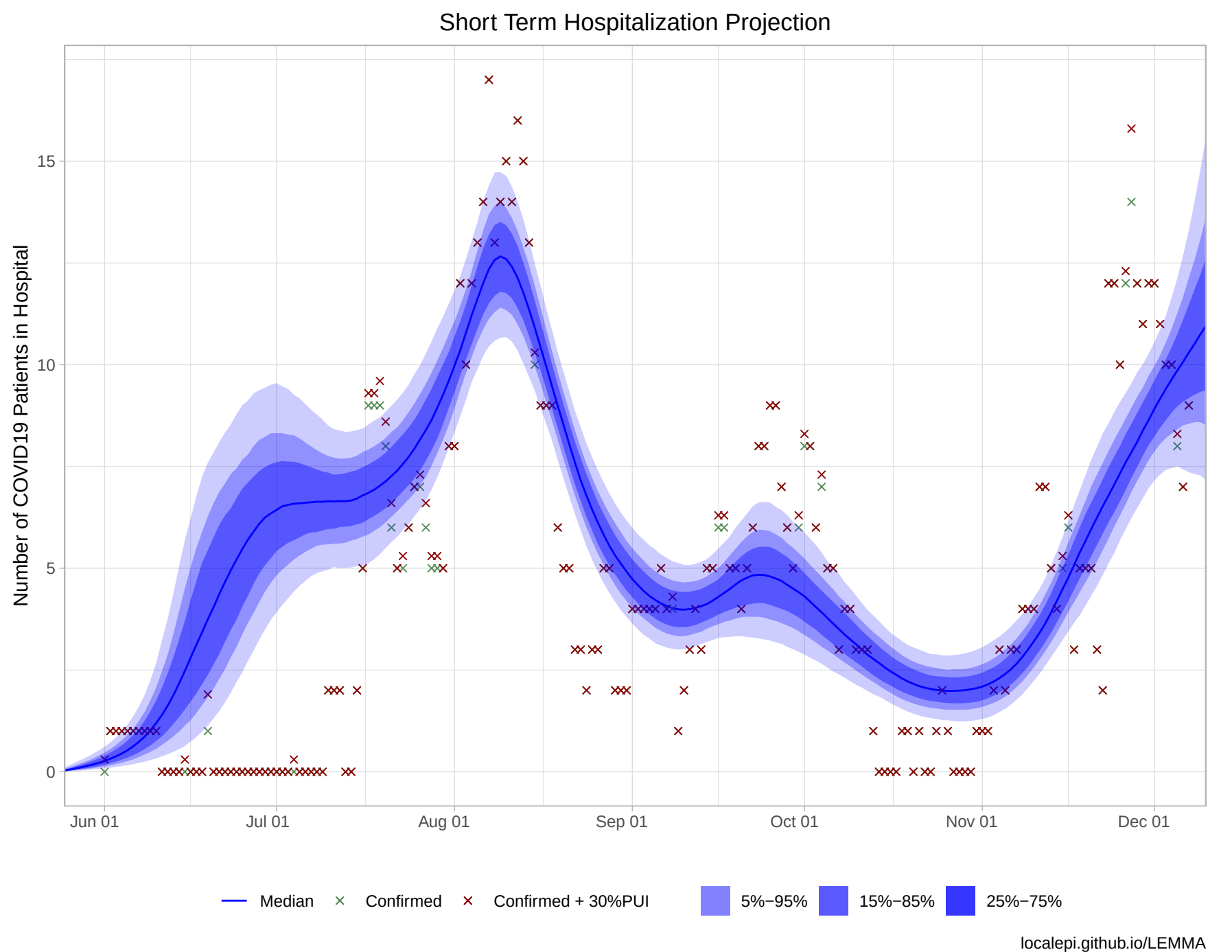
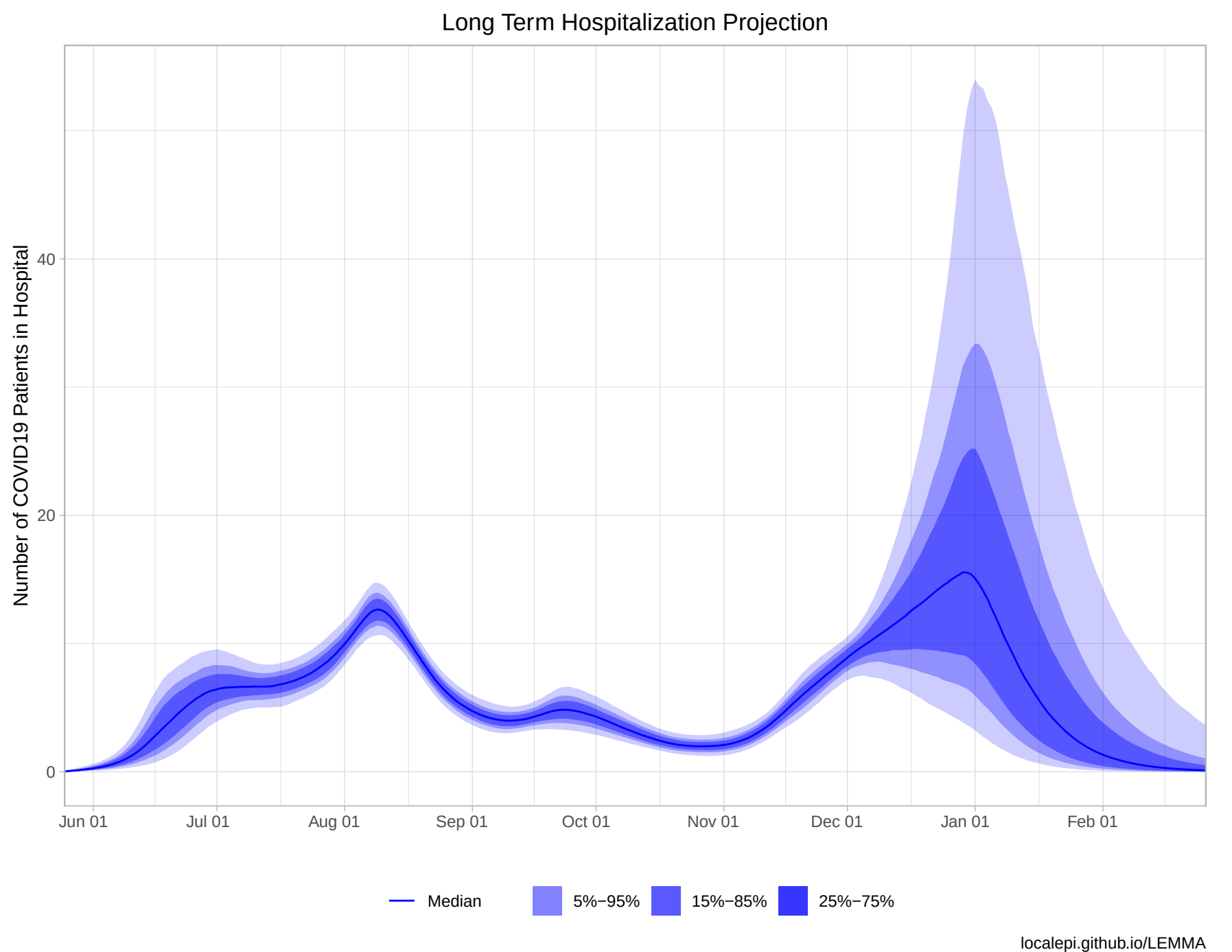
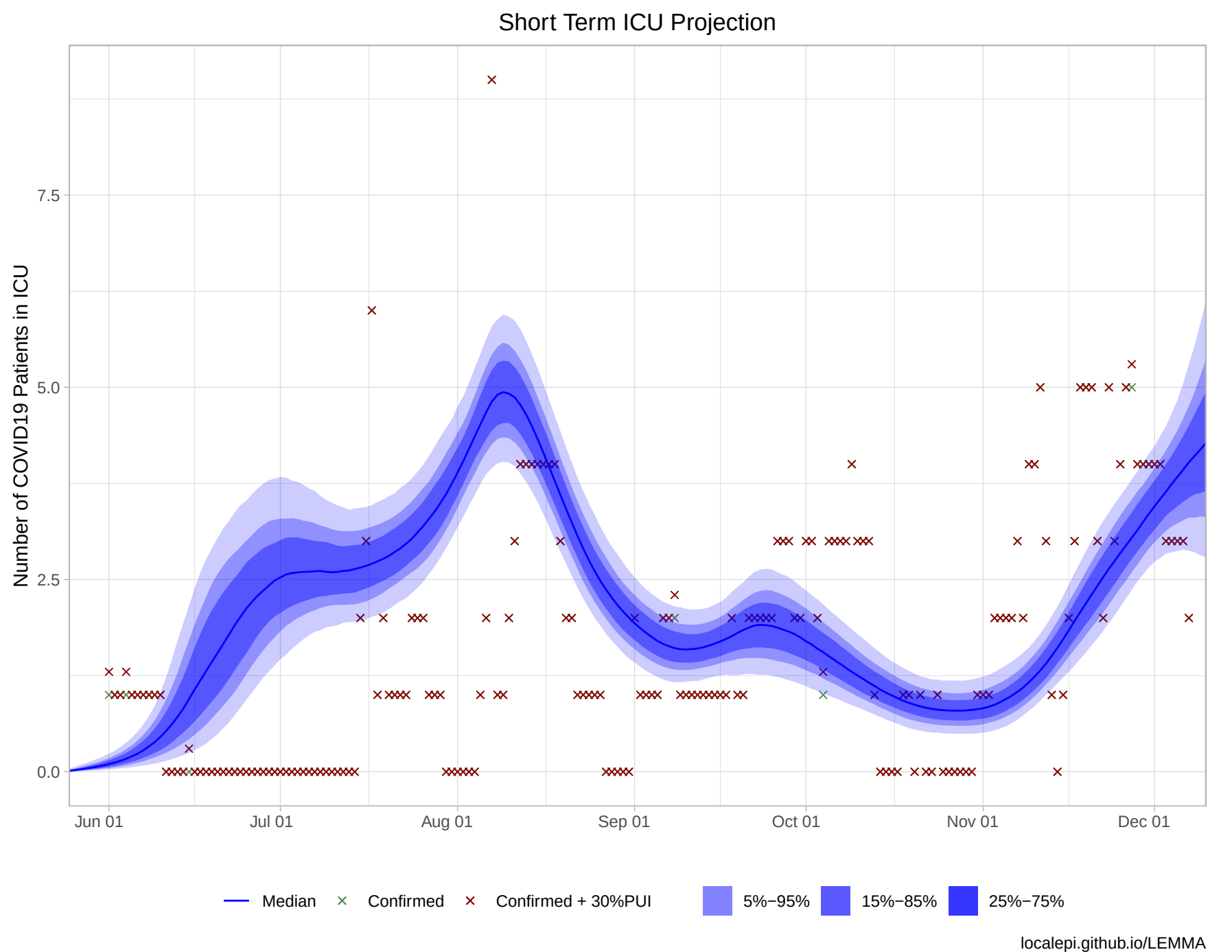
