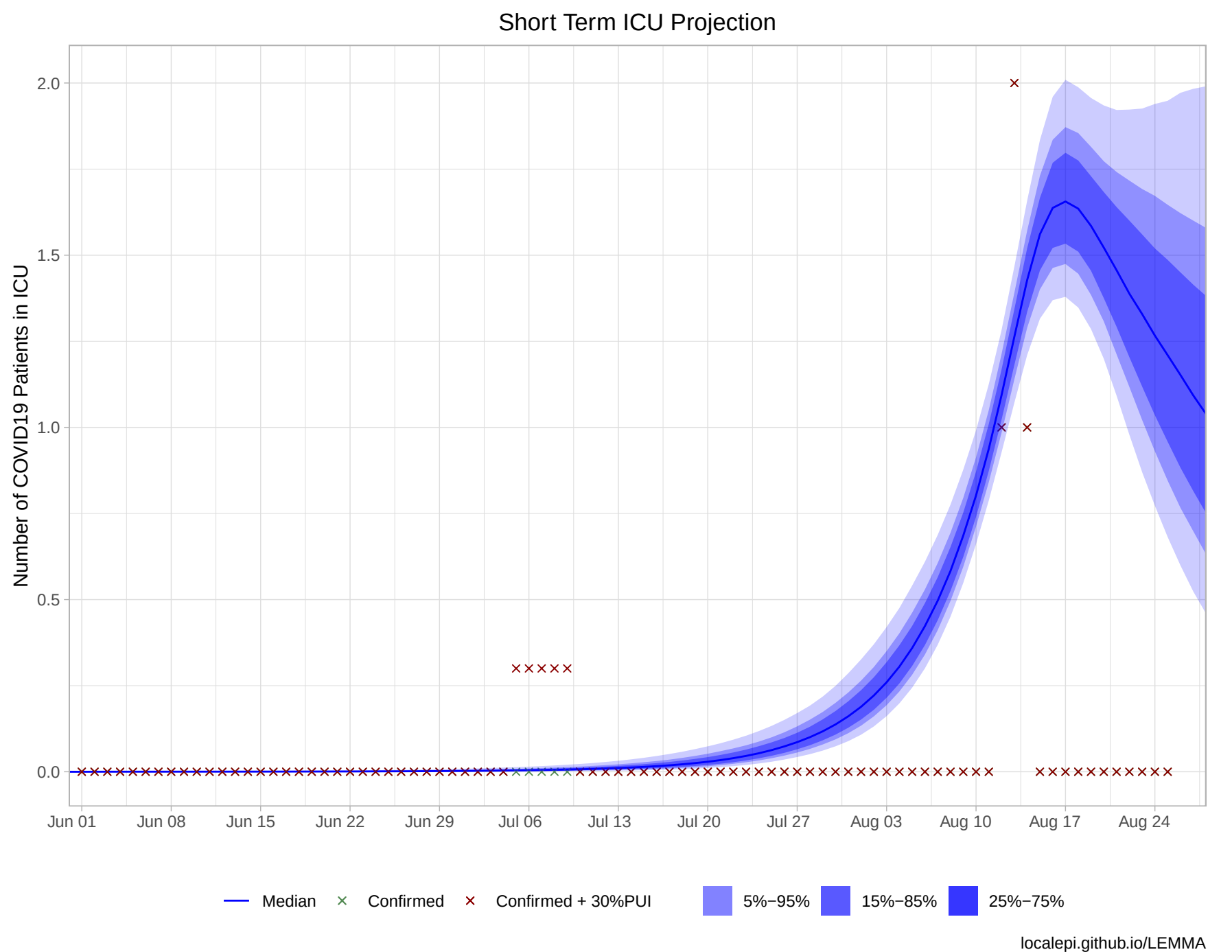
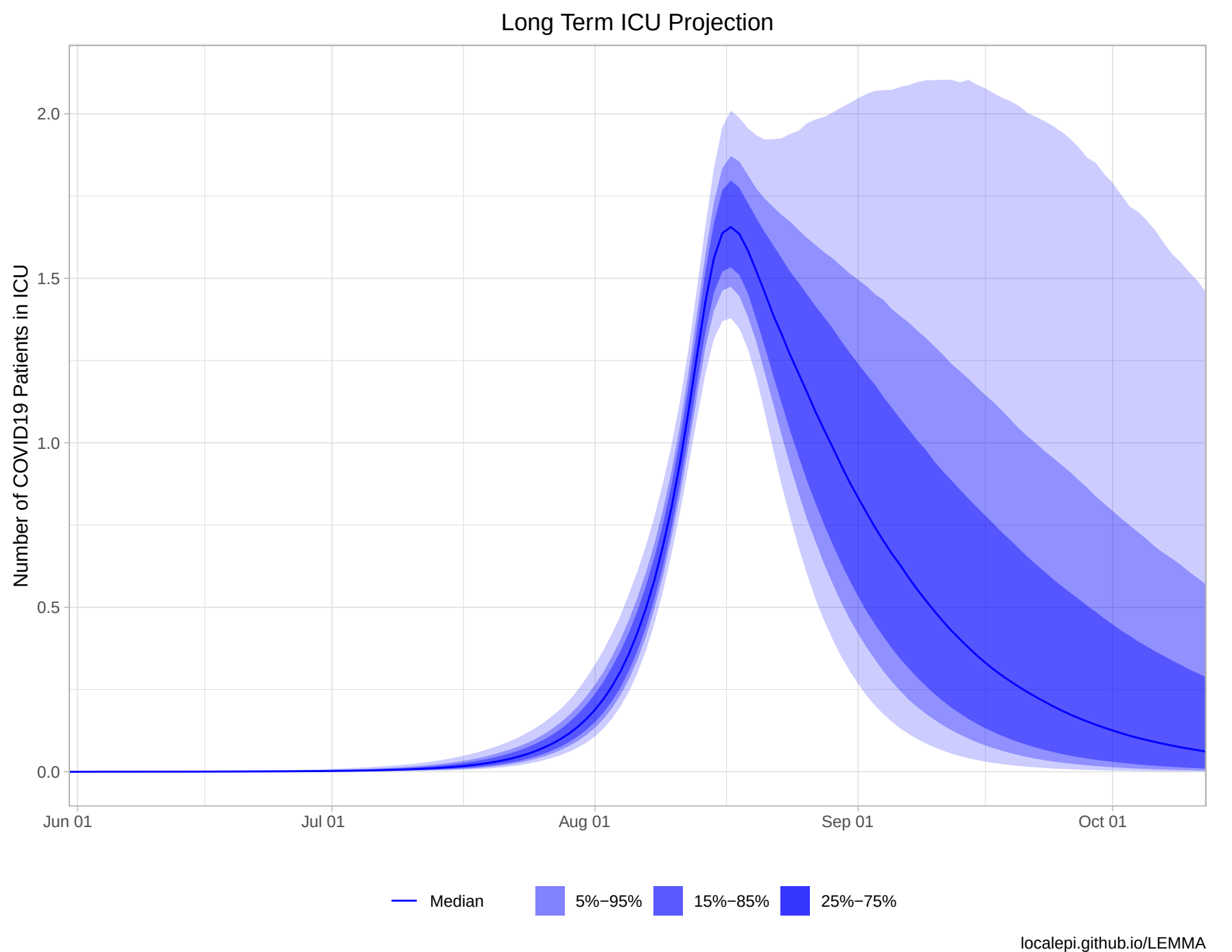
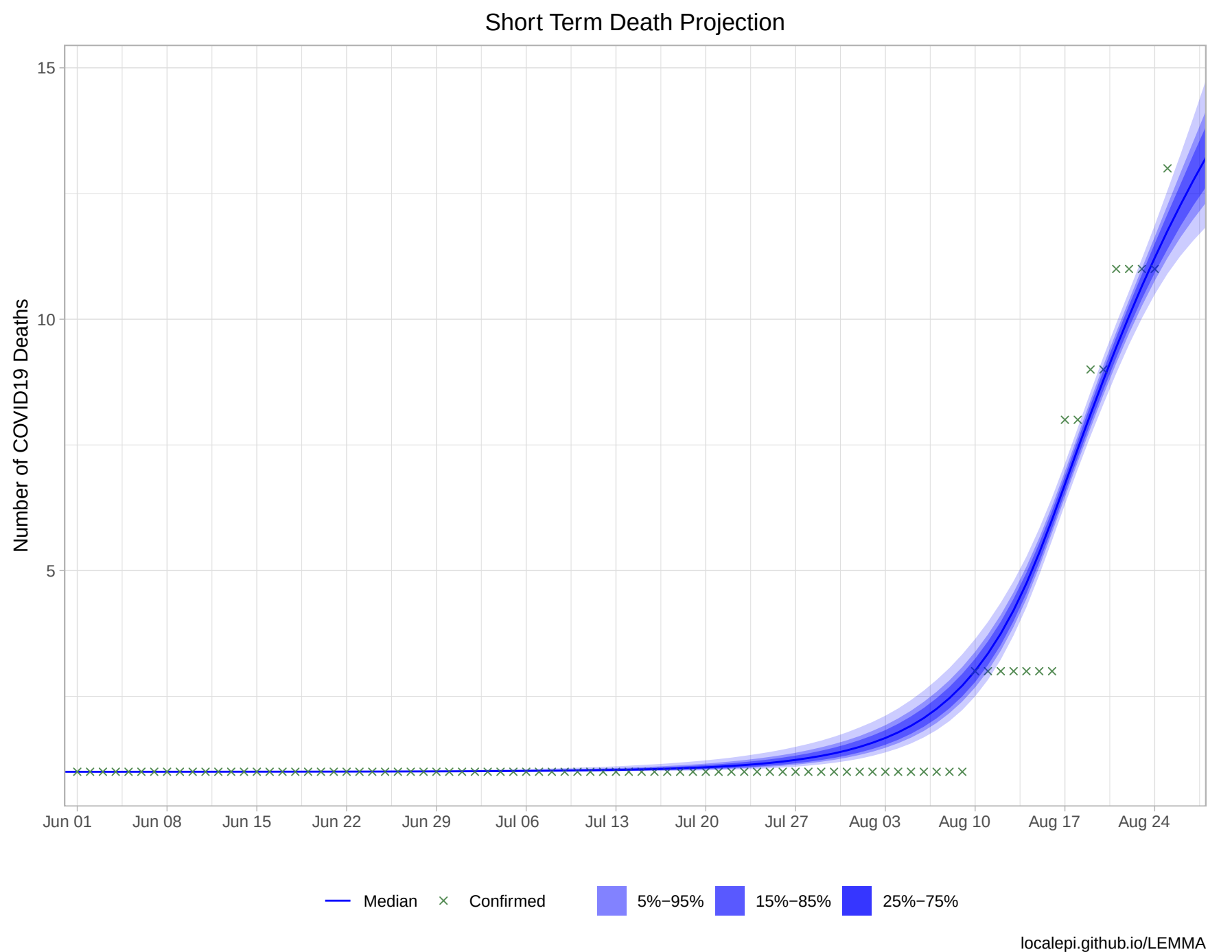
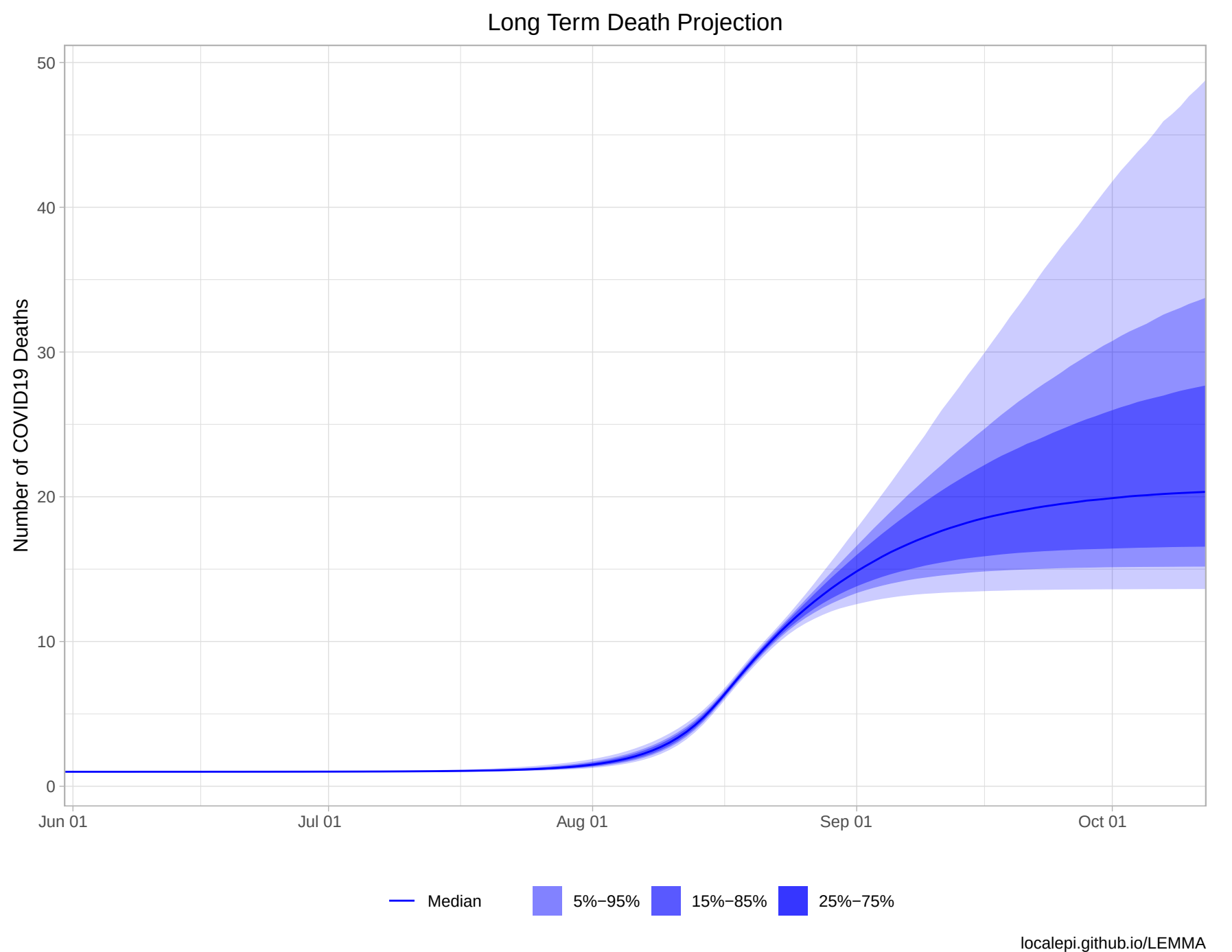

