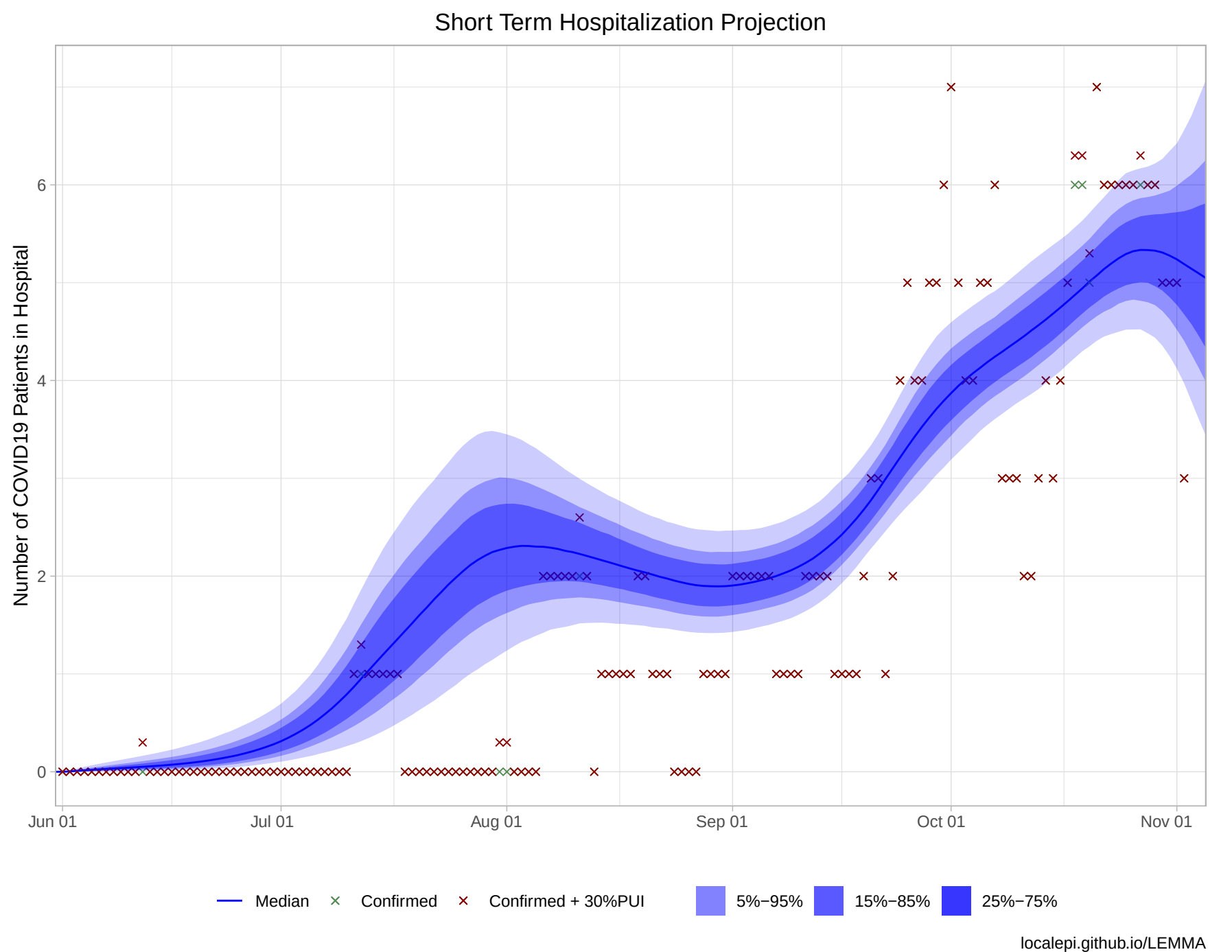
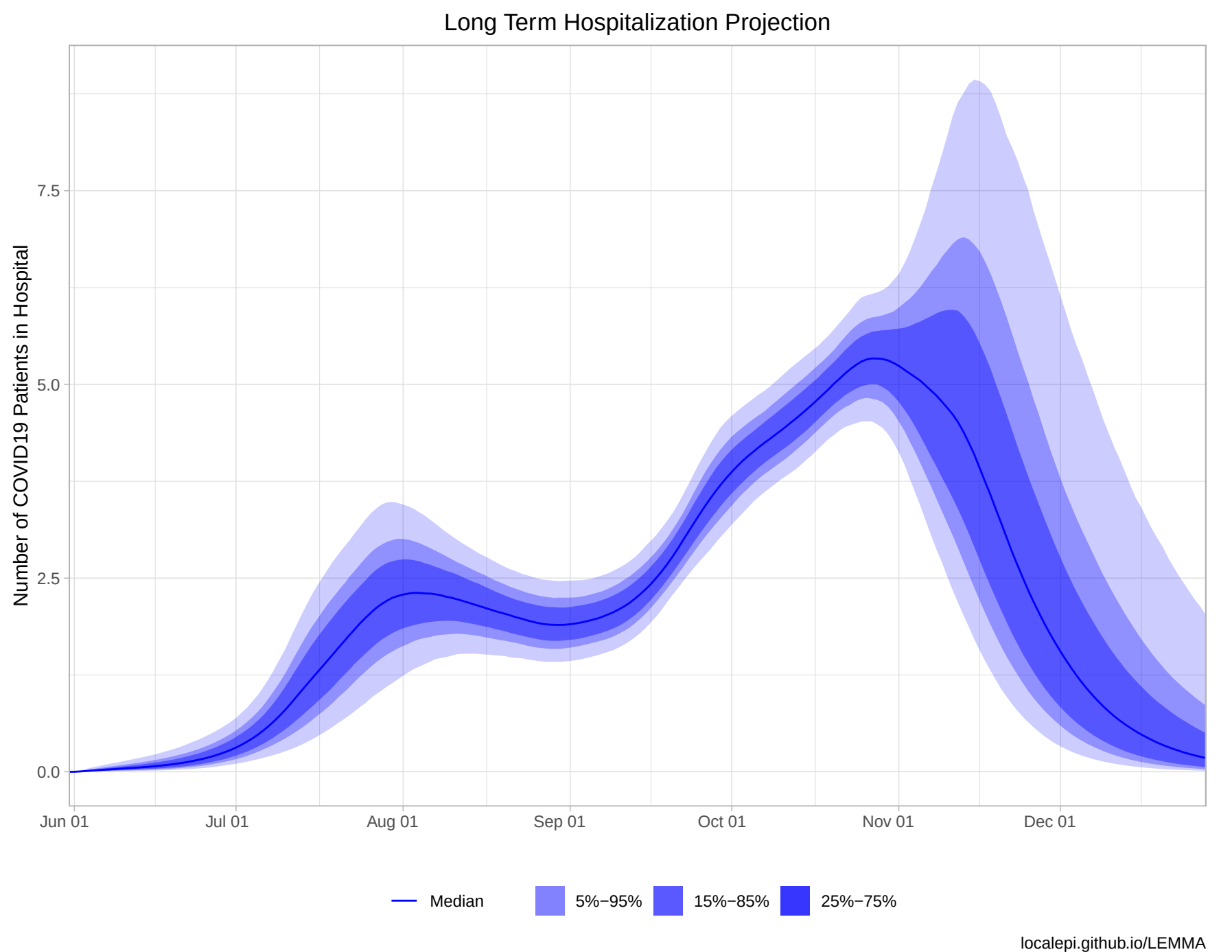
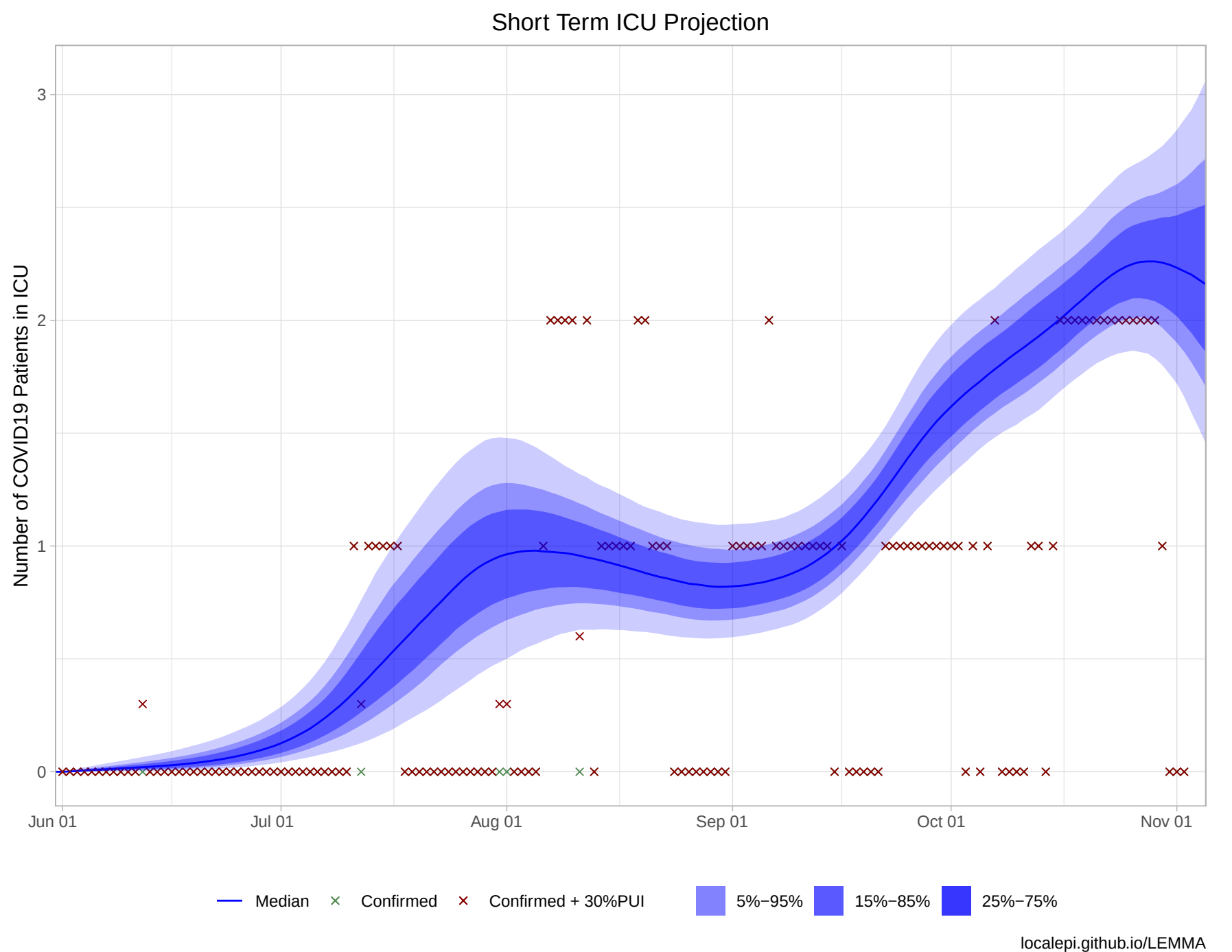
