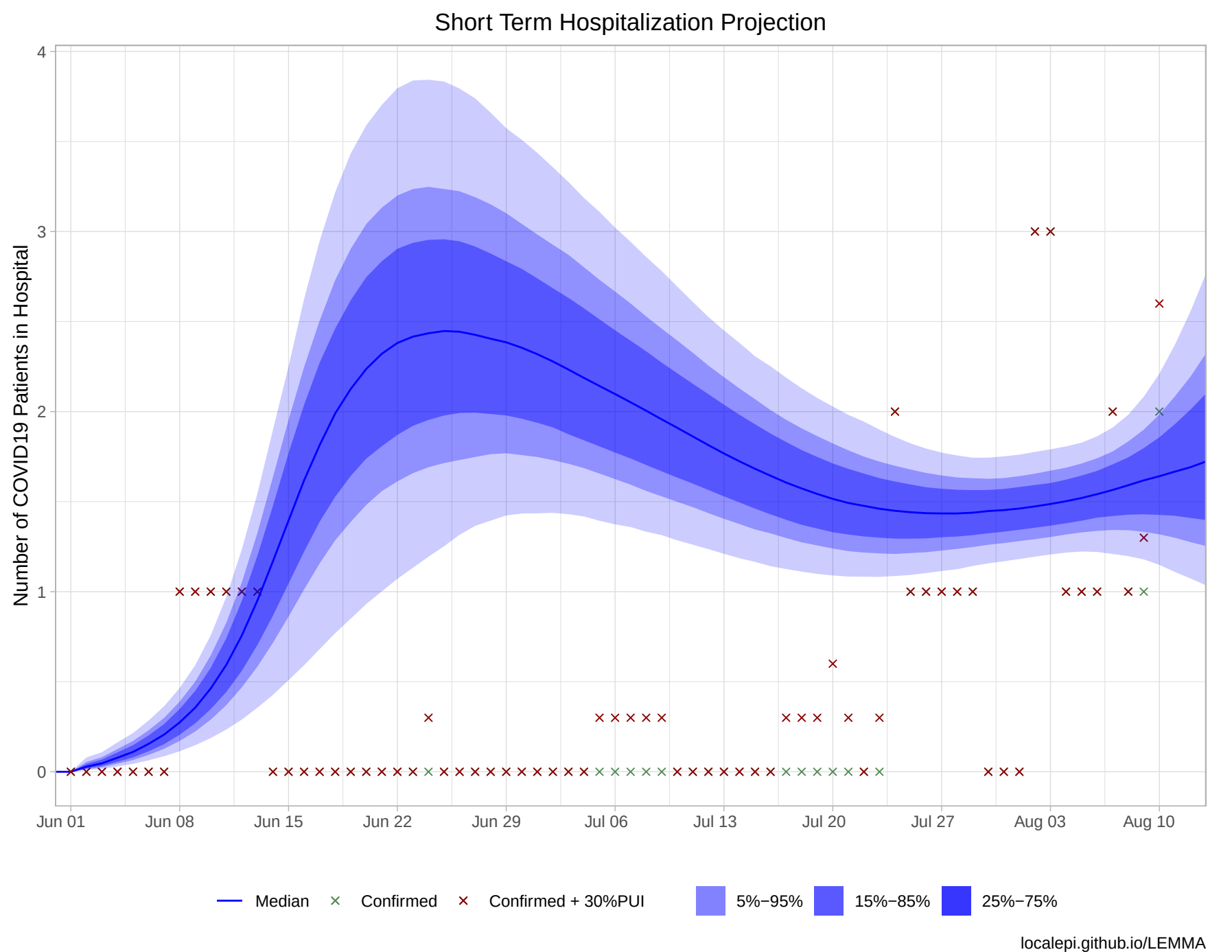
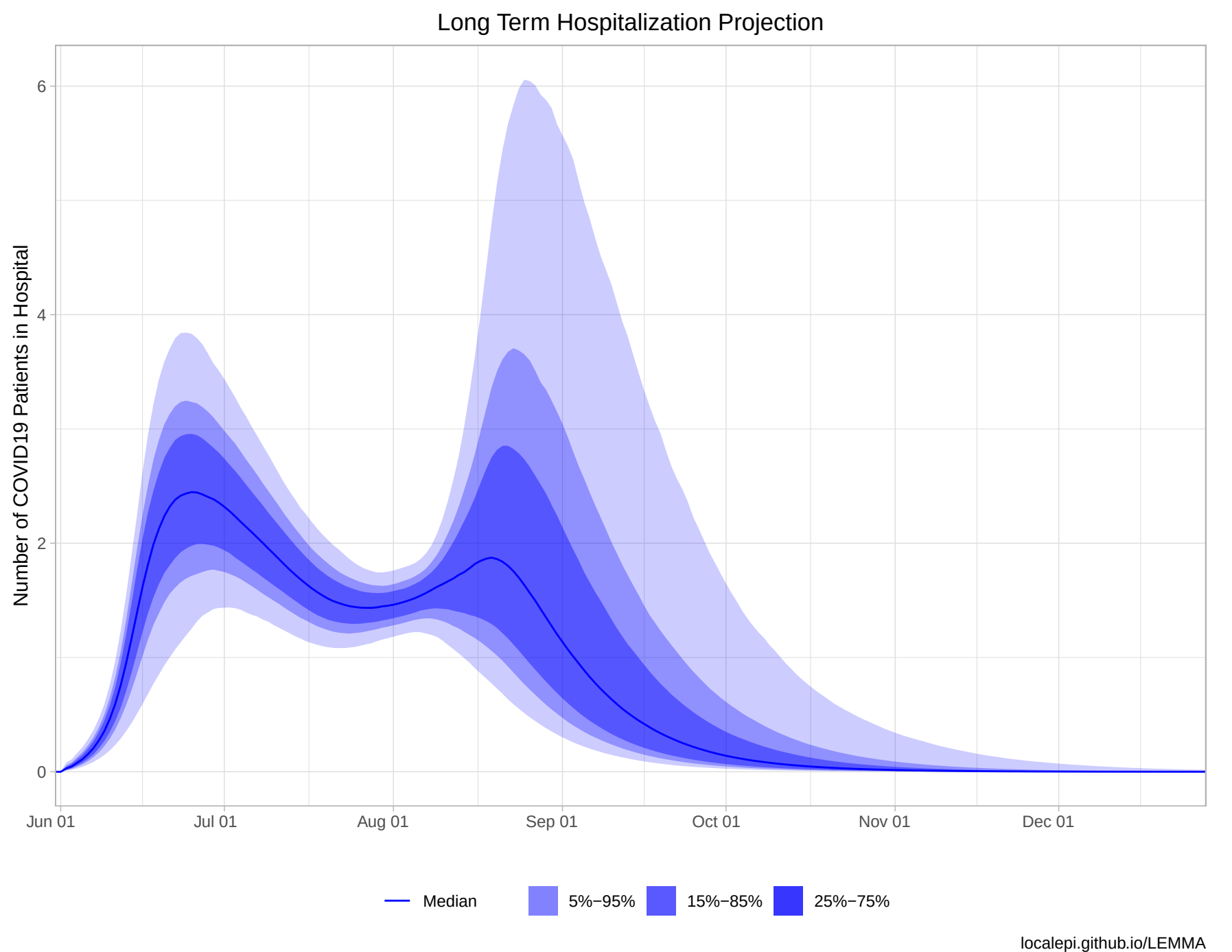
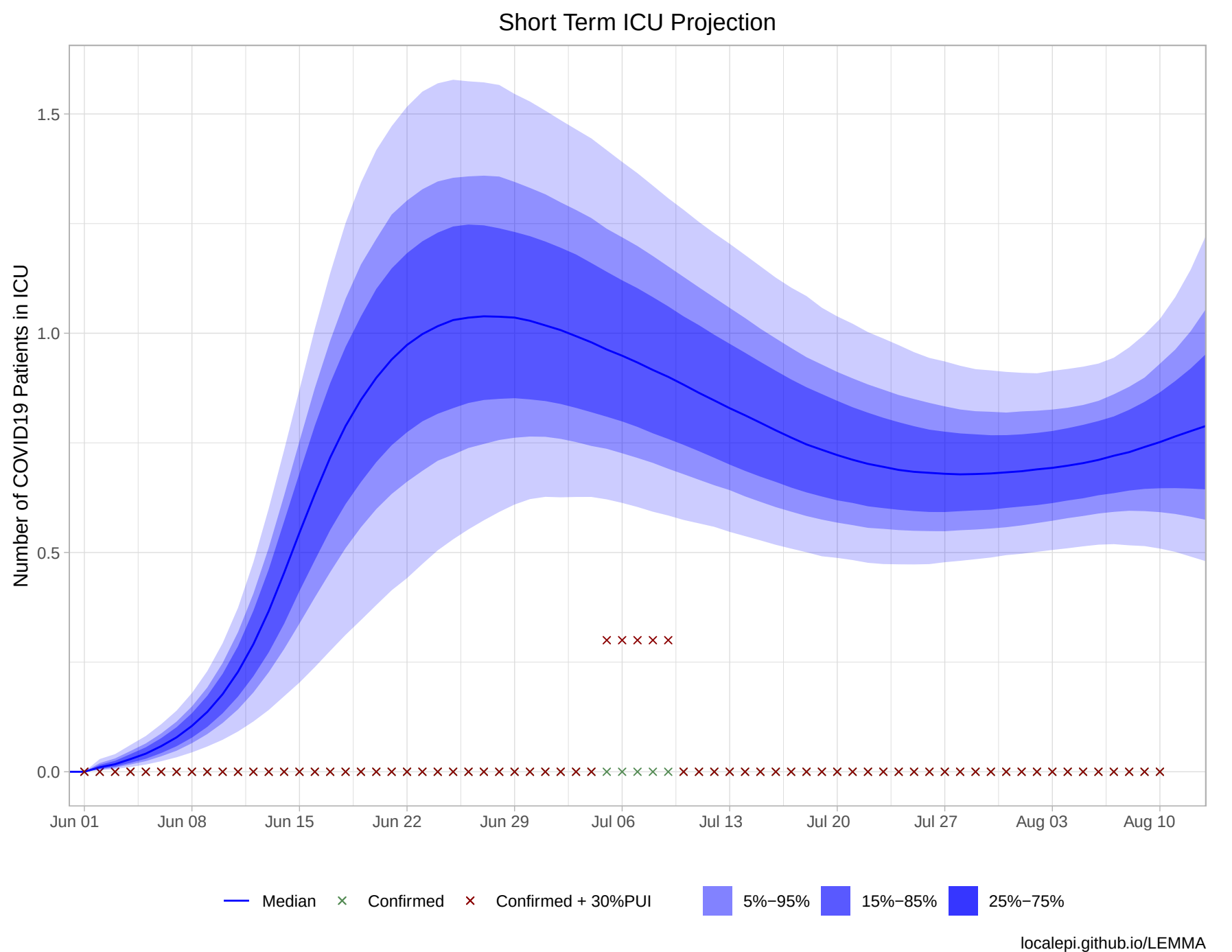
