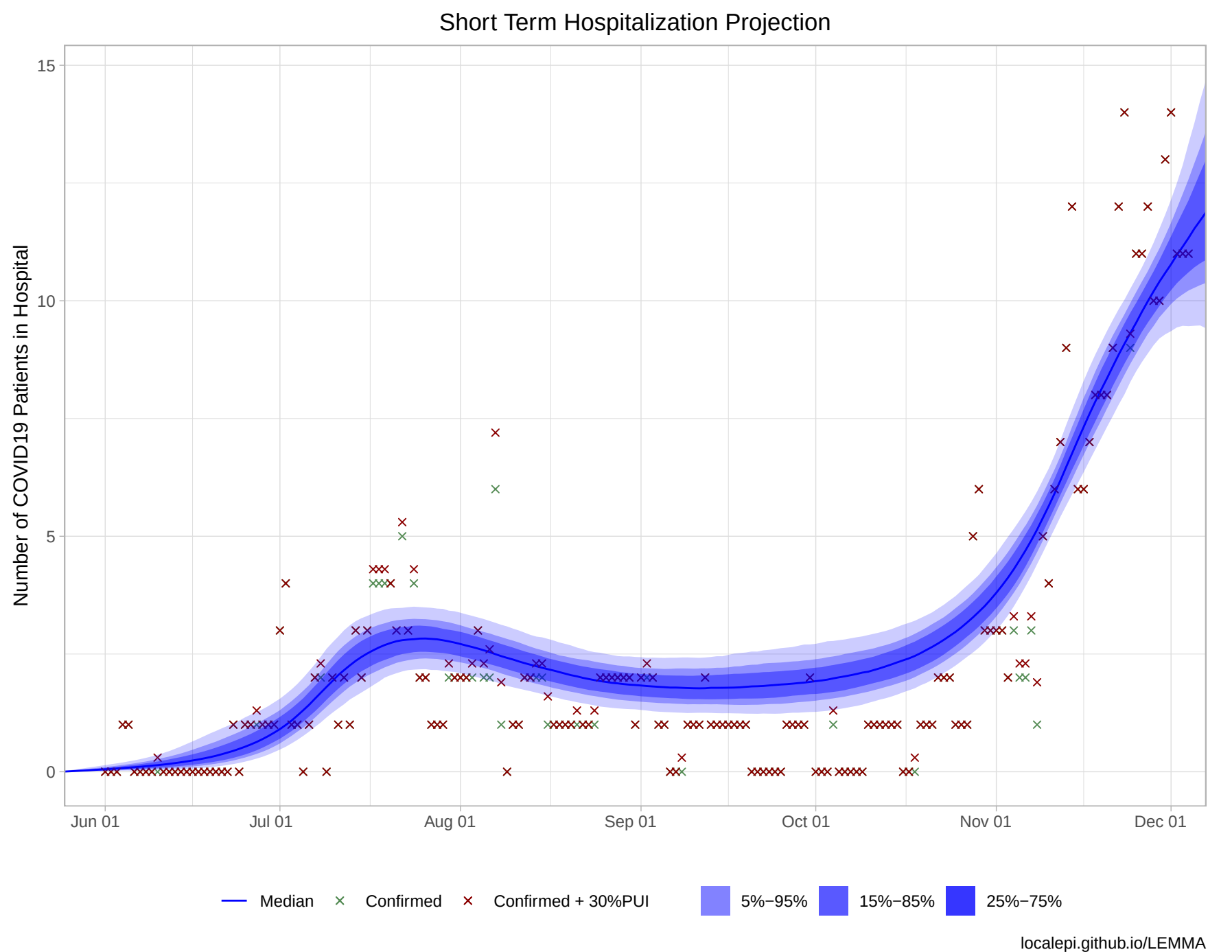
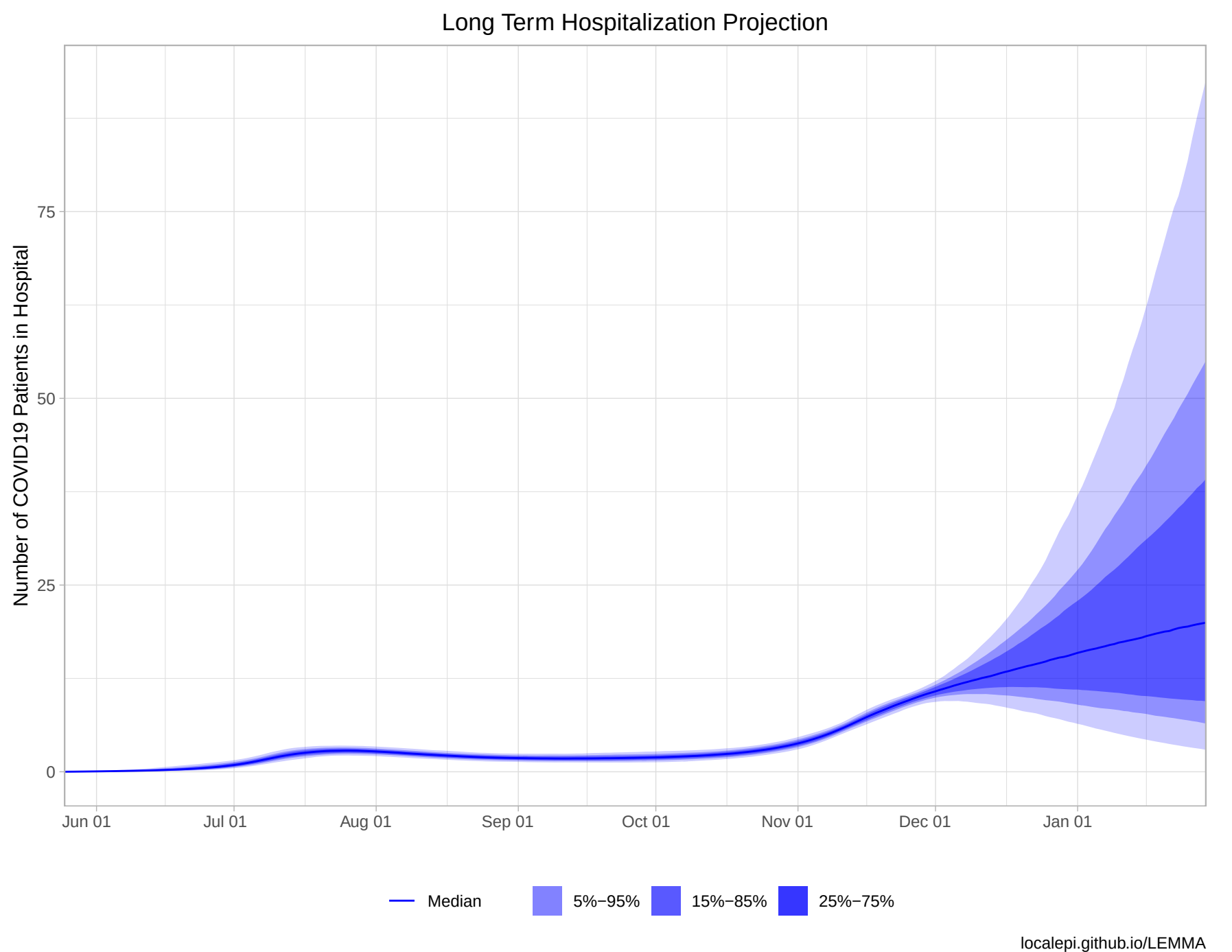
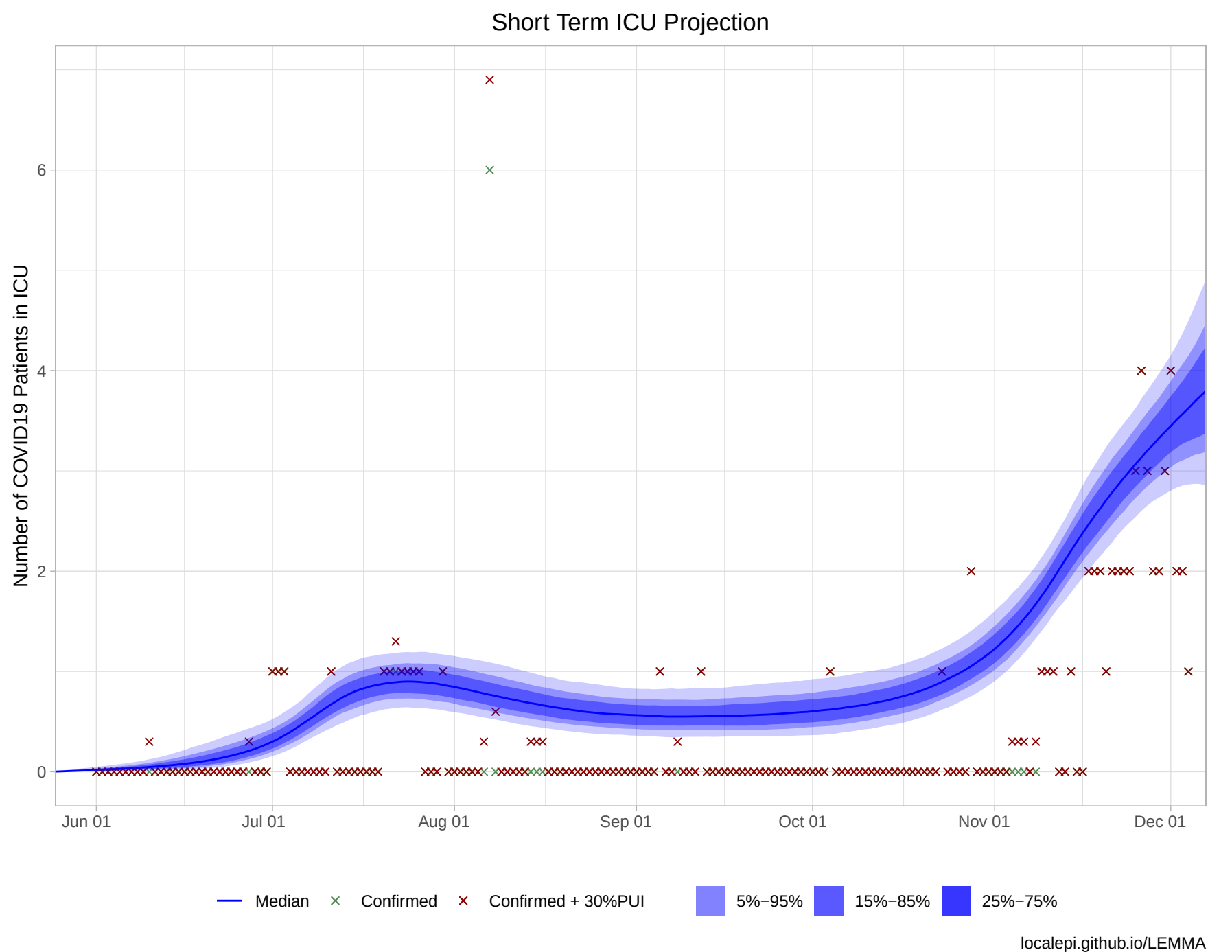