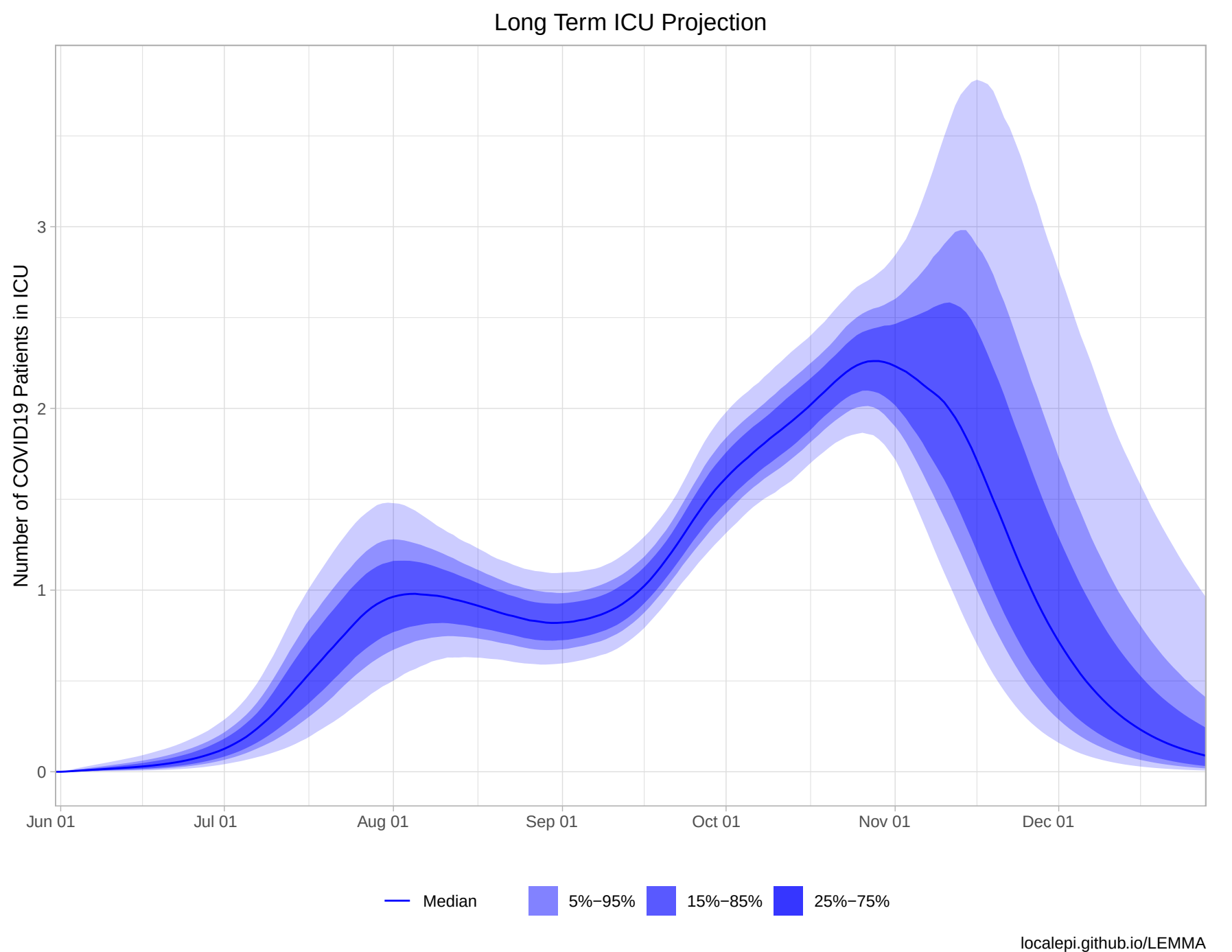
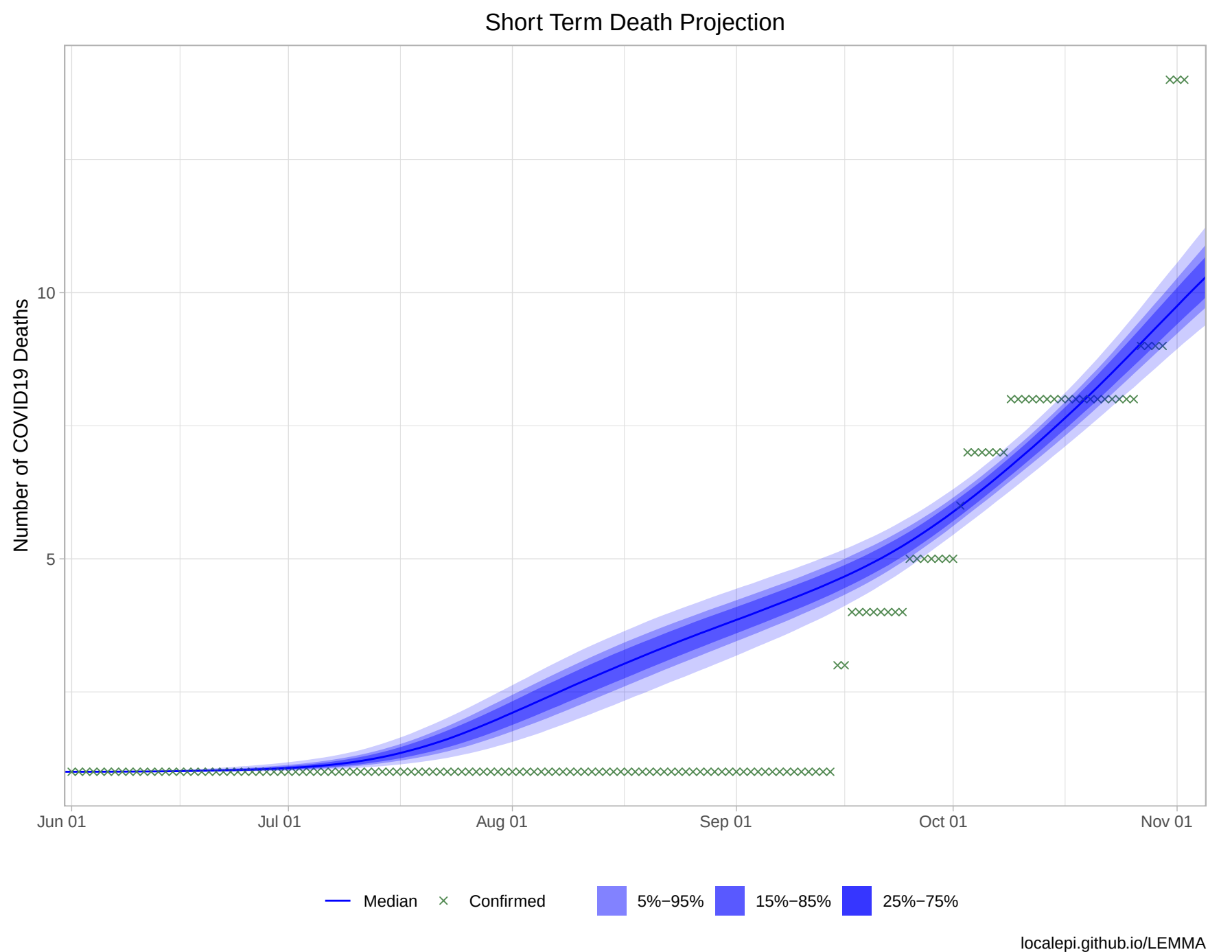
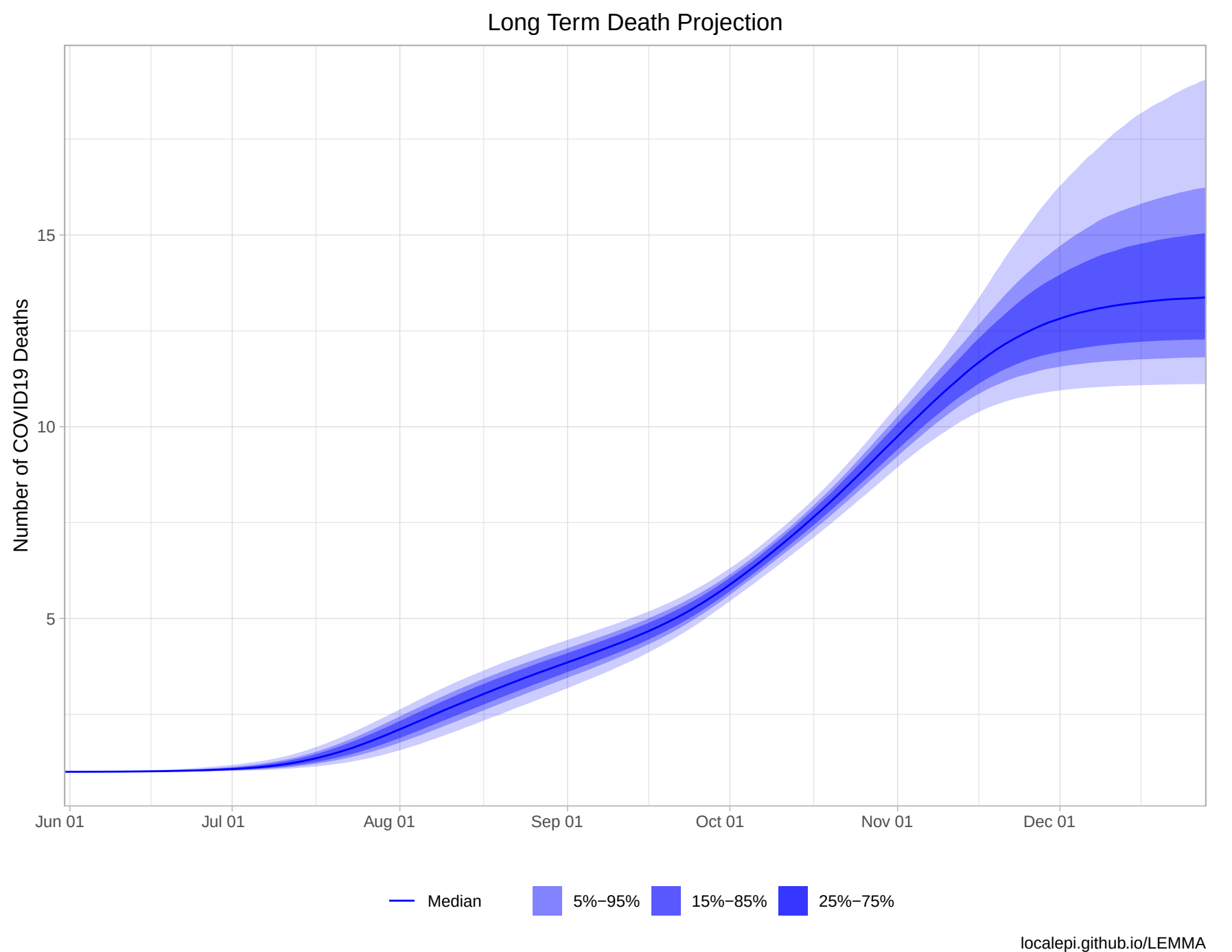

