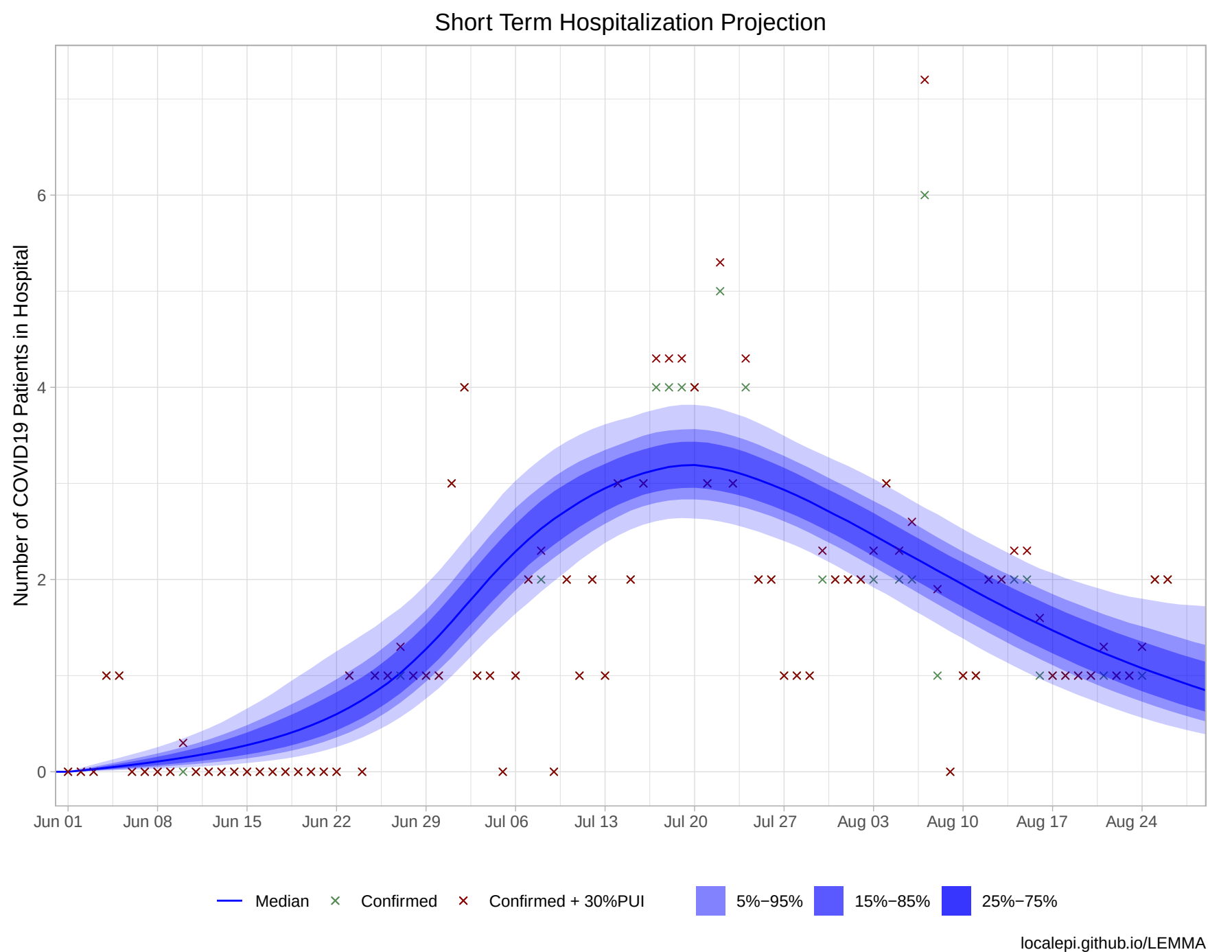
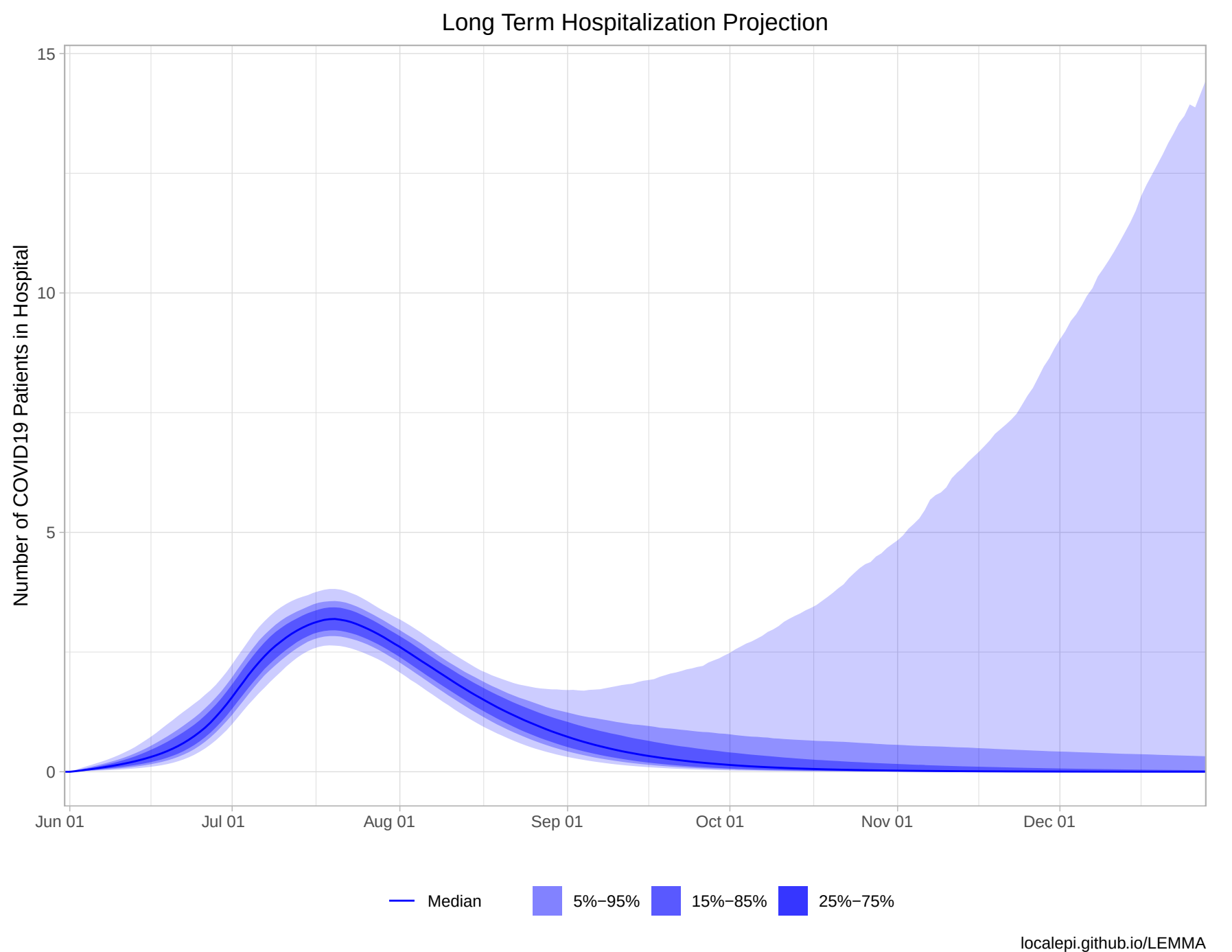
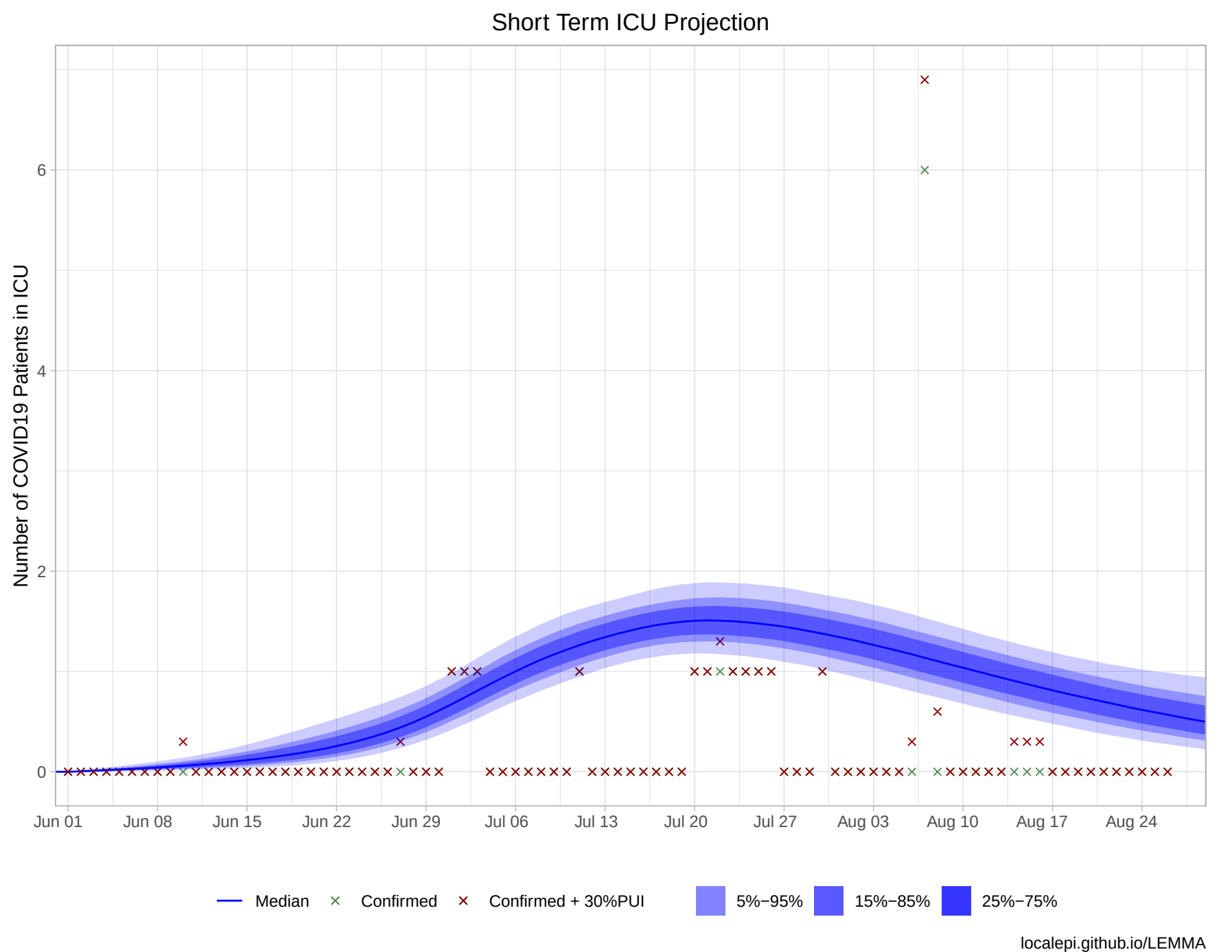