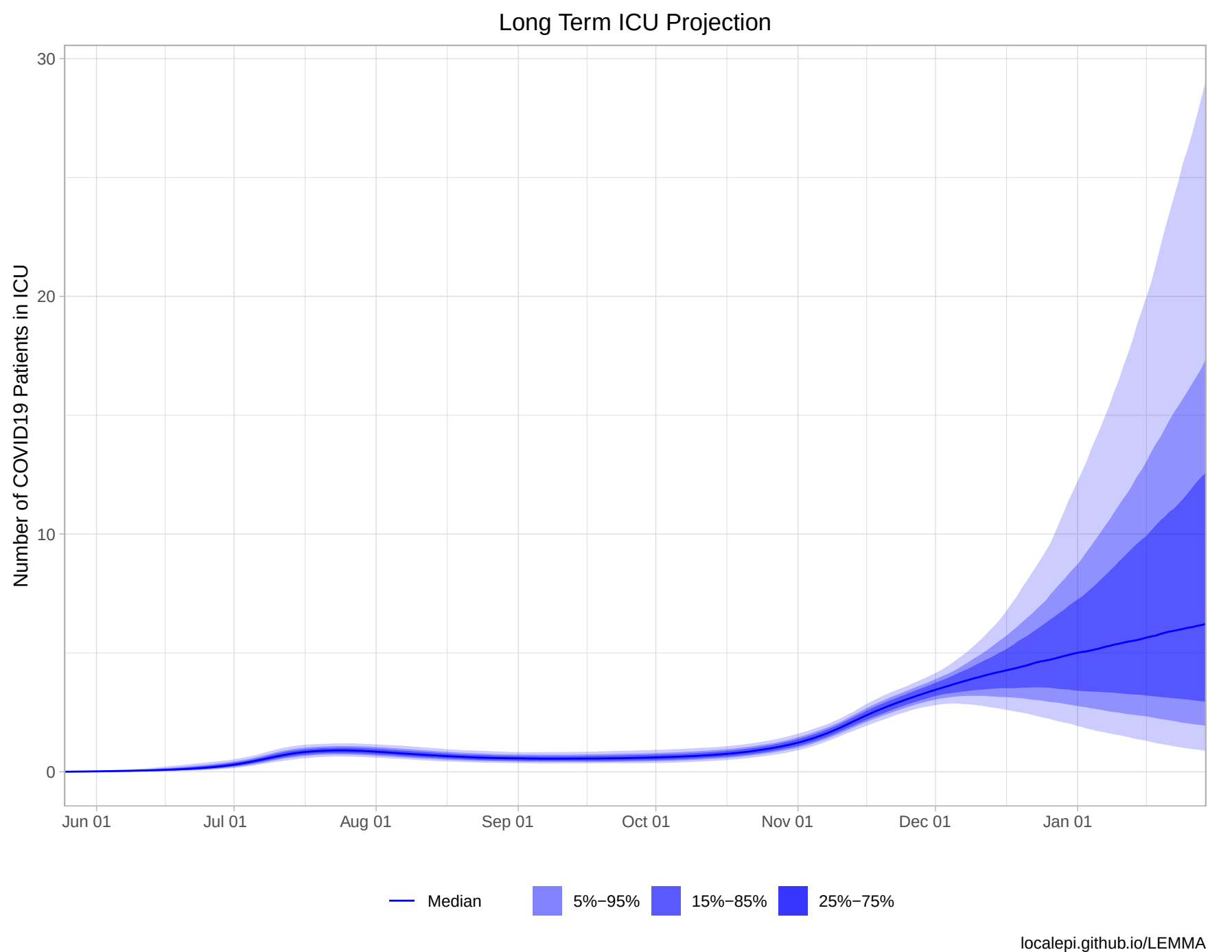
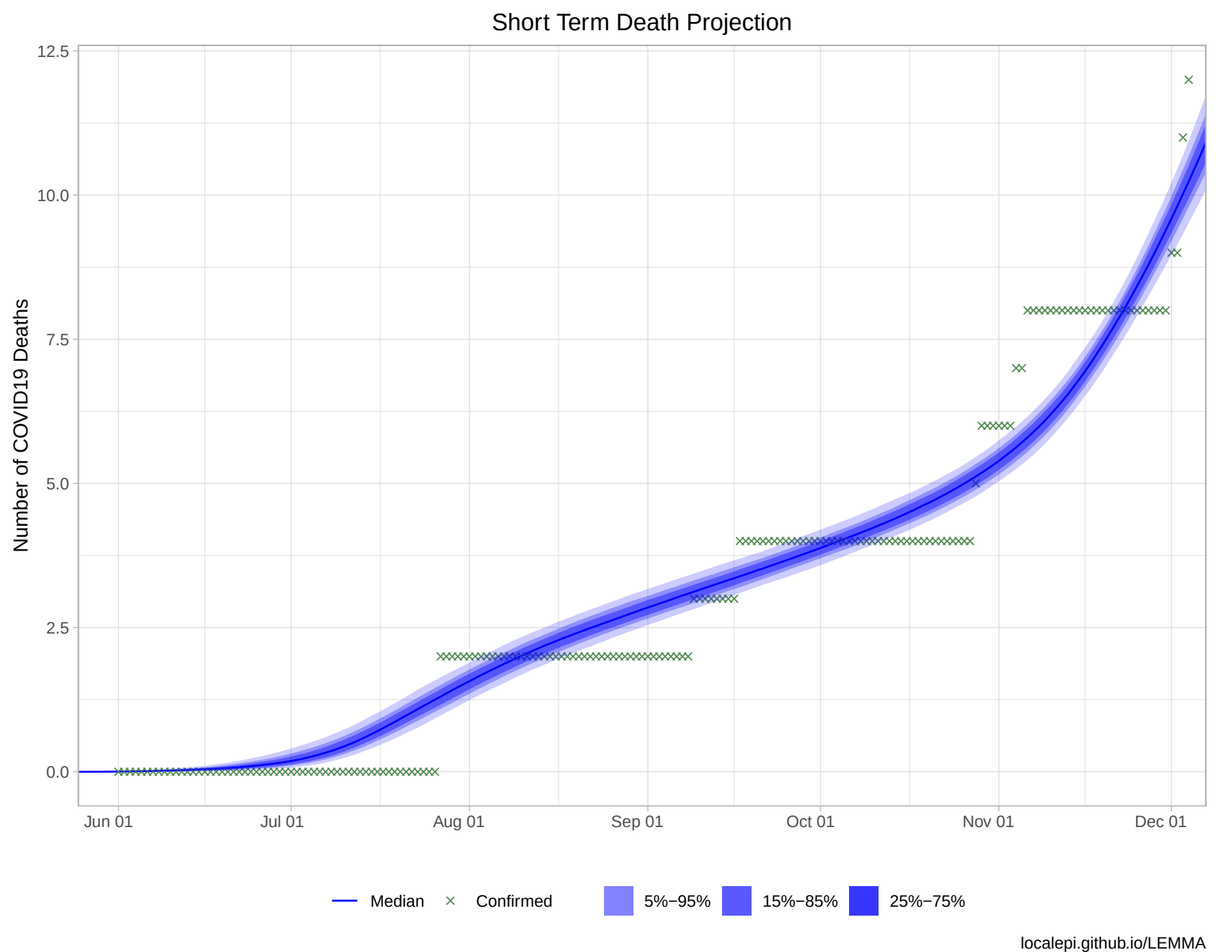
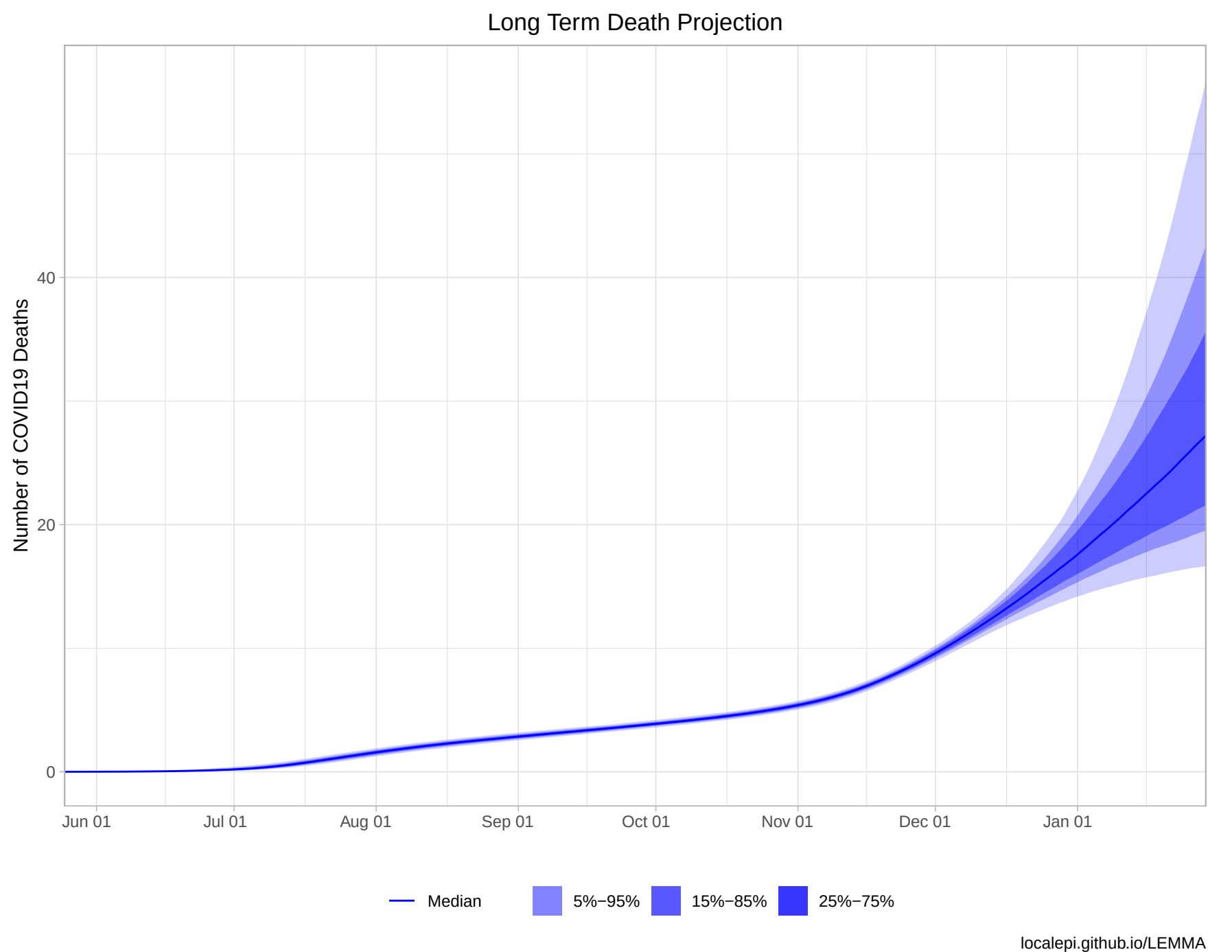