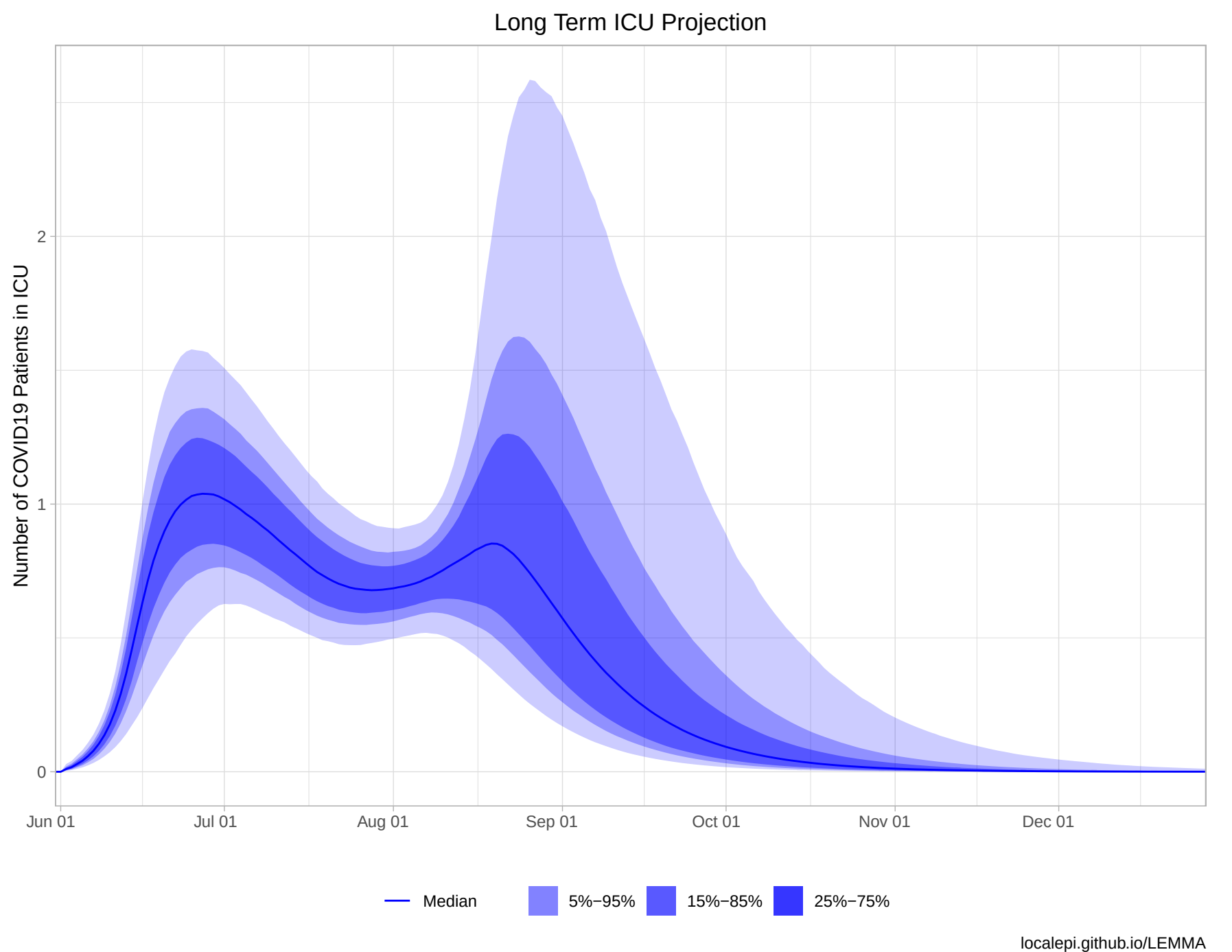
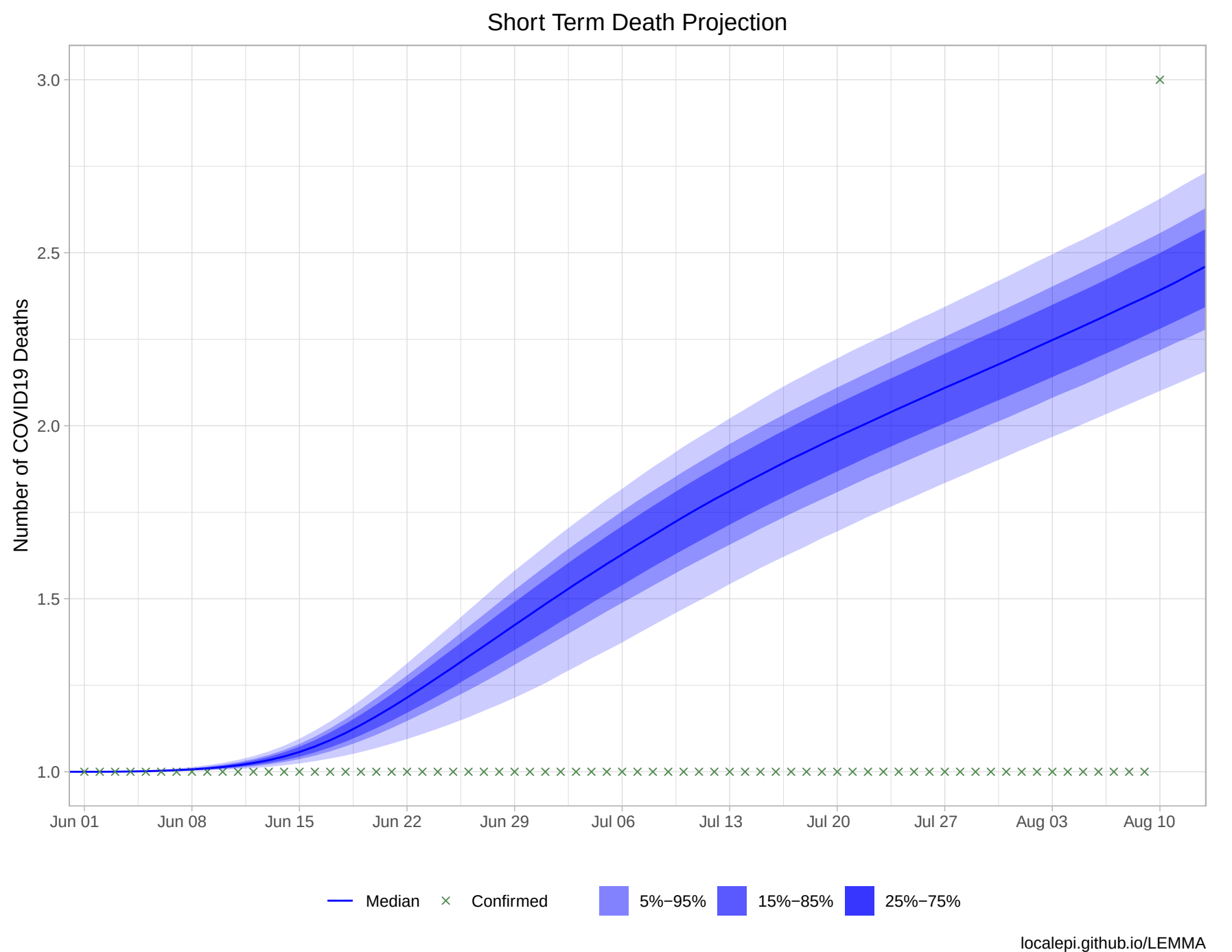
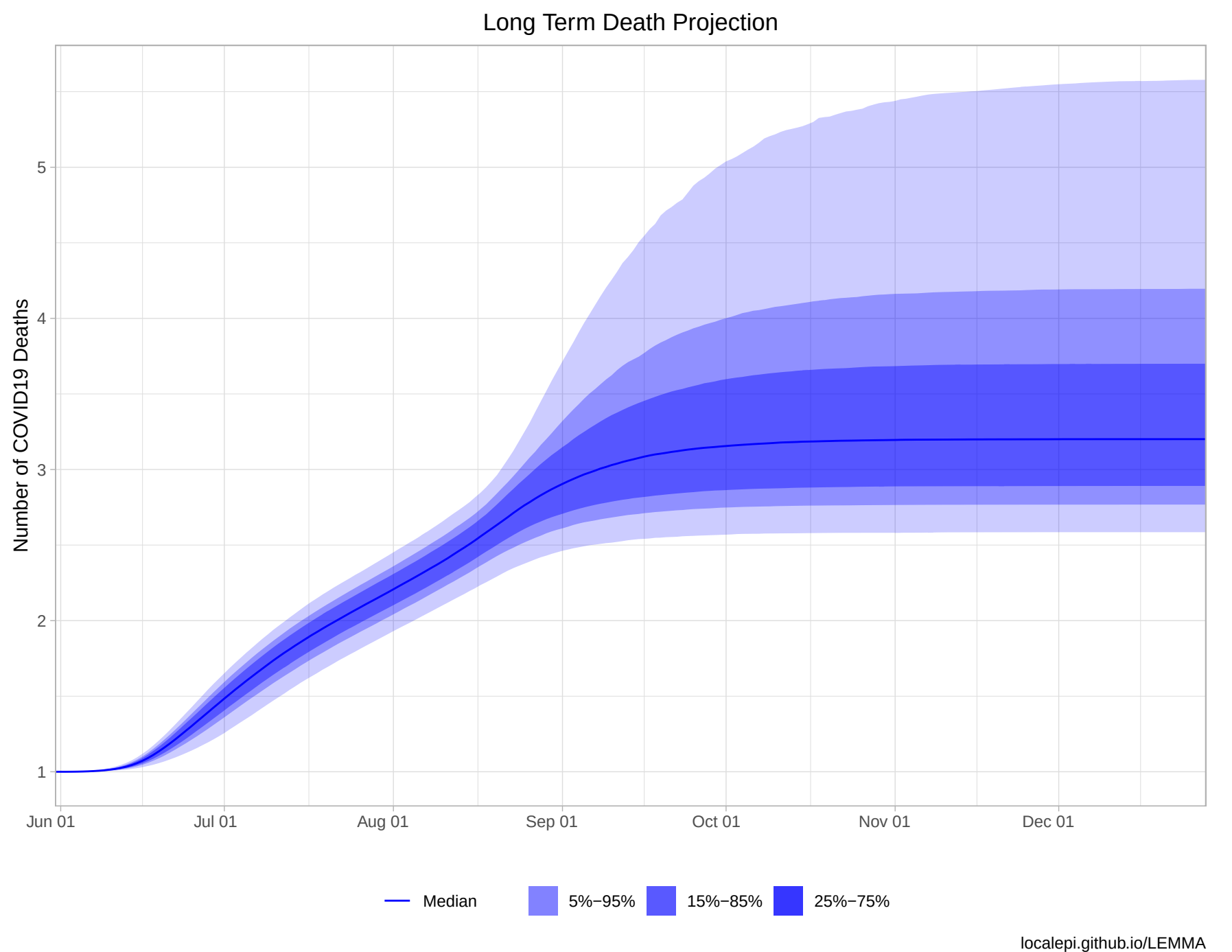