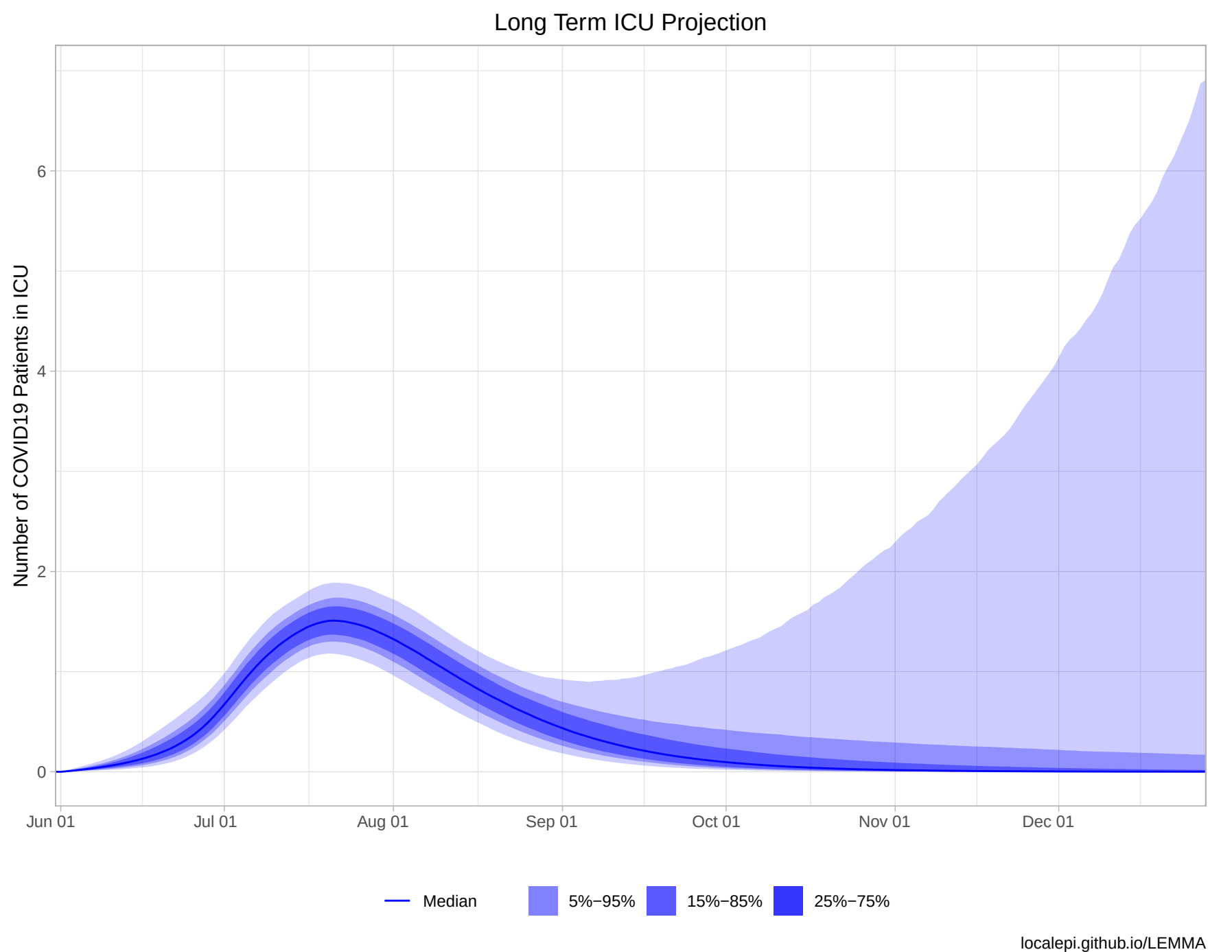
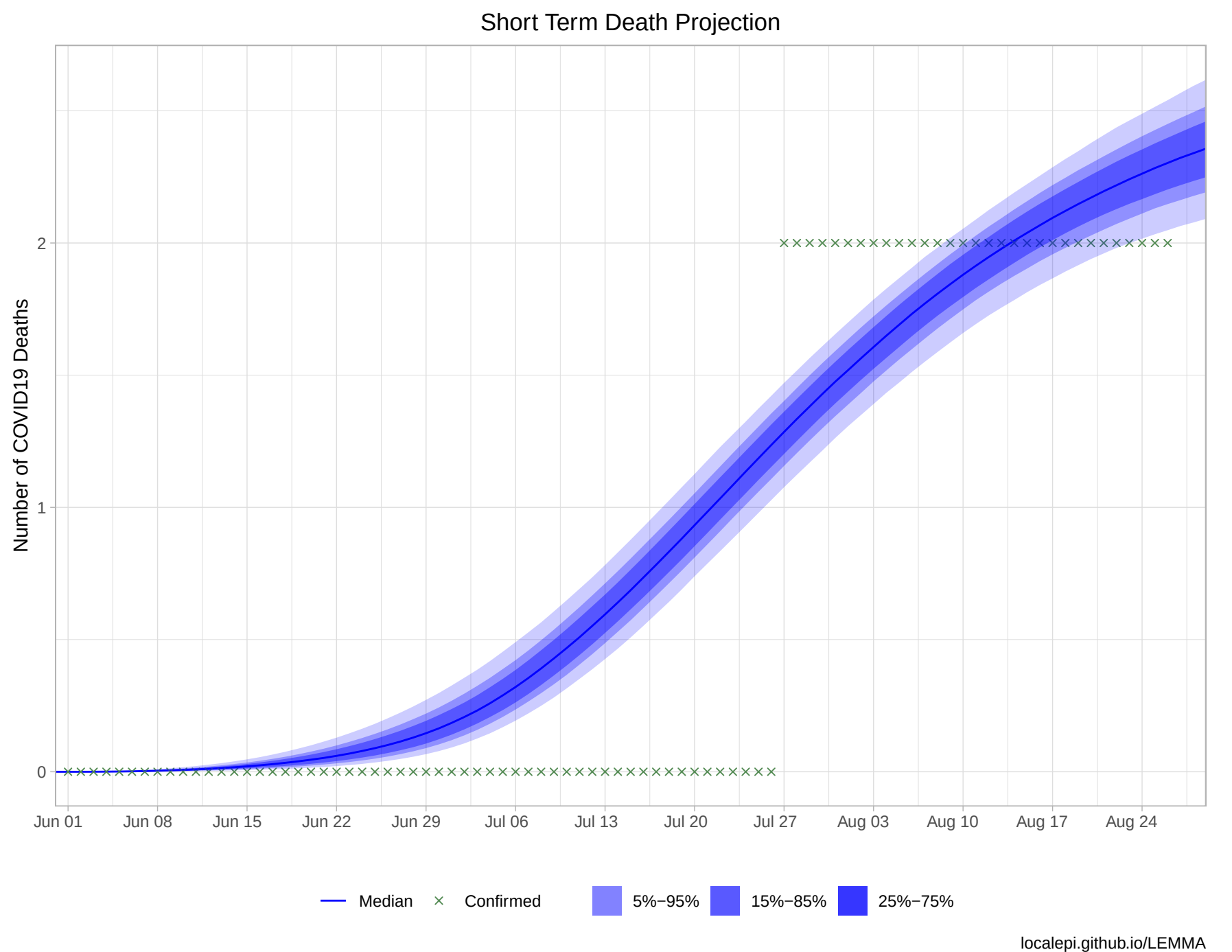
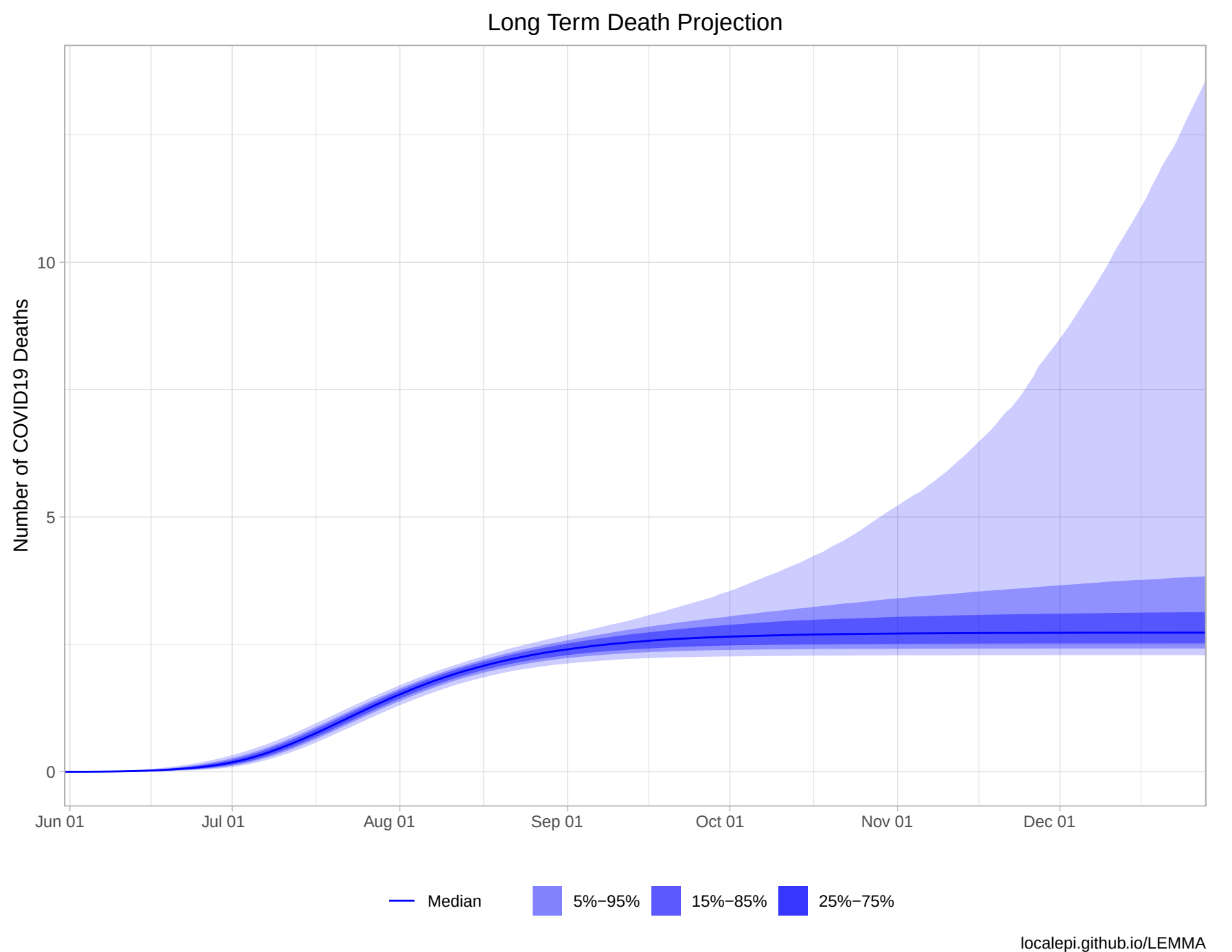