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
15
10
5
0
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

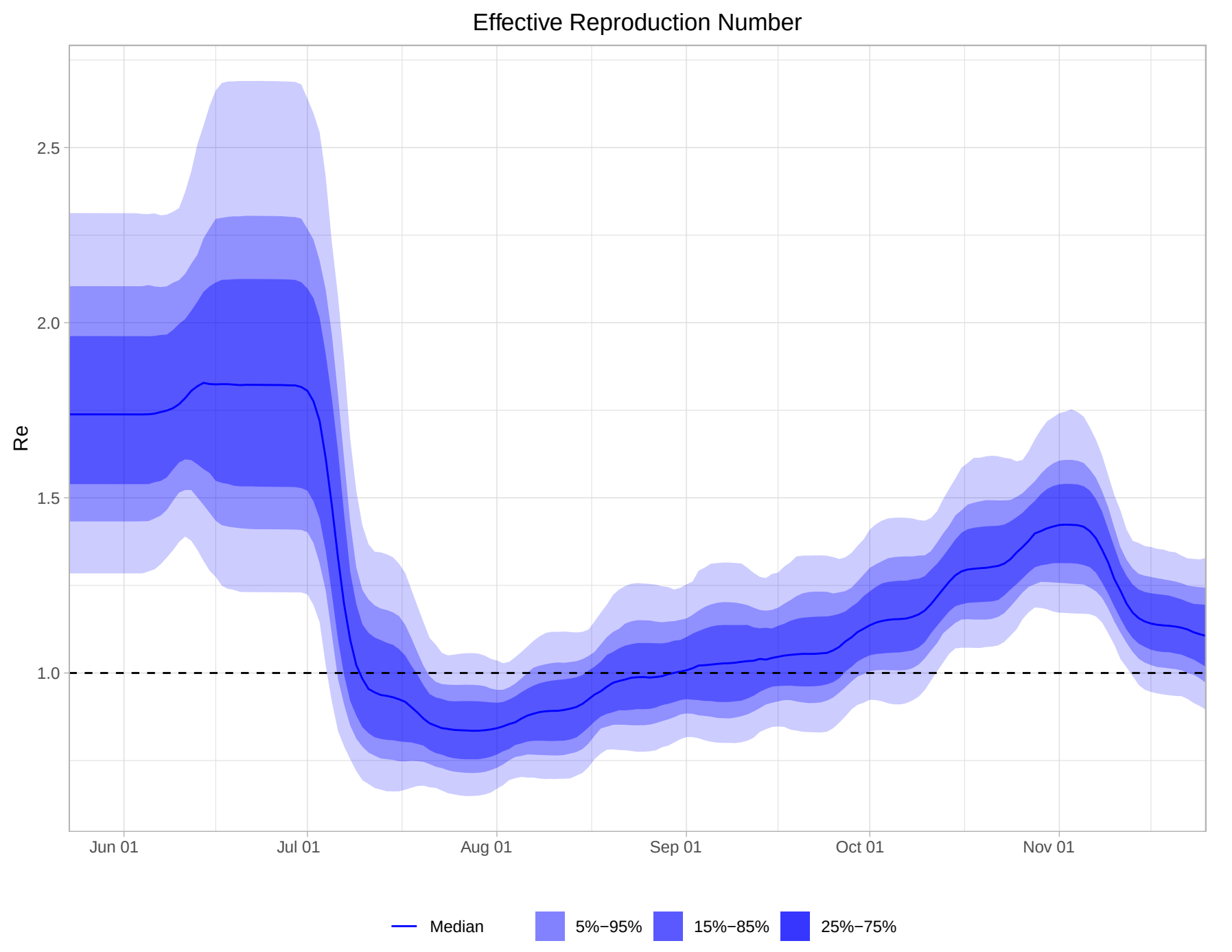

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
75
50
25
0
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


Short Term ICU Projection
Number of COVID19 Patients in ICU
0
2
4
6
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 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
30
20
10
0
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

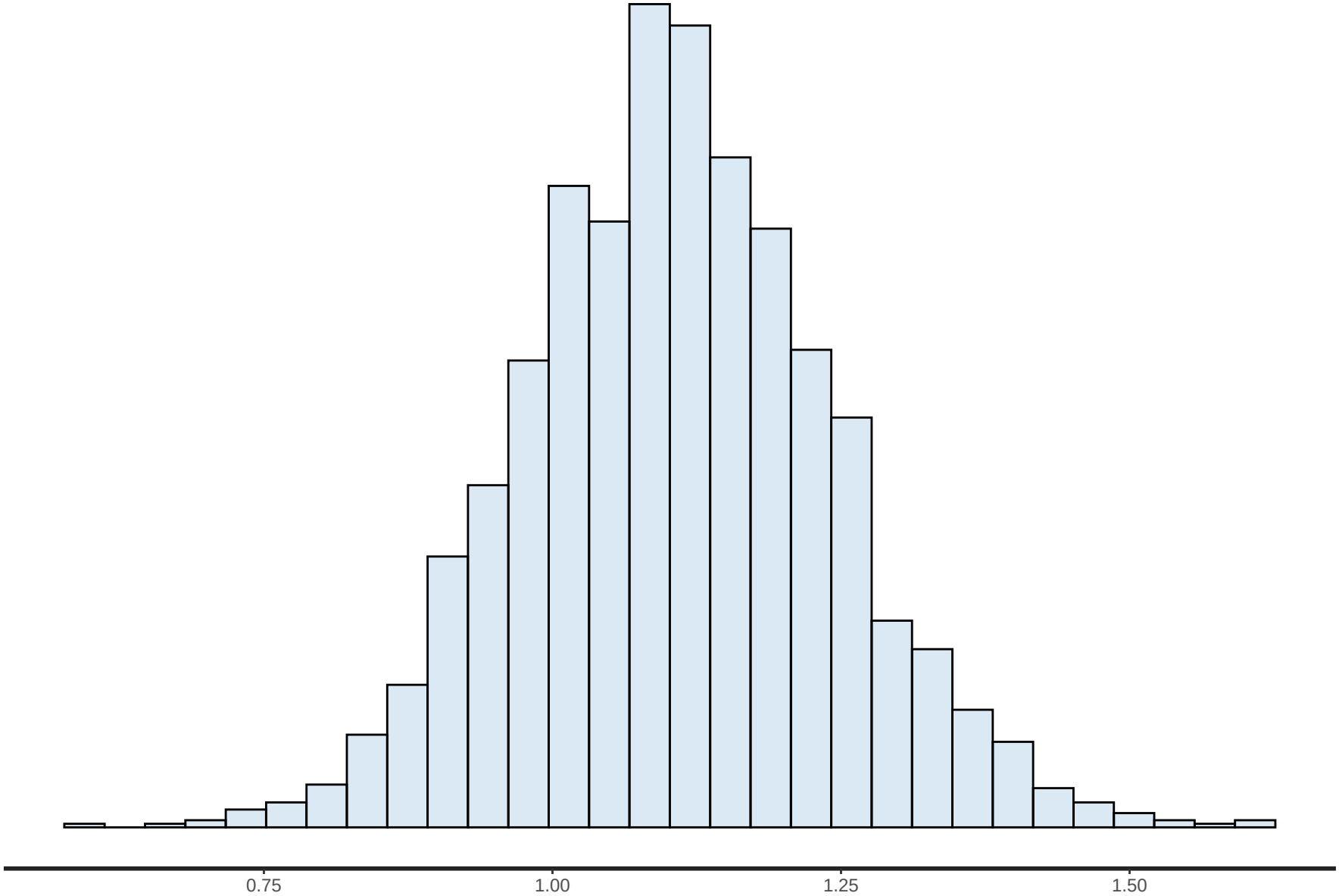

Short Term Death Projection
Number of COVID19 Deaths
12.5
10.0
7.5
5.0
2.5
0.0
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

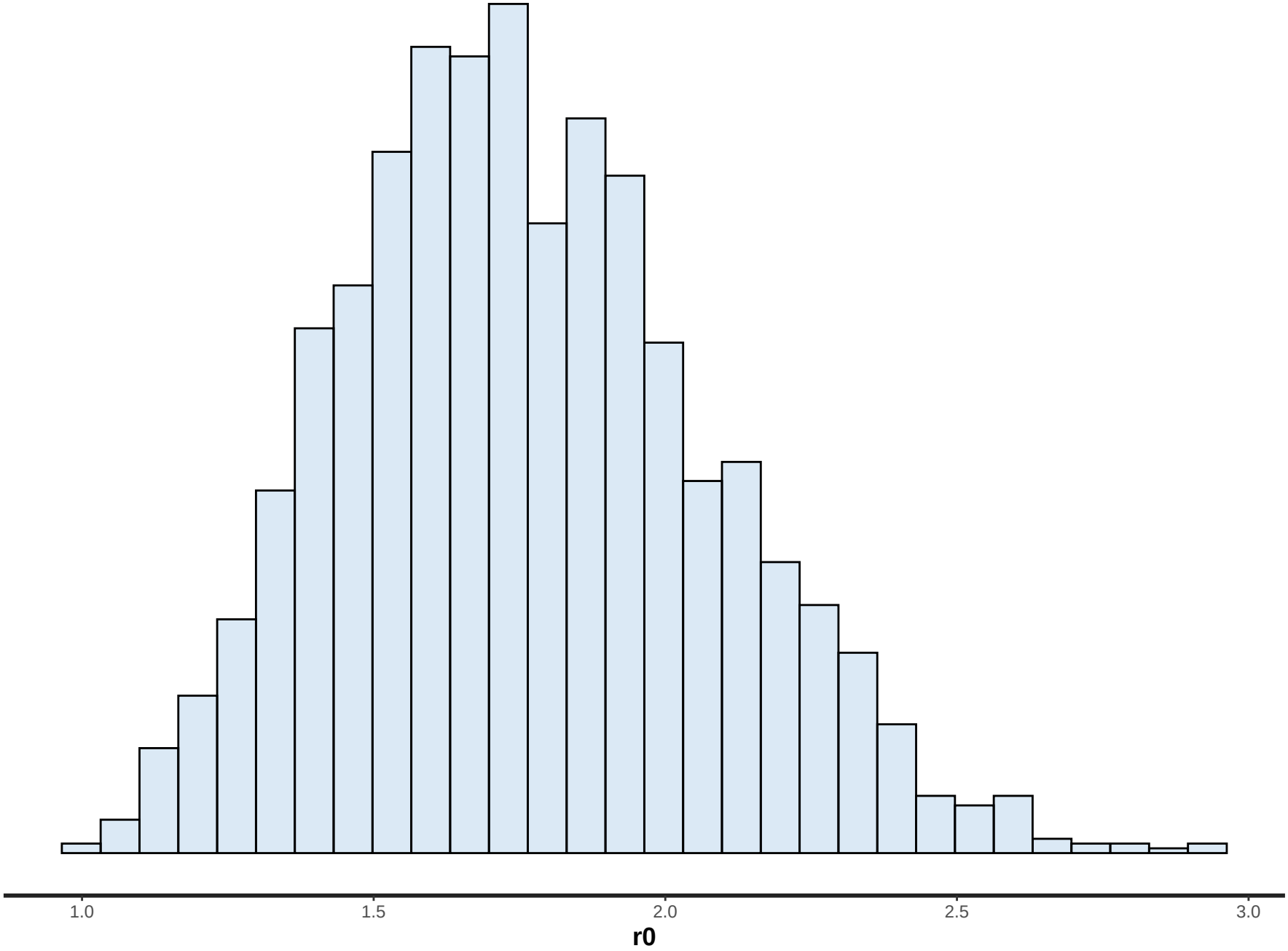

Long Term Death Projection
Number of COVID19 Deaths
0
20
40
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