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
4
3
2
1
0
Jun 01
Jun 08
Jun 15
Jun 22
Jun 29
Jul 06
Jul 13
Jul 20
Jul 27
Aug 03
Aug 10
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

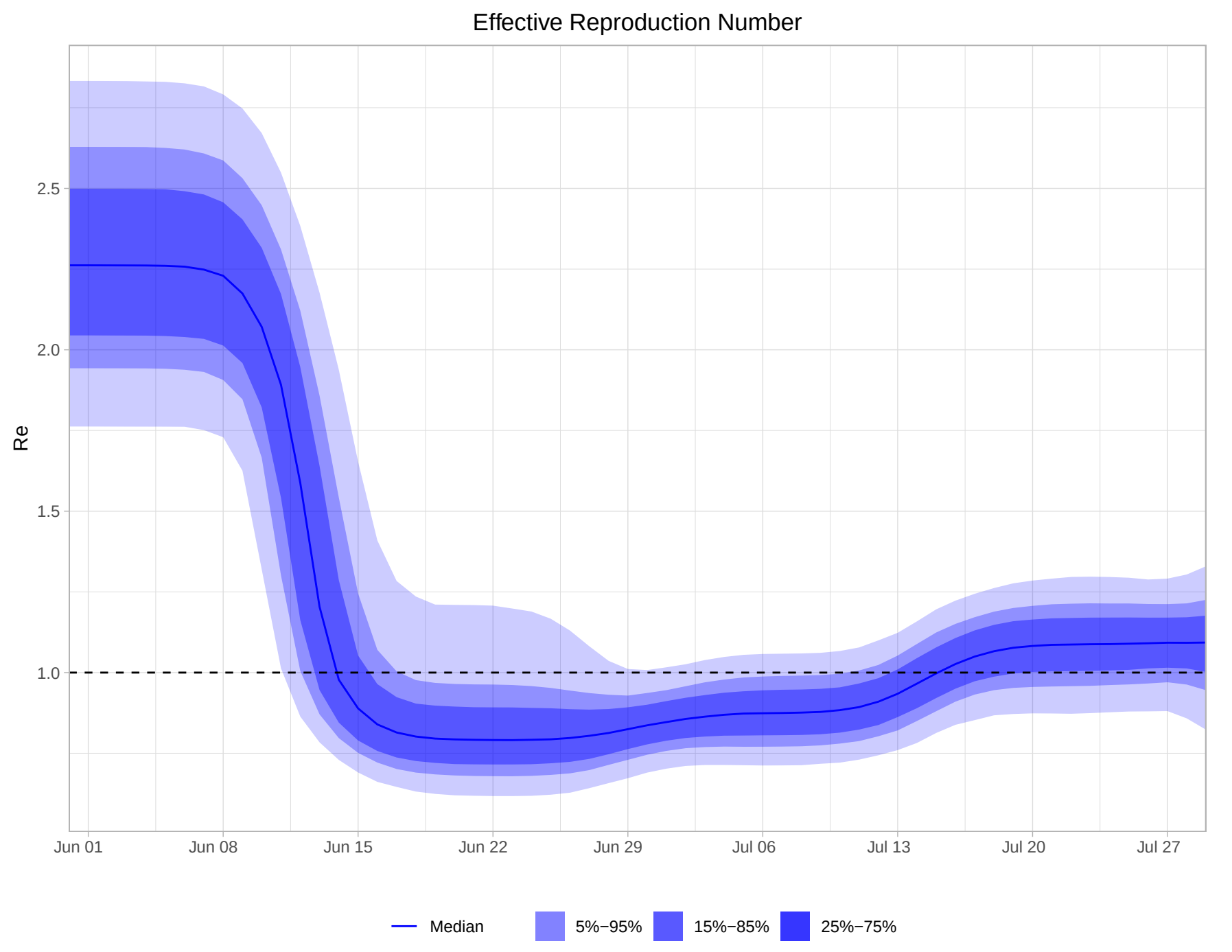

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
6
4
2
0
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


Short Term ICU Projection
Number of COVID19 Patients in ICU
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
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
1
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

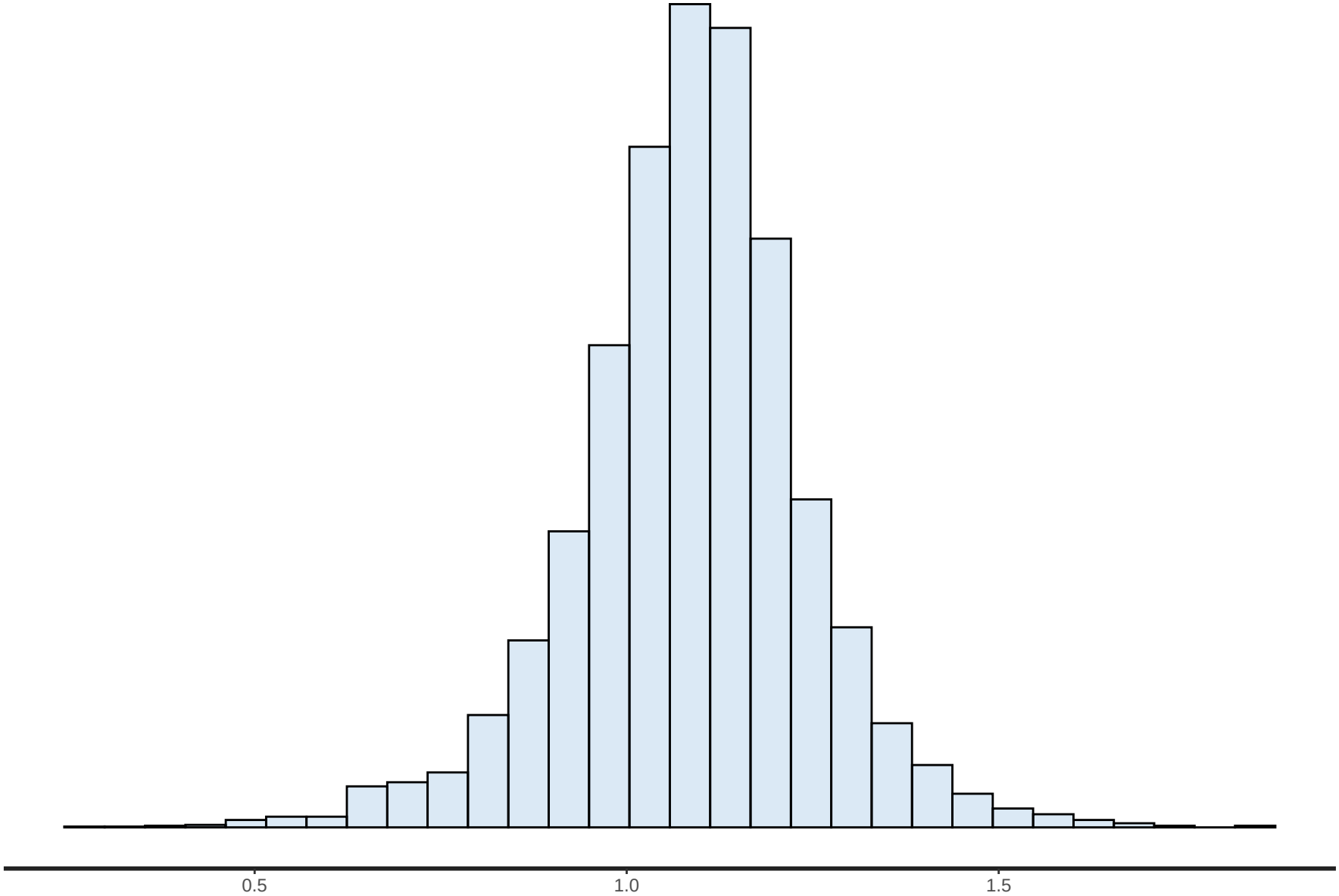

Short Term Death Projection
Number of COVID19 Deaths
3.0
2.5
2.0
1.5
1.0
Jun 01
Jun 08
Jun 15
Jun 22
Jun 29
Jul 06
Jul 13
Jul 20
Jul 27
Aug 03
Aug 10
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

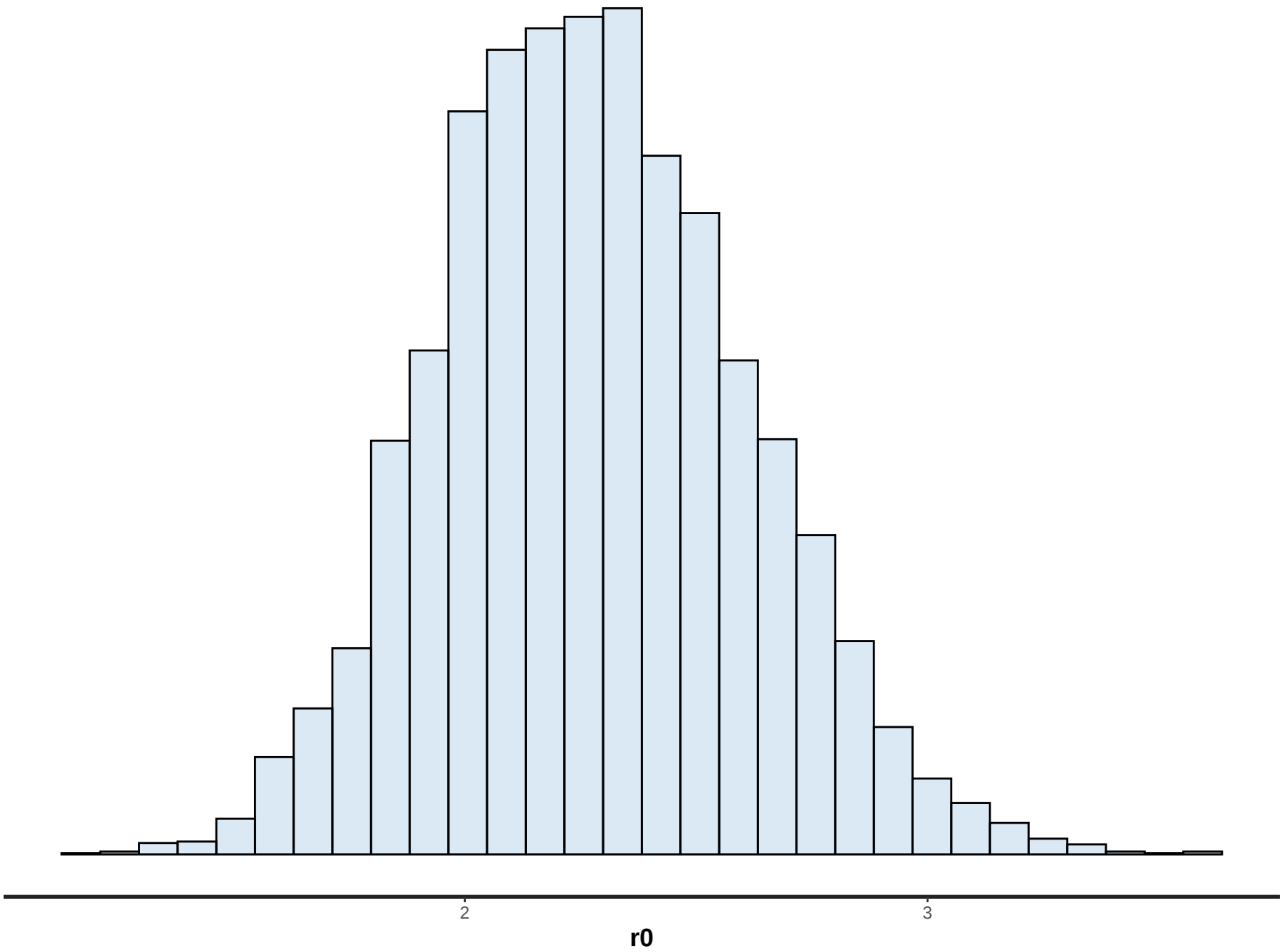

Long Term Death Projection
Number of COVID19 Deaths
5
4
3
2
1
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