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
1
2
3
4
Jun 01
Jun 08
Jun 15
Jun 22
Jun 29
Jul 06
Jul 13
Jul 20
Jul 27
Aug 03
Aug 10
Aug 17
Aug 24
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

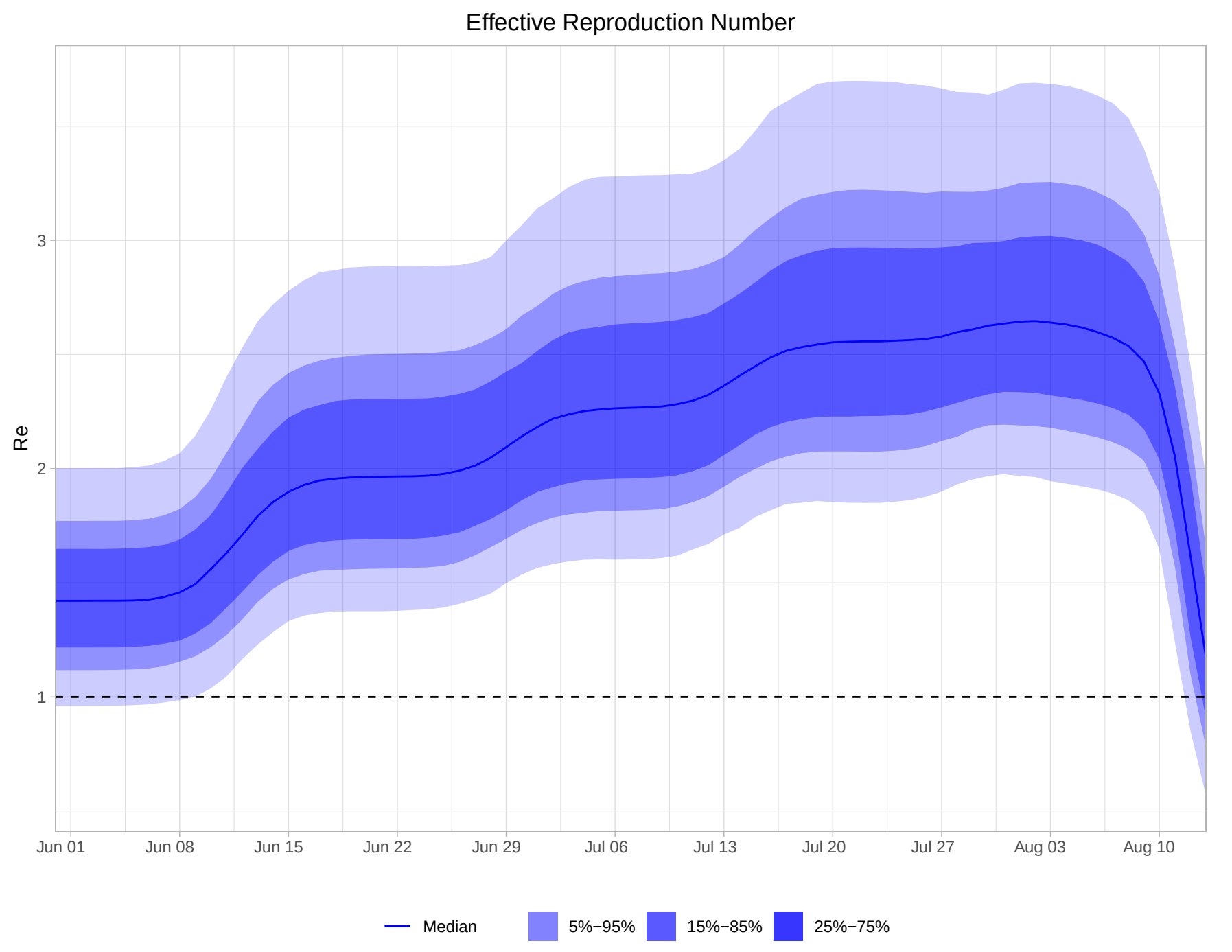

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
1
2
3
4
5
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


Short Term ICU Projection
Number of COVID19 Patients in ICU
2.0
1.5
1.0
0.5
0.0
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
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
2.0
1.5
1.0
0.5
0.0
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

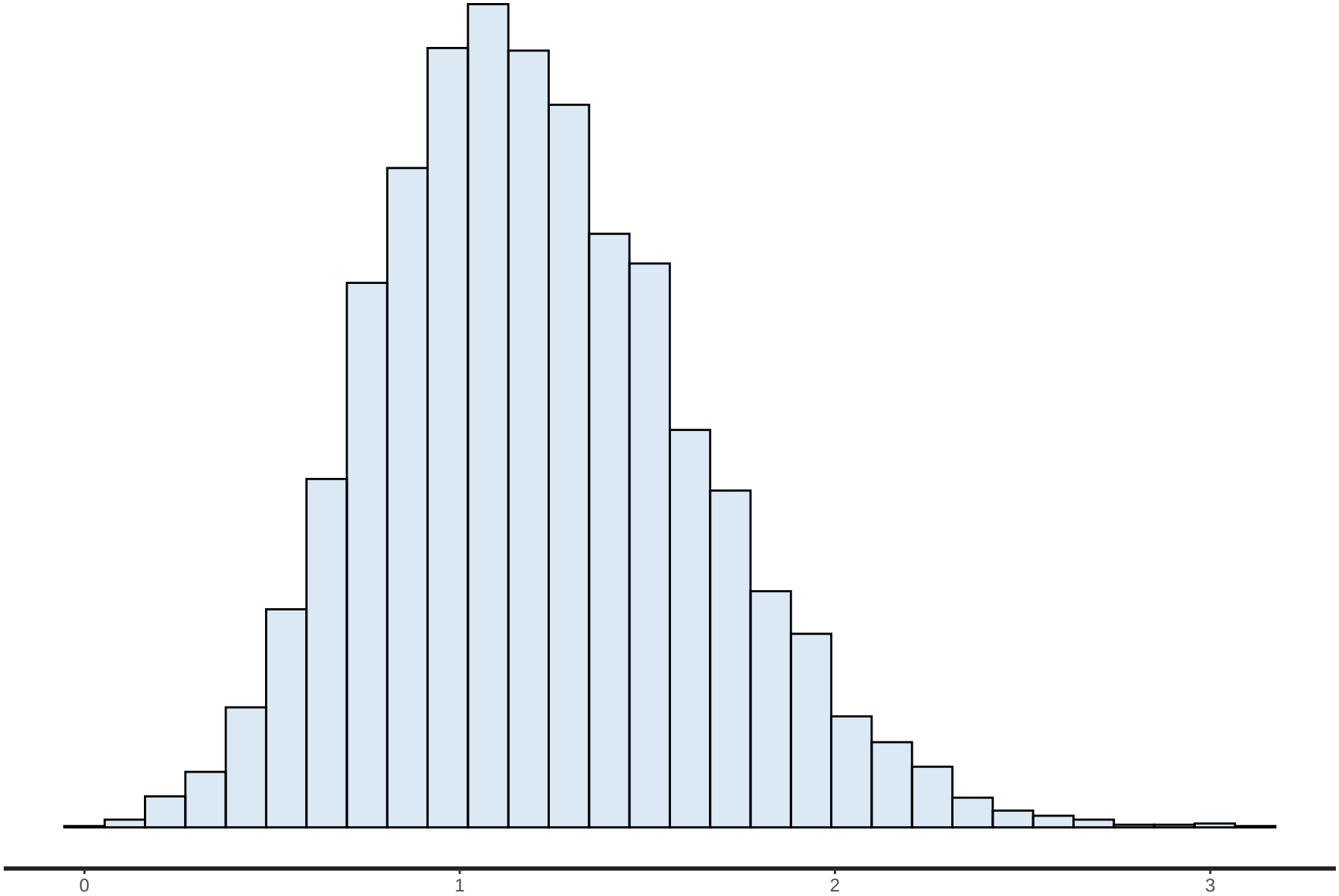

Short Term Death Projection
Number of COVID19 Deaths
15
10
5
Jun 01
Jun 08
Jun 15
Jun 22
Jun 29
Jul 06
Jul 13
Jul 20
Jul 27
Aug 03
Aug 10
Aug 17
Aug 24
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