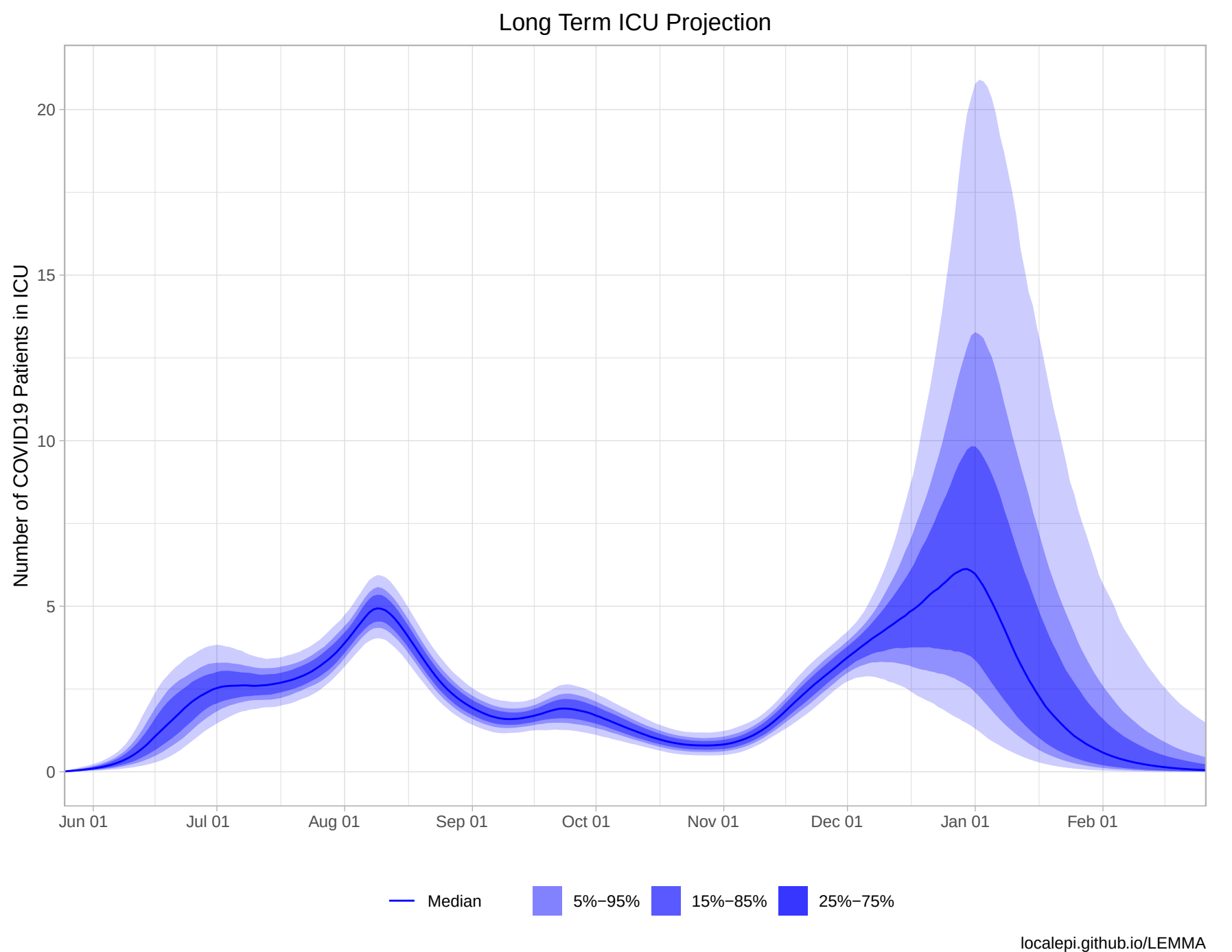
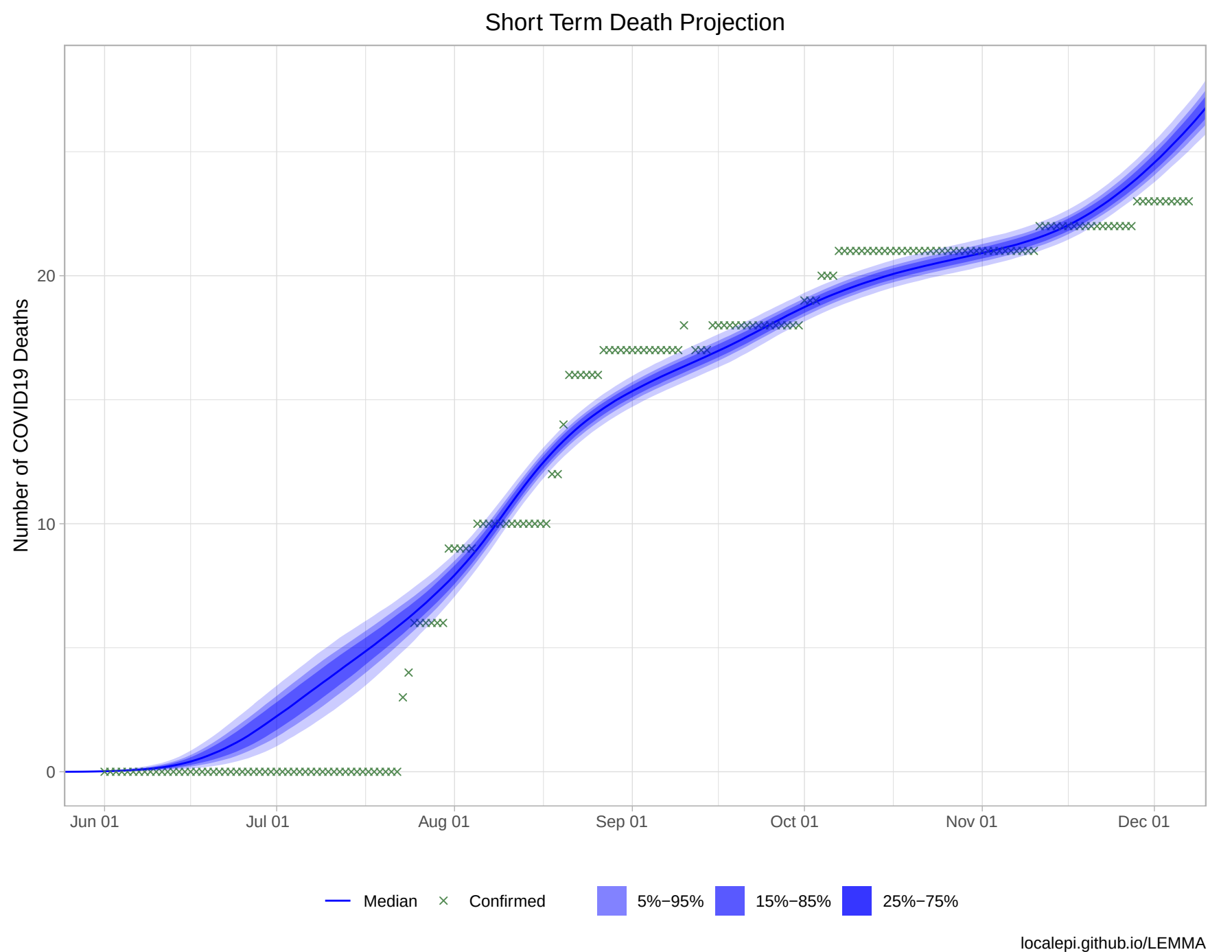
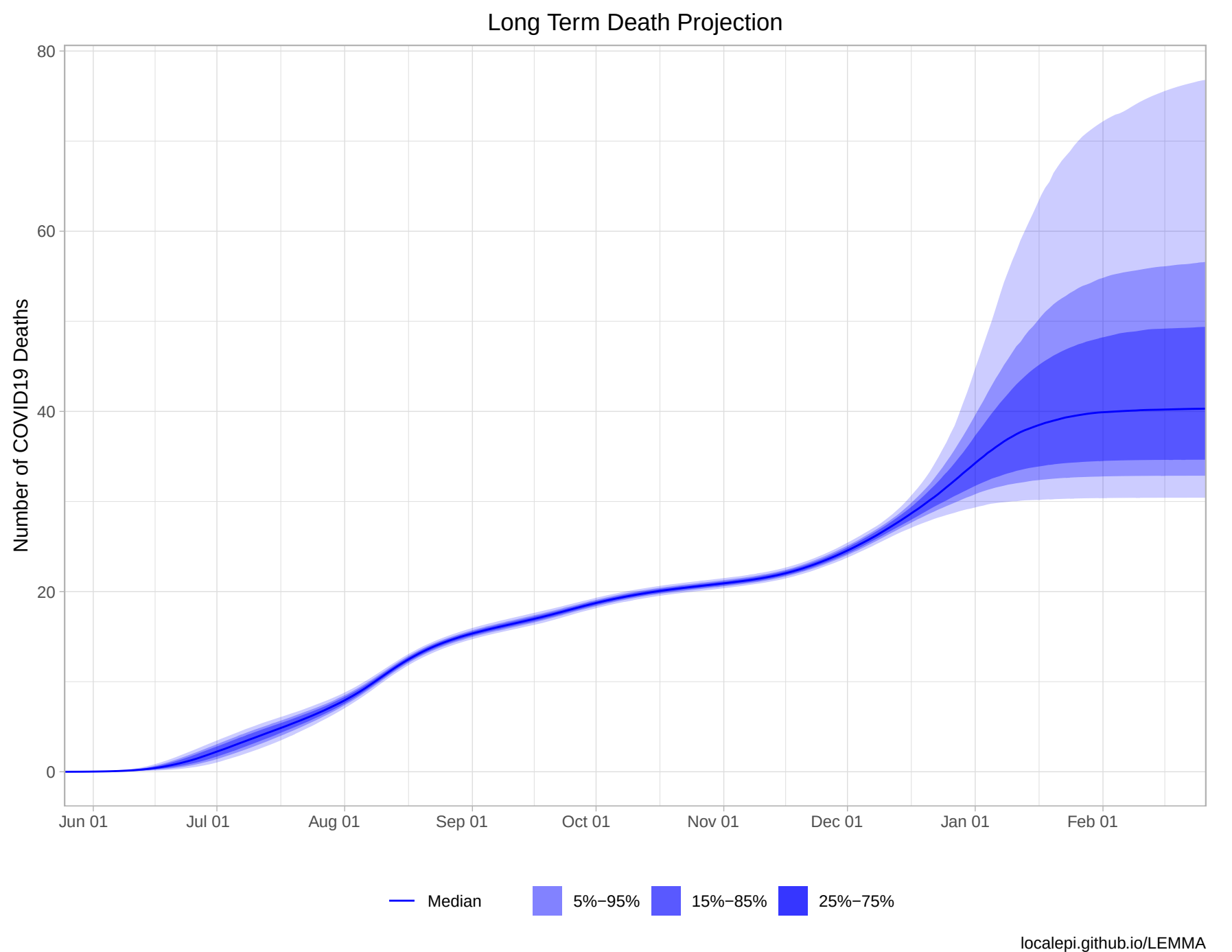