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
2
4
6
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

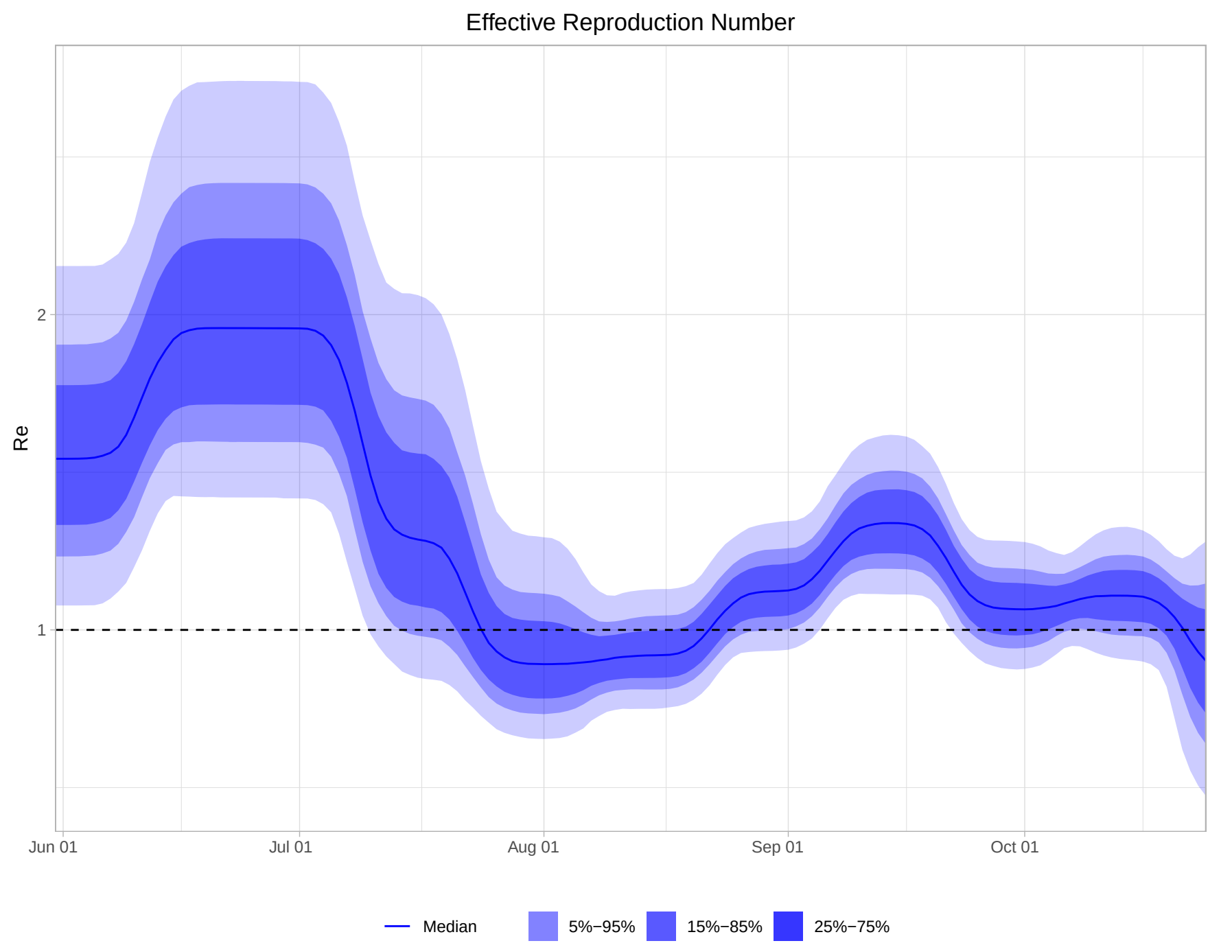

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
7.5
5.0
2.5
0.0
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


Short Term ICU Projection
Number of COVID19 Patients in ICU
3
2
1
0
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
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
1
2
3
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

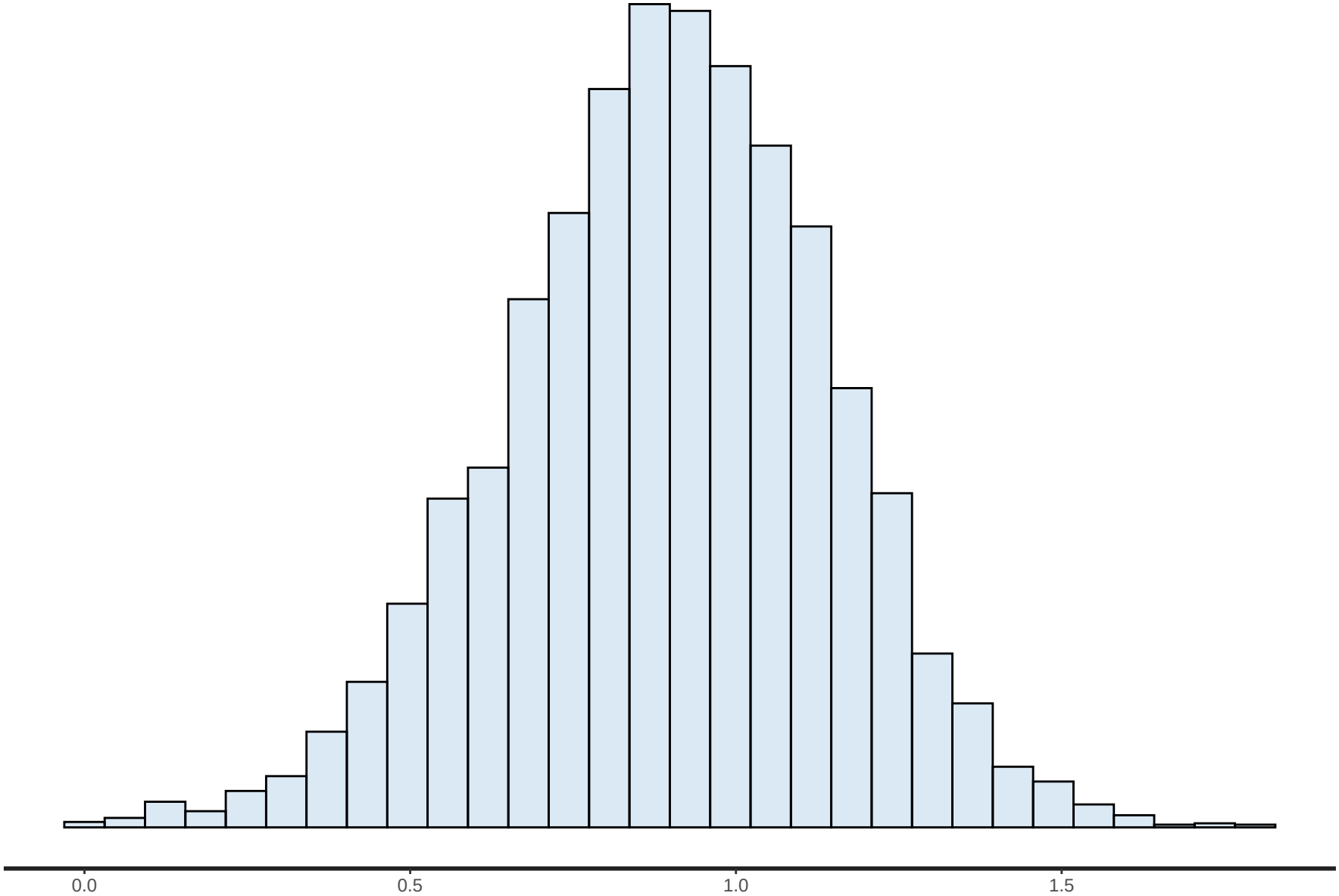

Short Term Death Projection
Number of COVID19 Deaths
10
5
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

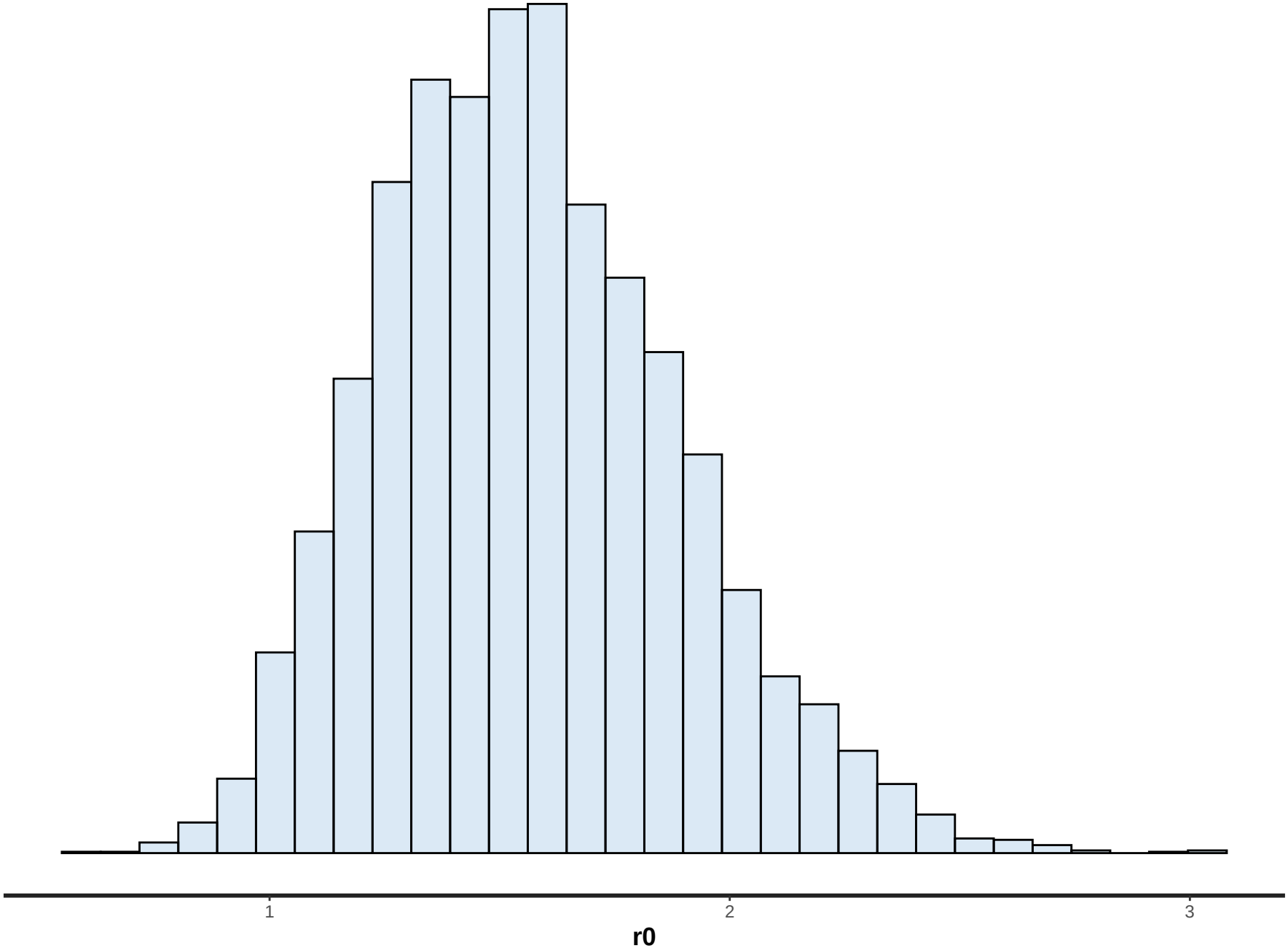

Long Term Death Projection
Number of COVID19 Deaths
15
10
5
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