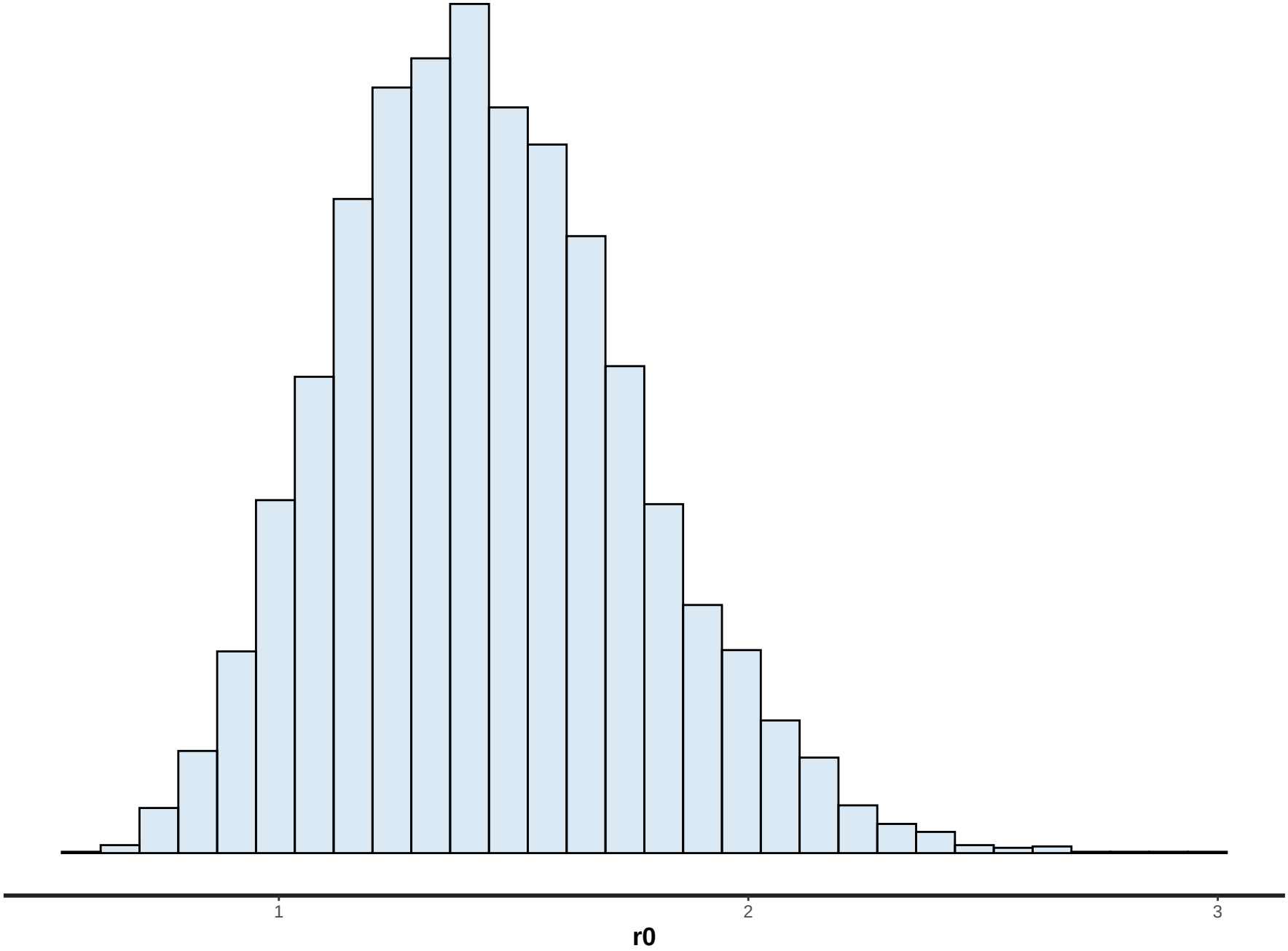

Long Term Death Projection
Number of COVID19 Deaths
50
40
30
20
10
0
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

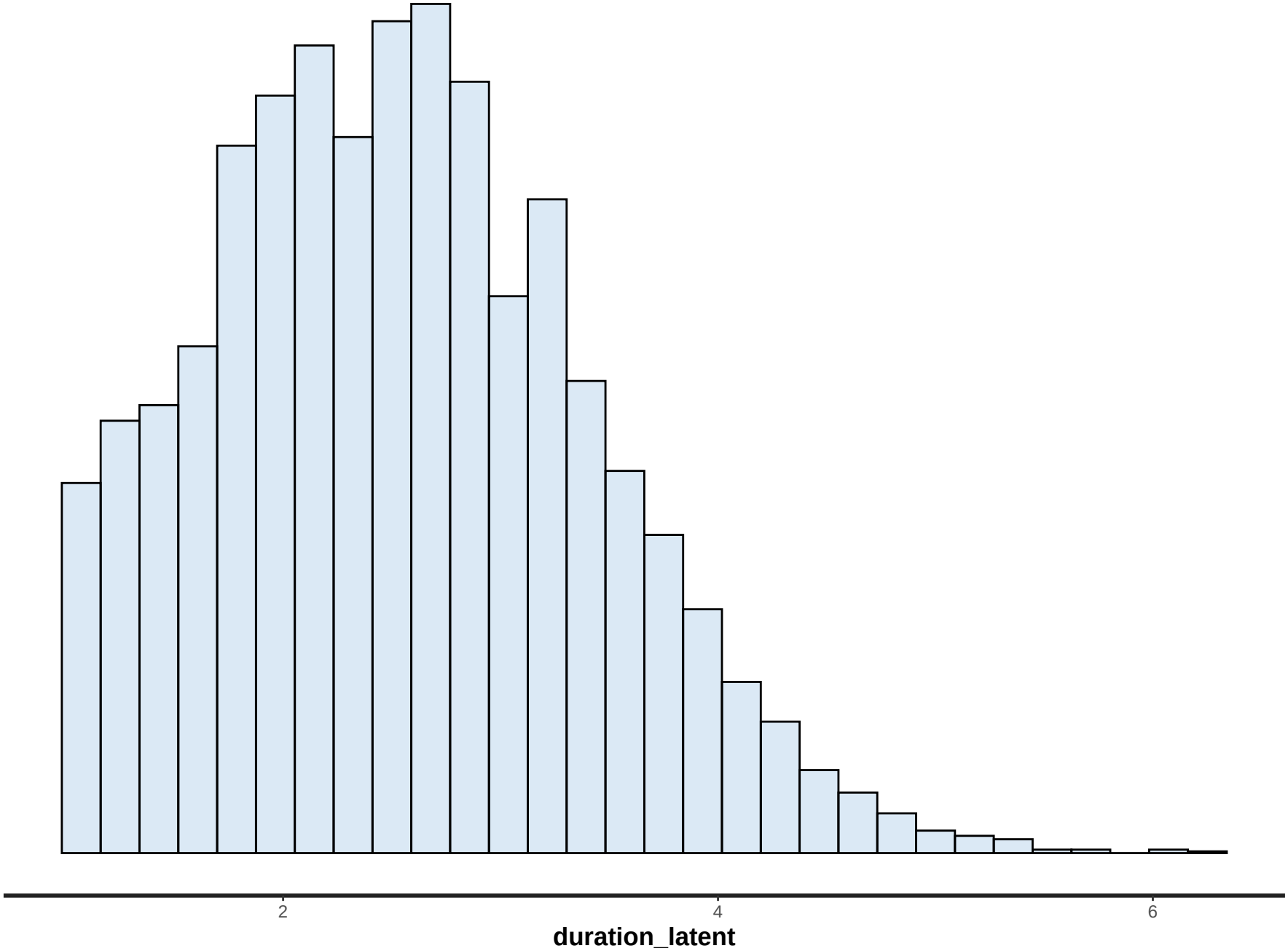

Effective Reproduction Number
Re
3
2
1
Jun 01
Jun 08
Jun 15
Jun 22
Jun 29
Jul 06
Jul 13
Jul 20
Jul 27
Aug 03
Aug 10
Median
5%−95%
15%−85%
25%−75%