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
2
4
6
Jun 01
Jun 08
Jun 15
Jun 22
Jun 29
Jul 06
Jul 13
Jul 20
Jul 27
Aug 03
Aug 10
Aug 17
Aug 24
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

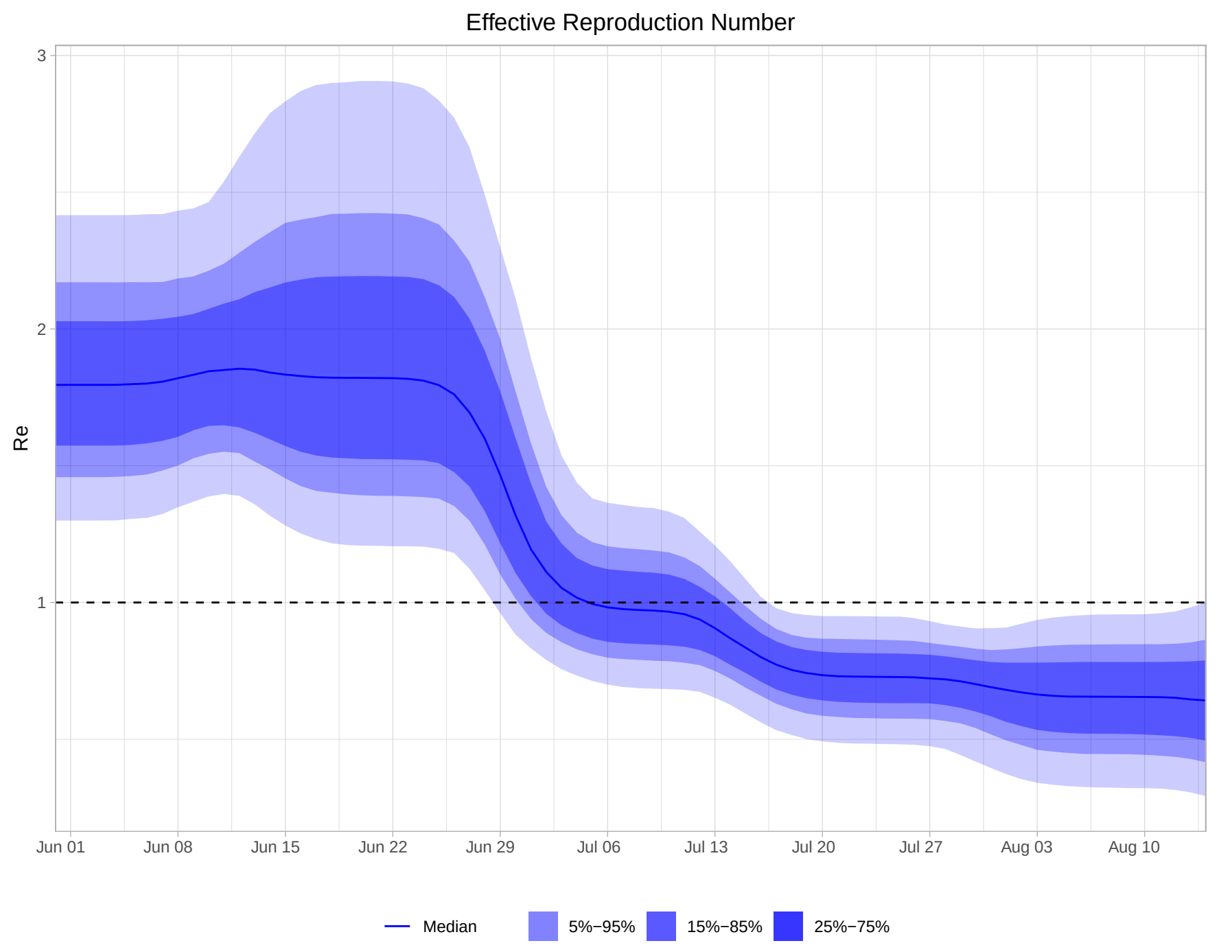

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
15
10
5
0
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


Short Term ICU Projection
Number of COVID19 Patients in ICU
0
2
4
6
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
0
2
4
6
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

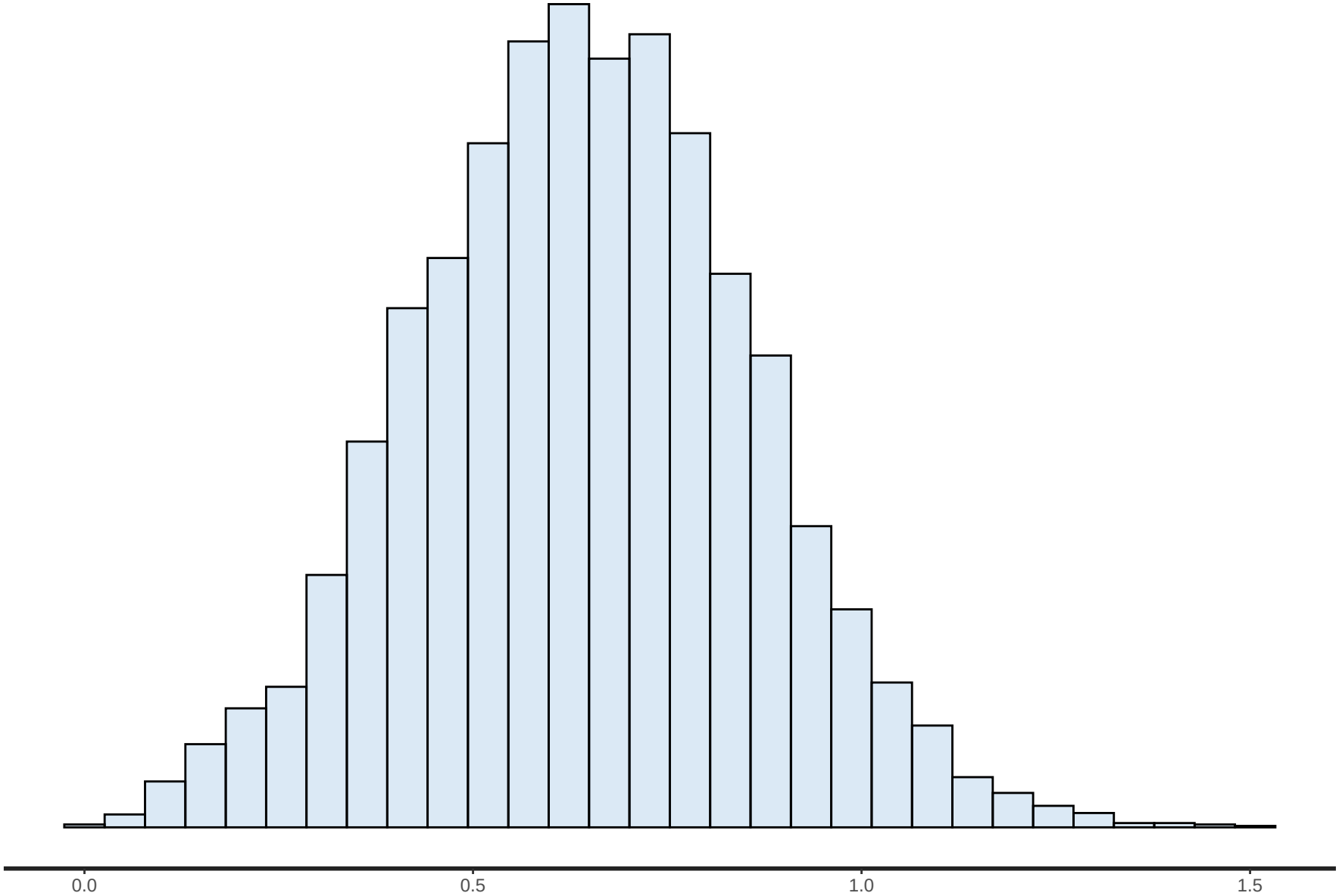

Short Term Death Projection
Number of COVID19 Deaths
0
1
2
Jun 01
Jun 08
Jun 15
Jun 22
Jun 29
Jul 06
Jul 13
Jul 20
Jul 27
Aug 03
Aug 10
Aug 17
Aug 24
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

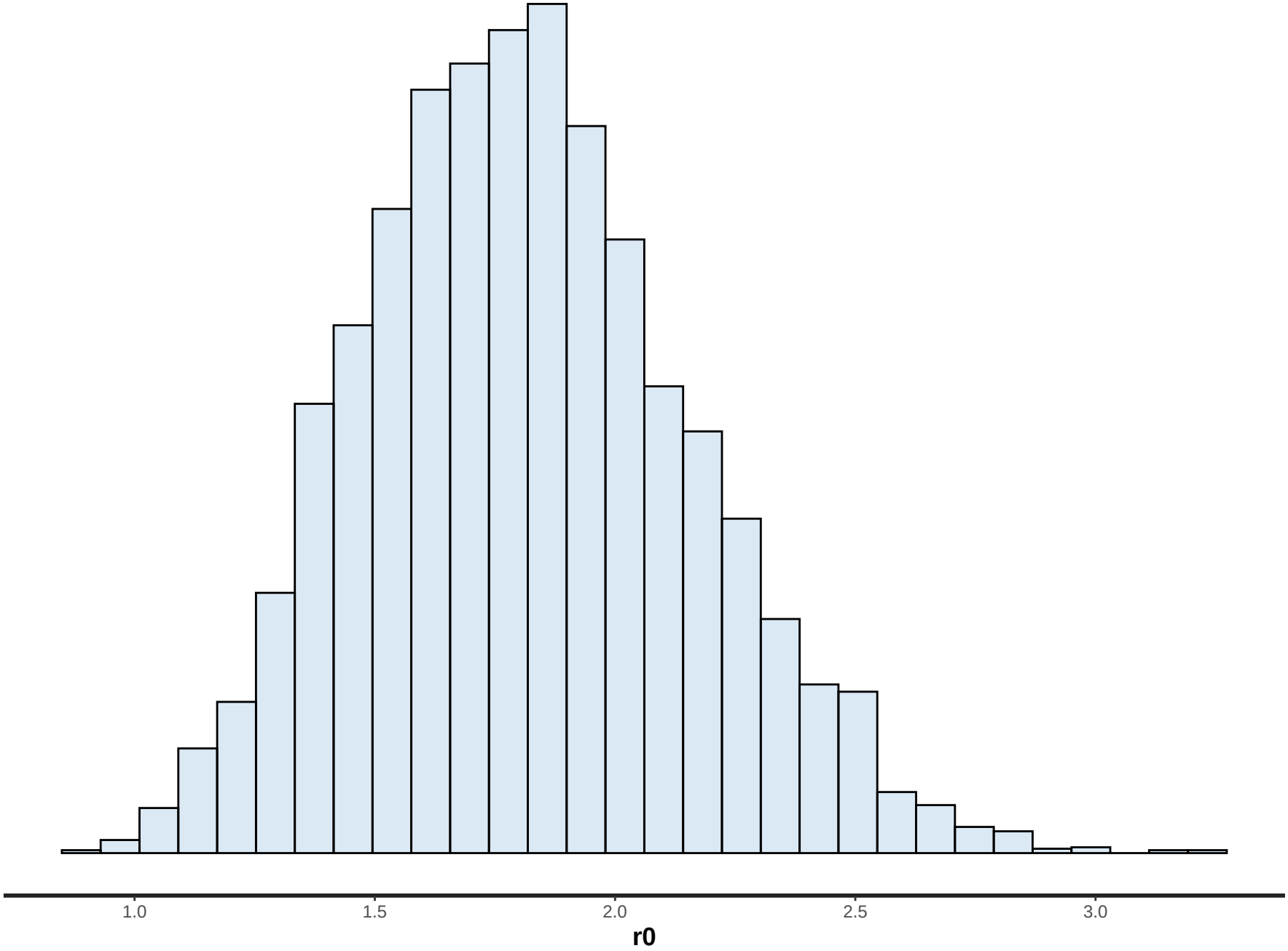

Long Term Death Projection
Number of COVID19 Deaths
10
5
0
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