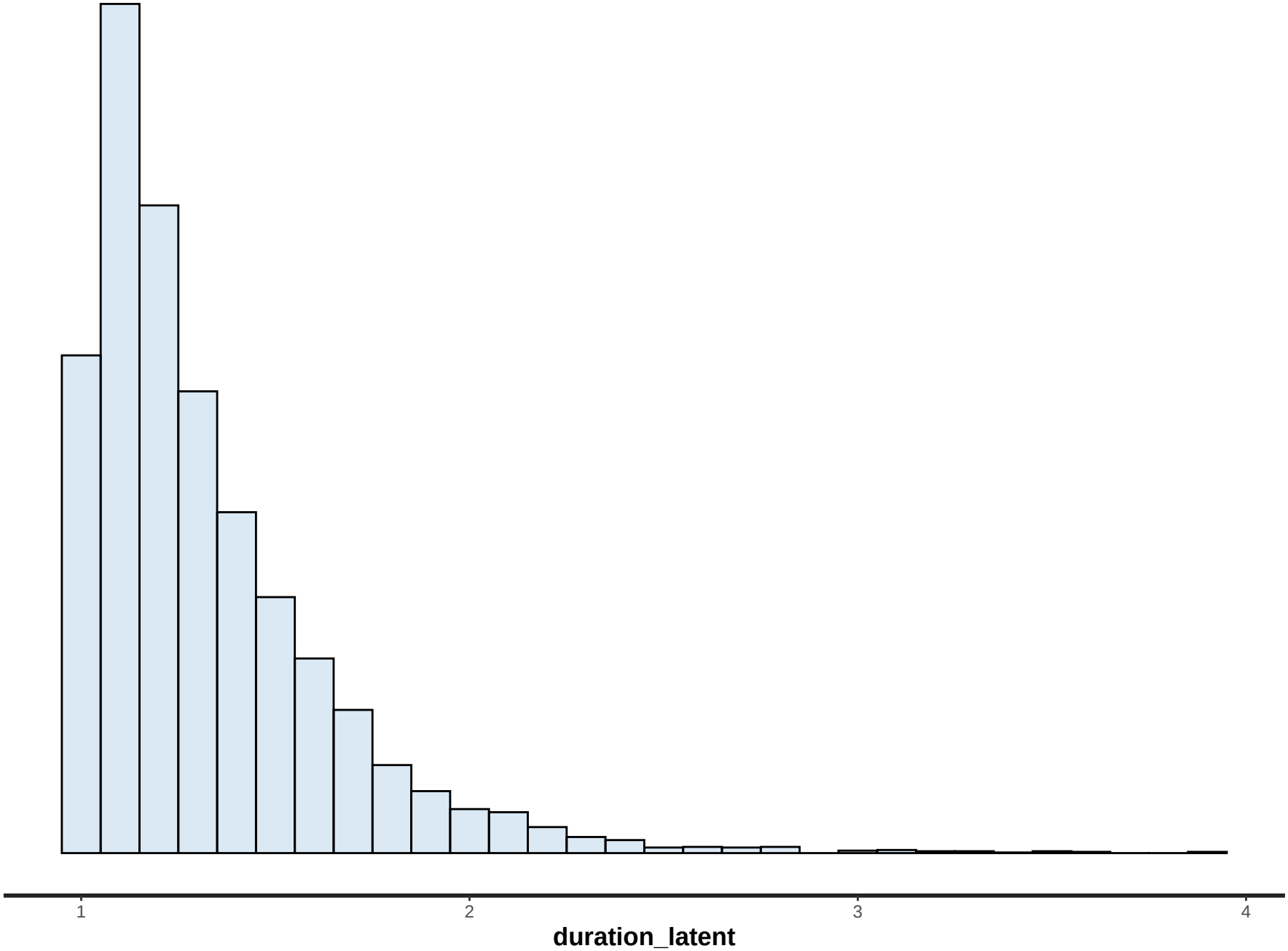

Effective Reproduction Number
Re
2.5
2.0
1.5
1.0
Jun 01
Jun 08
Jun 15
Jun 22
Jun 29
Jul 06
Jul 13
Jul 20
Jul 27
Median
5%−95%
15%−85%
25%−75%

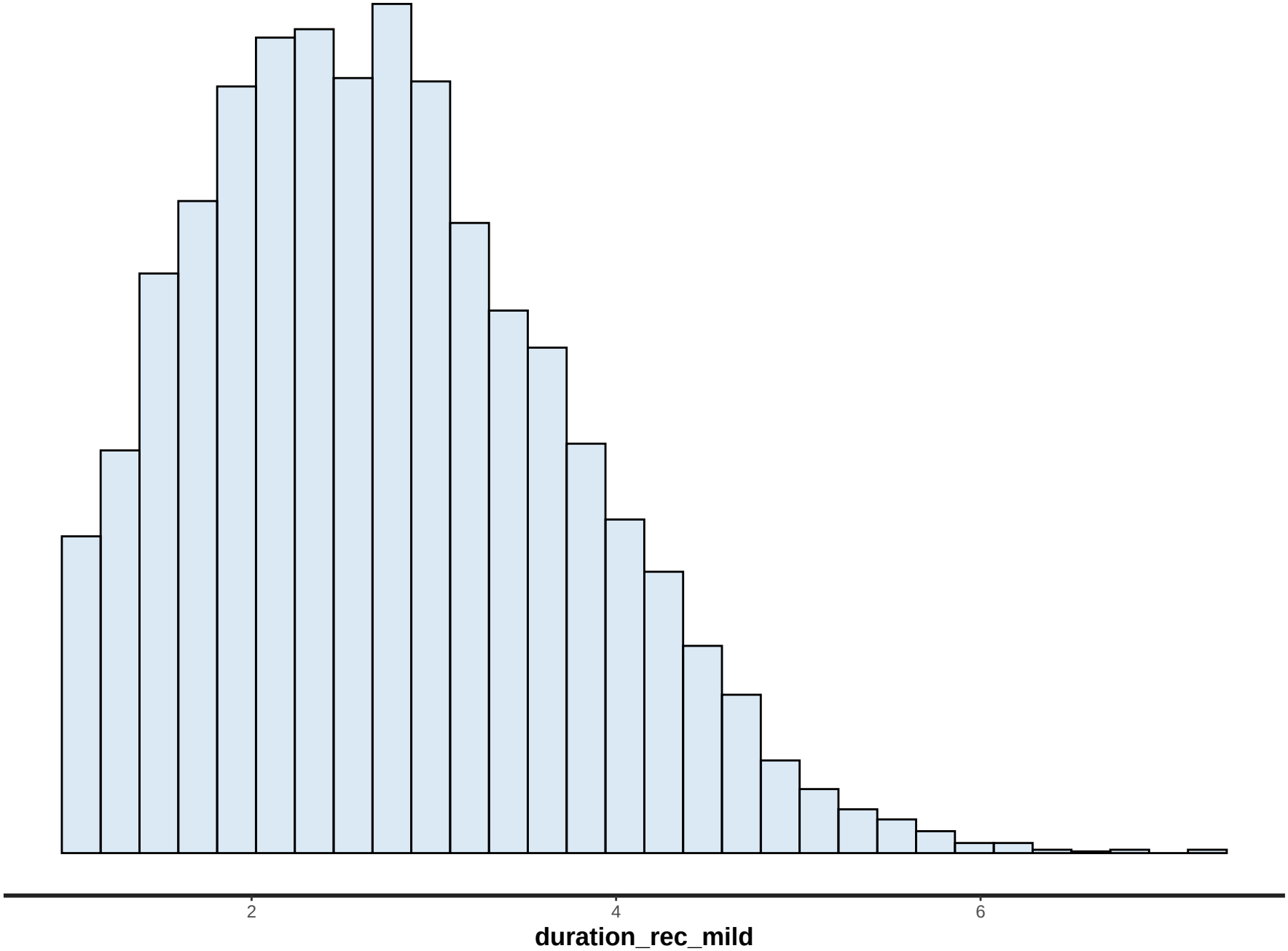
Rt as of 2020−07−29

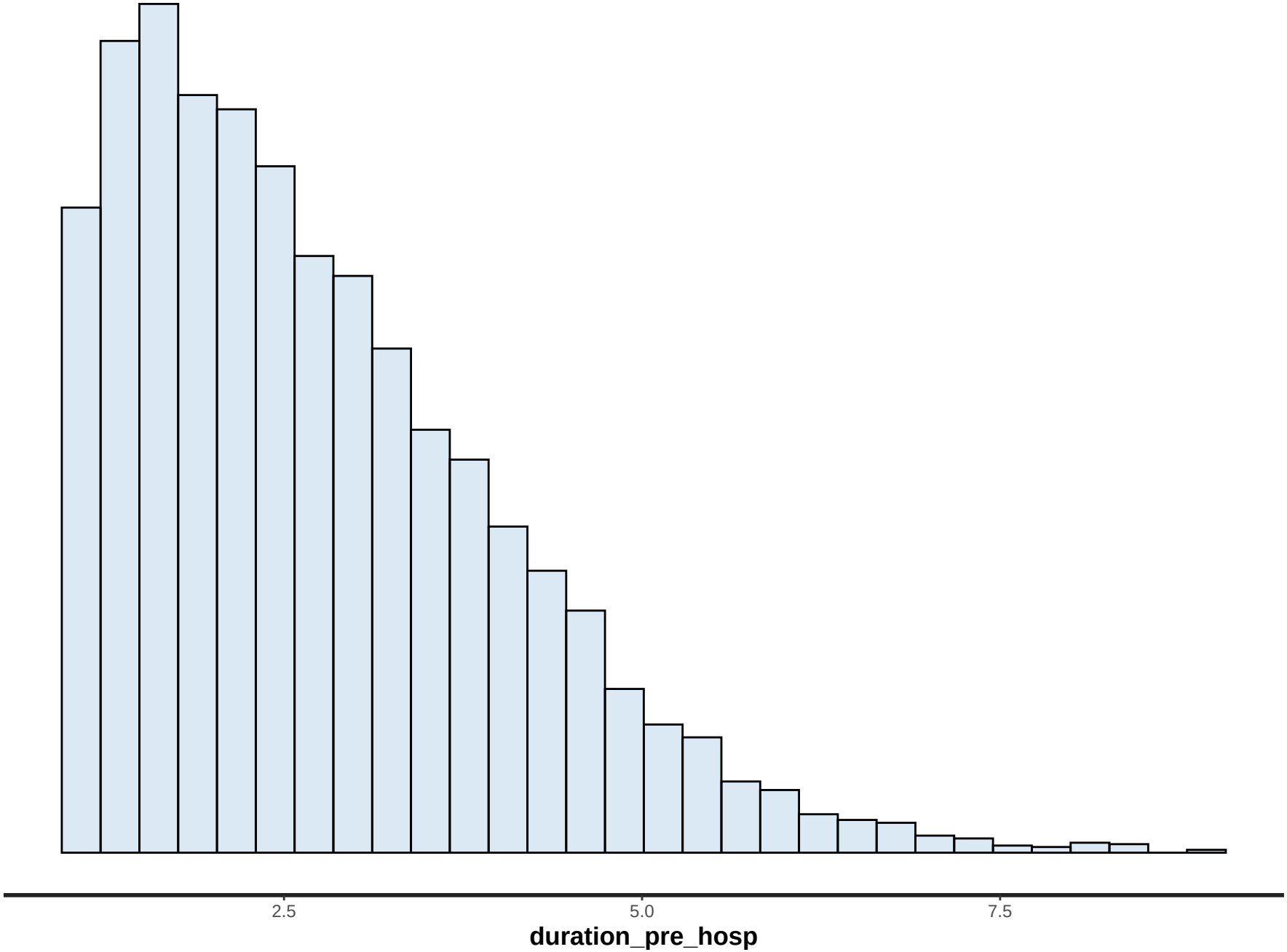
5%	10%	25%	50%	75%	90%	95%
0.82	0.90	1.00	1.09	1.18	1.26	1.33