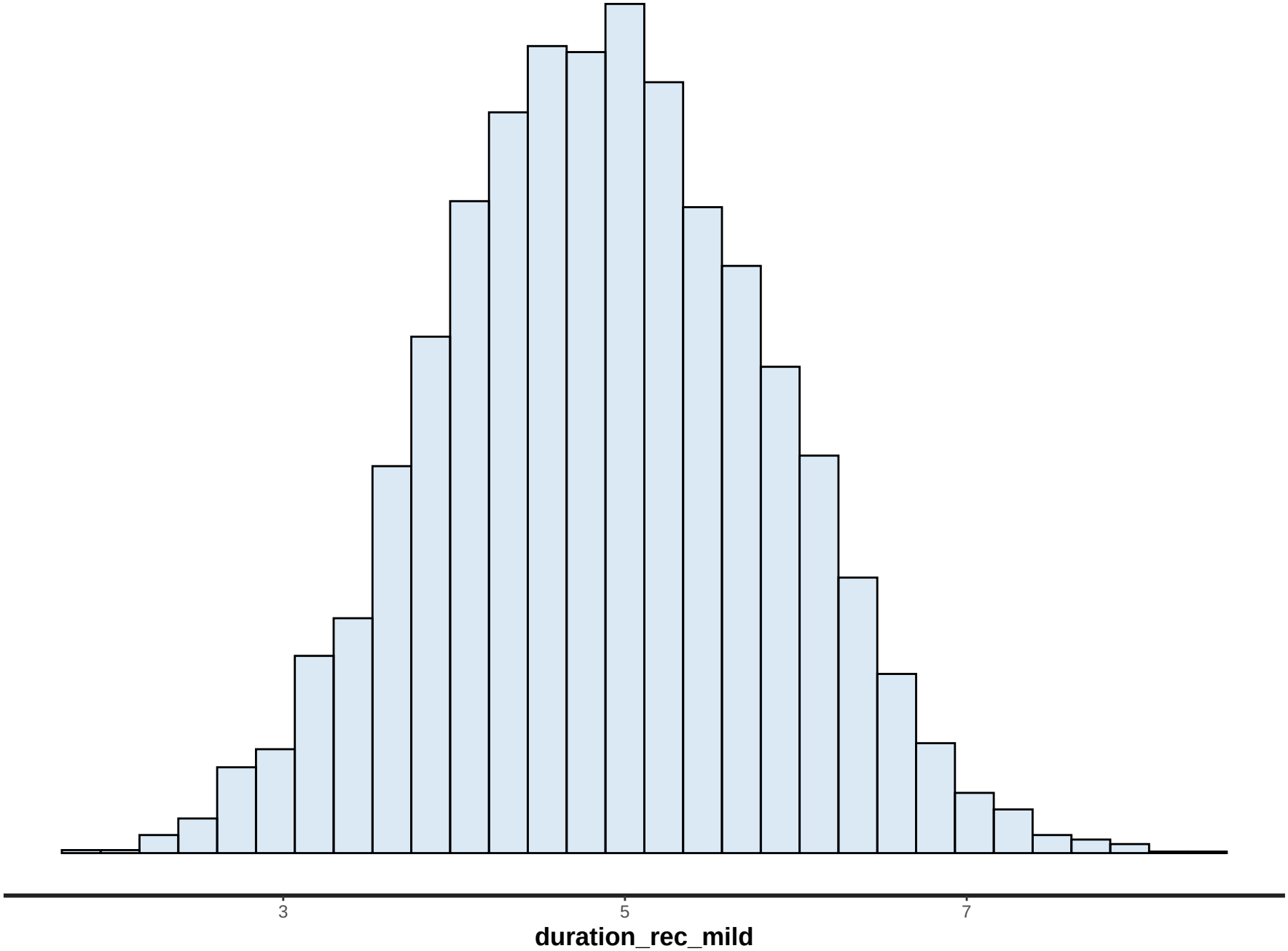
Rt as of 2020−08−13

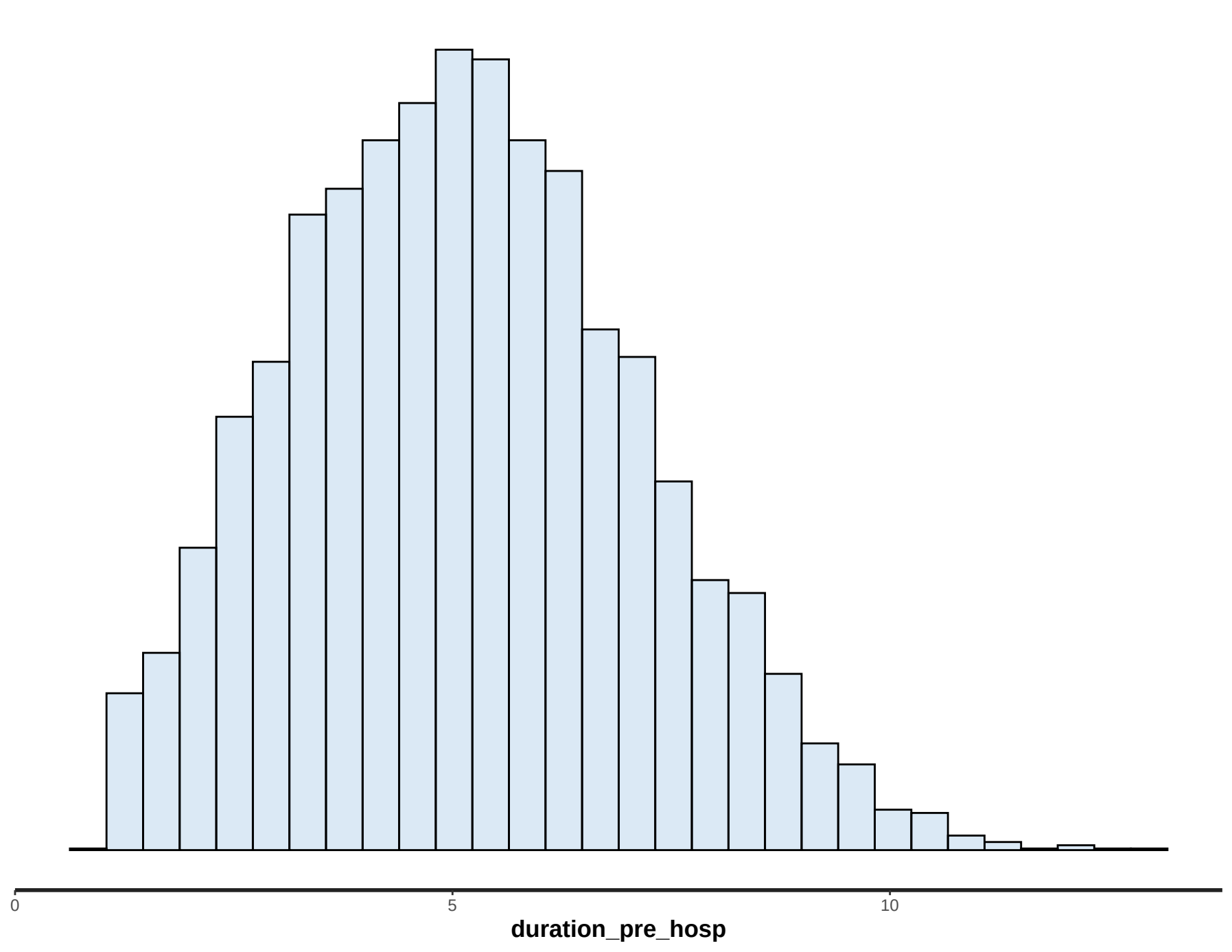
5%	10%	25%	50%	75%	90%	95%
0.57	0.70	0.91	1.17	1.48	1.77	1.96