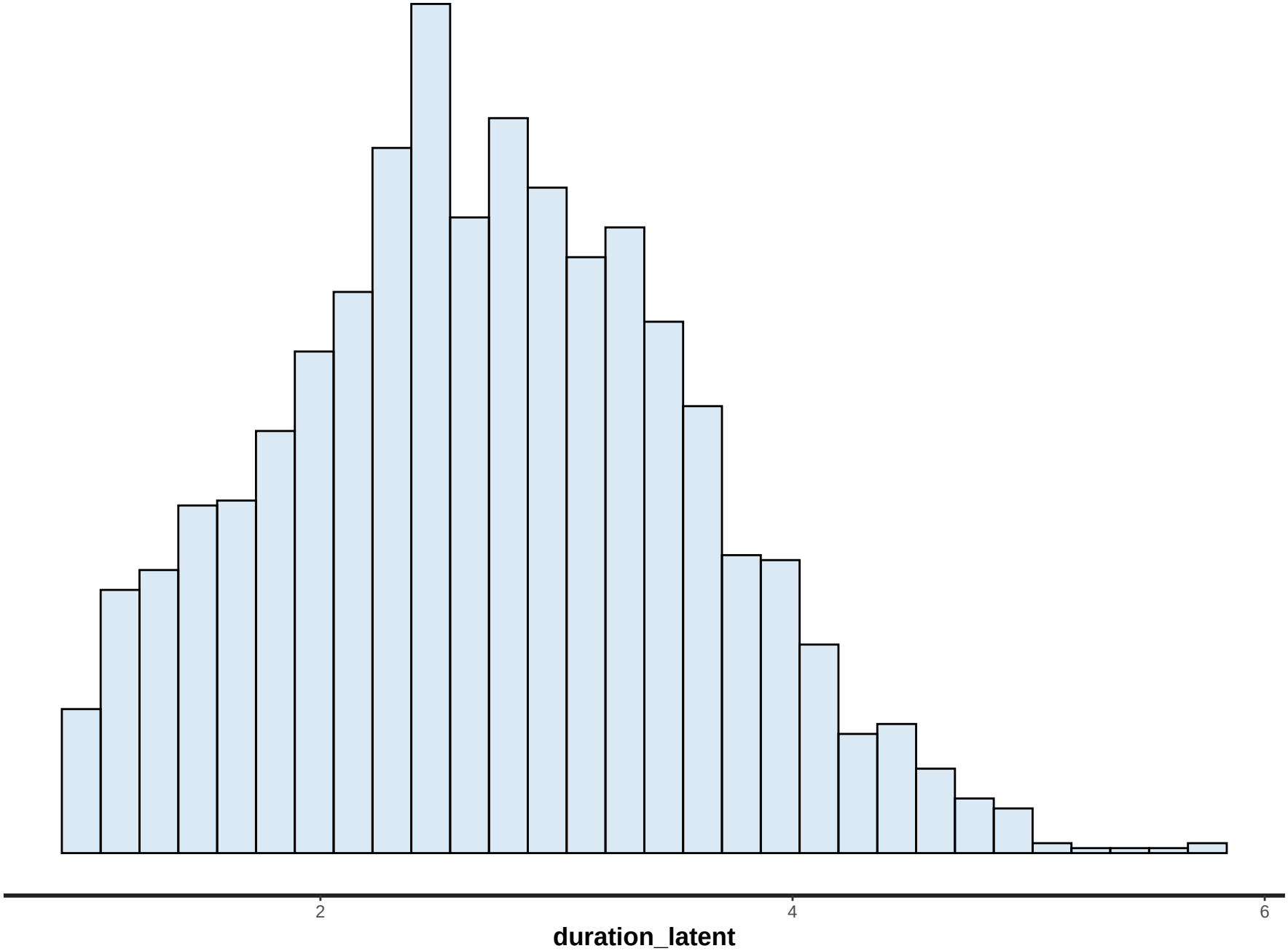

Effective Reproduction Number
Re
2.5
2.0
1.5
1.0
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Median
5%−95%
15%−85%
25%−75%

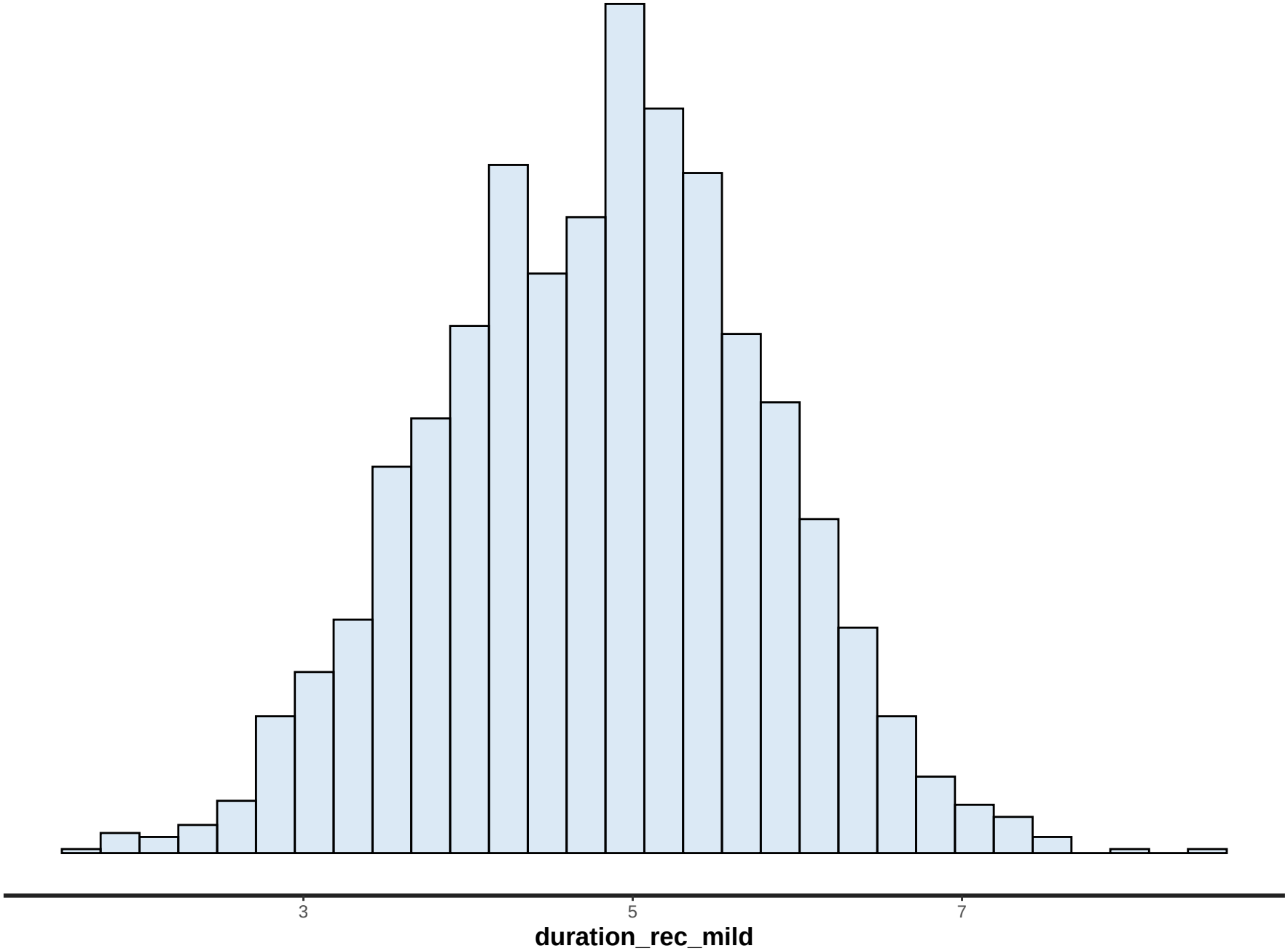
Rt as of 2020−11−25

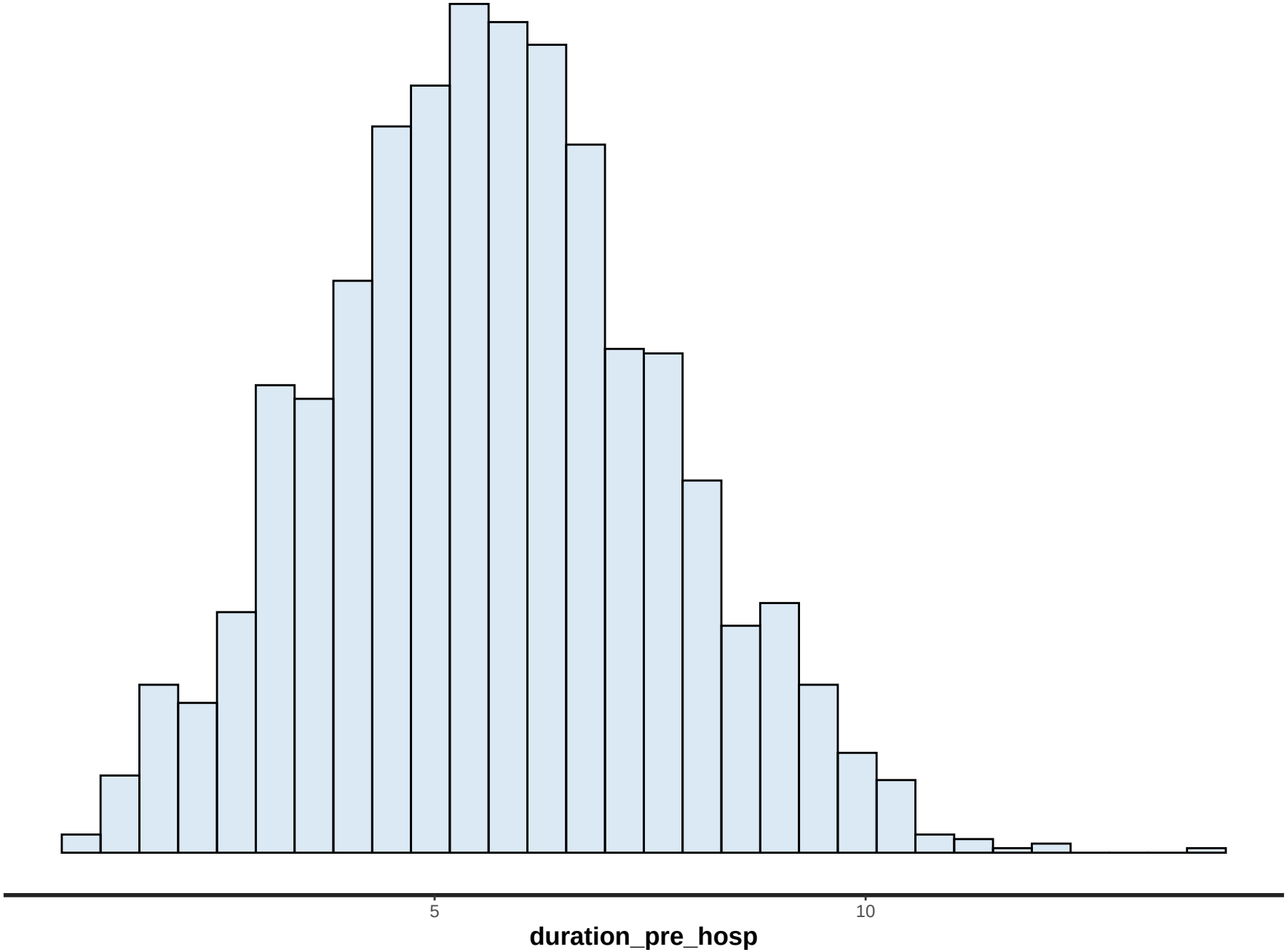
5%	10%	25%	50%	75%	90%	95%
0.89	0.94	1.02	1.11	1.19	1.27	1.33