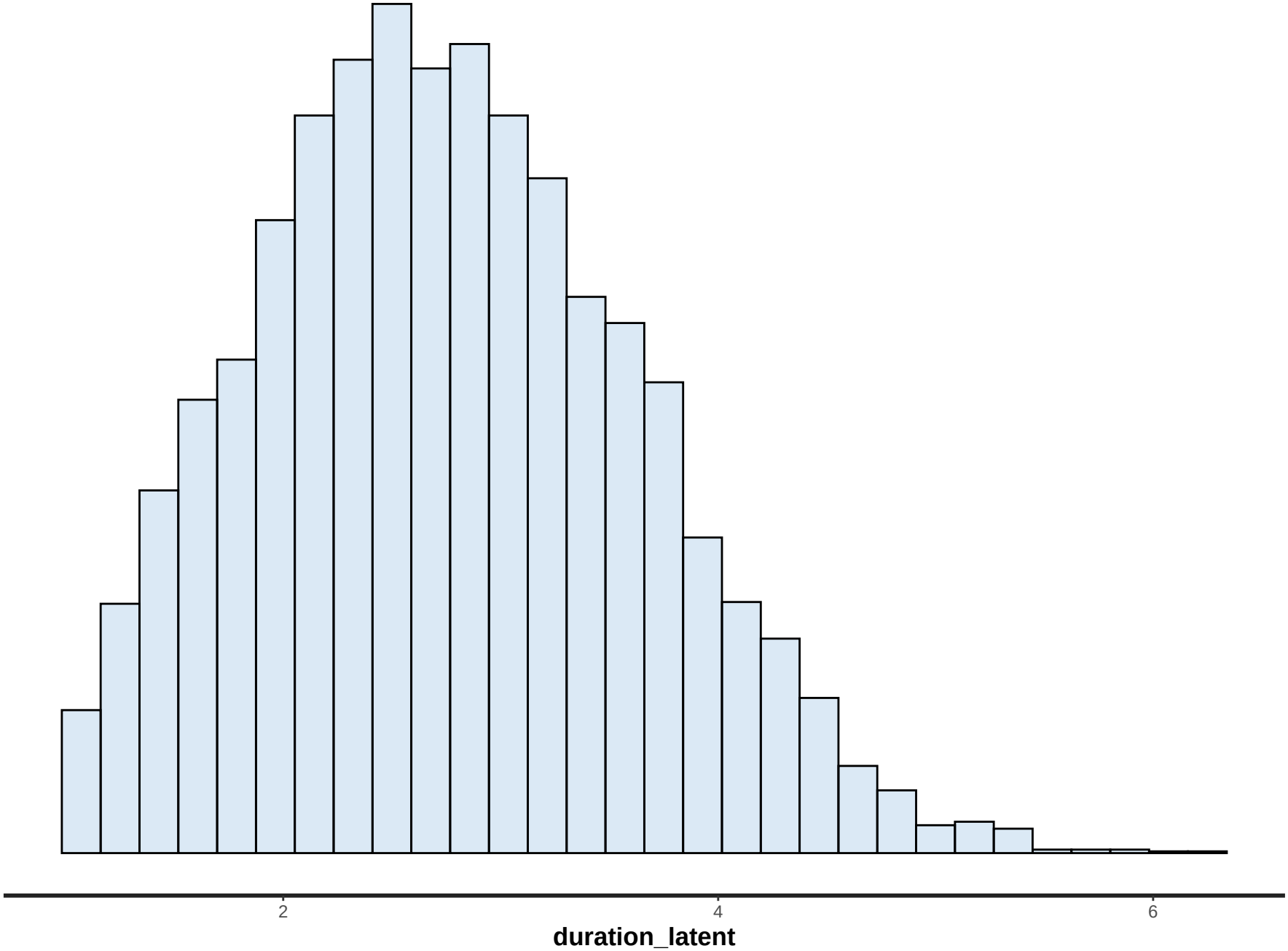

Effective Reproduction Number
Re
2
1
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Median
5%−95%
15%−85%
25%−75%

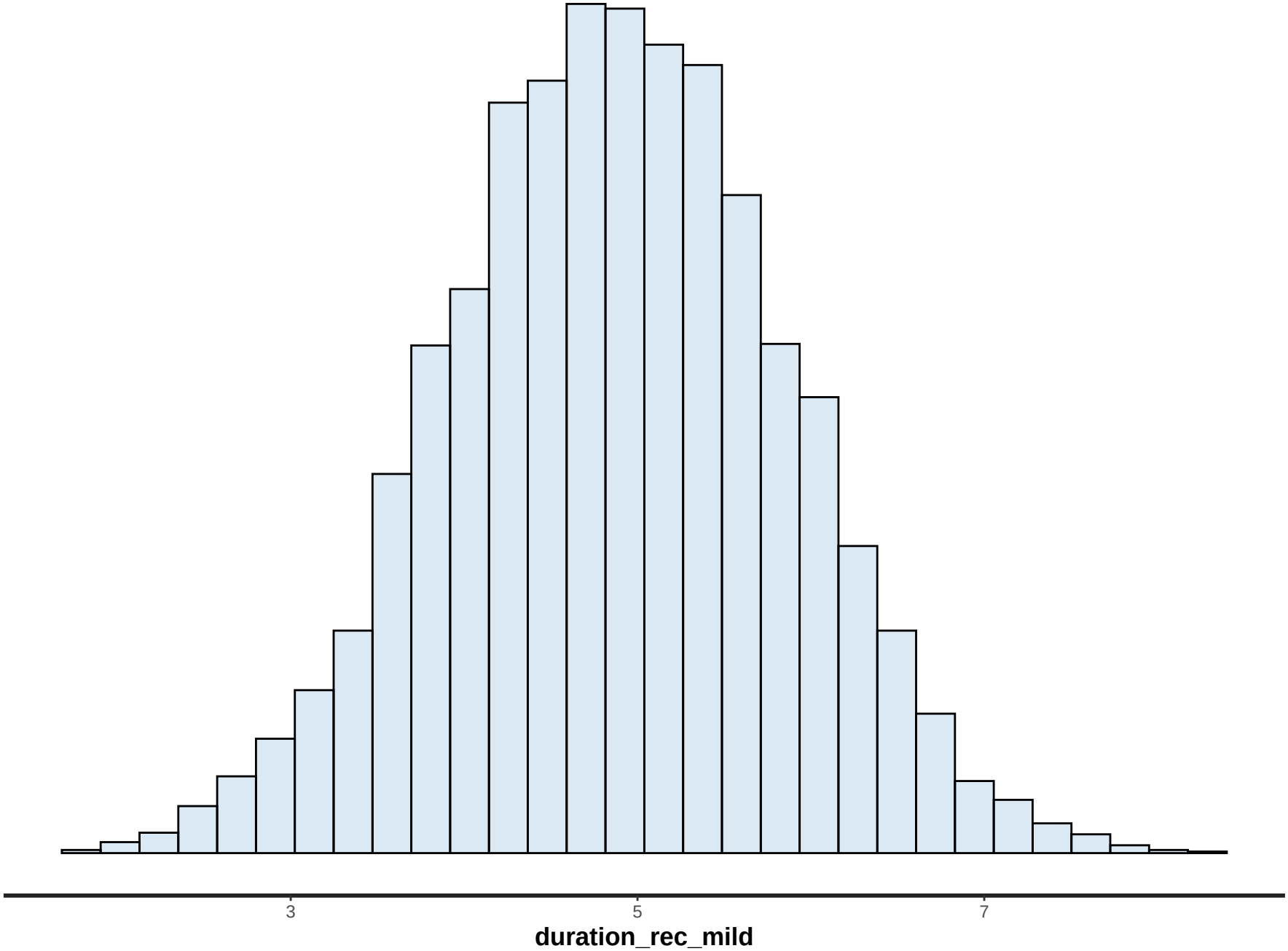
Rt as of 2020−10−24

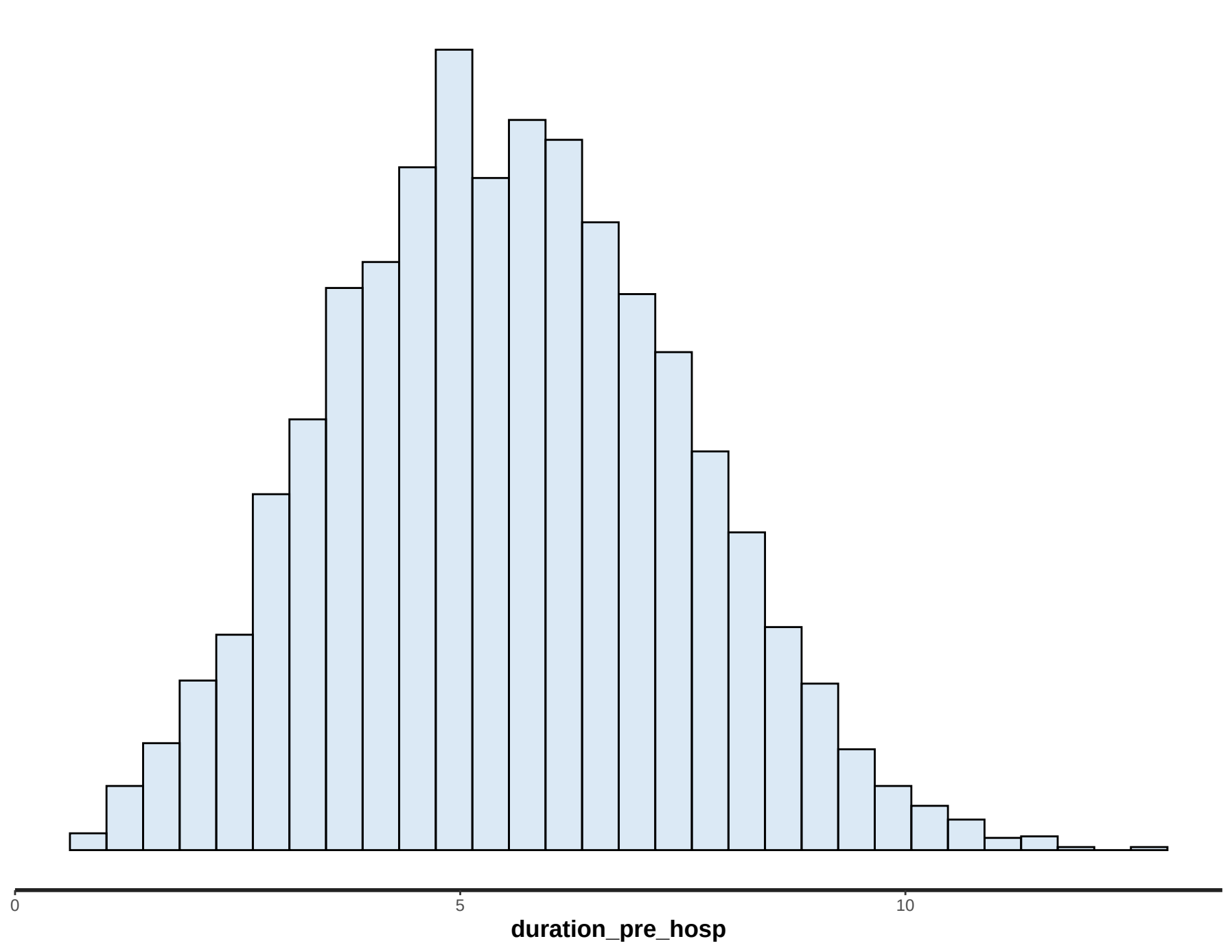
5%	10%	25%	50%	75%	90%	95%
0.47	0.57	0.73	0.90	1.07	1.21	1.28