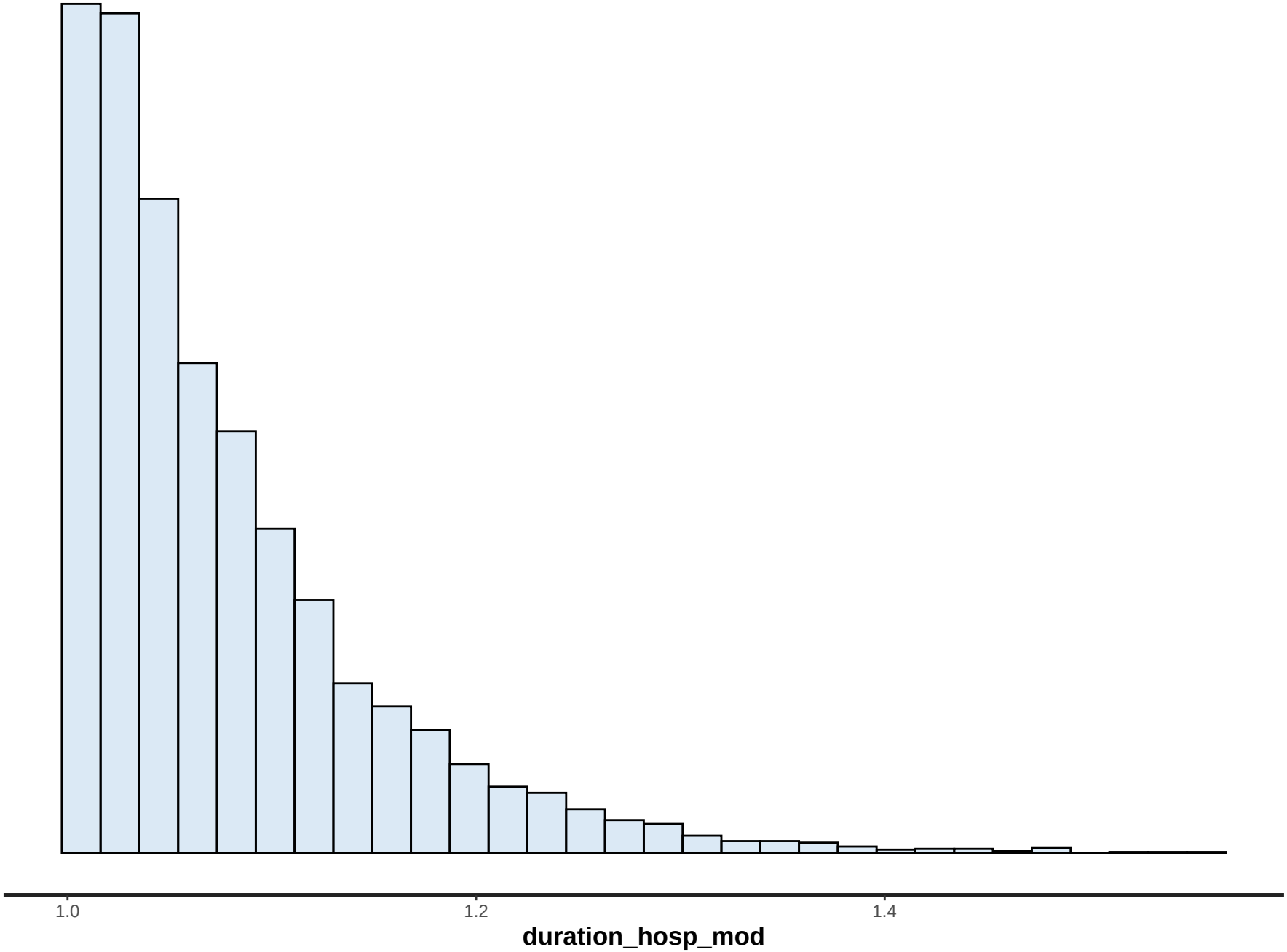


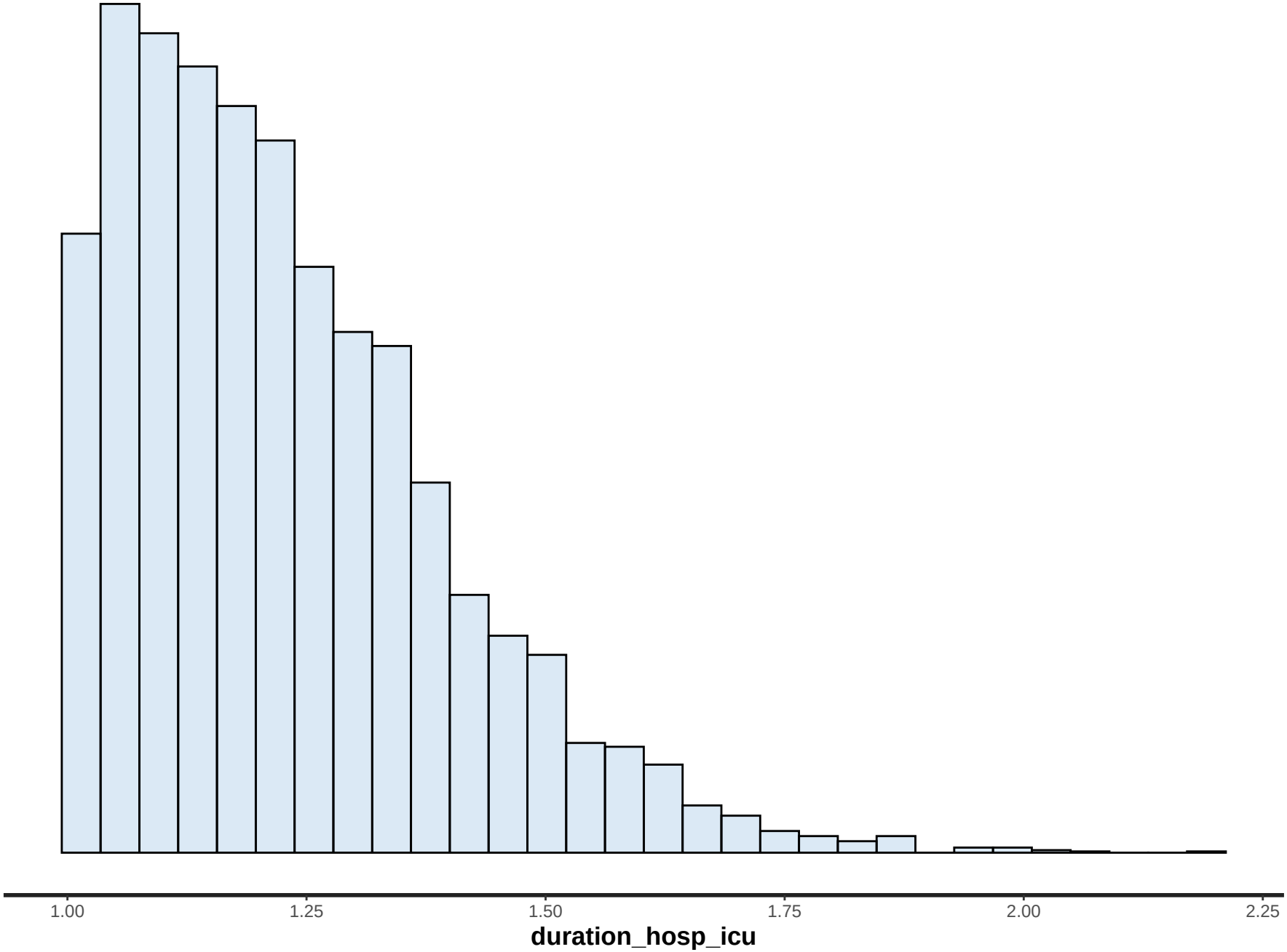

1
2
3
r0

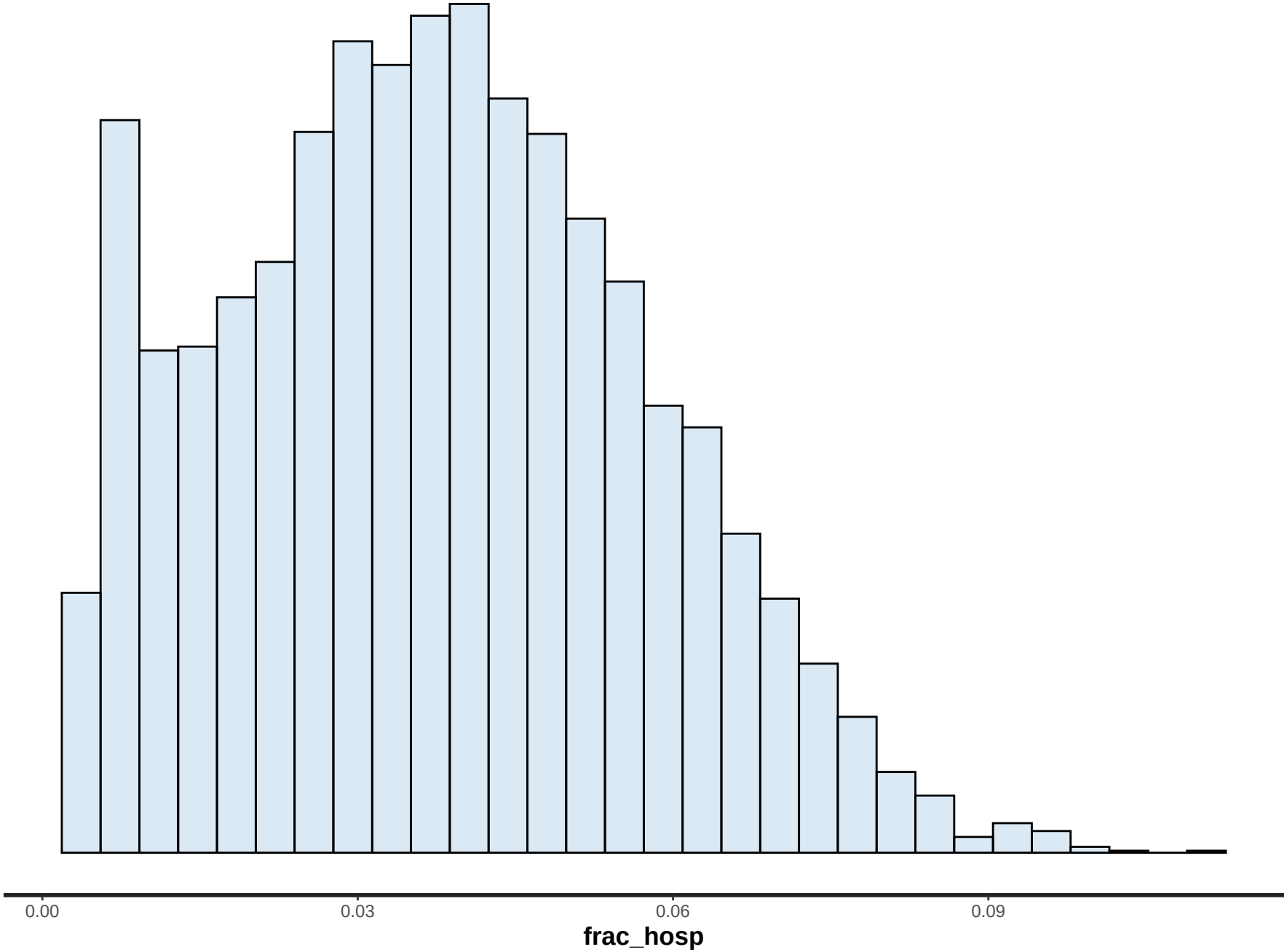

2
4
6
duration_latent

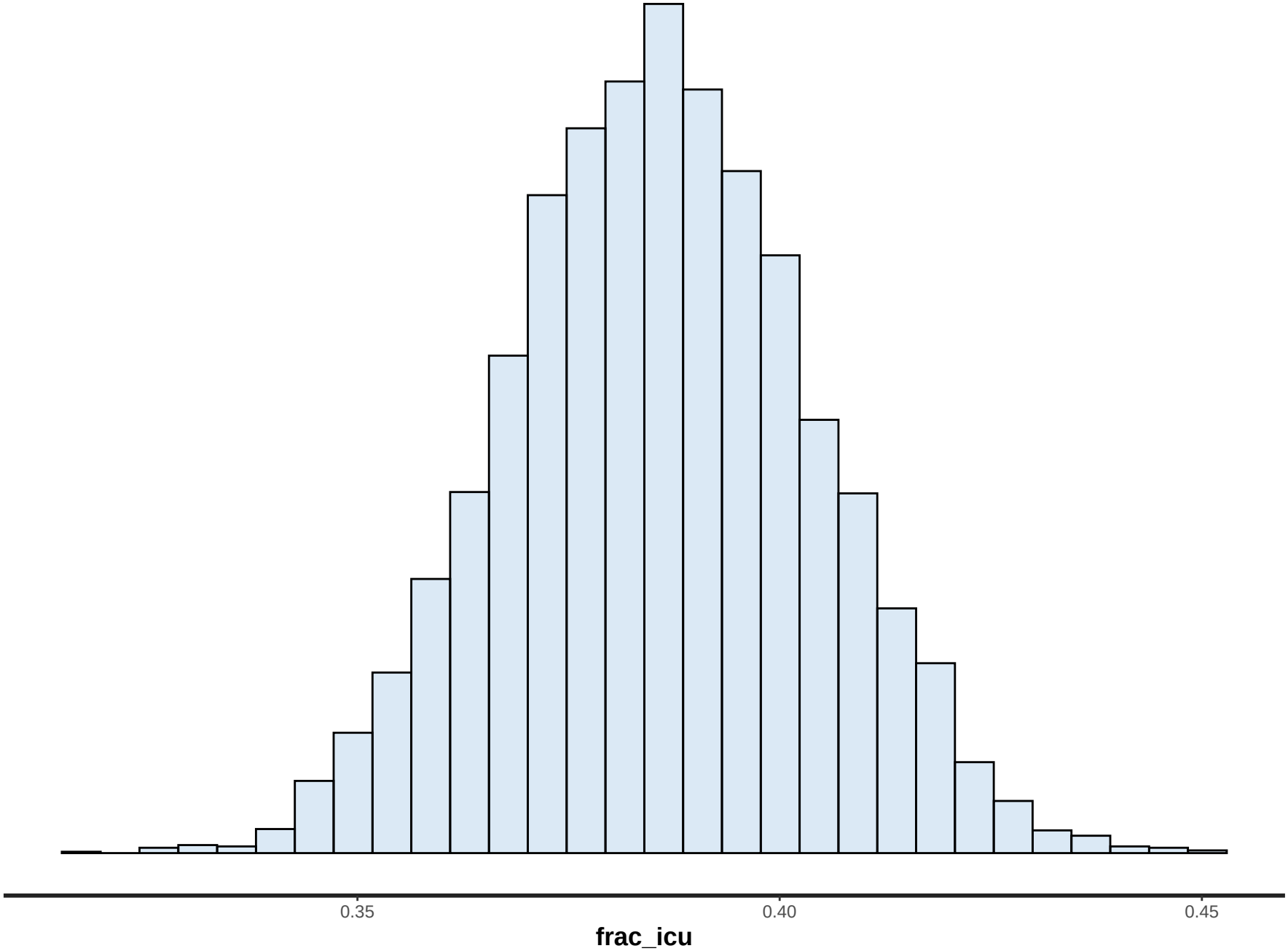

3
5
7
duration_rec_mild

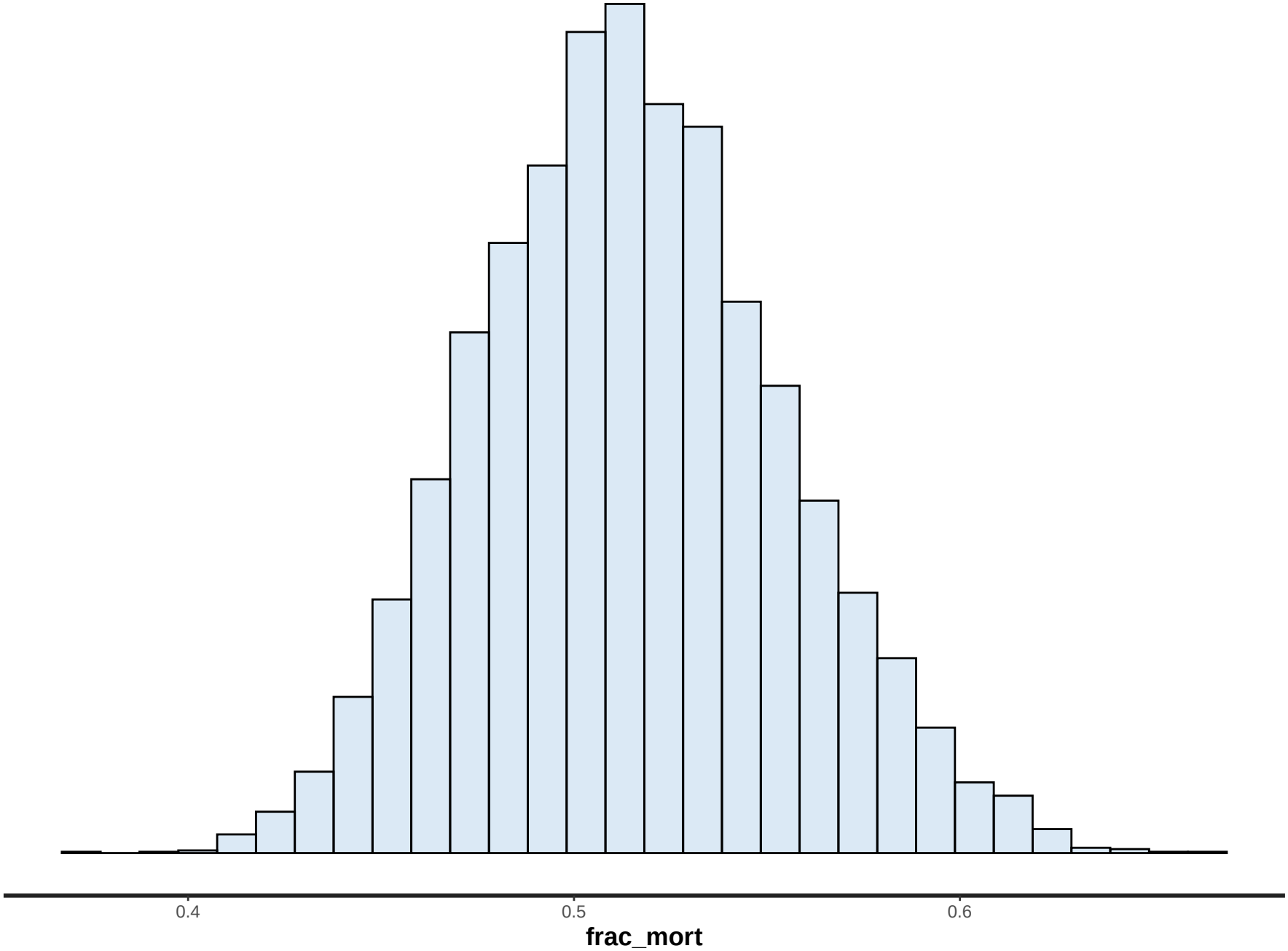

0
5
10
duration_pre_hosp