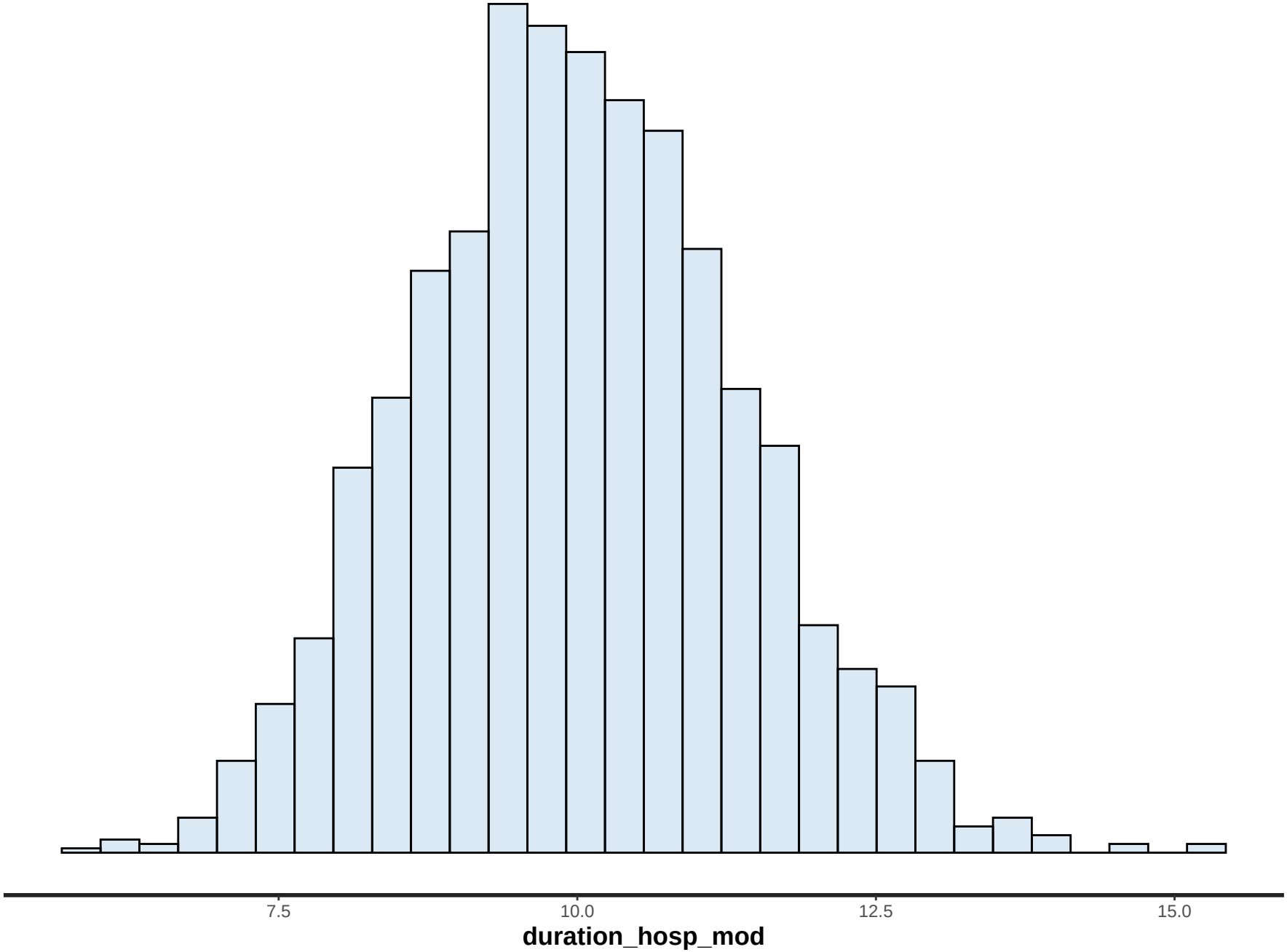


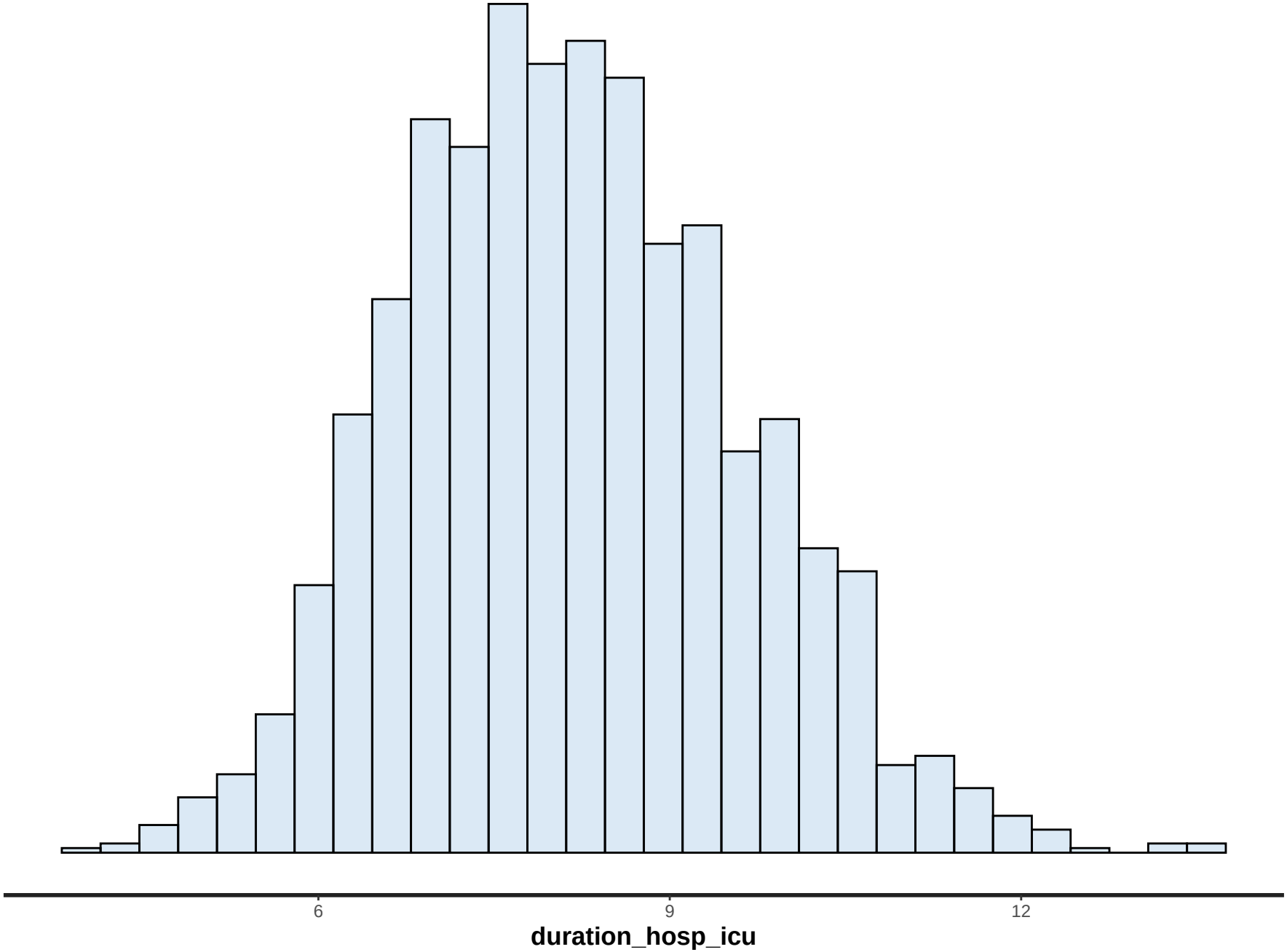

1.0
1.5
2.0
2.5
3.0
r0

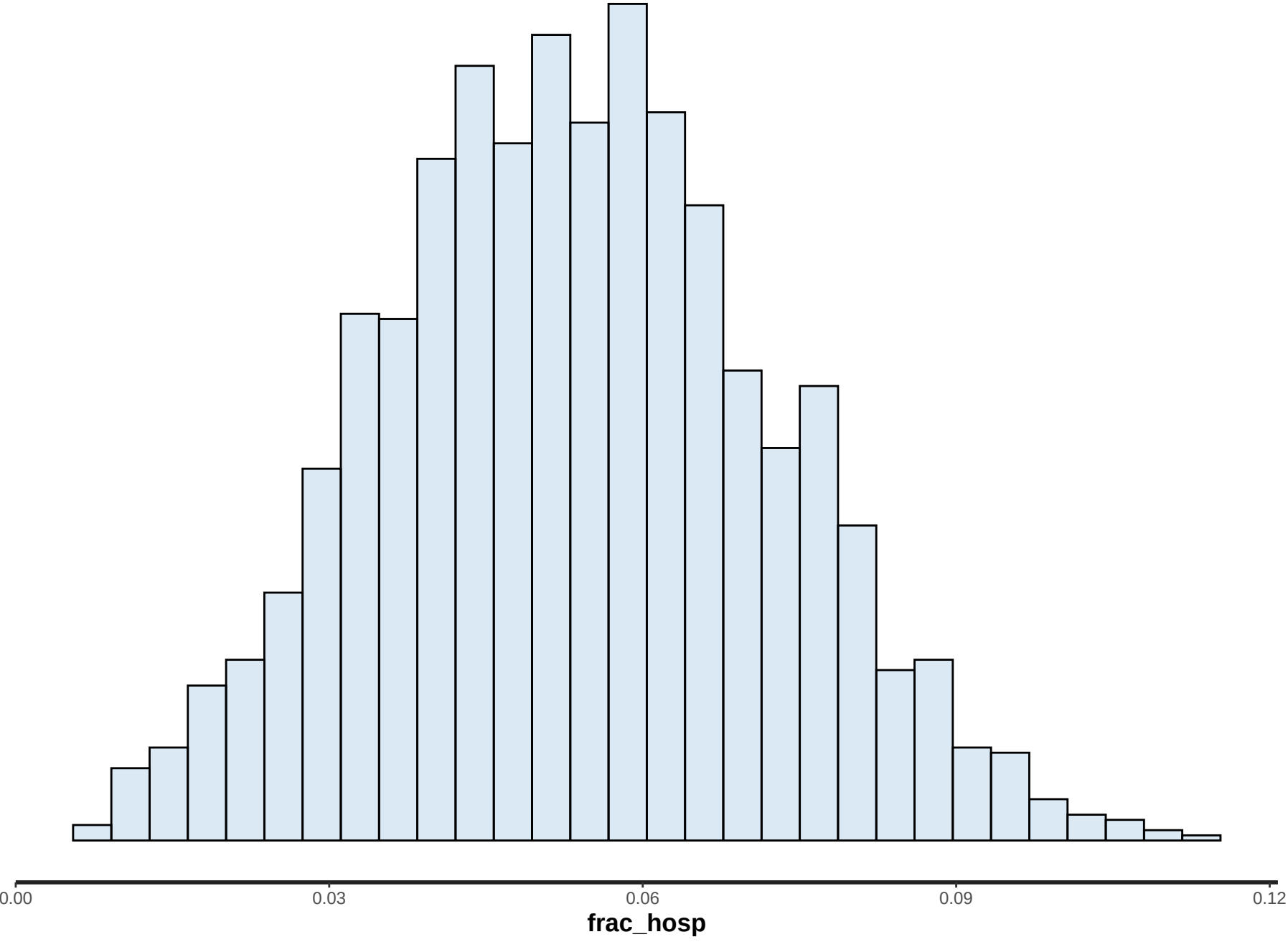

2
4
6
duration_latent

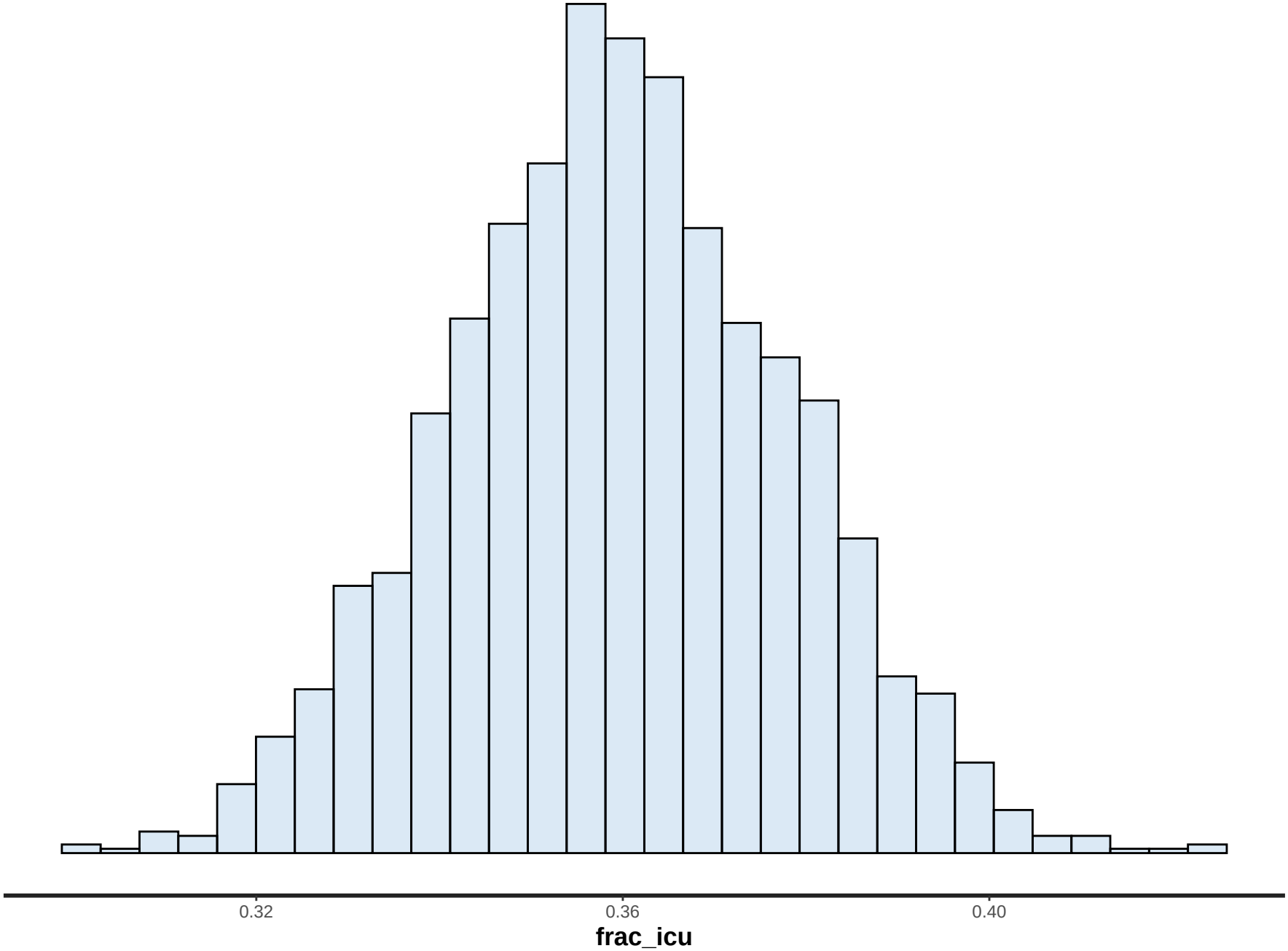

3
5
7
duration_rec_mild

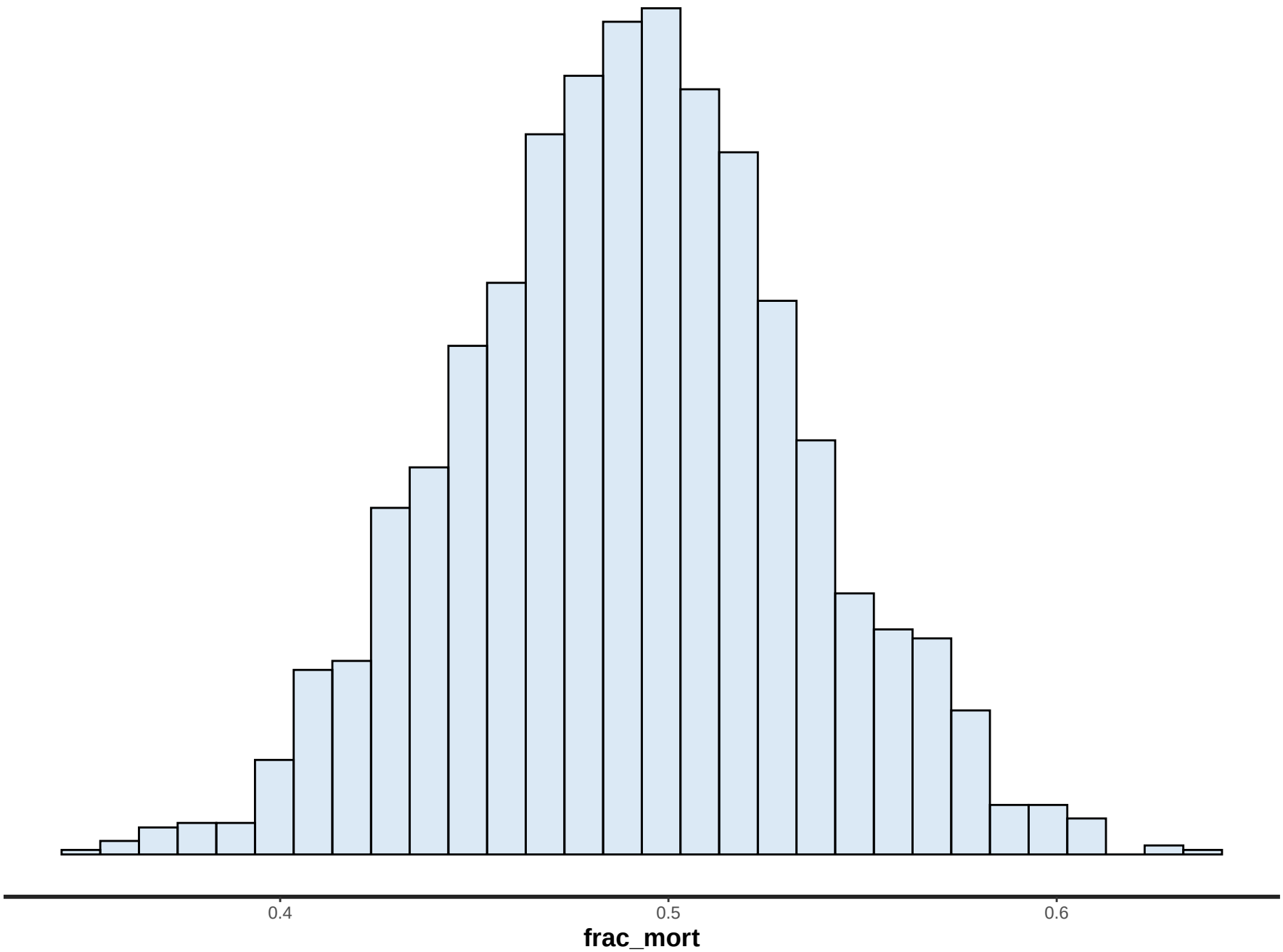

5
10
duration_pre_hosp

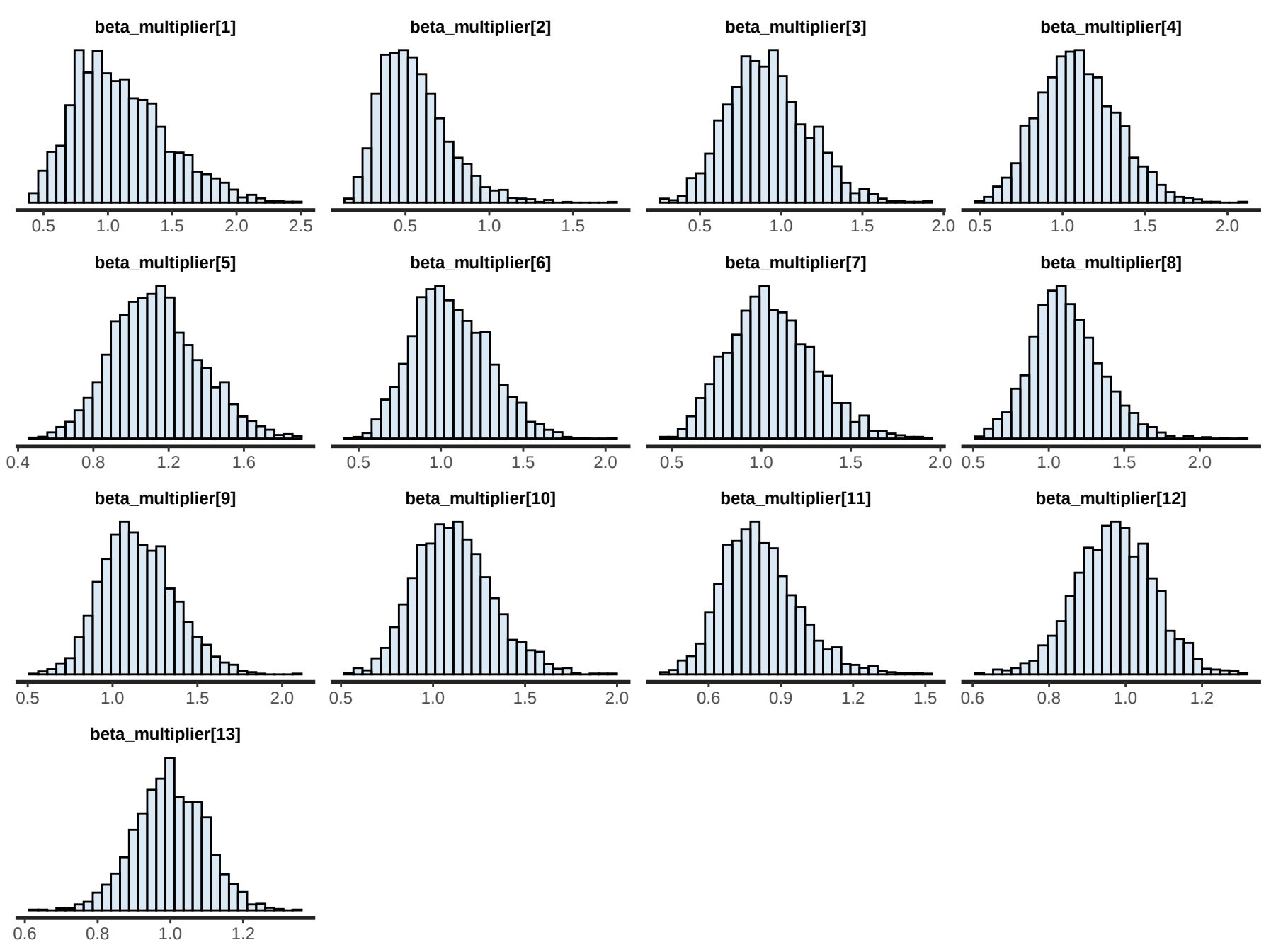

7.5
10.0
12.5
15.0
duration_hosp_mod