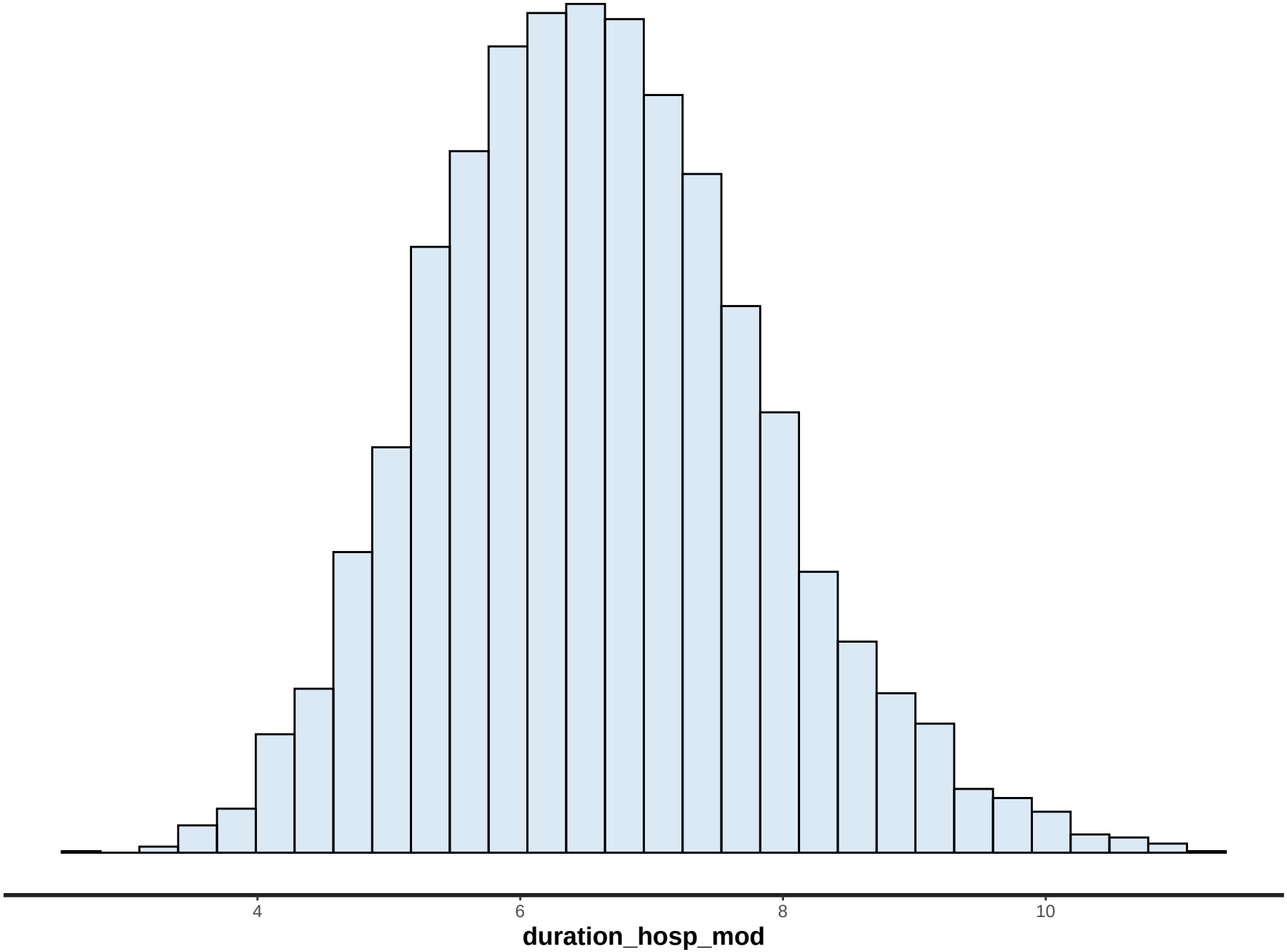


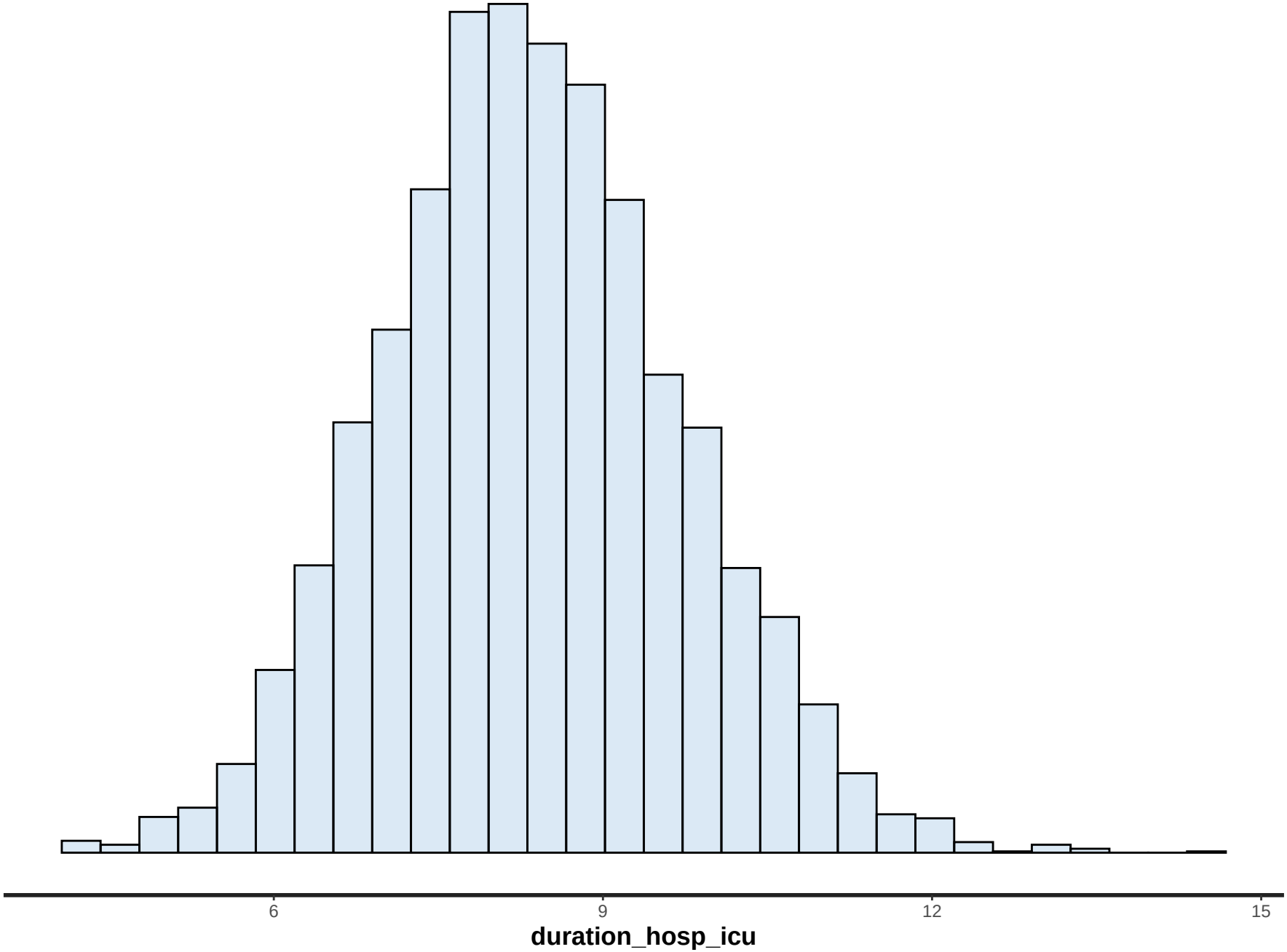

1
2
3
r0

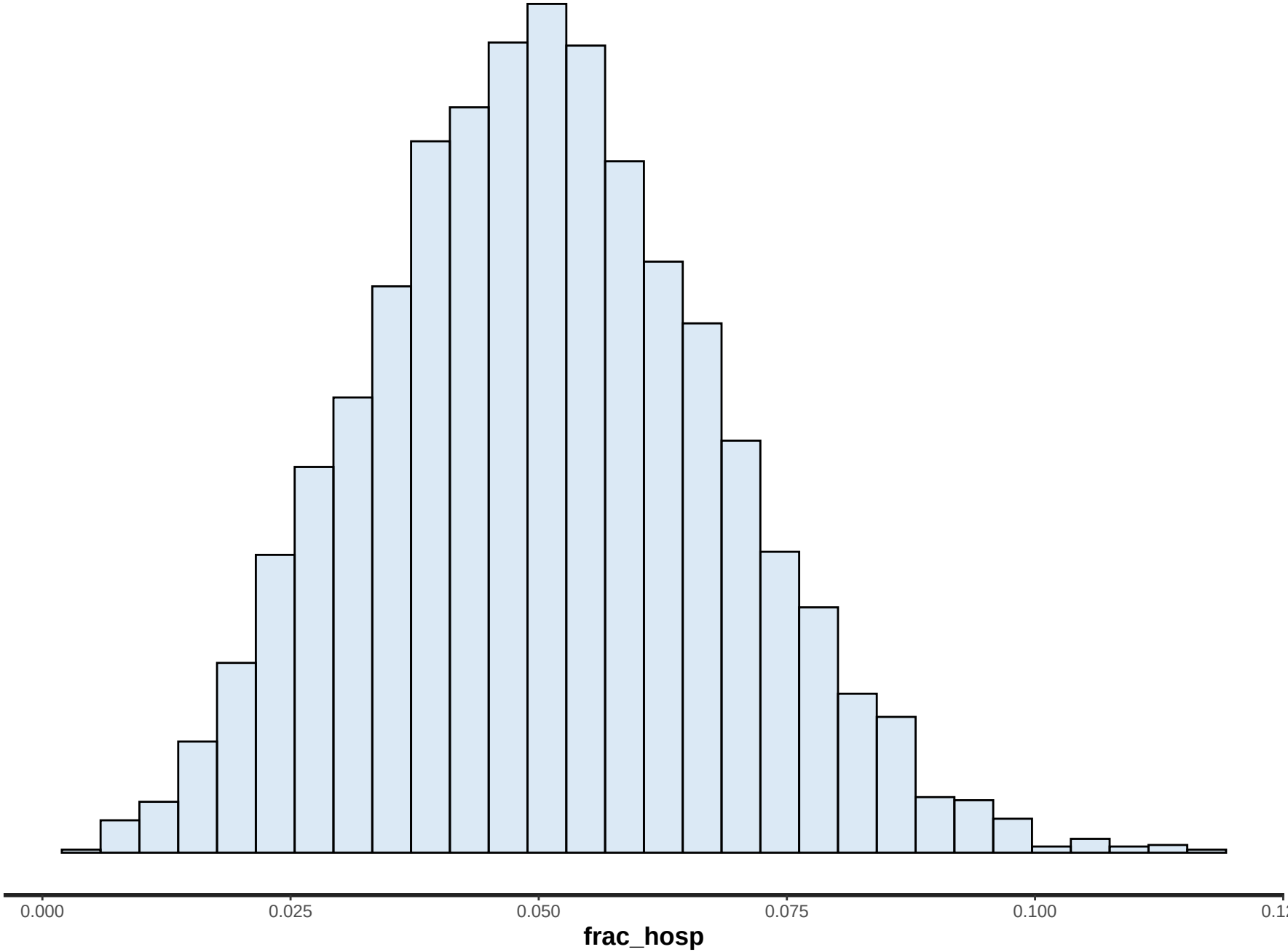

2
4
6
duration_latent

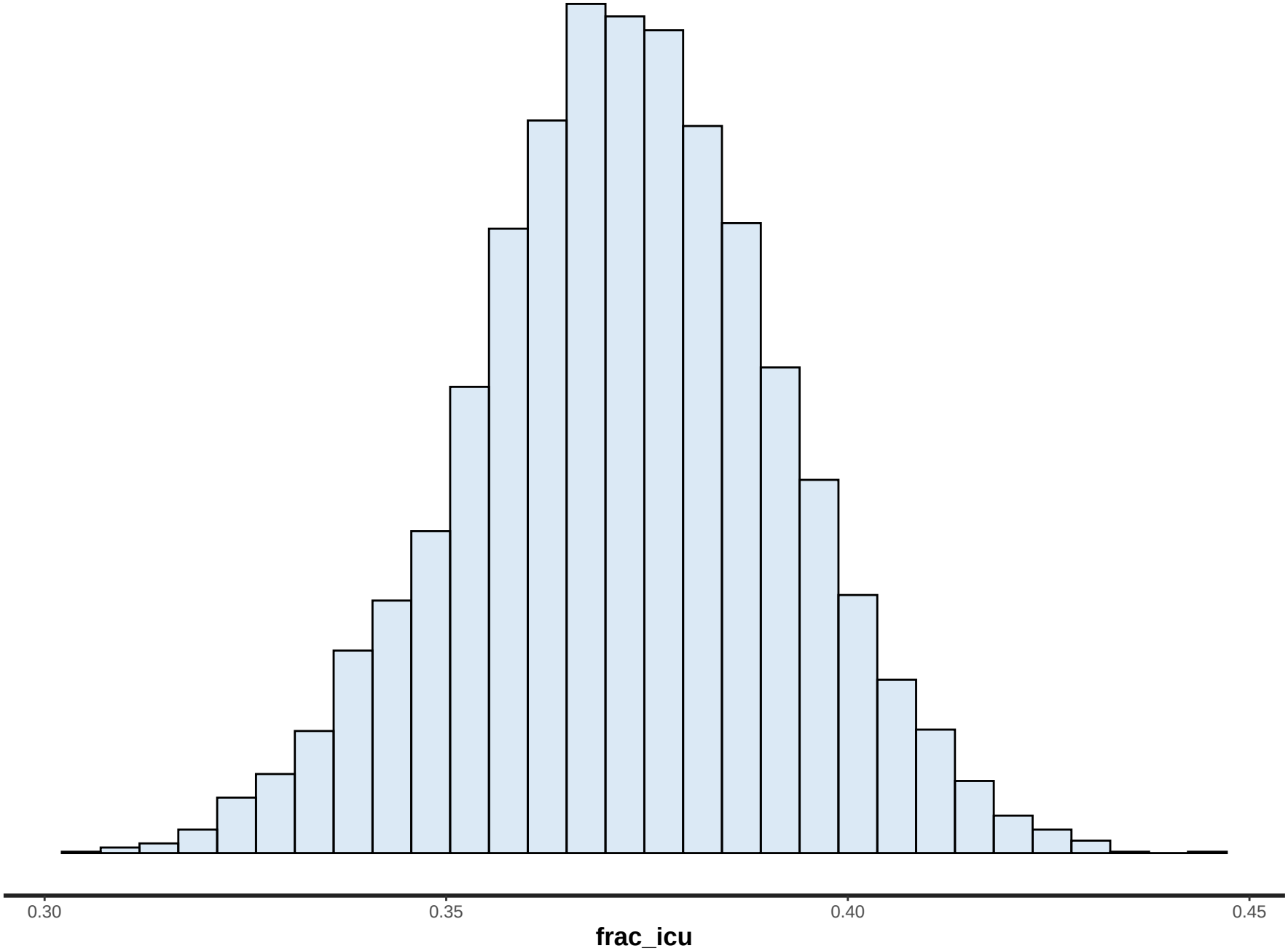

3
5
7
duration_rec_mild

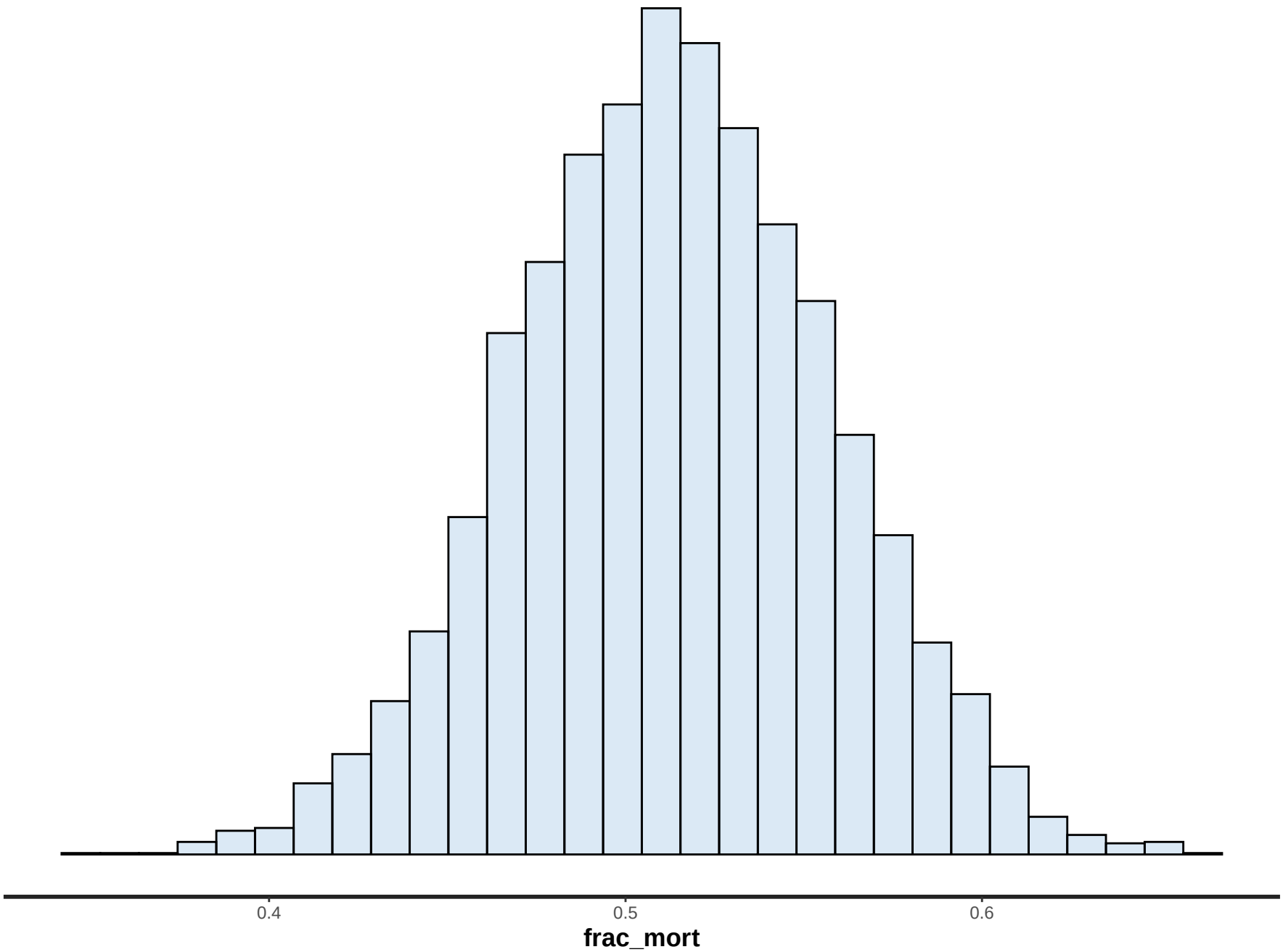

0
5
10
duration_pre_hosp

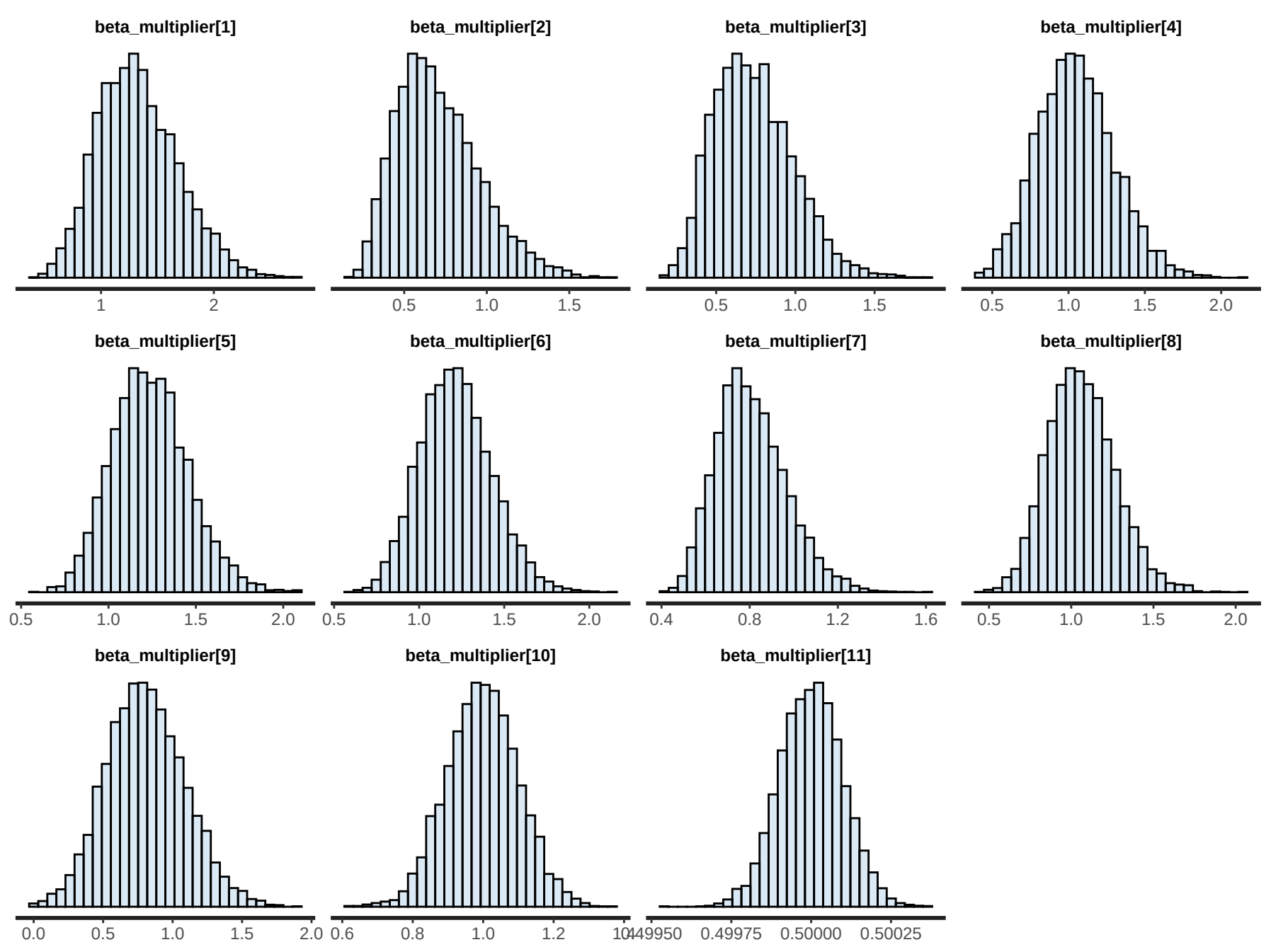

4
6
8
10
duration_hosp_mod