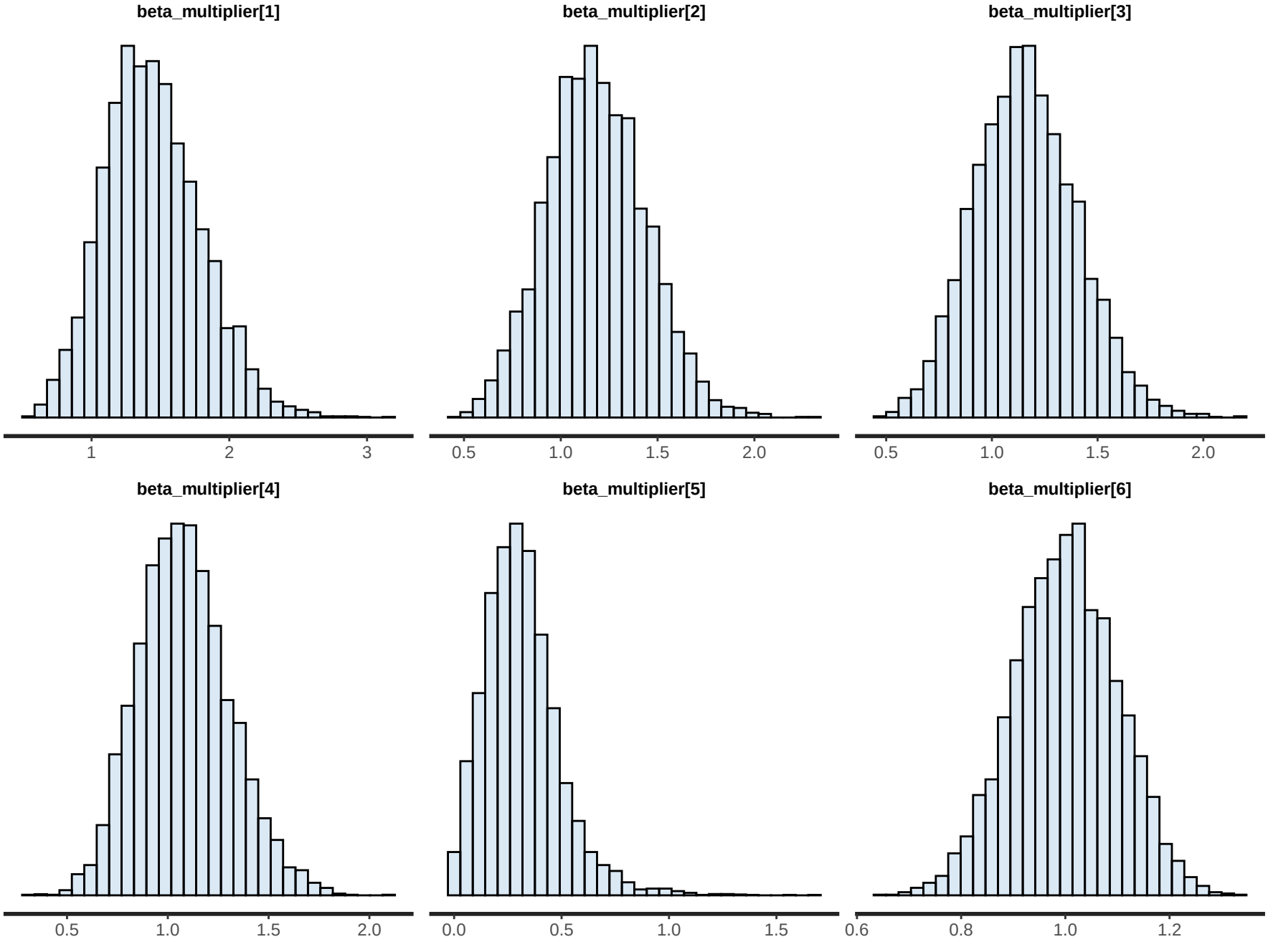

1.0
1.2
1.4
duration_hosp_mod

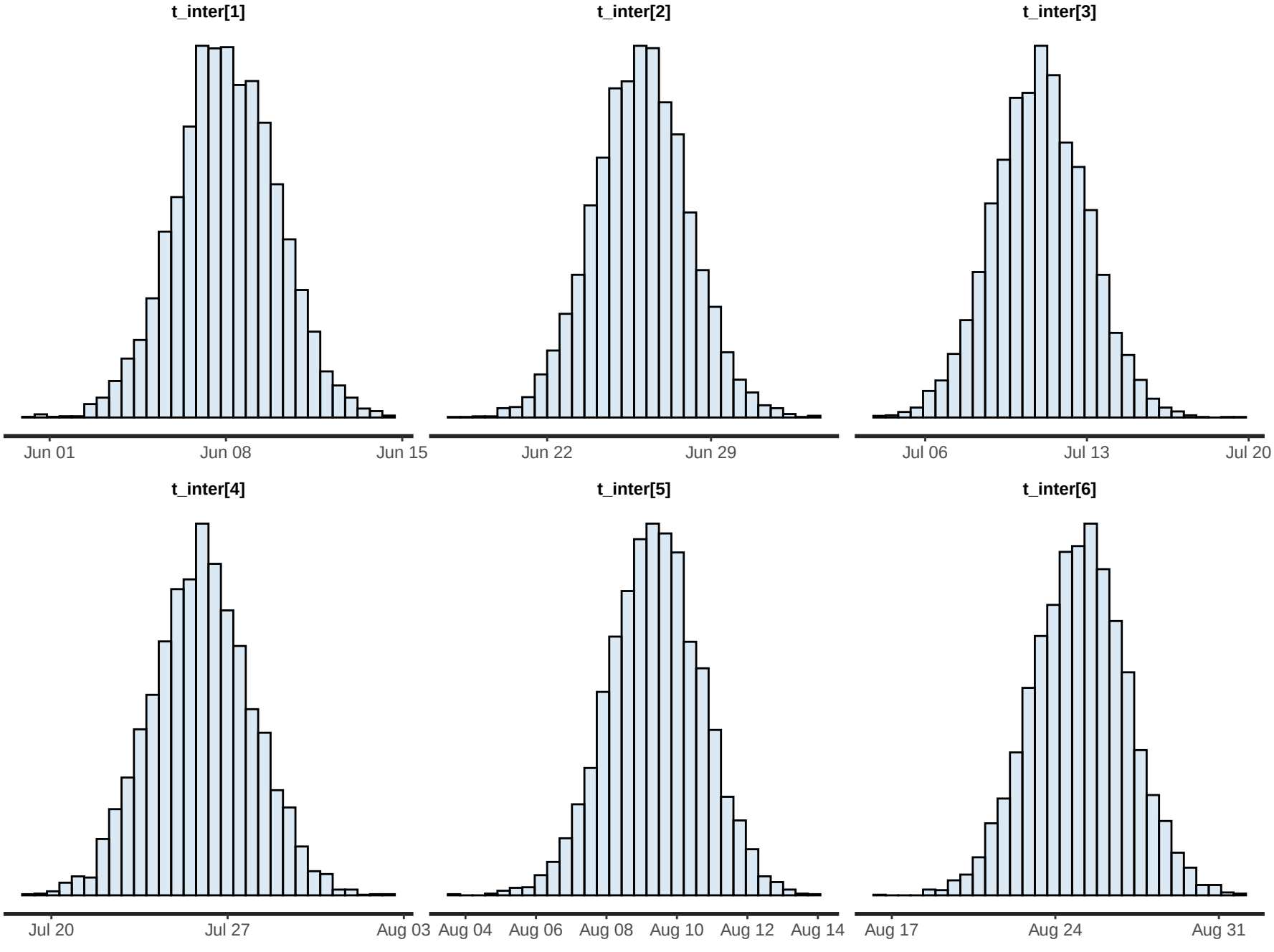

1.00
1.25
1.50
1.75
2.00
2.25
duration_hosp_icu

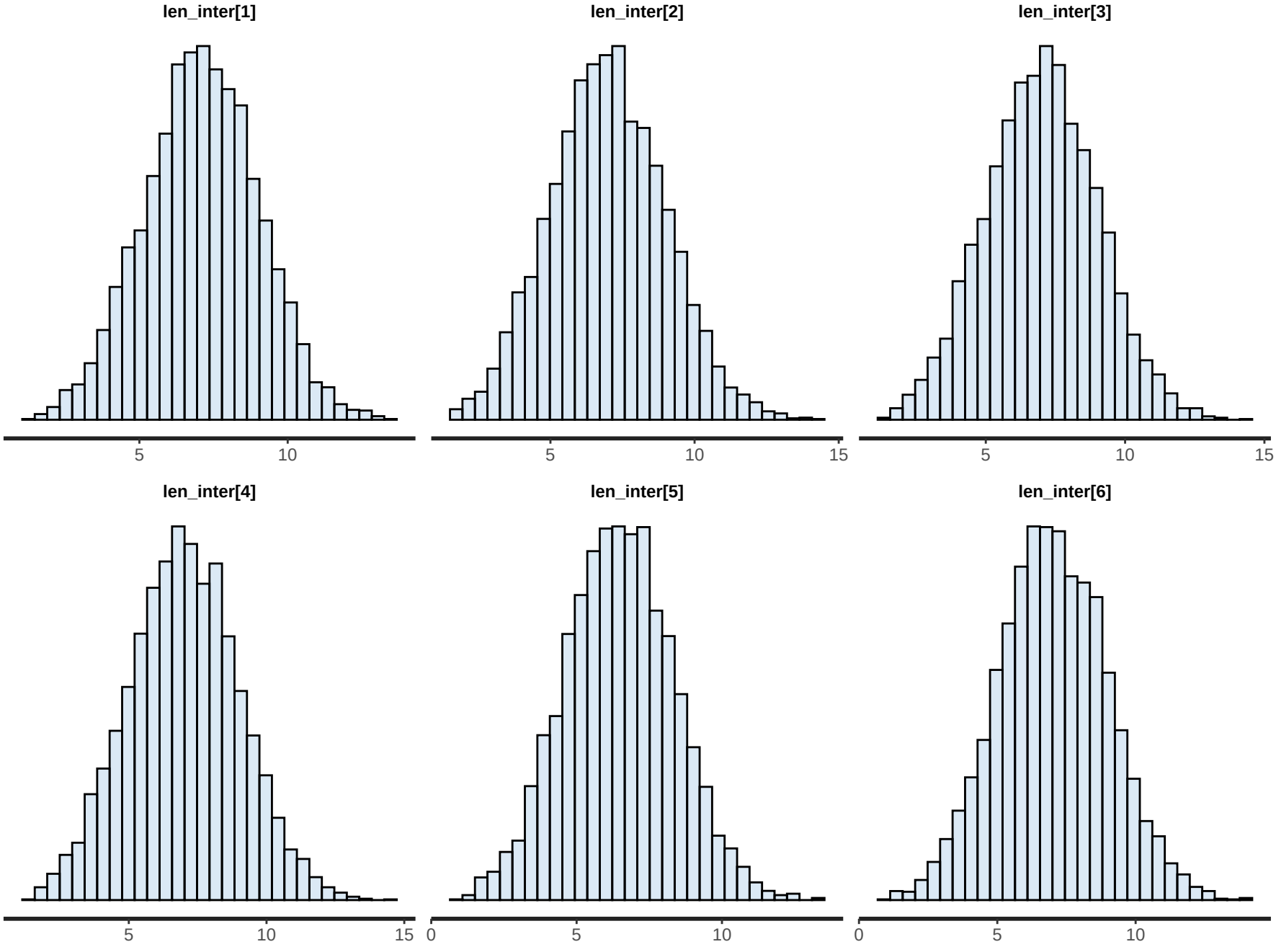

0.00
0.03
0.06
0.09
frac_hosp

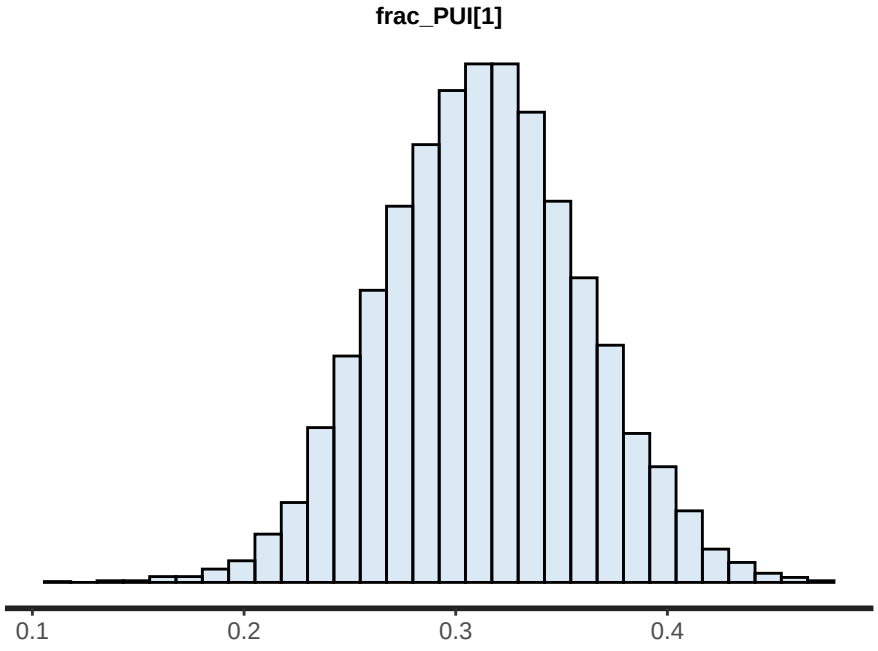

0.35
0.40
0.45
frac_icu