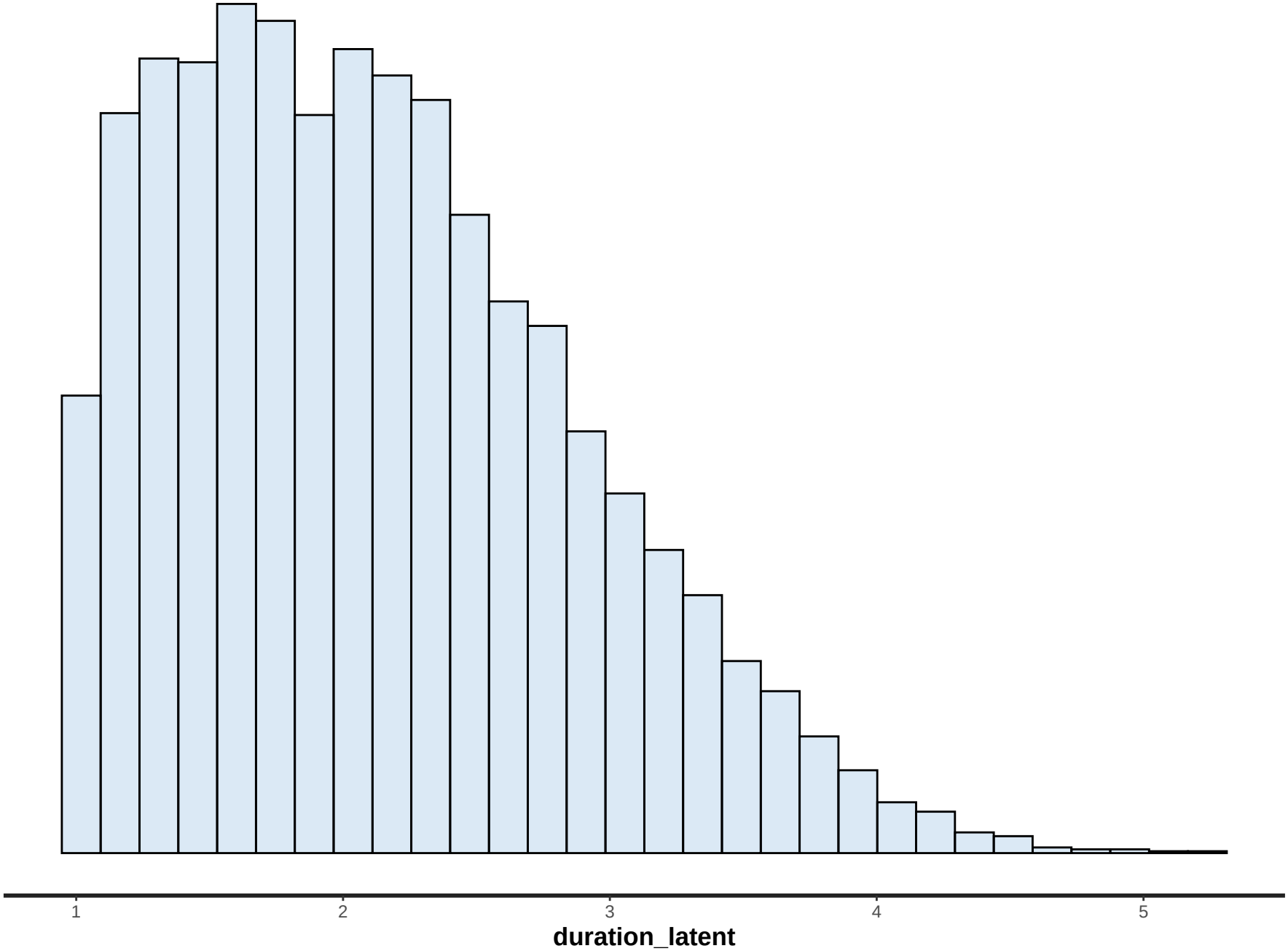

Effective Reproduction Number
Re
3
2
1
Jun 01
Jun 08
Jun 15
Jun 22
Jun 29
Jul 06
Jul 13
Jul 20
Jul 27
Aug 03
Aug 10
Median
5%−95%
15%−85%
25%−75%

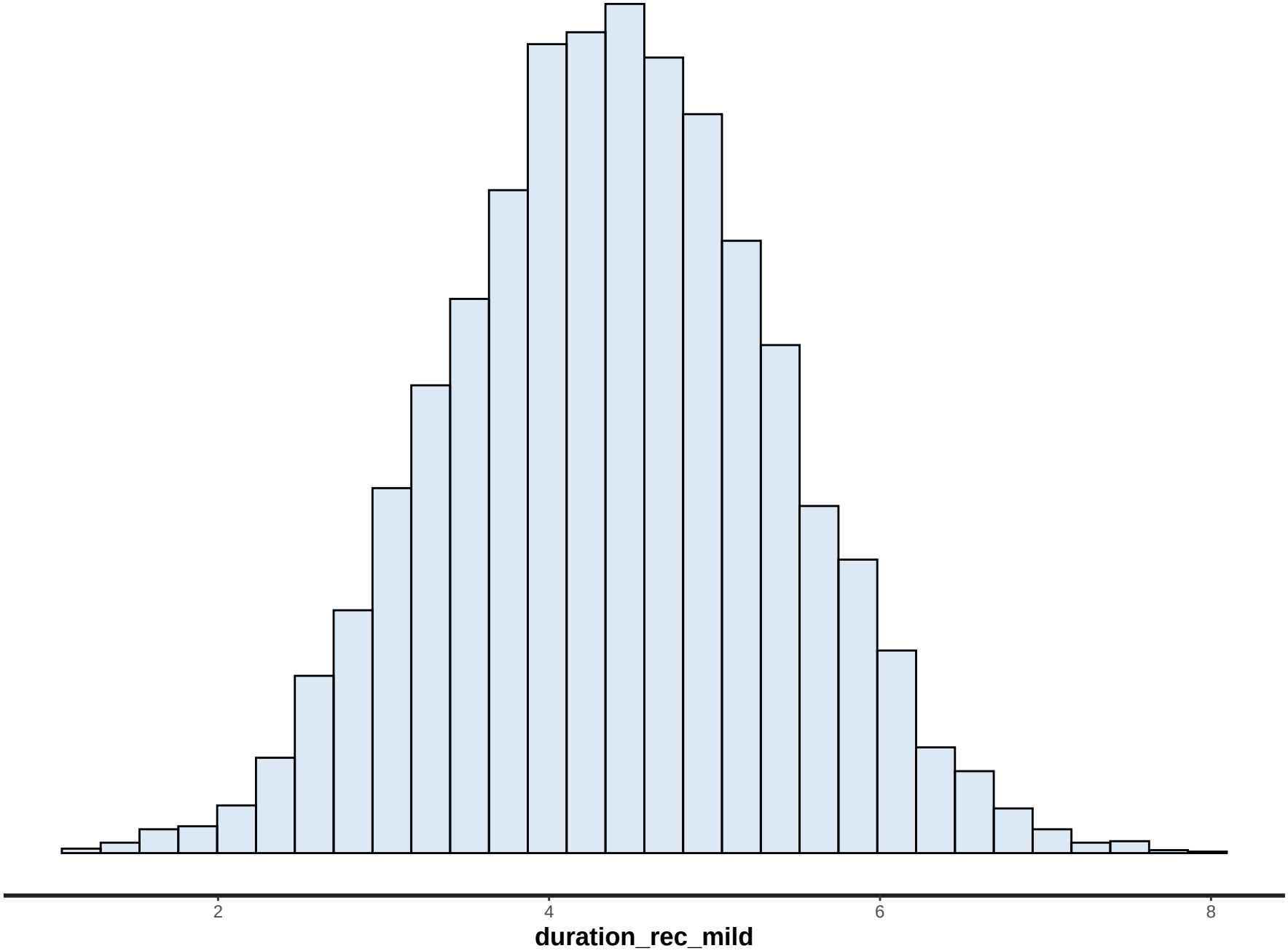
Rt as of 2020−08−14

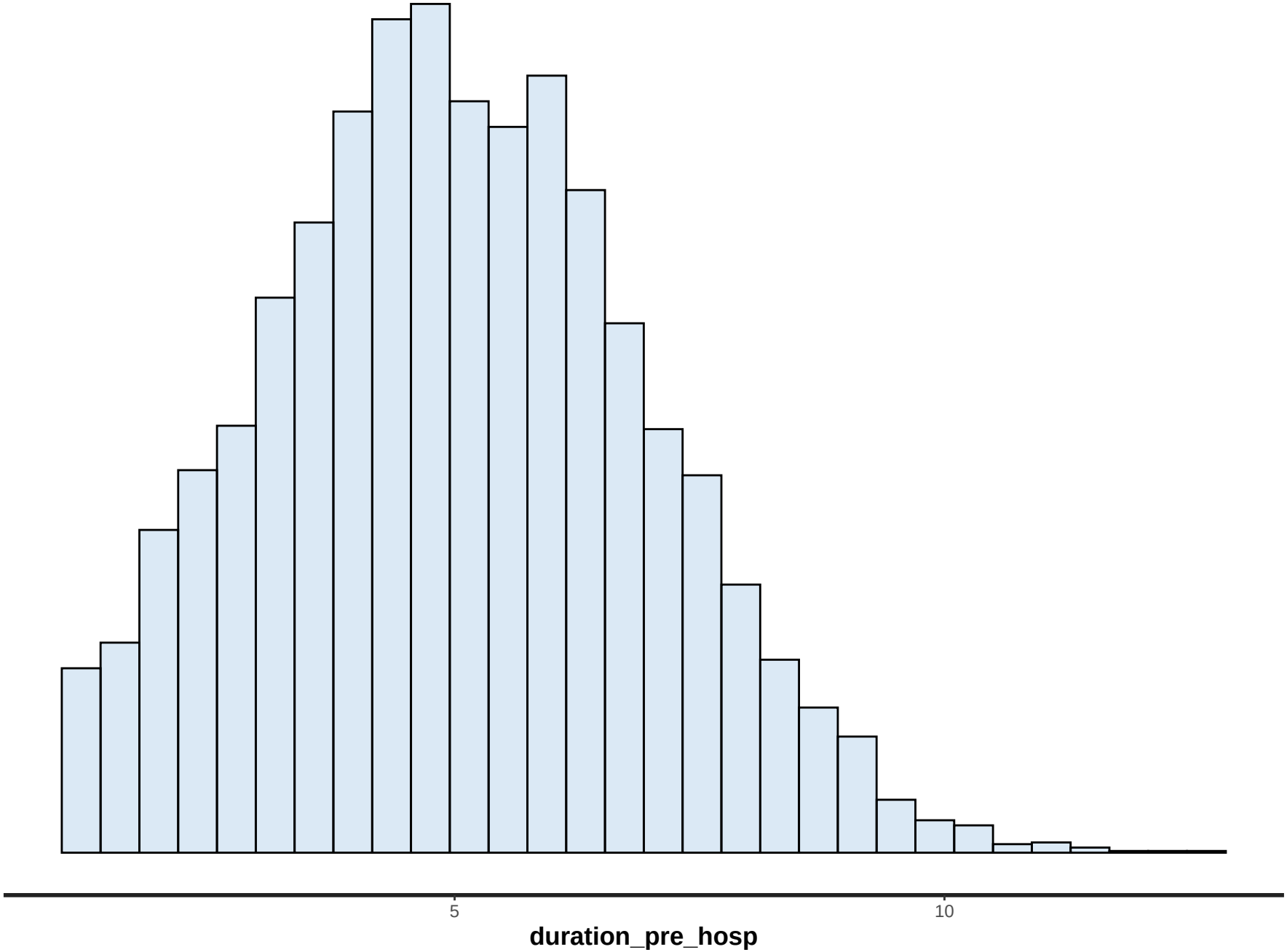
5%	10%	25%	50%	75%	90%	95%
0.29	0.37	0.50	0.64	0.79	0.91	1.00