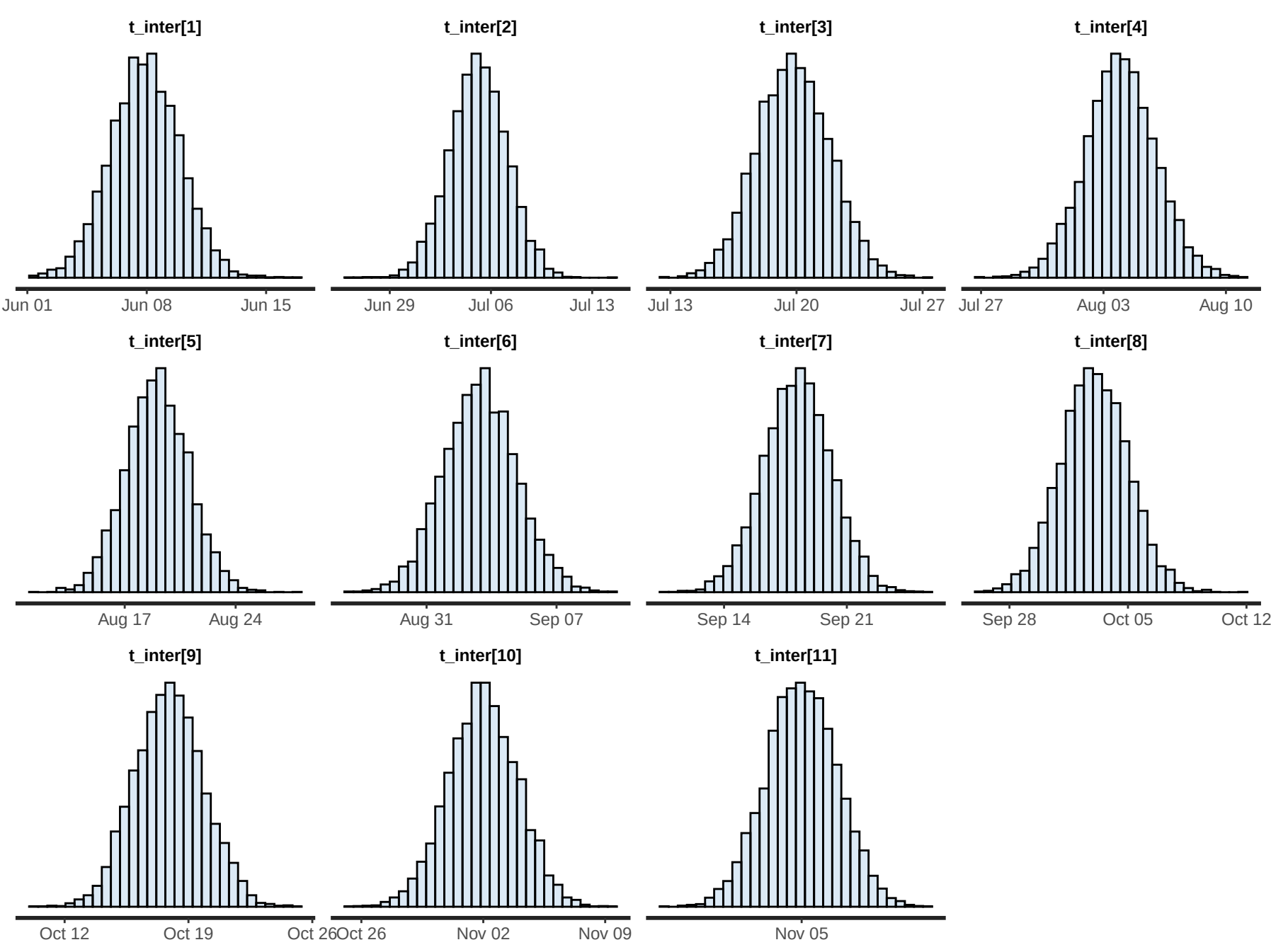

6
9
12
15
duration_hosp_icu

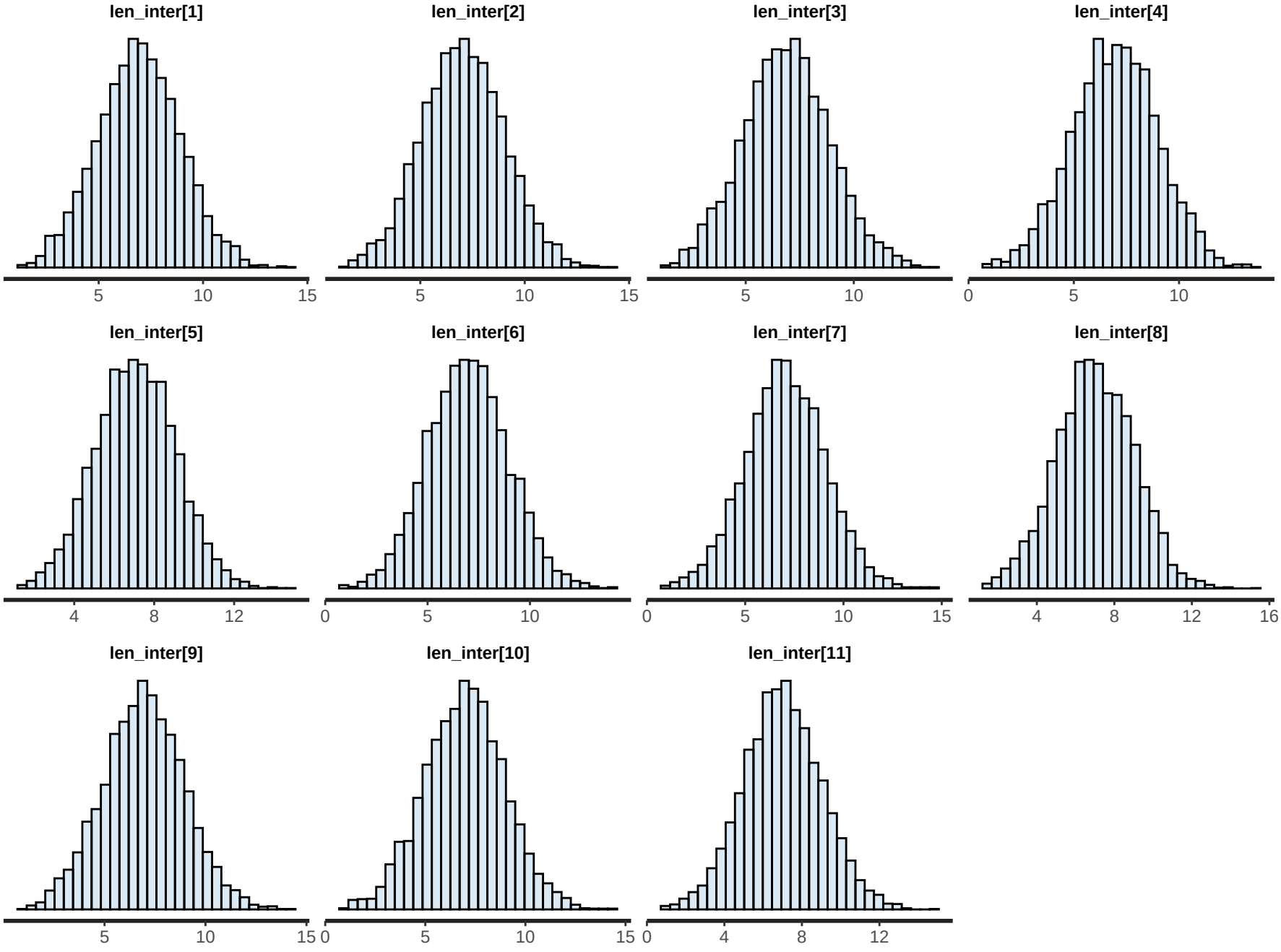

0.000
0.025
0.050
0.075
0.100
0.12
frac_hosp

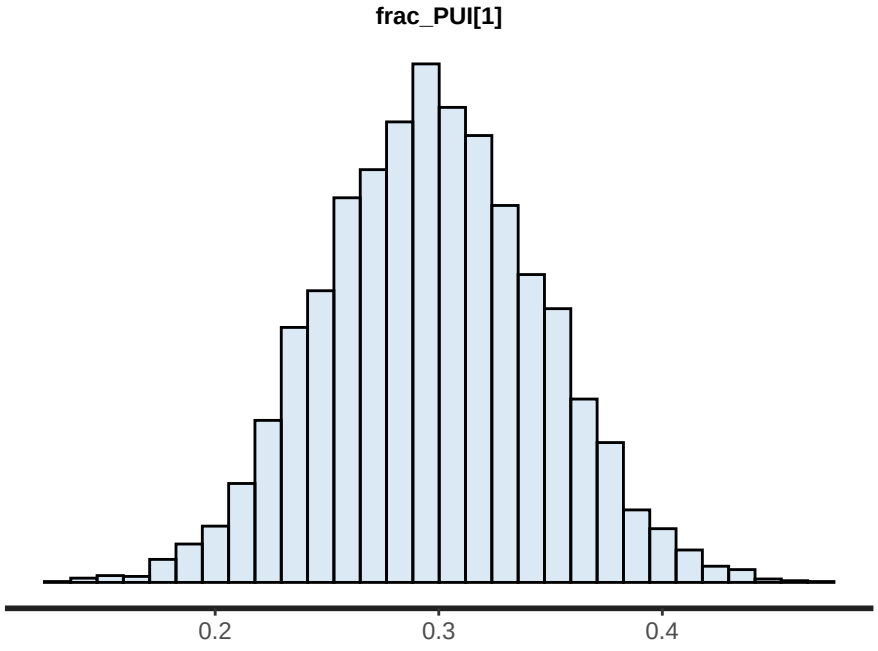

0.30
0.35
0.40
0.45
frac_icu

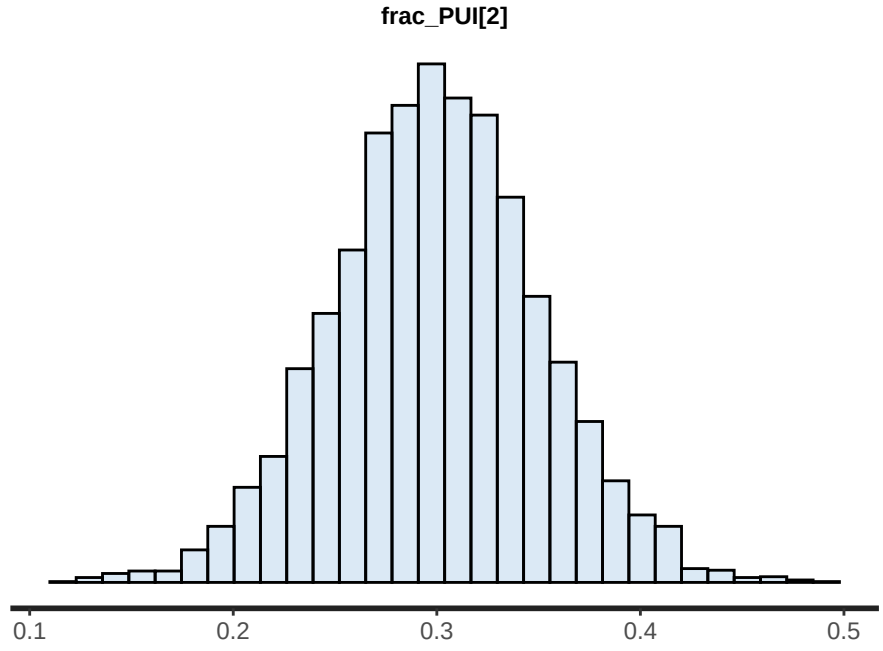

0.4
0.5
0.6
frac_mort

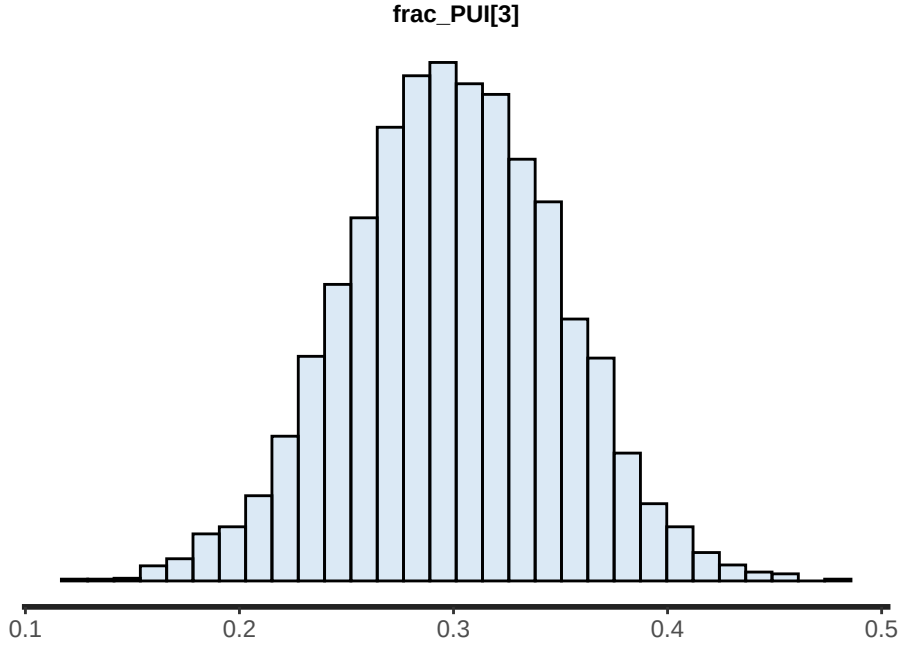

beta_multiplier[1]
1
2
beta_multiplier[2]
0.5
1.0
1.5
beta_multiplier[3]
0.5
1.0
1.5
beta_multiplier[4]
0.5
1.0
1.5
2.0
beta_multiplier[5]
0.5
1.0
1.5
2.0
beta_multiplier[6]
0.5
1.0
1.5
2.0
beta_multiplier[7]
0.4
0.8
1.2
1.6
beta_multiplier[8]
0.5
1.0
1.5
2.0
beta_multiplier[9]
0.0
0.5
1.0
1.5
2.0
beta_multiplier[10]
0.6
0.8
1.0
1.2
beta_multiplier[11]
0.49950
0.49975
0.50000
0.50025