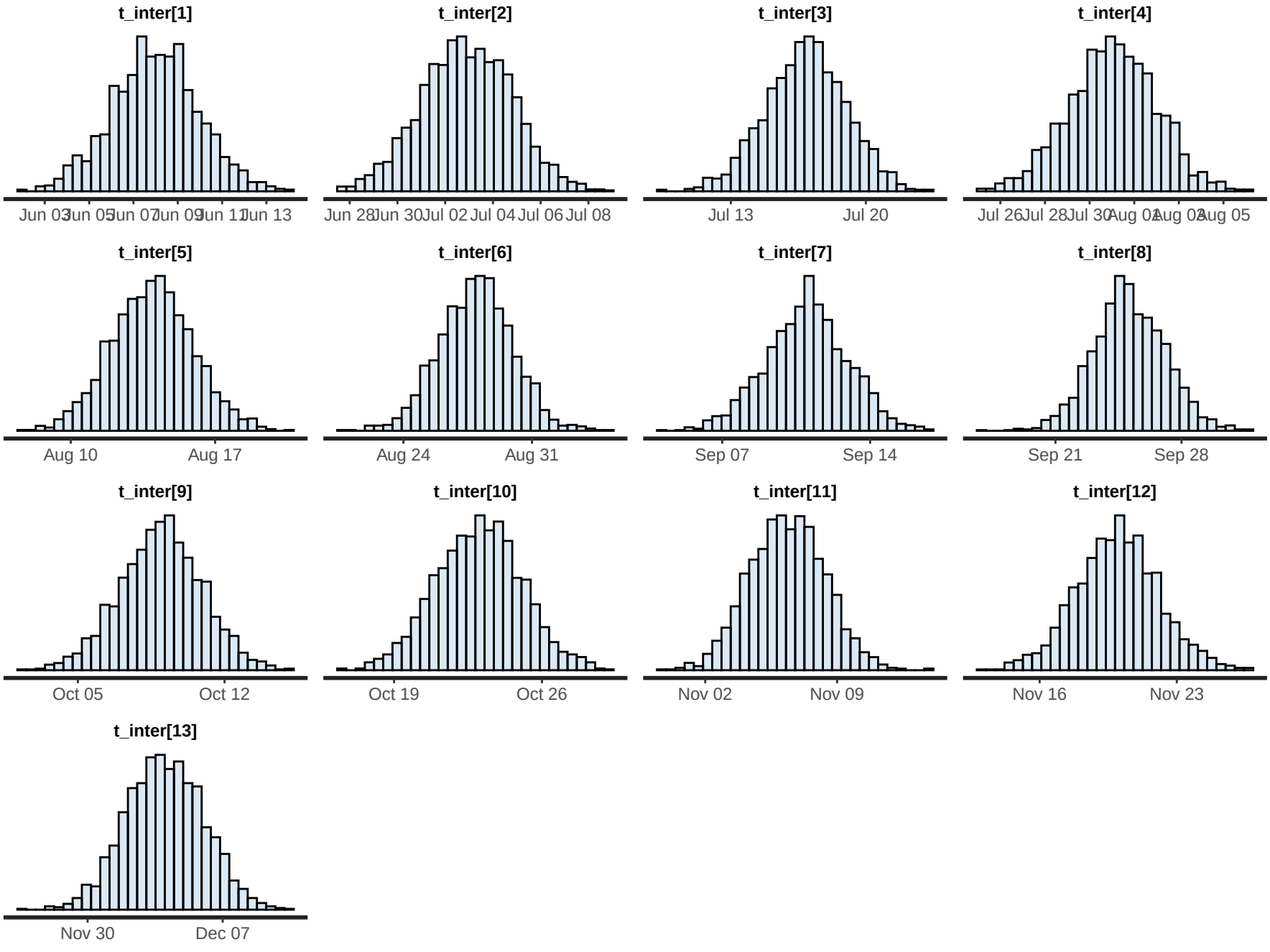

6
9
12
duration_hosp_icu

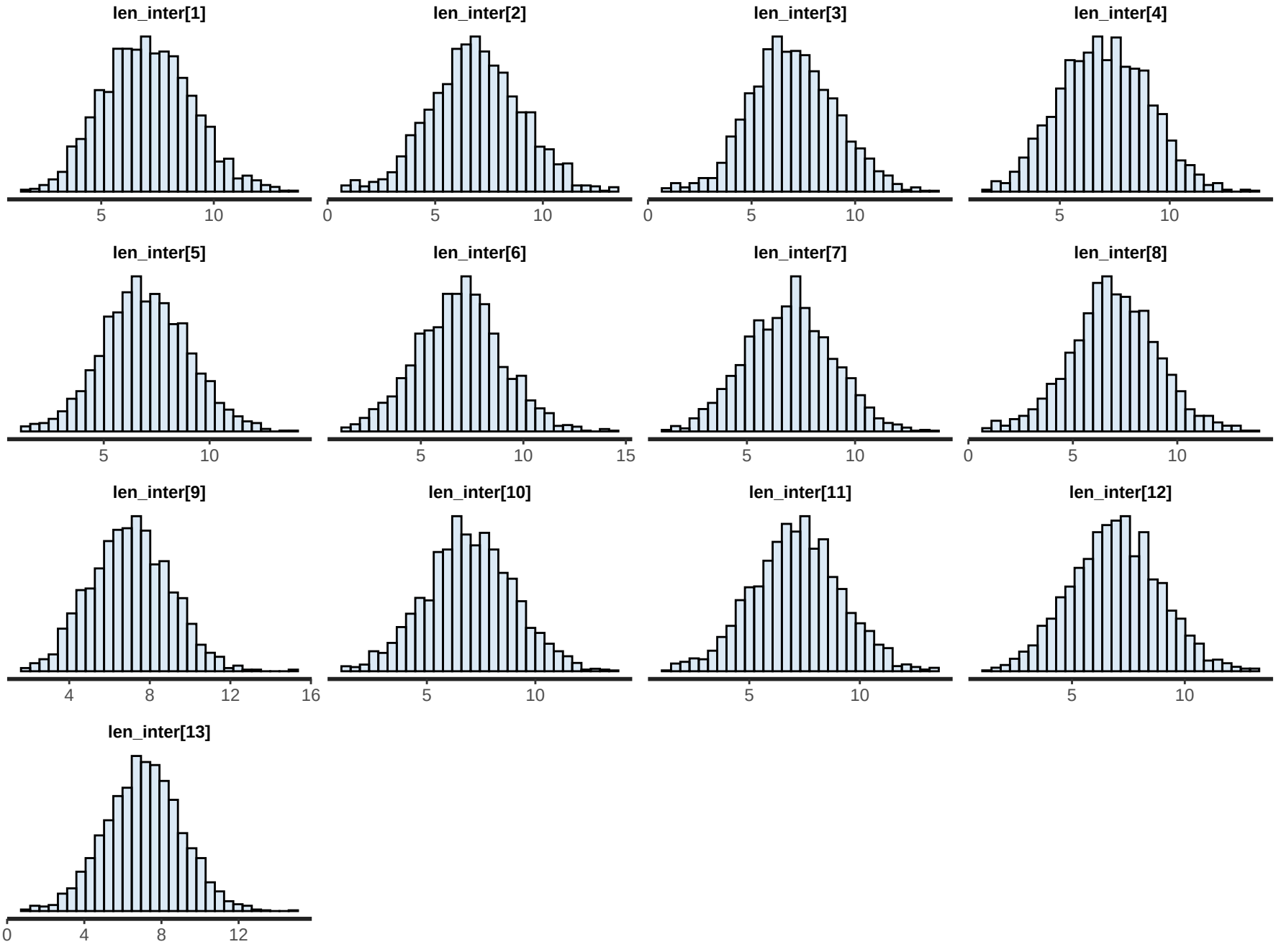

0.00
0.03
0.06
0.09
0.12
frac_hosp

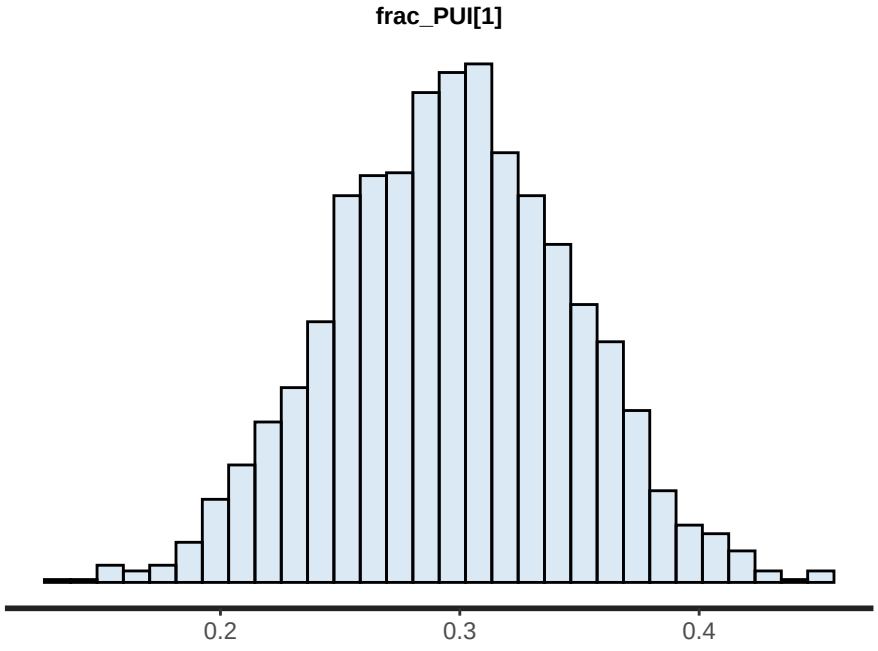

0.32
0.36
0.40
frac_icu

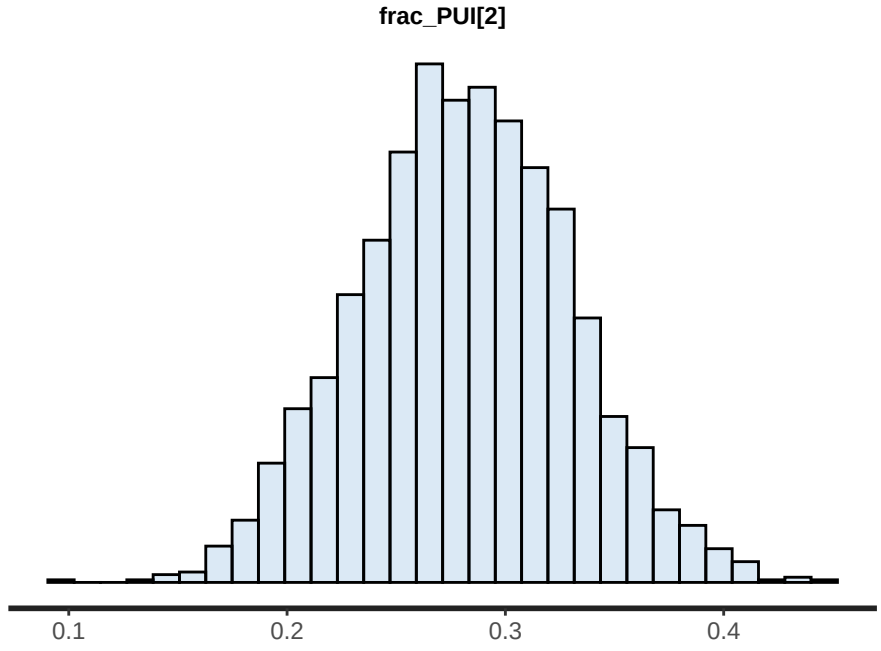

0.4
0.5
0.6
frac_mort

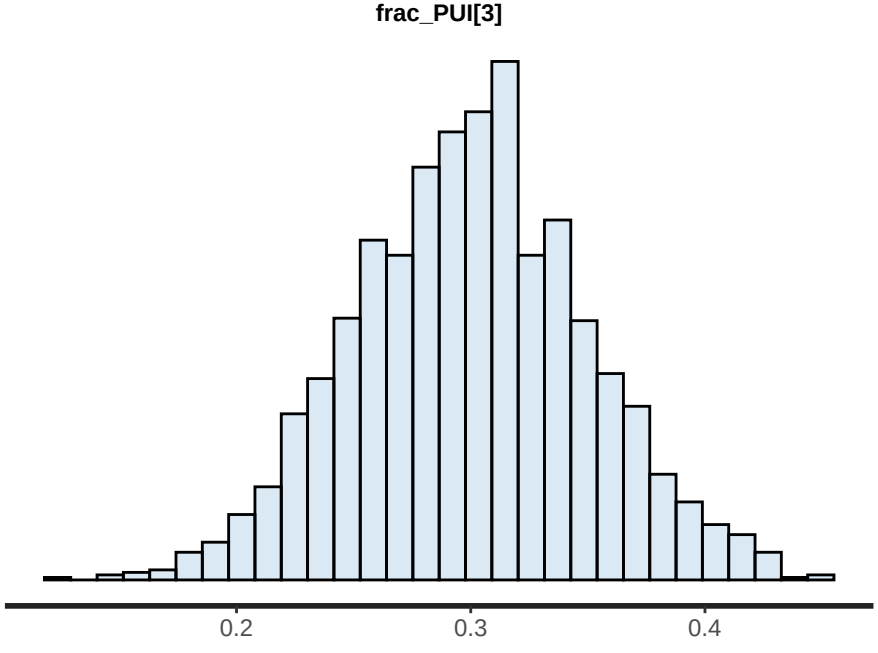

beta_multiplier[1]
0.5 1.0 1.5 2.0 2.5
beta_multiplier[2]
0.5 1.0 1.5
beta_multiplier[3]
0.5 1.0 1.5 2.0
beta_multiplier[4]
0.5 1.0 1.5 2.0
beta_multiplier[5]
0.4 0.8 1.2 1.6
beta_multiplier[6]
0.5 1.0 1.5 2.0
beta_multiplier[7]
0.5 1.0 1.5 2.0
beta_multiplier[8]
0.5 1.0 1.5 2.0
beta_multiplier[9]
0.5 1.0 1.5 2.0
beta_multiplier[10]
0.5 1.0 1.5 2.0
beta_multiplier[11]
0.6 0.9 1.2 1.5
beta_multiplier[12]
0.6 0.8 1.0 1.2
beta_multiplier[13]
0.6 0.8 1.0 1.2