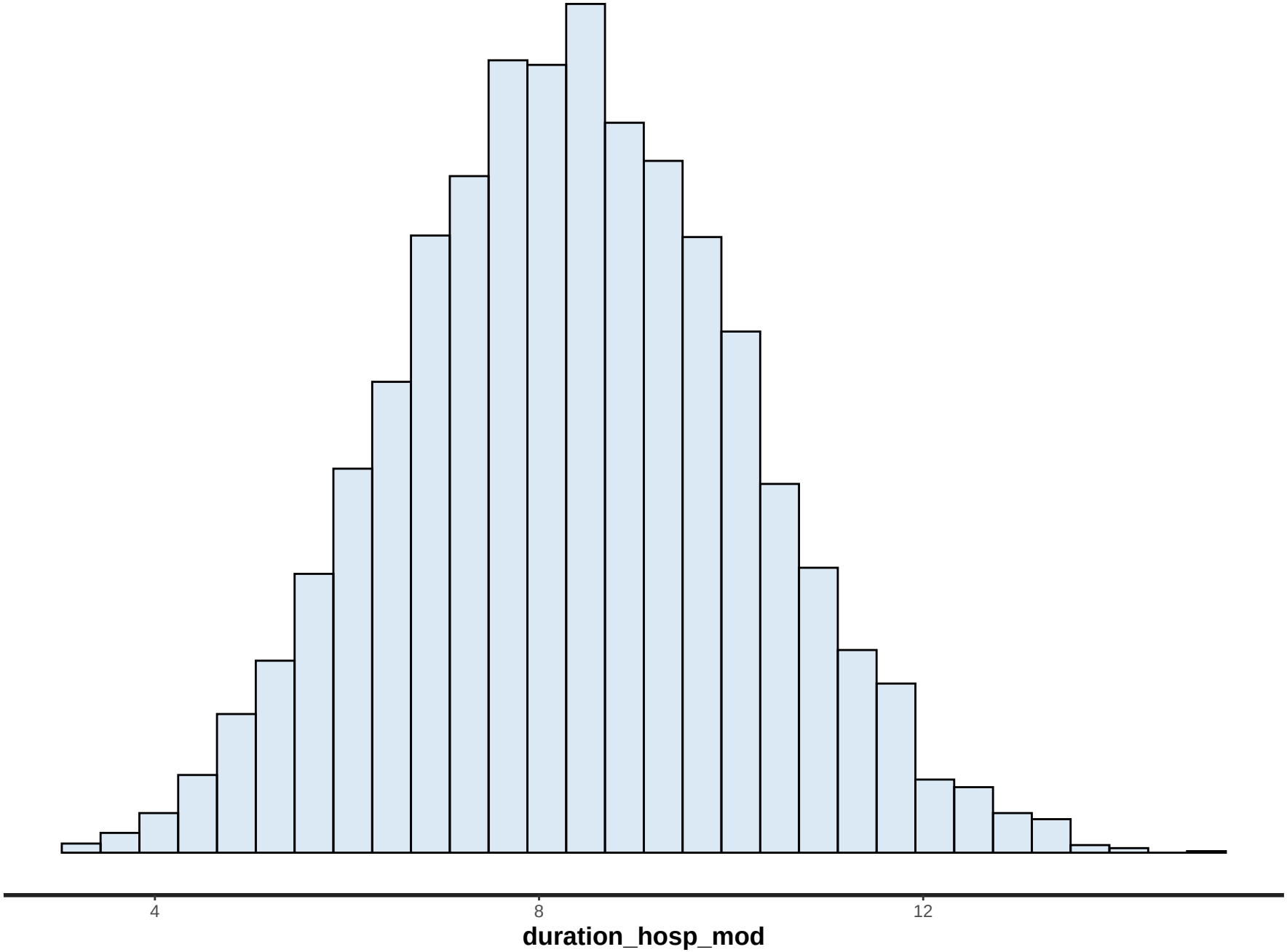


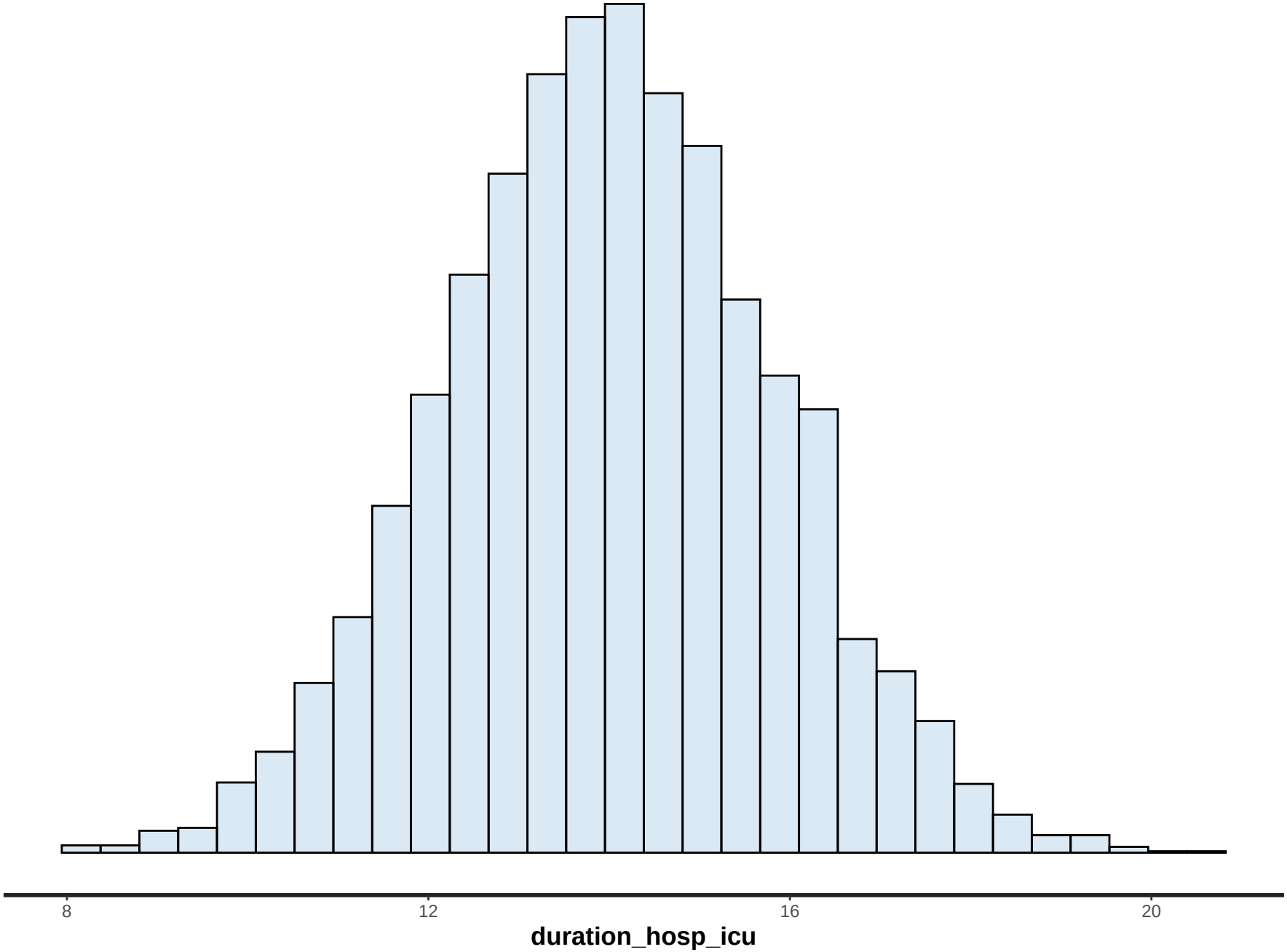

1.0
1.5
2.0
2.5
3.0
r0

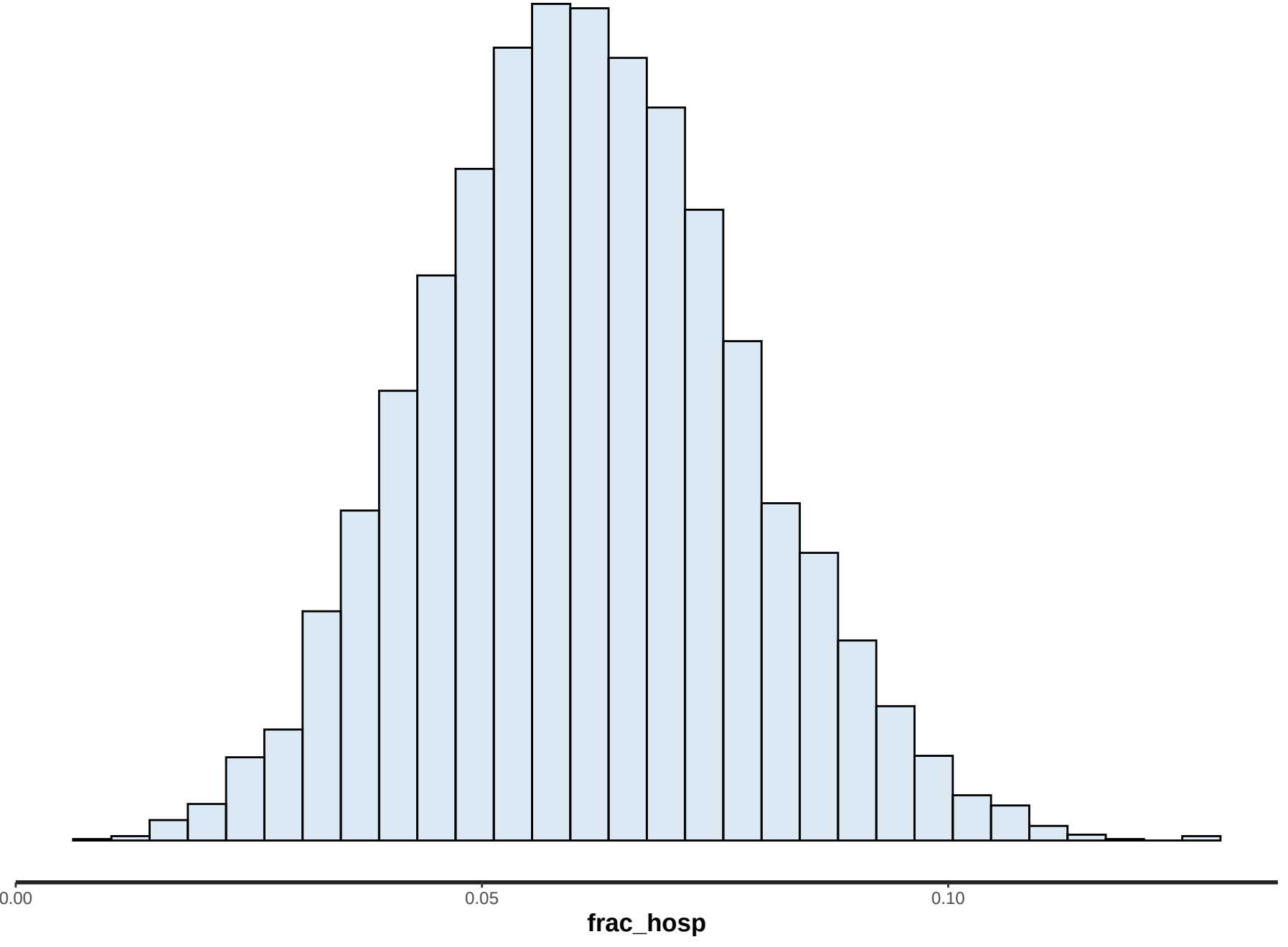

1
2
3
4
5
duration_latent

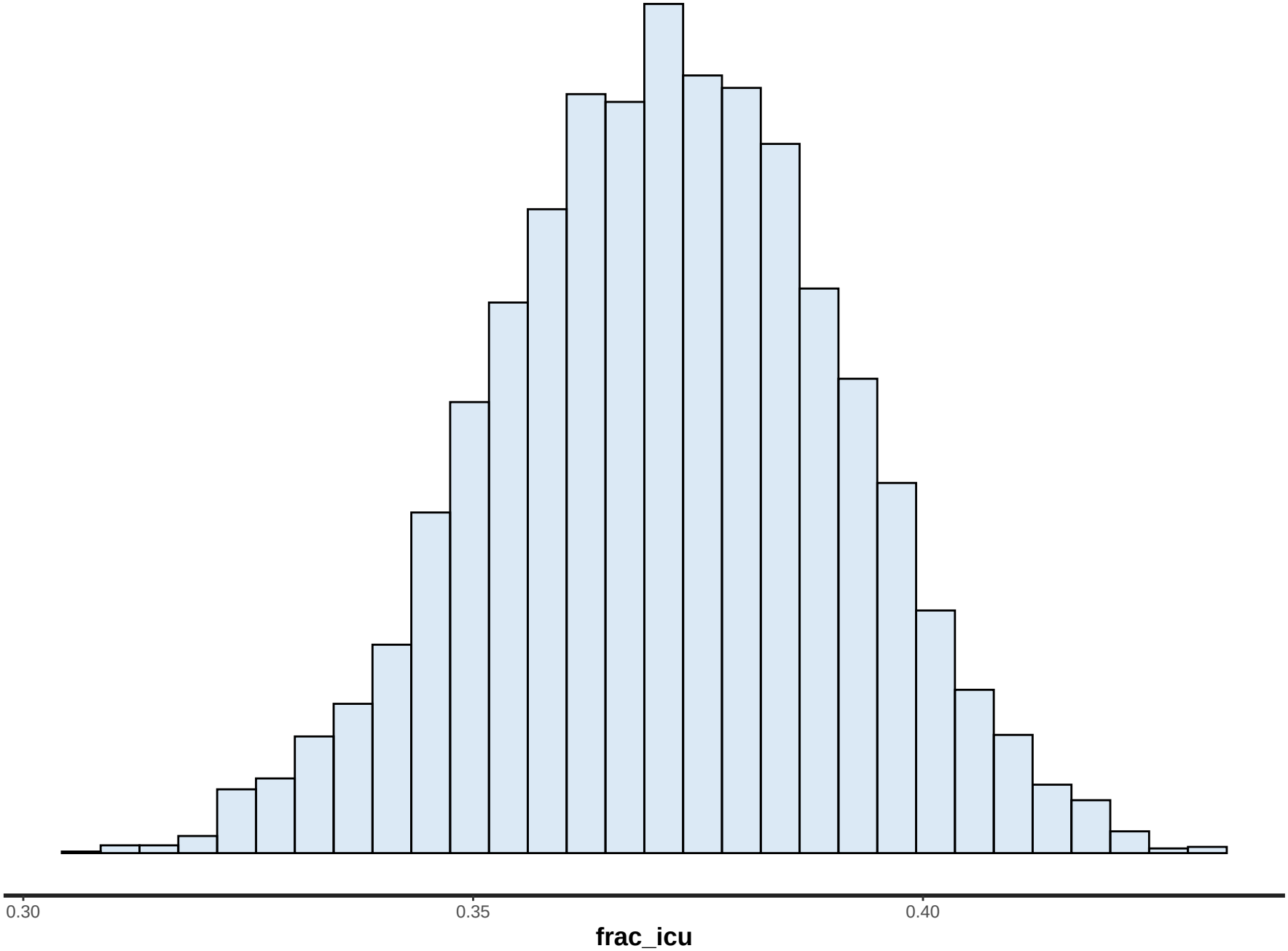

2
4
6
8
duration_rec_mild

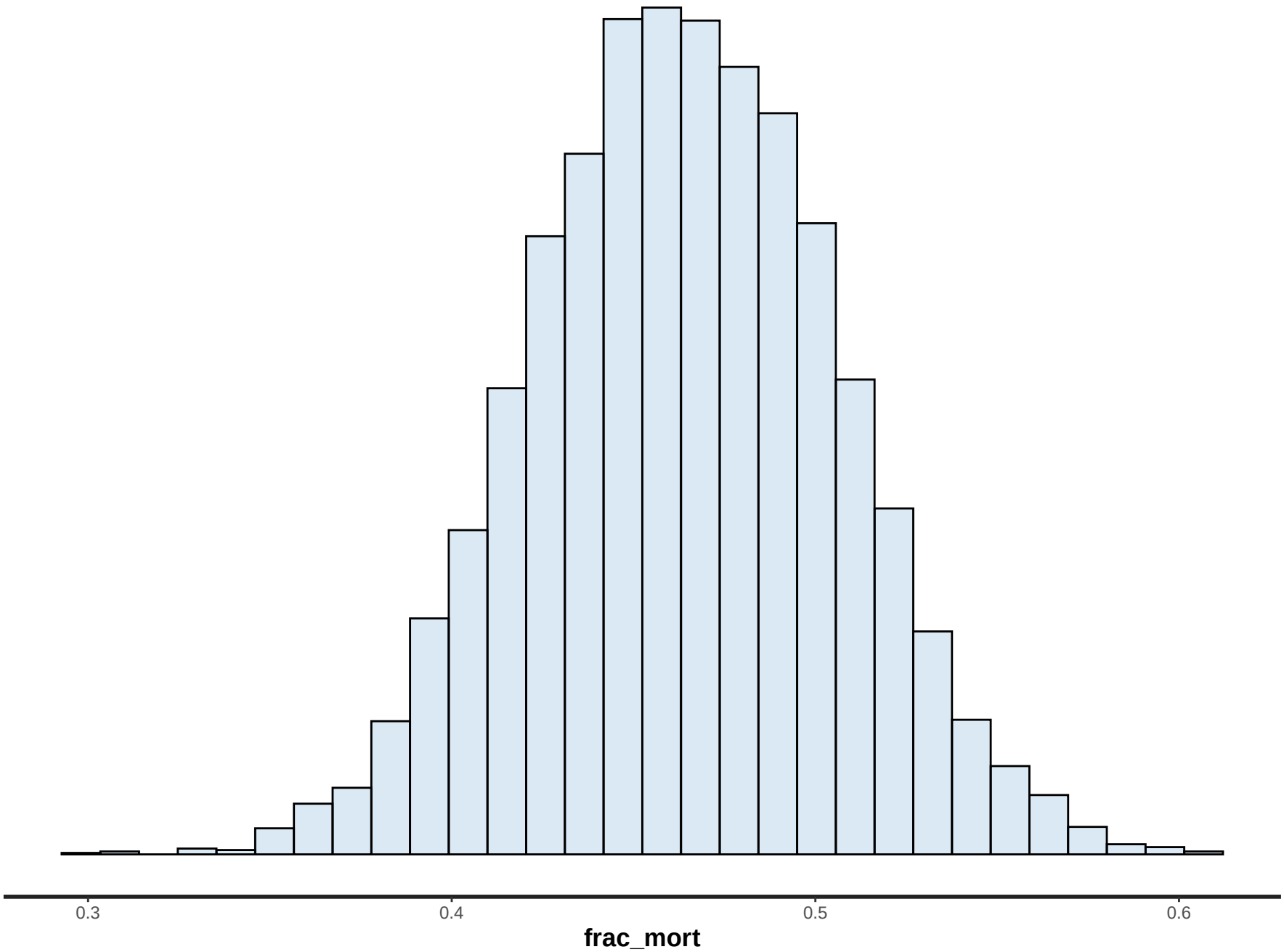

5
10
duration_pre_hosp