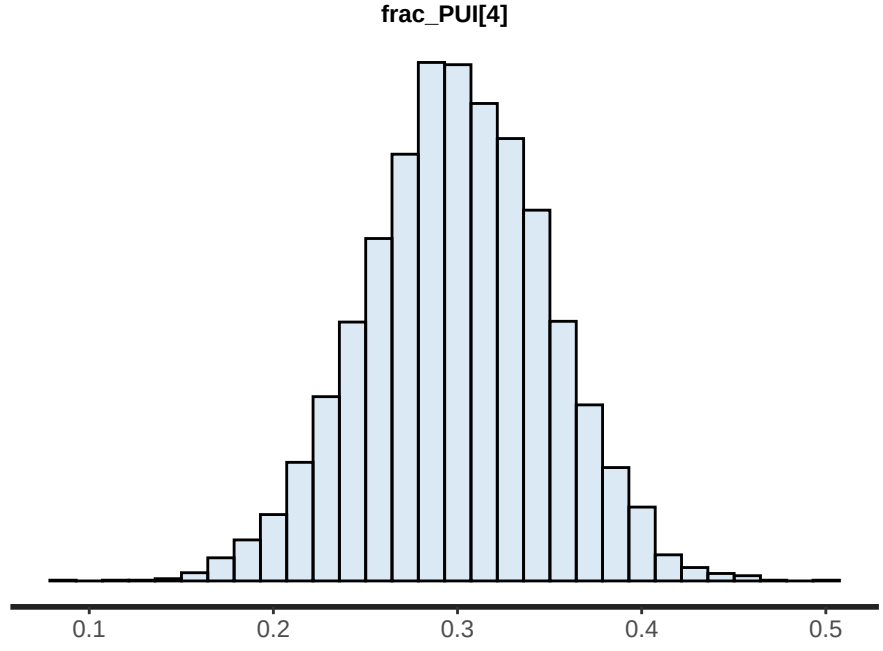

t_inter[1]
Jun 01
Jun 08
Jun 15
t_inter[2]
Jun 29
Jul 06
Jul 13
t_inter[3]
Jul 13
Jul 20
Jul 27
t_inter[4]
Jul 27
Aug 03
Aug 10
t_inter[5]
Aug 17
Aug 24
t_inter[6]
Aug 31
Sep 07
t_inter[7]
Sep 14
Sep 21
t_inter[8]
Sep 28
Oct 05
Oct 12
t_inter[9]
Oct 12
Oct 19
Oct 26
t_inter[10]
Oct 26
Nov 02
Nov 09
t_inter[11]
Nov 05

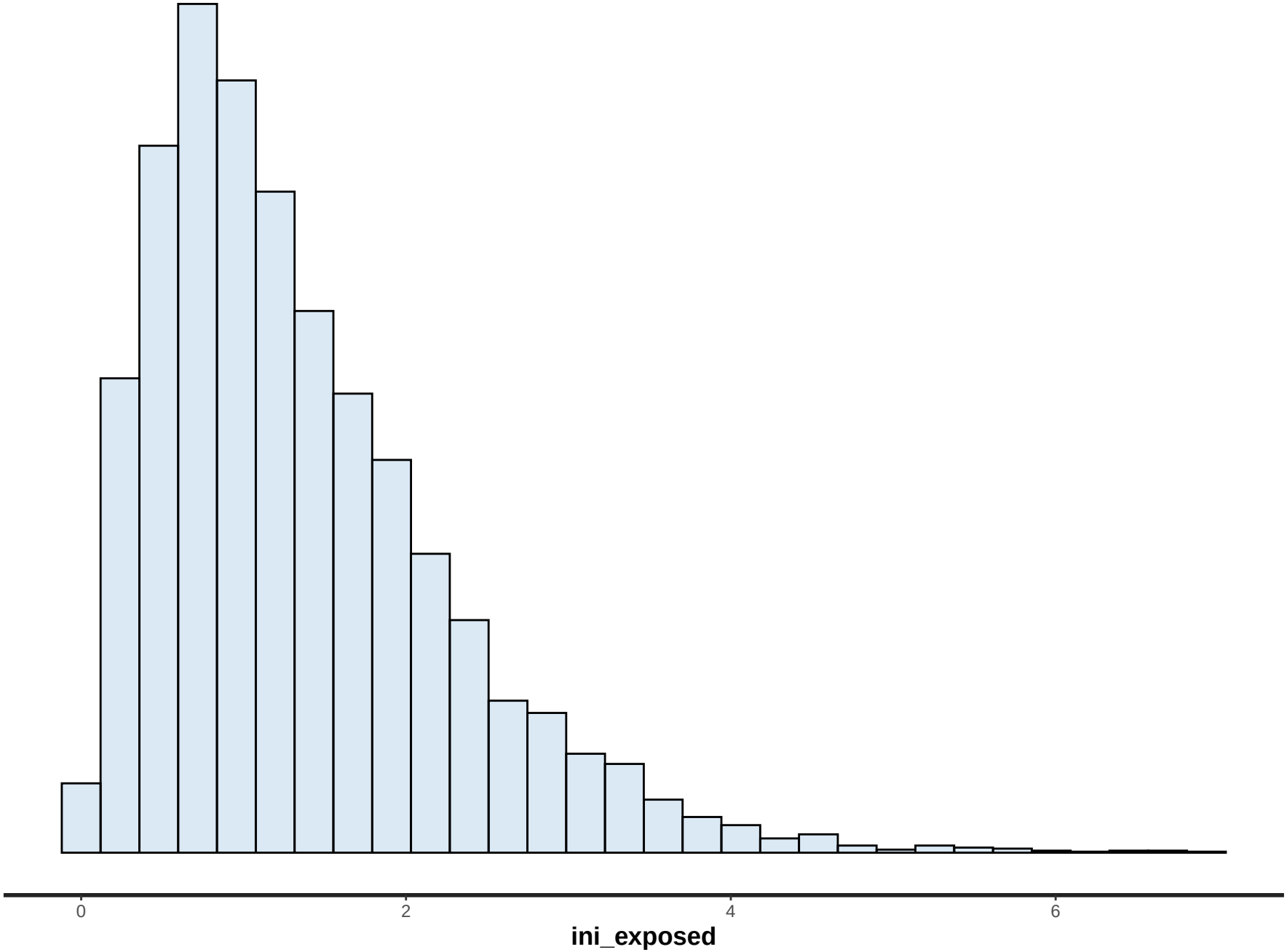

len_inter[1]
5
10
15
len_inter[2]
5
10
15
len_inter[3]
5
10
len_inter[4]
0
5
10
len_inter[5]
4
8
12
len_inter[6]
0
5
10
len_inter[7]
0
5
10
15
len_inter[8]
4
8
12
16
len_inter[9]
5
10
15
len_inter[10]
0
5
10
15
len_inter[11]
0
4
8
12

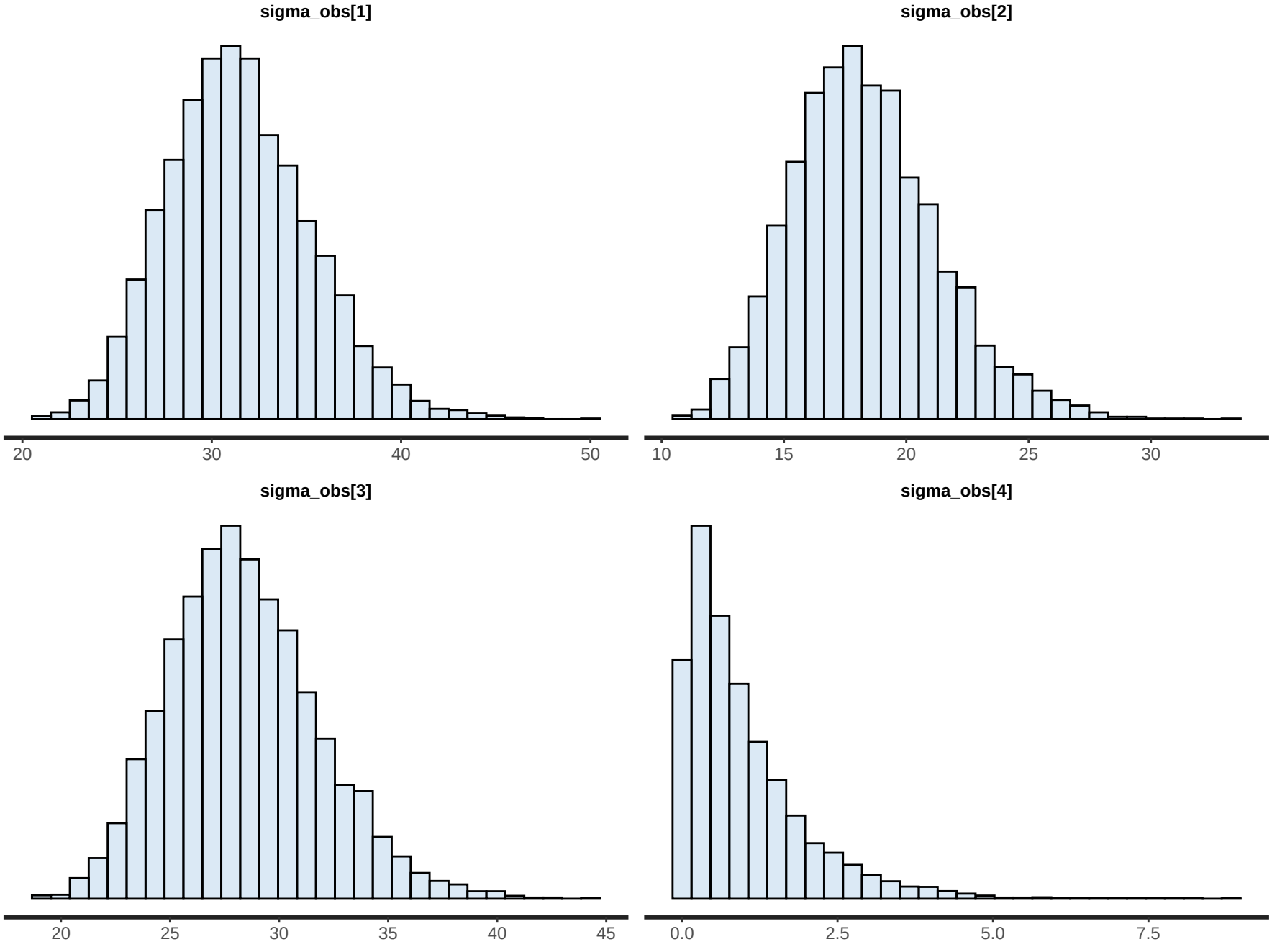

frac_PUI[1]
0.2
0.3
0.4


frac_PUI[2]
0.1
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
2
4
6
ini_exposed


sigma_obs[1]
20
30
40
50
sigma_obs[2]
10
15
20
25
30
sigma_obs[3]
20
25
30
35
40
45
sigma_obs[4]
0.0
2.5
5.0
7.5