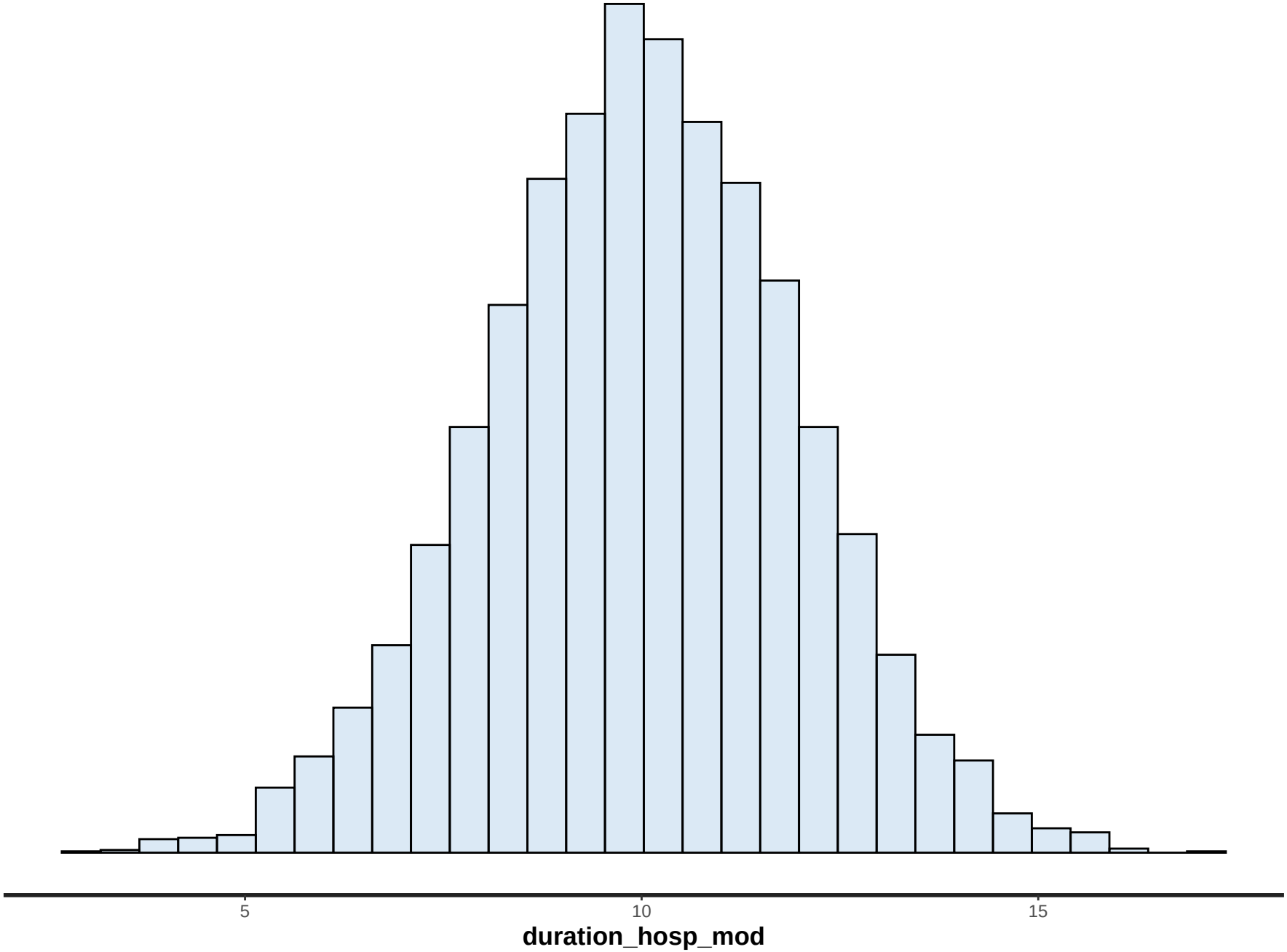


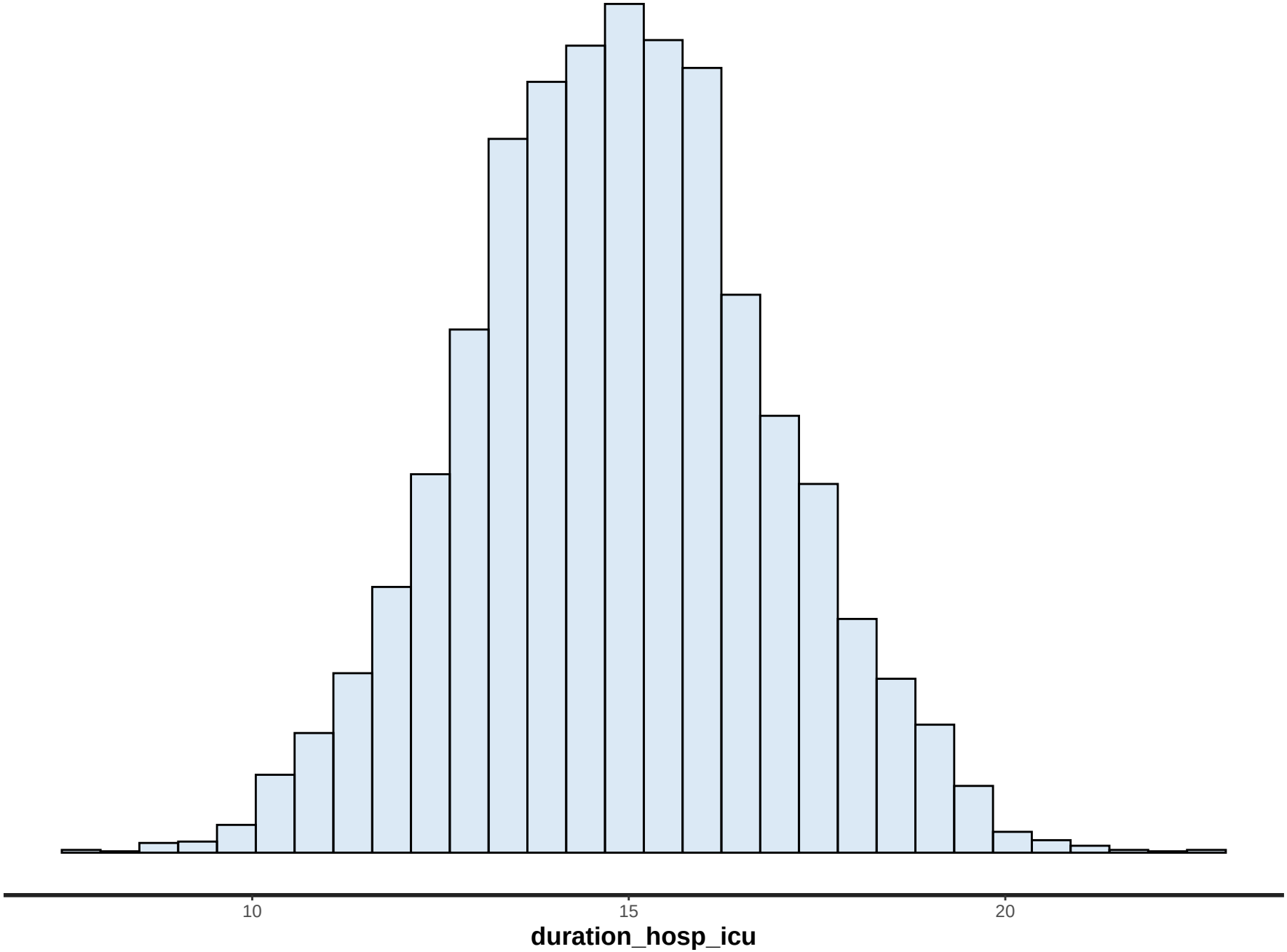

2
3
r0

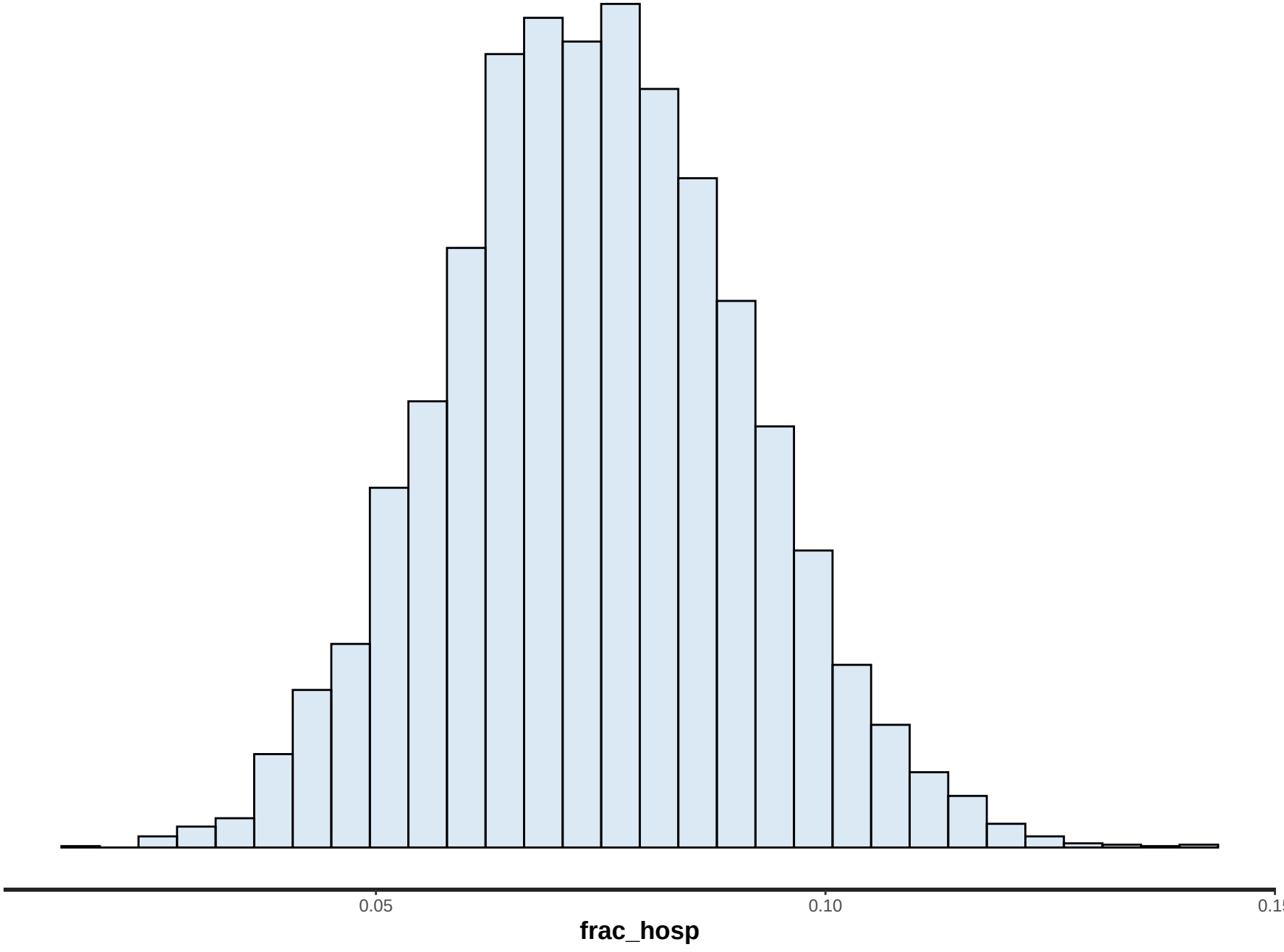

1
2
3
4
duration_latent

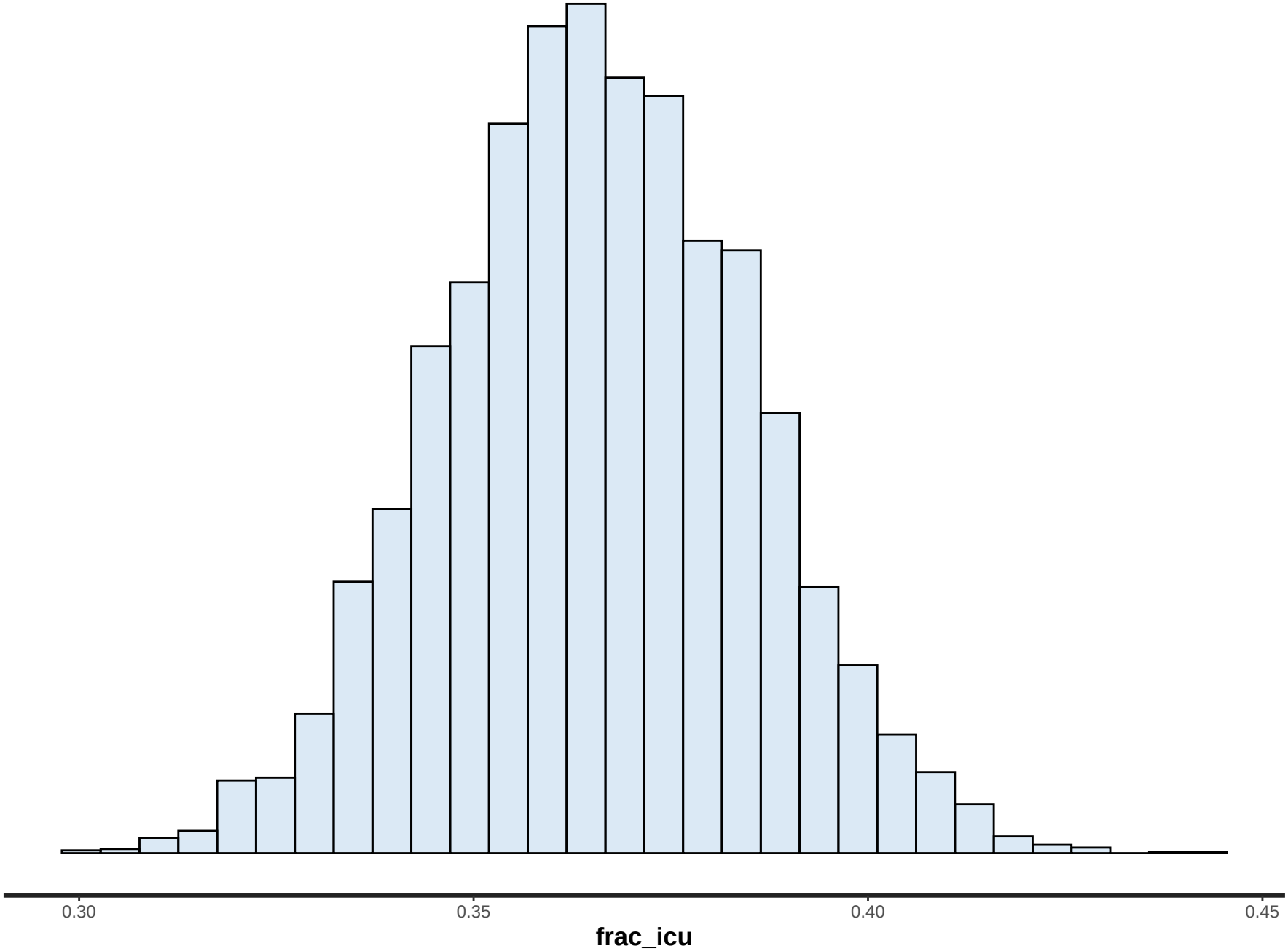

2
4
6
duration_rec_mild

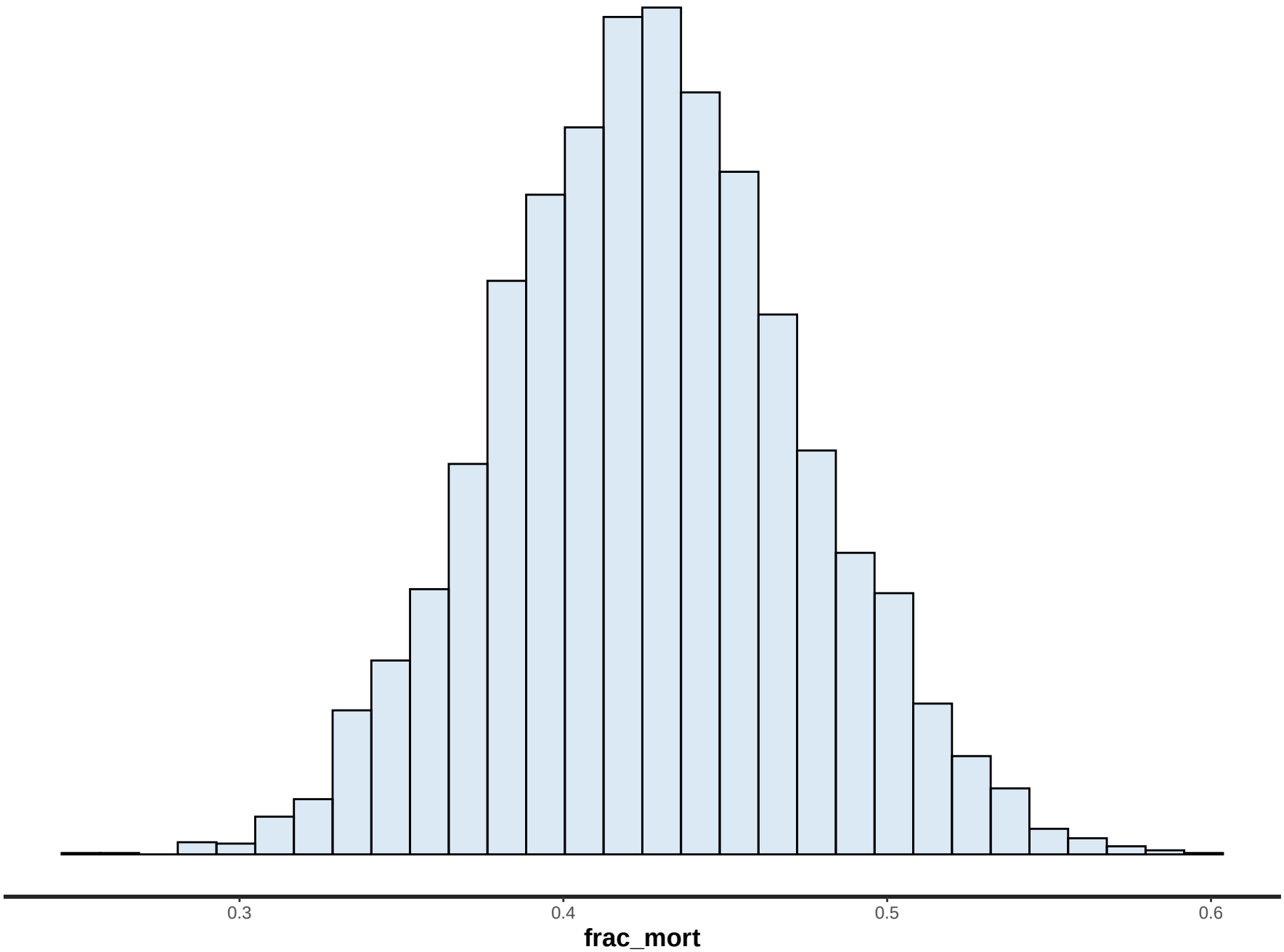

2.5
5.0
7.5
duration_pre_hosp