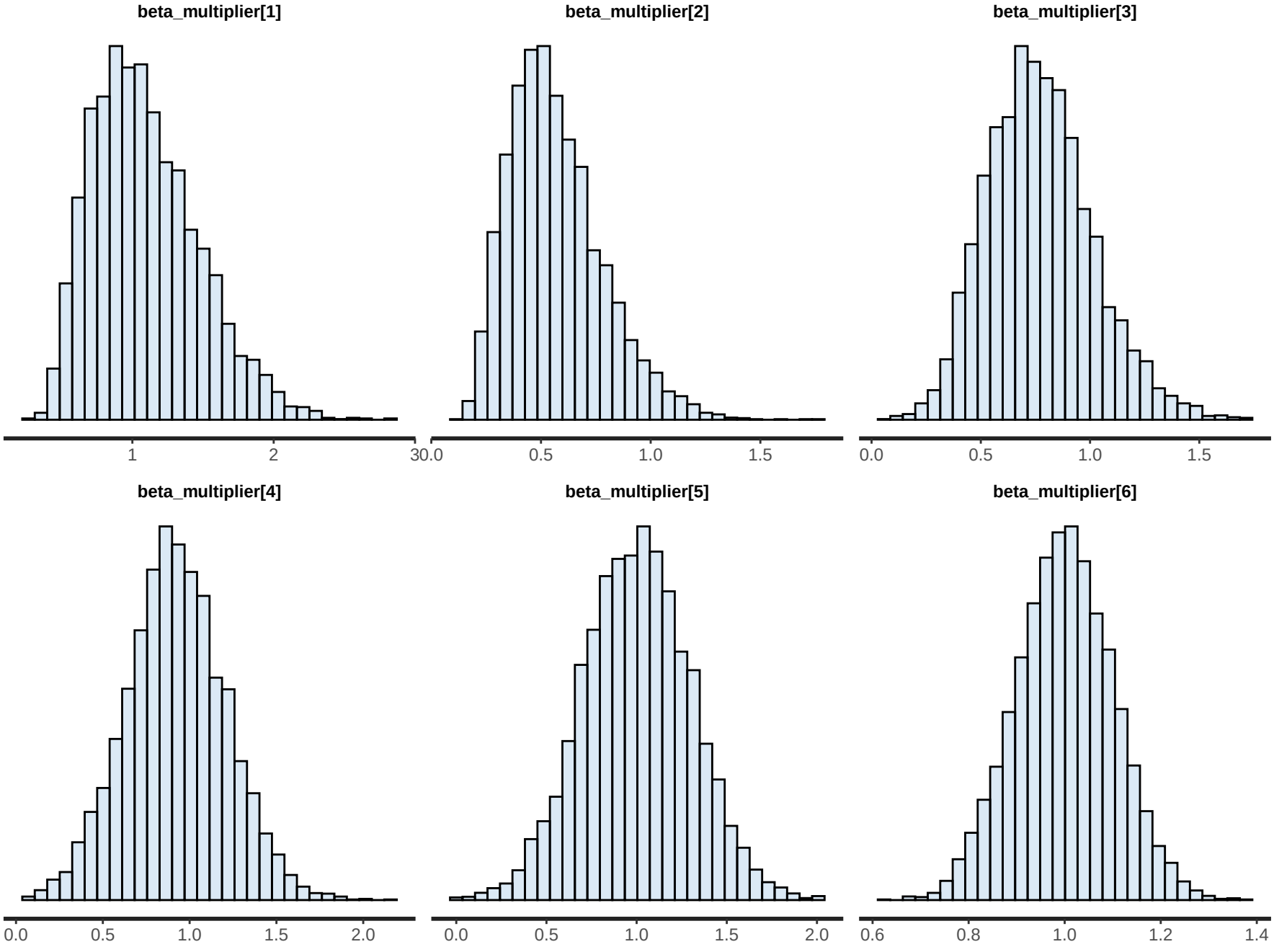

4
8
12
duration_hosp_mod

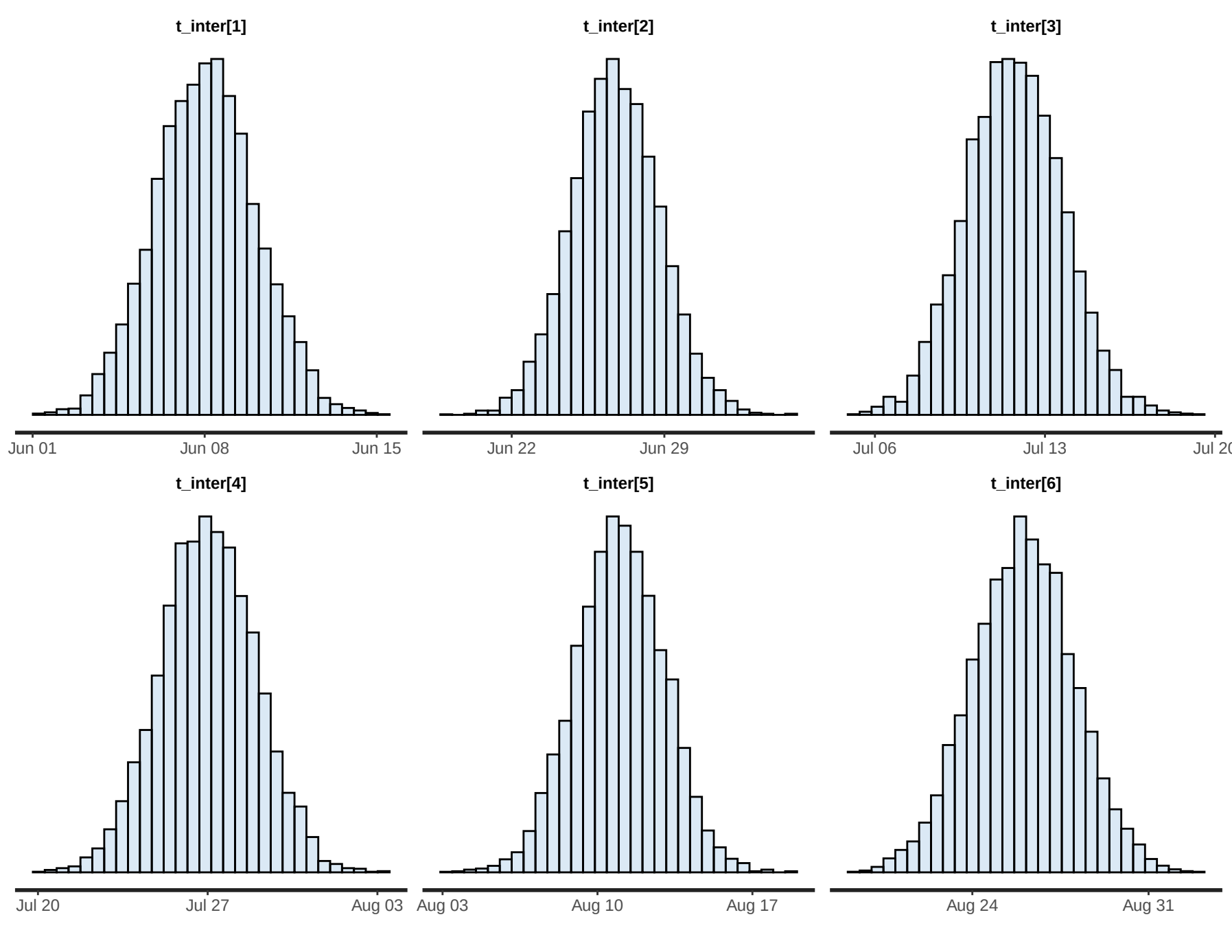

8
12
16
20
duration_hosp_icu

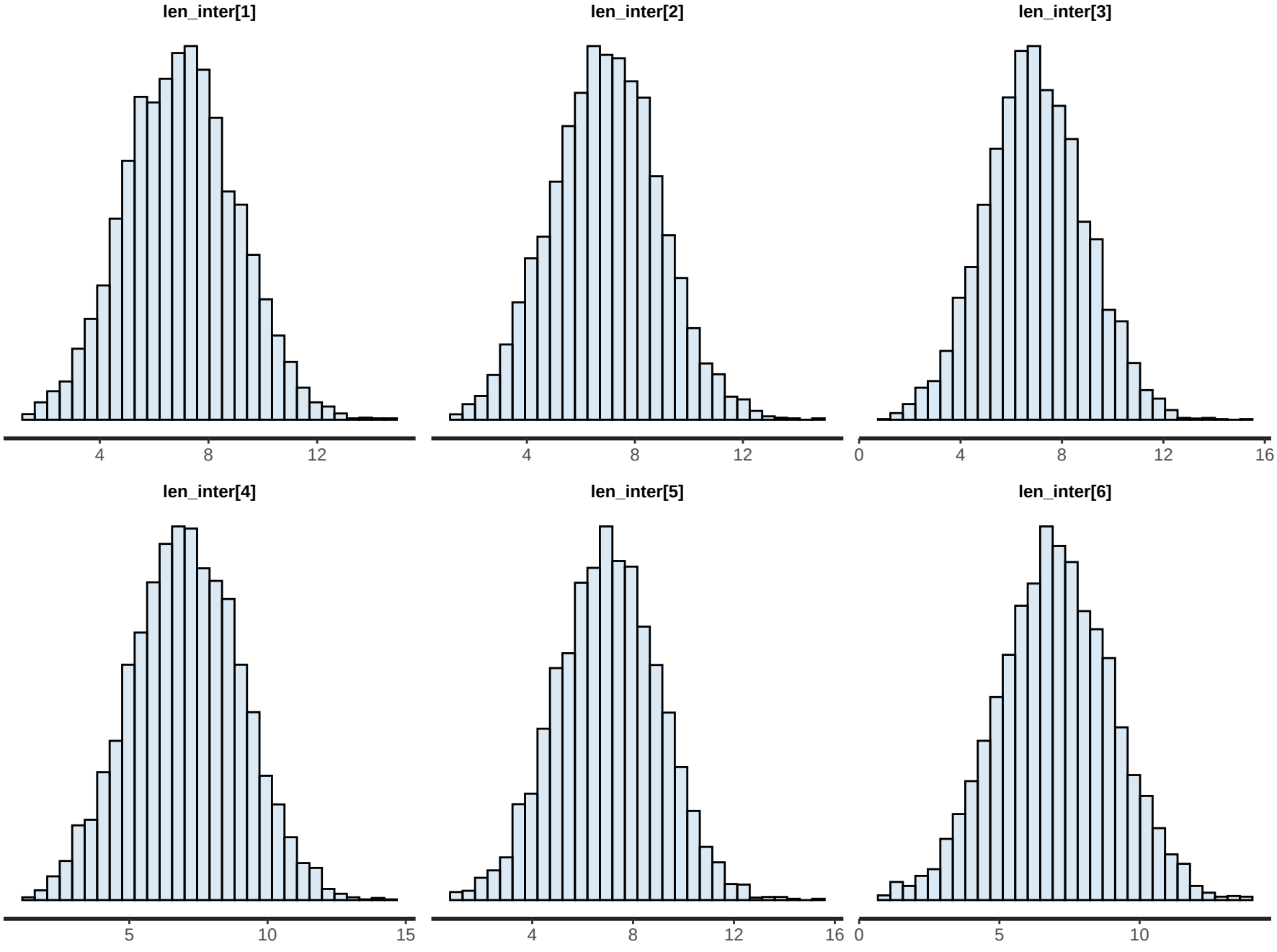

0.00
0.05
0.10
frac_hosp

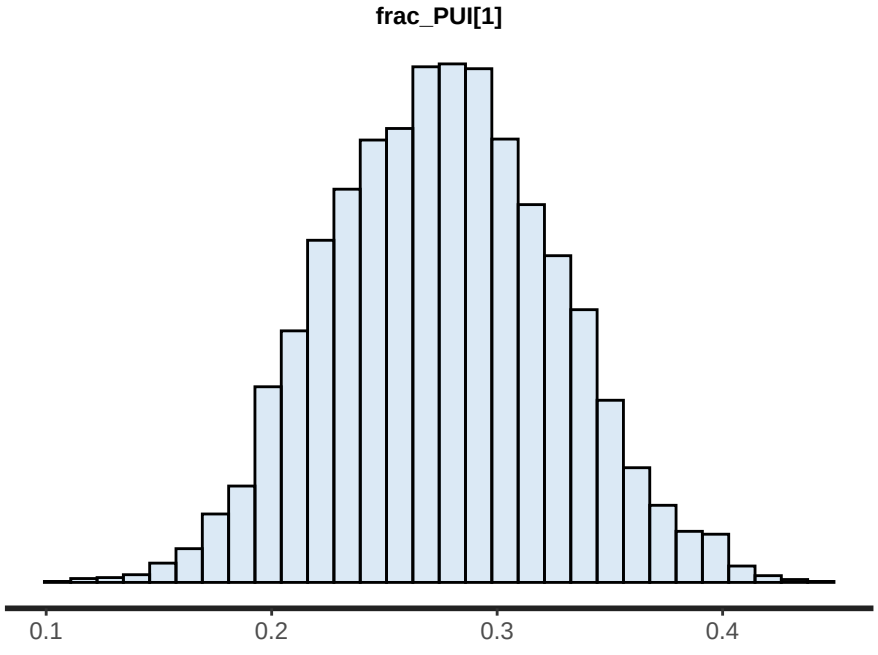

0.30
0.35
0.40
frac_icu