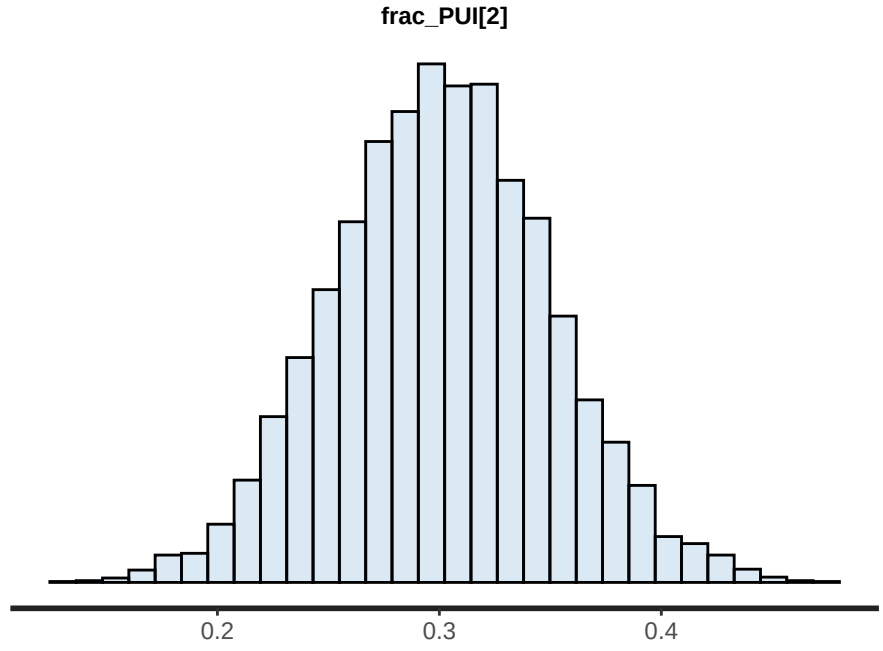

0.4
0.5
0.6
frac_mort

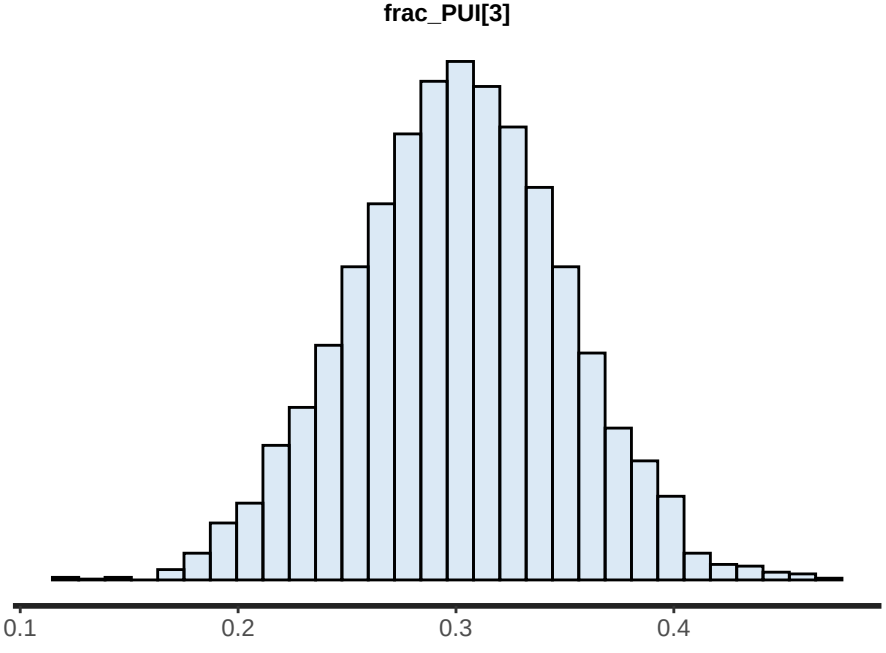

beta_multiplier[1]
1
2
3
beta_multiplier[2]
0.5
1.0
1.5
2.0
beta_multiplier[3]
0.5
1.0
1.5
2.0
beta_multiplier[4]
0.5
1.0
1.5
2.0
beta_multiplier[5]
0.0
0.5
1.0
1.5
beta_multiplier[6]
0.6
0.8
1.0
1.2