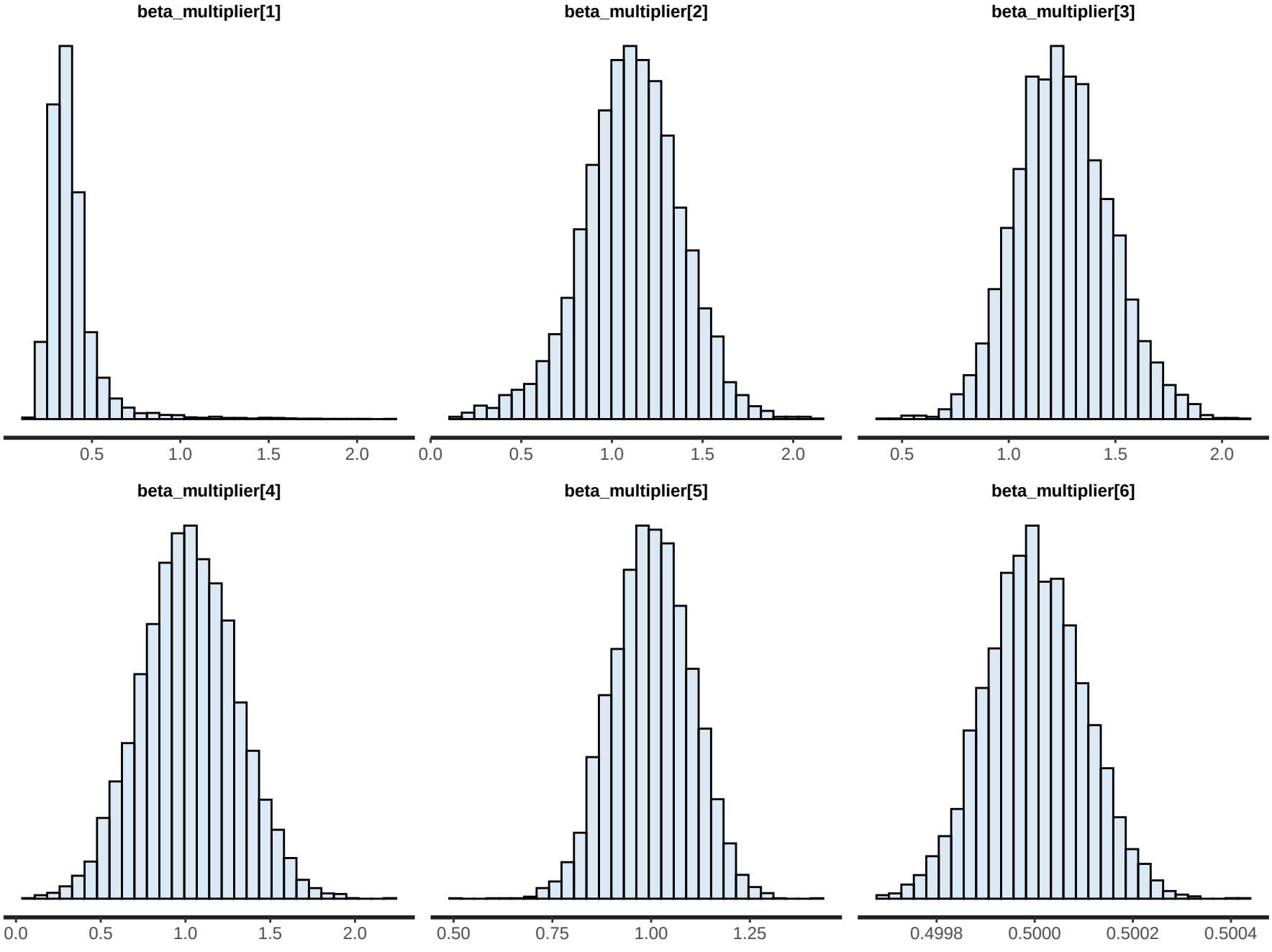

5
10
15
duration_hosp_mod

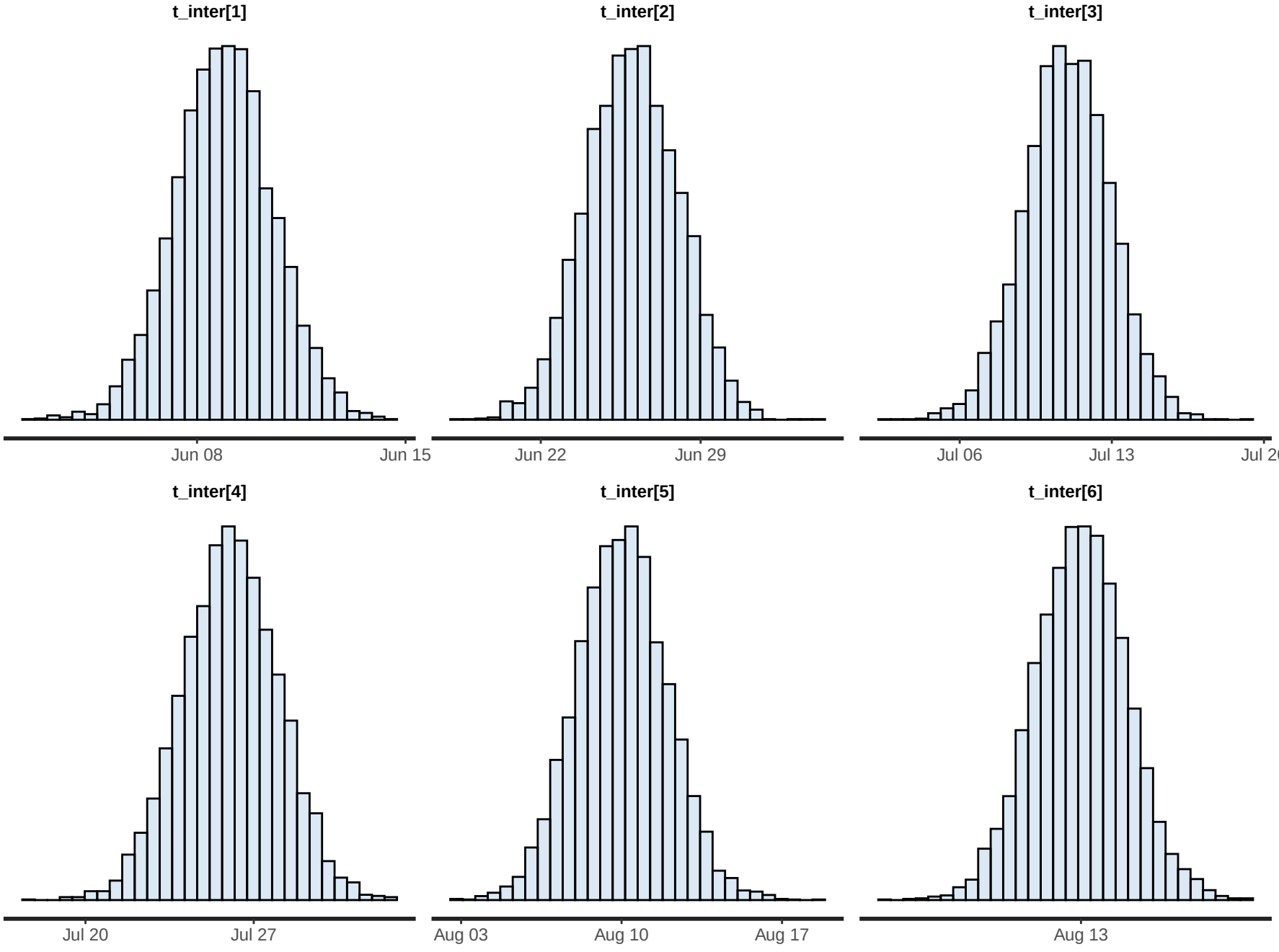

10
15
20
duration_hosp_icu

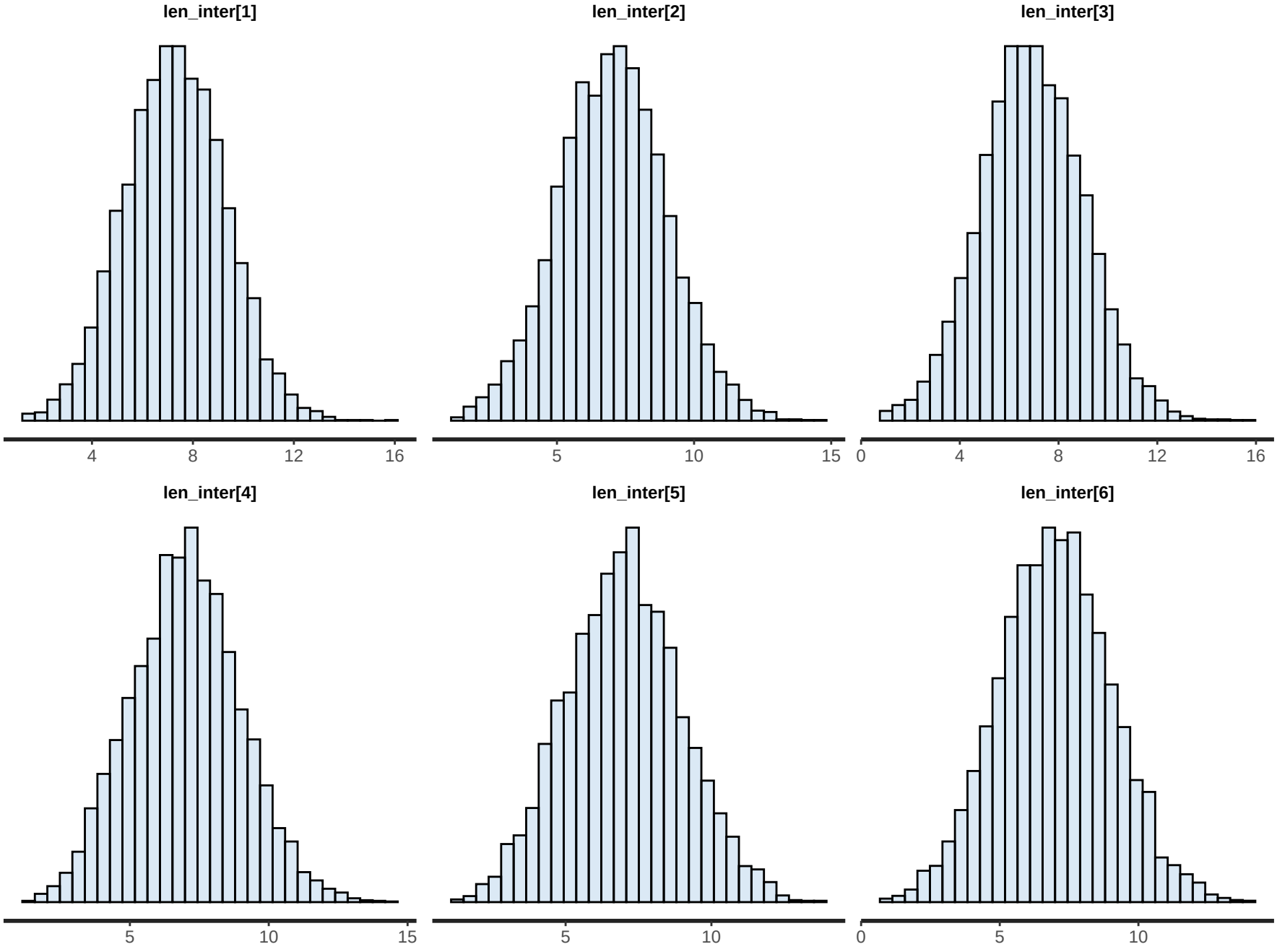

0.05
0.10
0.15
frac_hosp

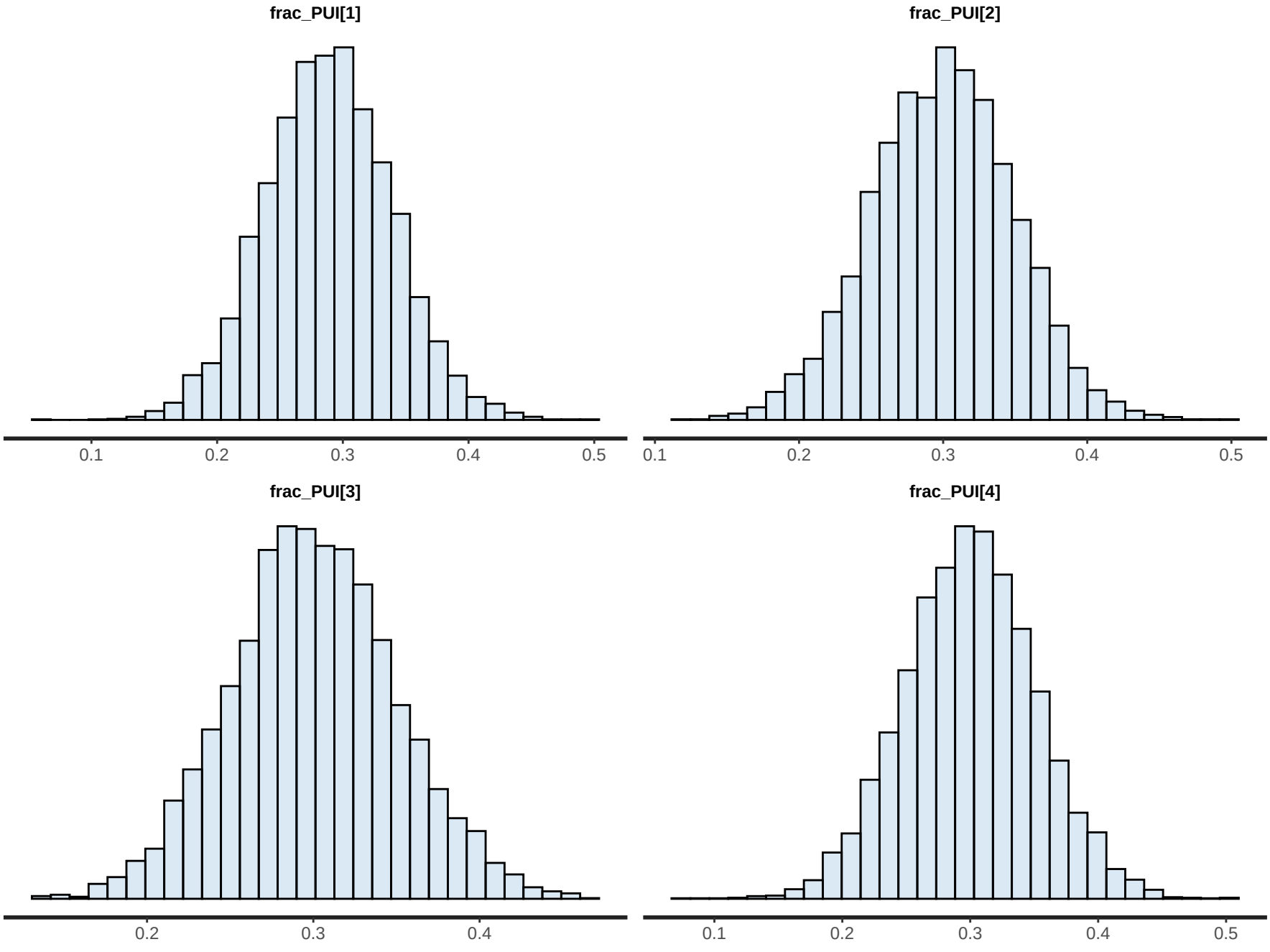

0.30
0.35
0.40
0.45
frac_icu

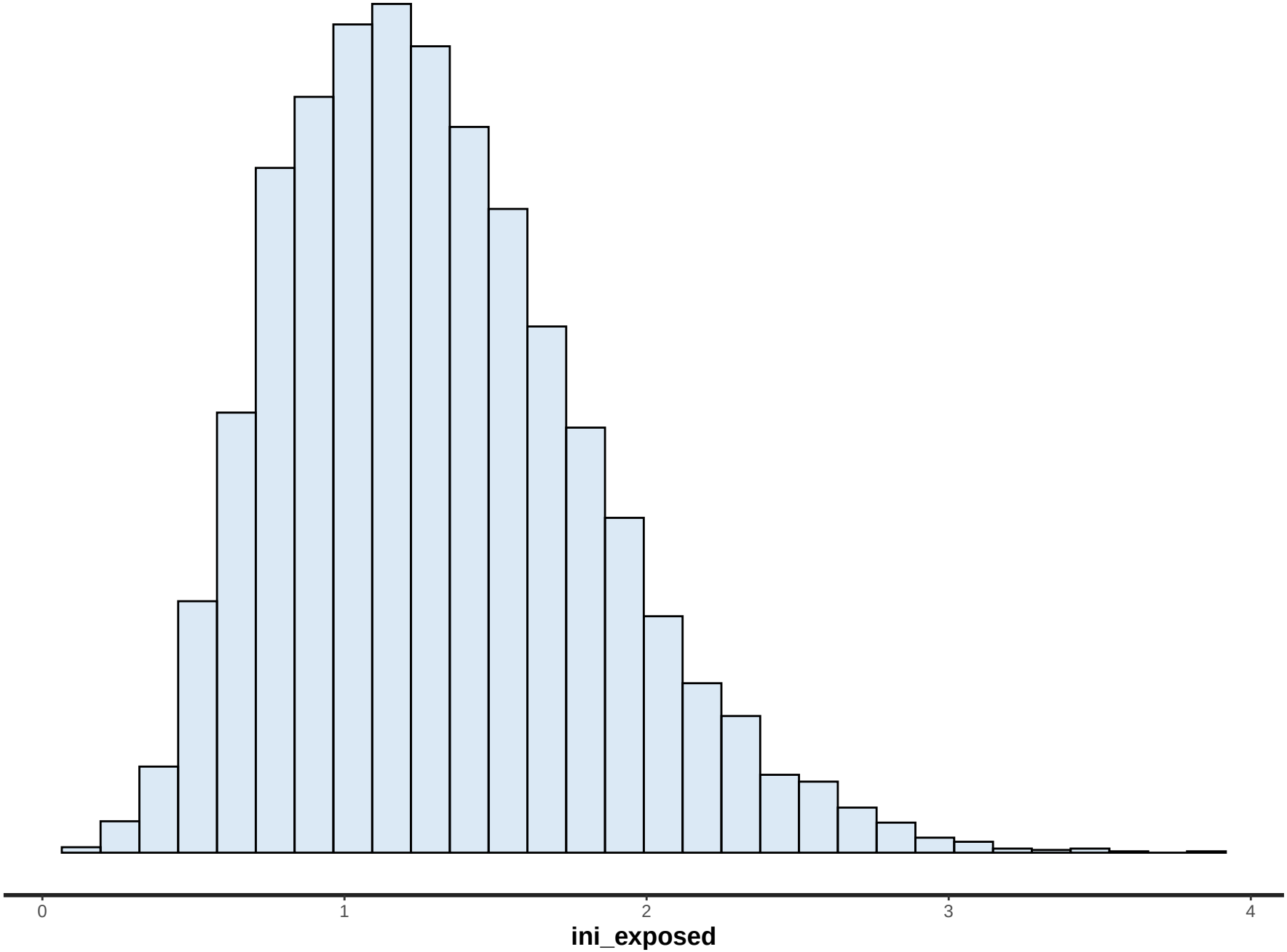

0.3
0.4