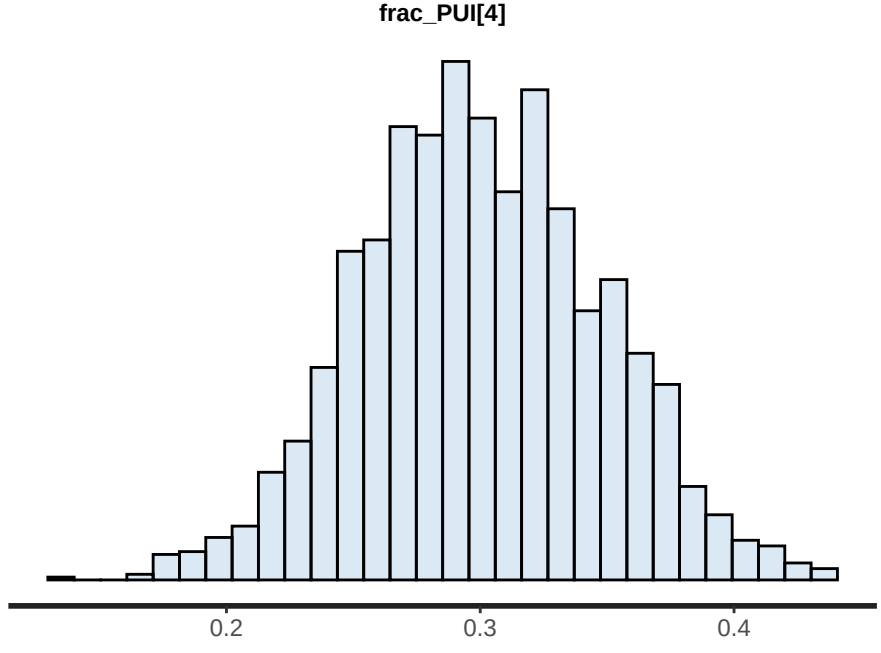

t_inter[1]
Jun 03
Jun 05
Jun 07
Jun 09
Jun 11
Jun 13
t_inter[2]
Jun 28
Jun 30
Jul 02
Jul 04
Jul 06
Jul 08
t_inter[3]
Jul 13
Jul 20
t_inter[4]
Jul 26
Jul 28
Jul 30
Aug 01
Aug 03
Aug 05
t_inter[5]
Aug 10
Aug 17
t_inter[6]
Aug 24
Aug 31
t_inter[7]
Sep 07
Sep 14
t_inter[8]
Sep 21
Sep 28
t_inter[9]
Oct 05
Oct 12
t_inter[10]
Oct 19
Oct 26
t_inter[11]
Nov 02
Nov 09
t_inter[12]
Nov 16
Nov 23
t_inter[13]
Nov 30
Dec 07

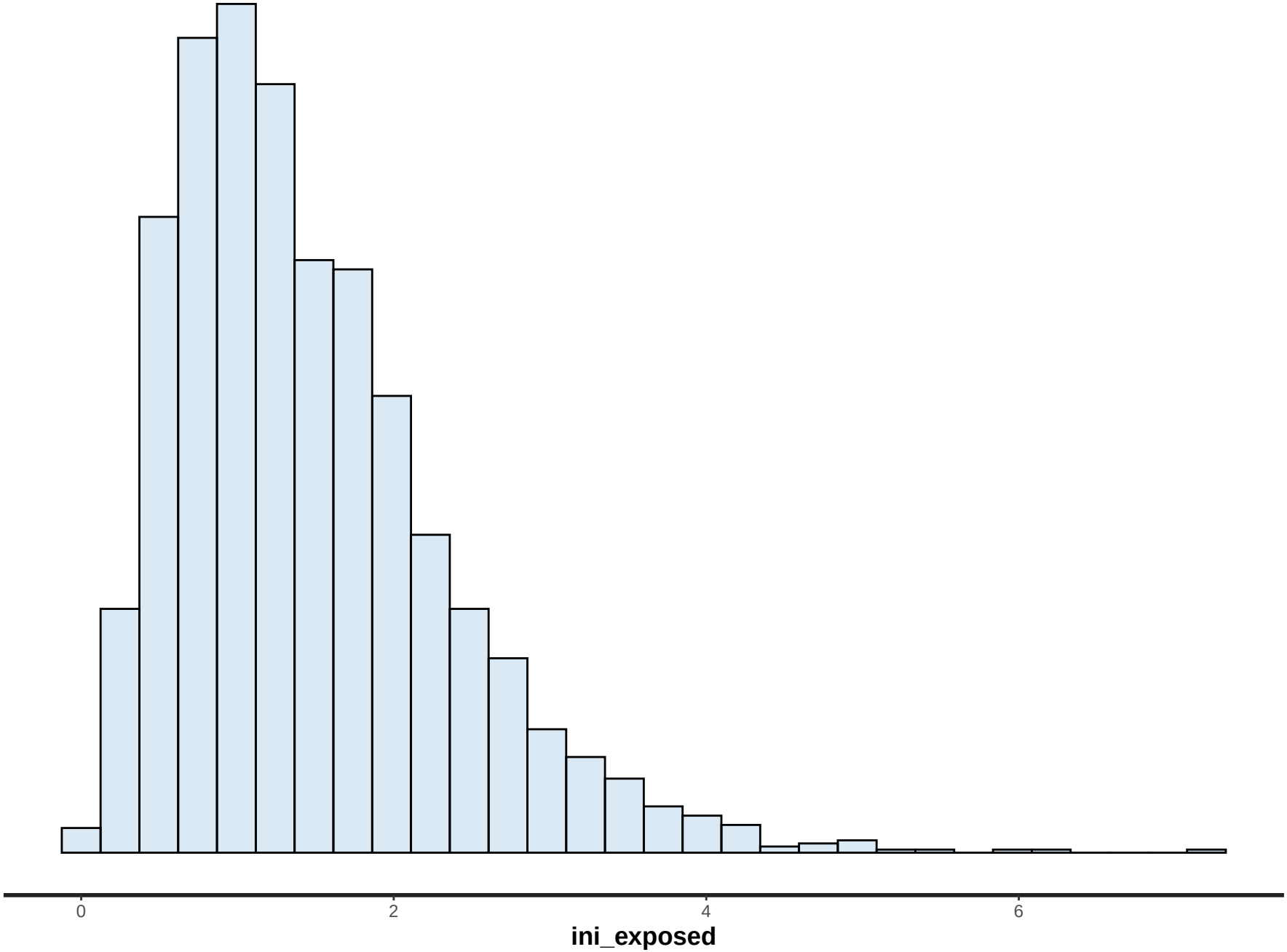

len_inter[1]
5
10
len_inter[2]
0
5
10
len_inter[3]
0
5
10
len_inter[4]
5
10
len_inter[5]
5
10
len_inter[6]
5
10
15
len_inter[7]
5
10
len_inter[8]
0
5
10
len_inter[9]
4
8
12
16
len_inter[10]
5
10
len_inter[11]
5
10
len_inter[12]
5
10
len_inter[13]
0
4
8
12

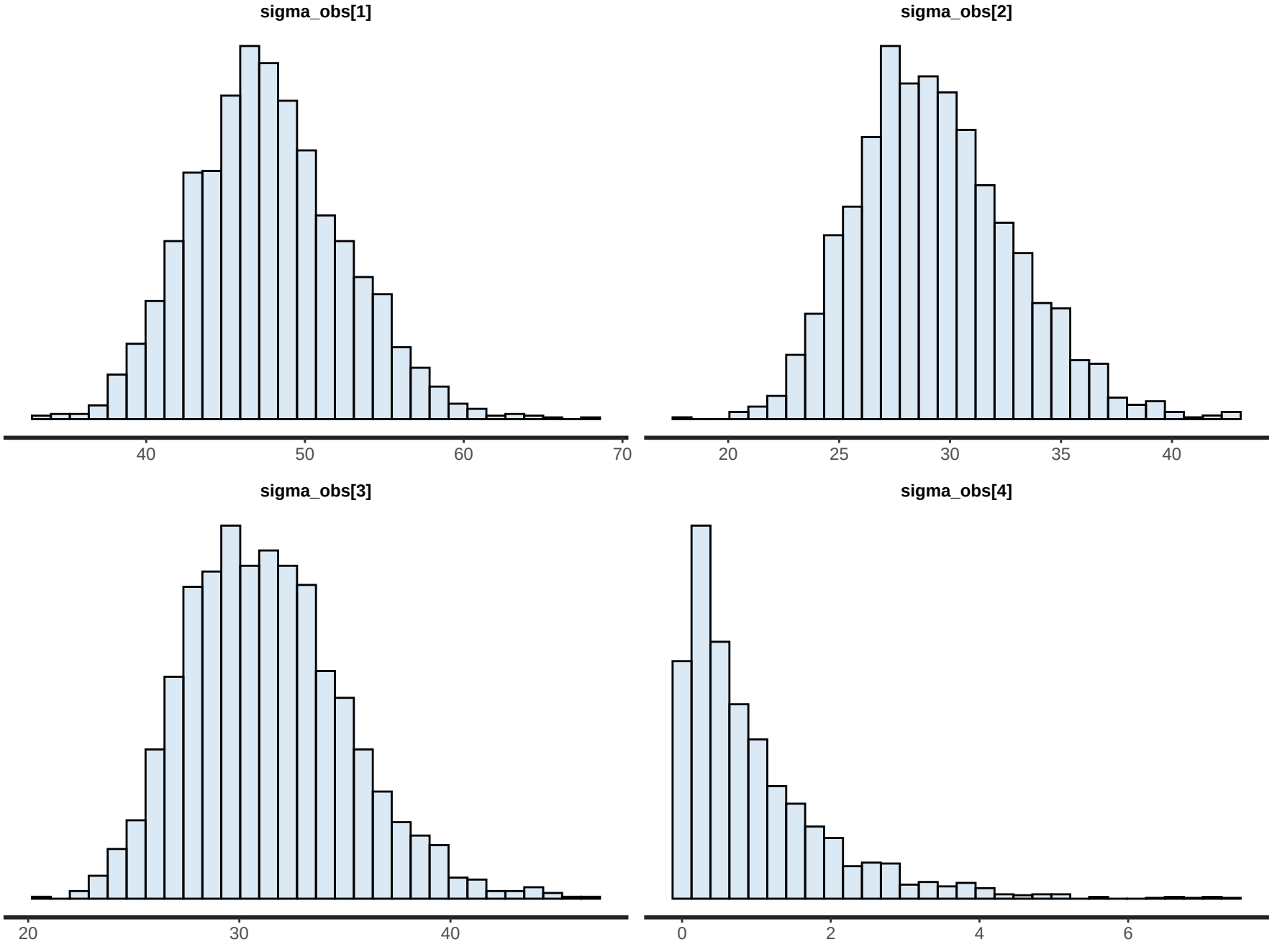

frac_PUI[1]
0.2
0.3
0.4


frac_PUI[2]
0.1
0.2
0.3
0.4


frac_PUI[3]
0.2
0.3
0.4


frac_PUI[4]
0.2
0.3
0.4


0
2
4
6
ini_exposed


sigma_obs[1]
40
50
60
70
sigma_obs[2]
20
25
30
35
40
sigma_obs[3]
20
30
40
sigma_obs[4]
0
2
4
6