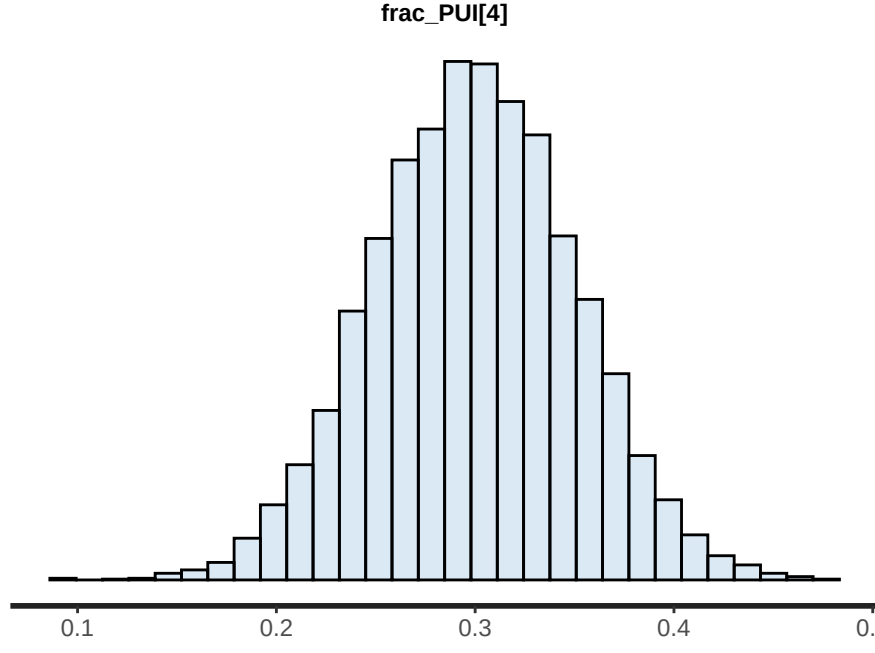

t_inter[1]
Jun 01
Jun 08
Jun 15
t_inter[2]
Jun 22
Jun 29
t_inter[3]
Jul 06
Jul 13
Jul 20
t_inter[4]
Jul 20
Jul 27
Aug 03
t_inter[5]
Aug 04
Aug 06
Aug 08
Aug 10
Aug 12
Aug 14
t_inter[6]
Aug 17
Aug 24
Aug 31

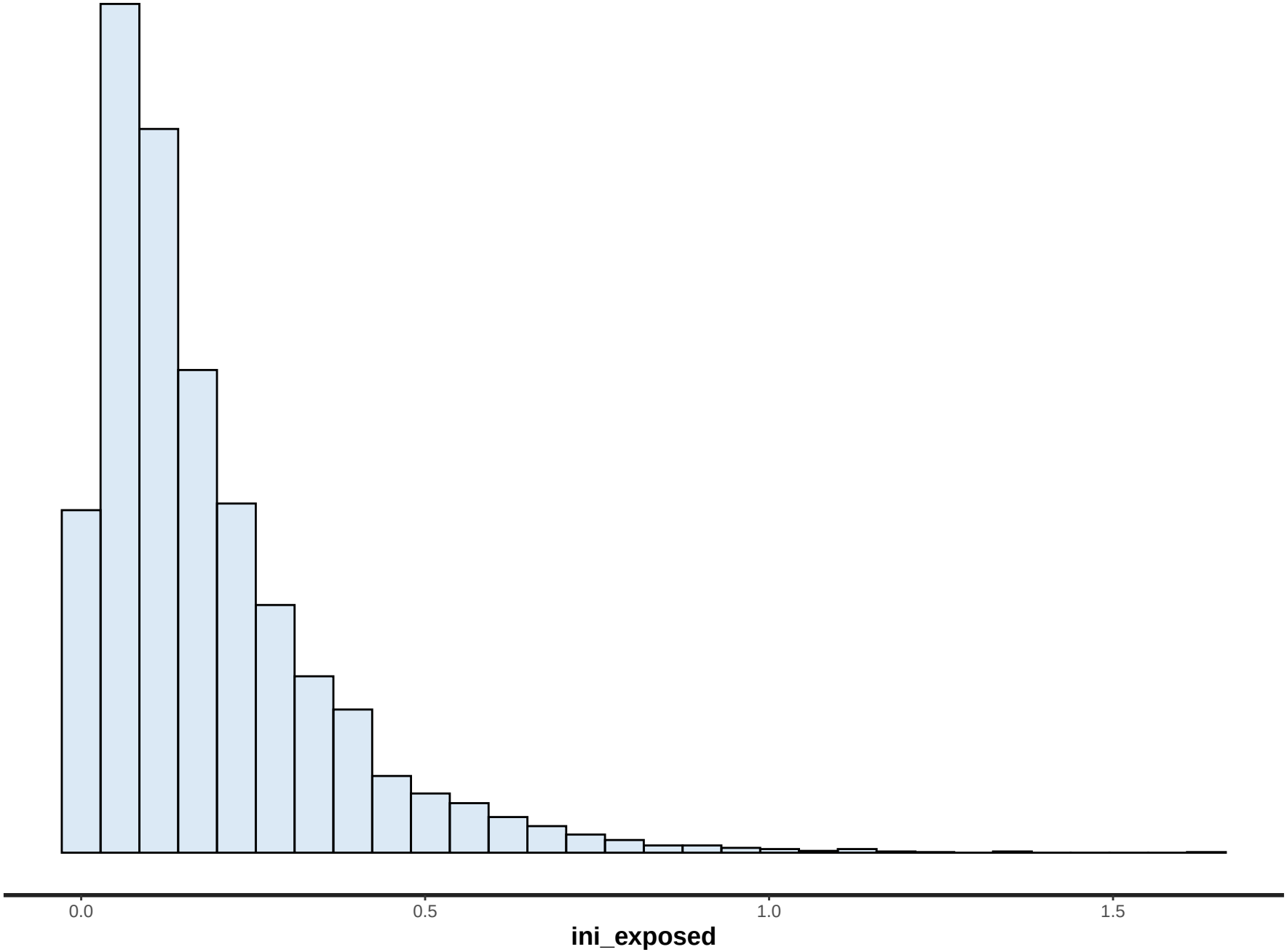

len_inter[1]
5
10
len_inter[2]
5
10
15
len_inter[3]
5
10
15
len_inter[4]
5
10
15
len_inter[5]
0
5
10
len_inter[6]
0
5
10

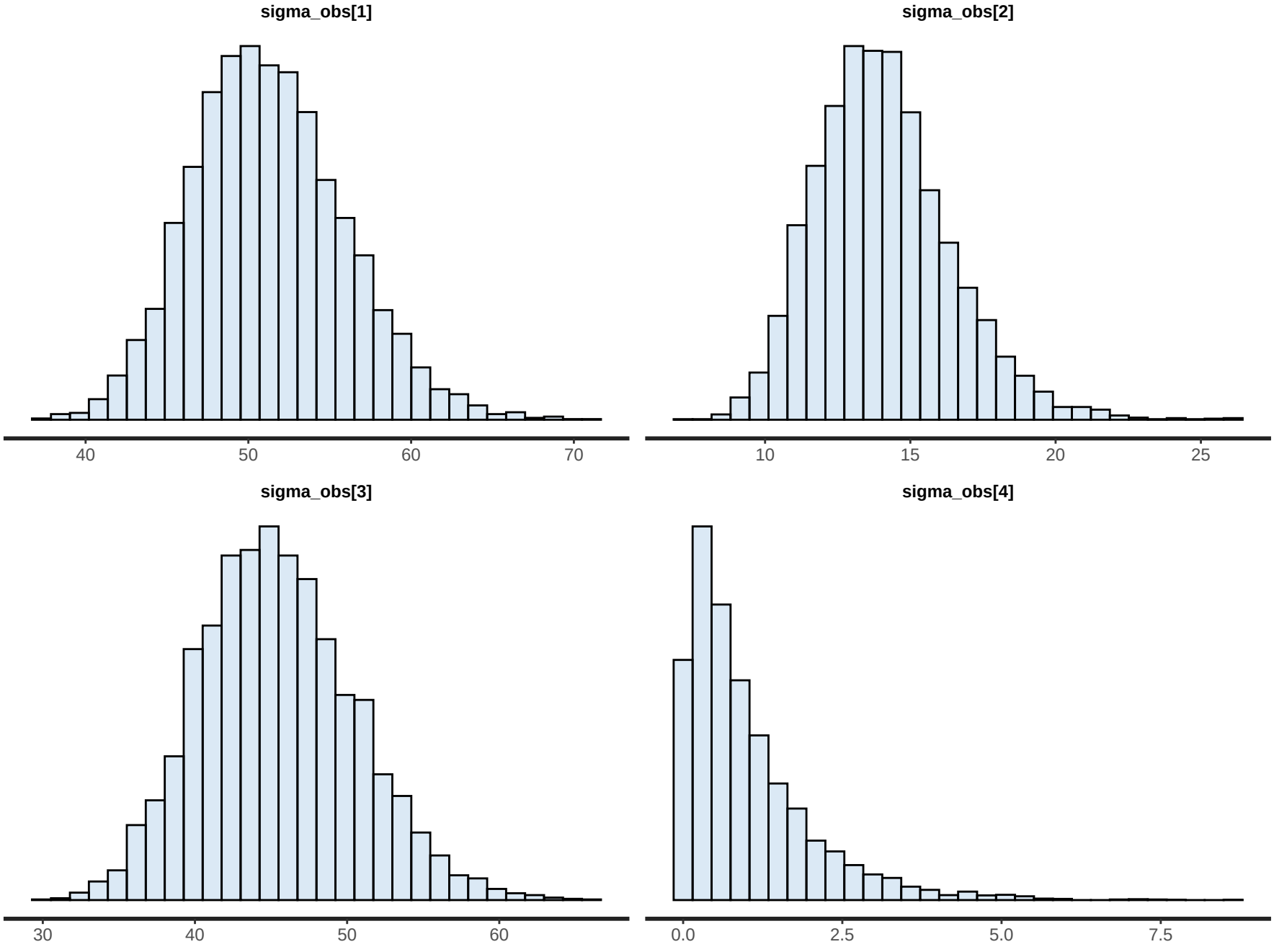

frac_PUI[1]
0.1
0.2
0.3
0.4


frac_PUI[2]
0.2
0.3
0.4


frac_PUI[3]
0.1
0.2
0.3
0.4


frac_PUI[4]
0.1
0.2
0.3
0.4
0.5


0.0
0.5
1.0
1.5
ini_exposed


sigma_obs[1]
40
50
60
70
sigma_obs[2]
10
15
20
25
sigma_obs[3]
30
40
50
60
sigma_obs[4]
0.0
2.5
5.0
7.5