0.5
0.6
frac_mort

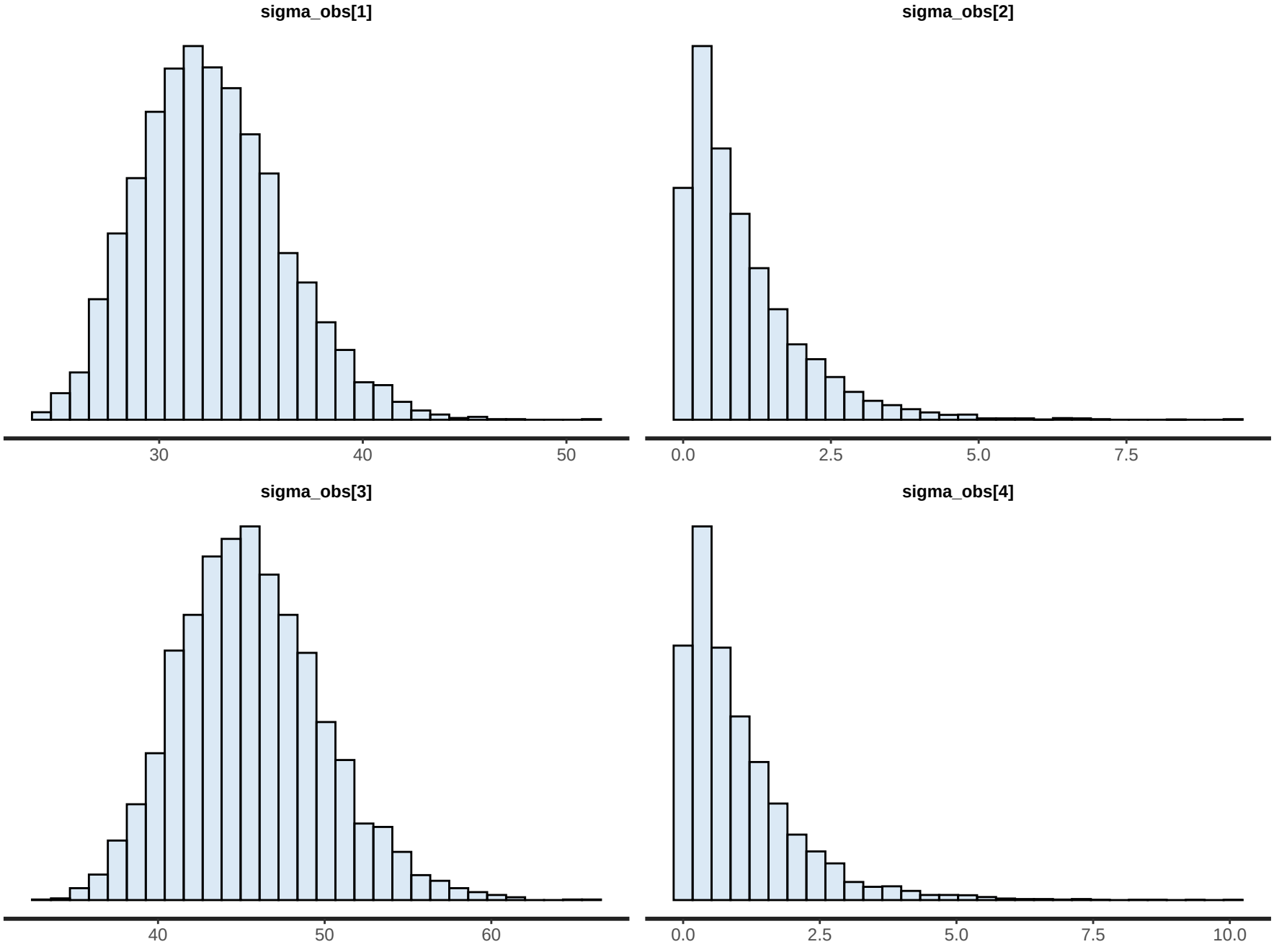

beta_multiplier[1]
0.5
1.0
1.5
2.0
beta_multiplier[2]
0.0
0.5
1.0
1.5
2.0
beta_multiplier[3]
0.5
1.0
1.5
2.0
beta_multiplier[4]
0.0
0.5
1.0
1.5
2.0
beta_multiplier[5]
0.50
0.75
1.00
1.25
beta_multiplier[6]
0.4998
0.5000
0.5002
0.5004


t_inter[1]
Jun 08
Jun 15
t_inter[2]
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
Aug 17
t_inter[6]
Aug 13


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


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


sigma_obs[1]
30
40
50
sigma_obs[2]
0.0
2.5
5.0
7.5
sigma_obs[3]
40
50
60
sigma_obs[4]
0.0
2.5
5.0
7.5
10.0