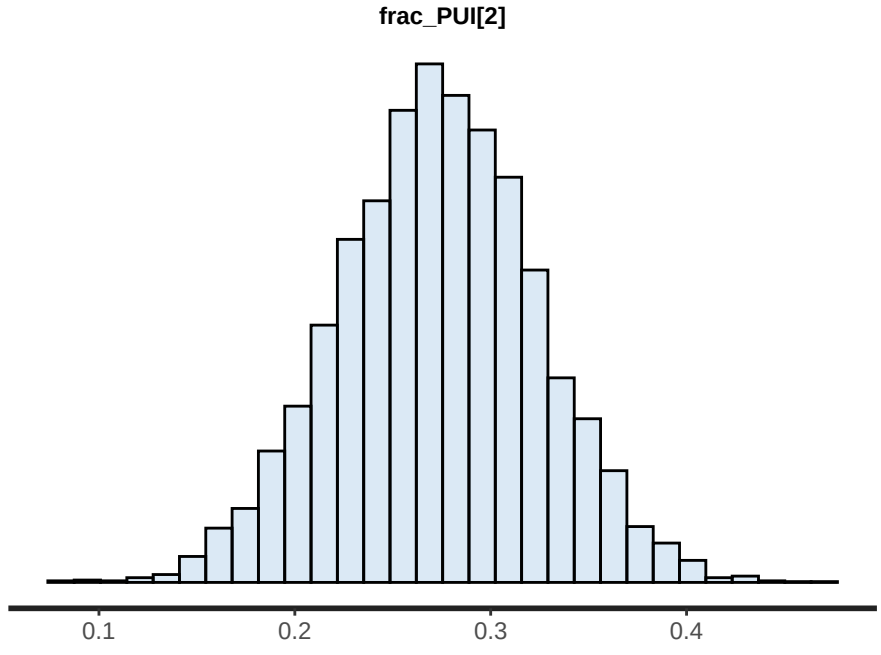

0.3
0.4
0.5
0.6
frac_mort

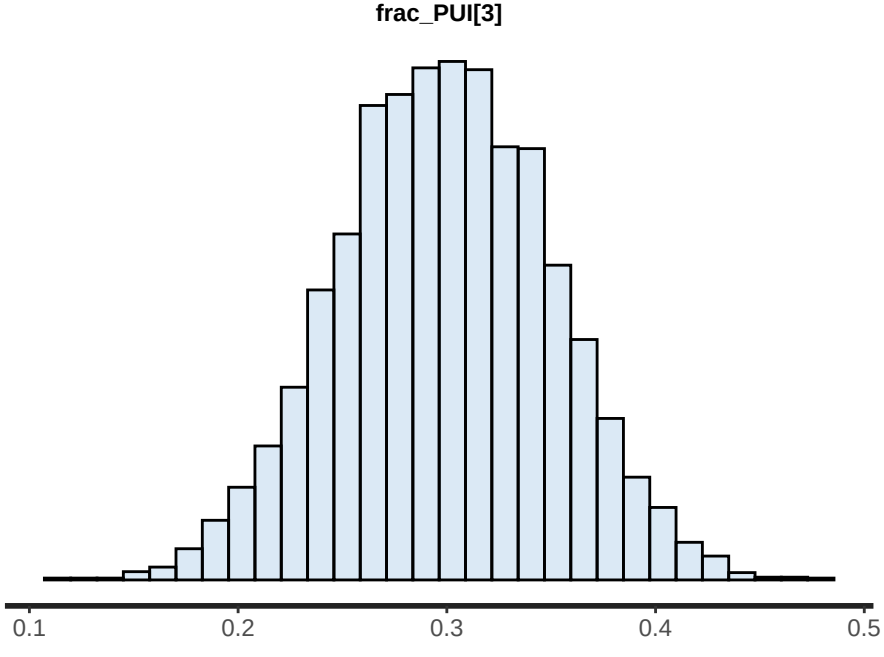

beta_multiplier[1]
1
2
beta_multiplier[2]
30.0
0.5
1.0
1.5
beta_multiplier[3]
0.0
0.5
1.0
1.5
beta_multiplier[4]
0.0
0.5
1.0
1.5
2.0
beta_multiplier[5]
0.0
0.5
1.0
1.5
2.0
beta_multiplier[6]
0.6
0.8
1.0
1.2
1.4

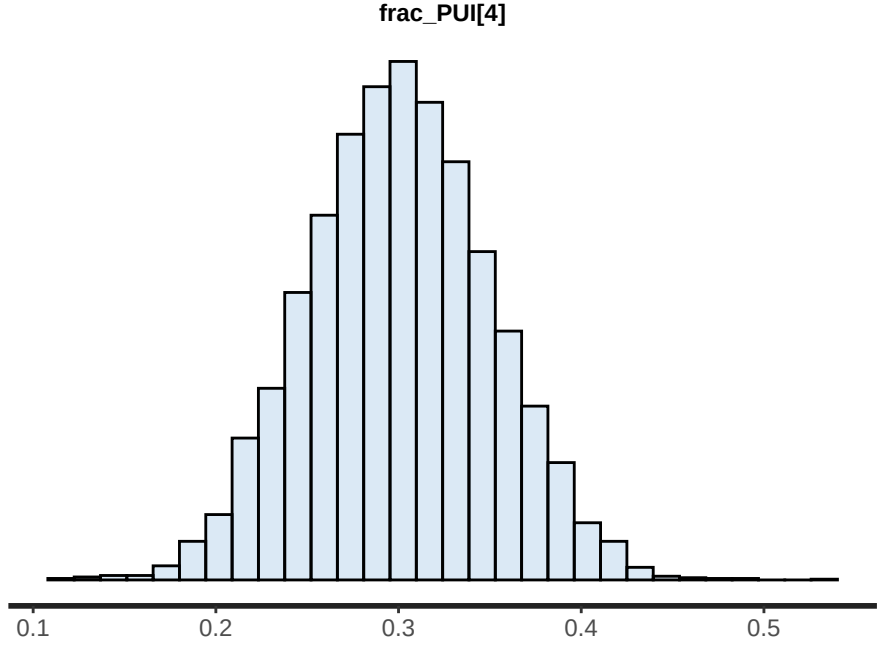

t_inter[1]
Jun 01
Jun 08
Jun 15
t_inter[2]
Jun 22
Jun 29
t_inter[3]
Jul 06
Jul 13
t_inter[4]
Jul 20
Jul 27
Aug 03
t_inter[5]
Aug 03
Aug 10
Aug 17
t_inter[6]
Aug 24
Aug 31

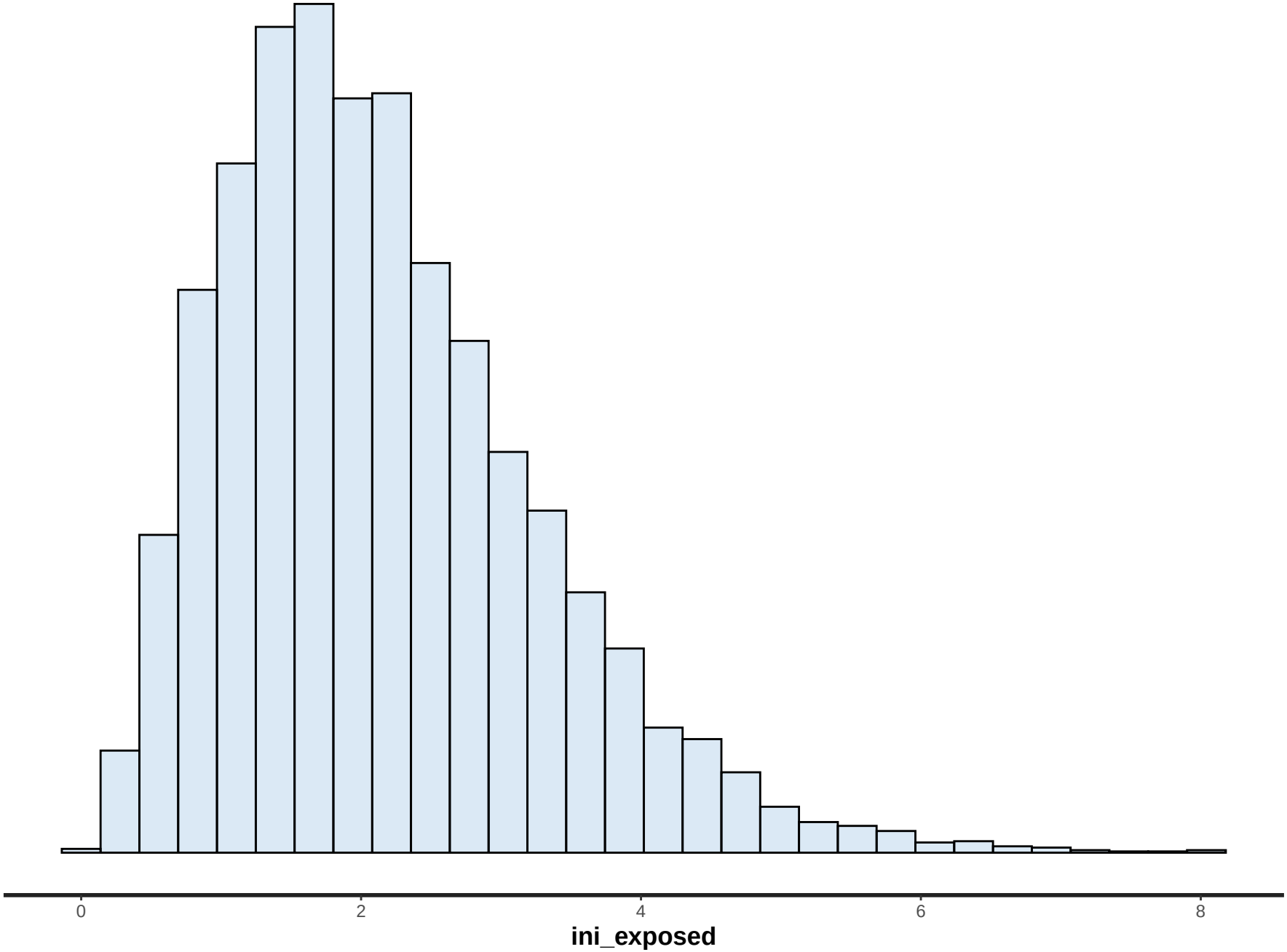

len_inter[1]
4
8
12
len_inter[2]
4
8
12
len_inter[3]
0
4
8
12
16
len_inter[4]
5
10
15
len_inter[5]
4
8
12
16
len_inter[6]
0
5
10

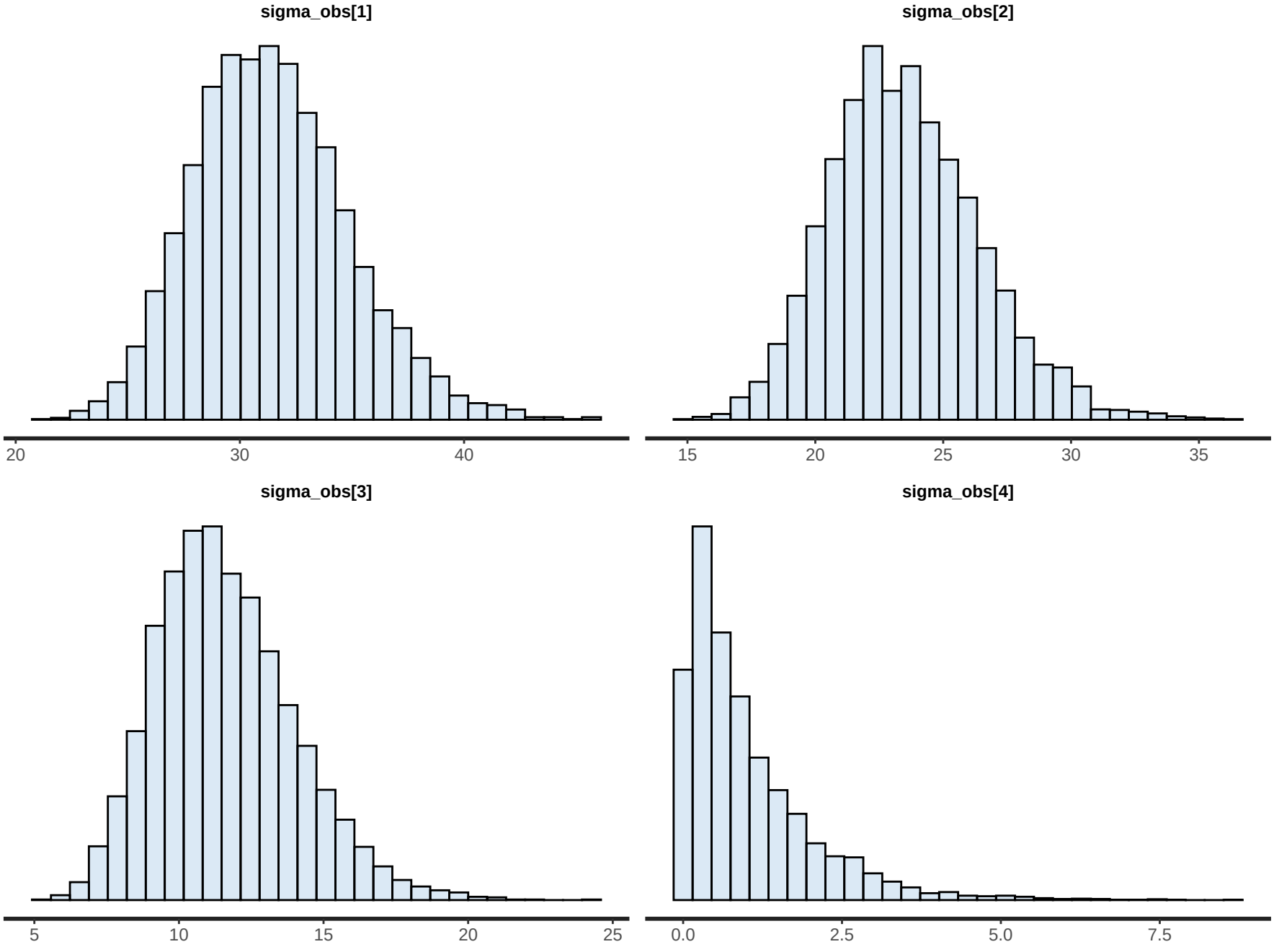

frac_PUI[1]
0.1
0.2
0.3
0.4


frac_PUI[2]
0.1
0.2
0.3
0.4


frac_PUI[3]
0.1
0.2
0.3
0.4
0.5


frac_PUI[4]
0.1
0.2
0.3
0.4
0.5


0
2
4
6
8
ini_exposed


sigma_obs[1]
20
30
40
sigma_obs[2]
15
20
25
30
35
sigma_obs[3]
5
10
15
20
25
sigma_obs[4]
0.0
2.5
5.0
7.5