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
5
10
15
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

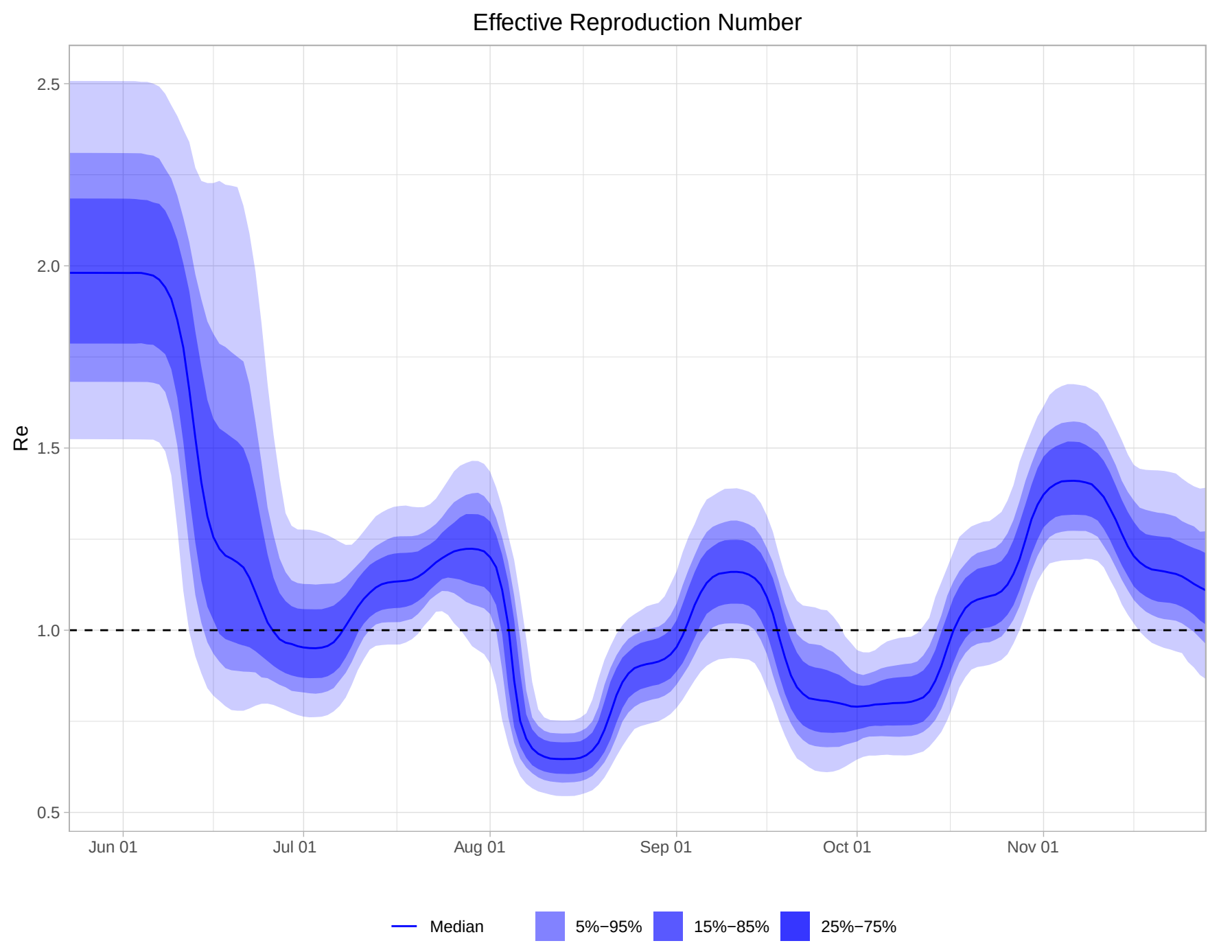

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
20
40
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


Short Term ICU Projection
Number of COVID19 Patients in ICU
0.0
2.5
5.0
7.5
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
0
5
10
15
20
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

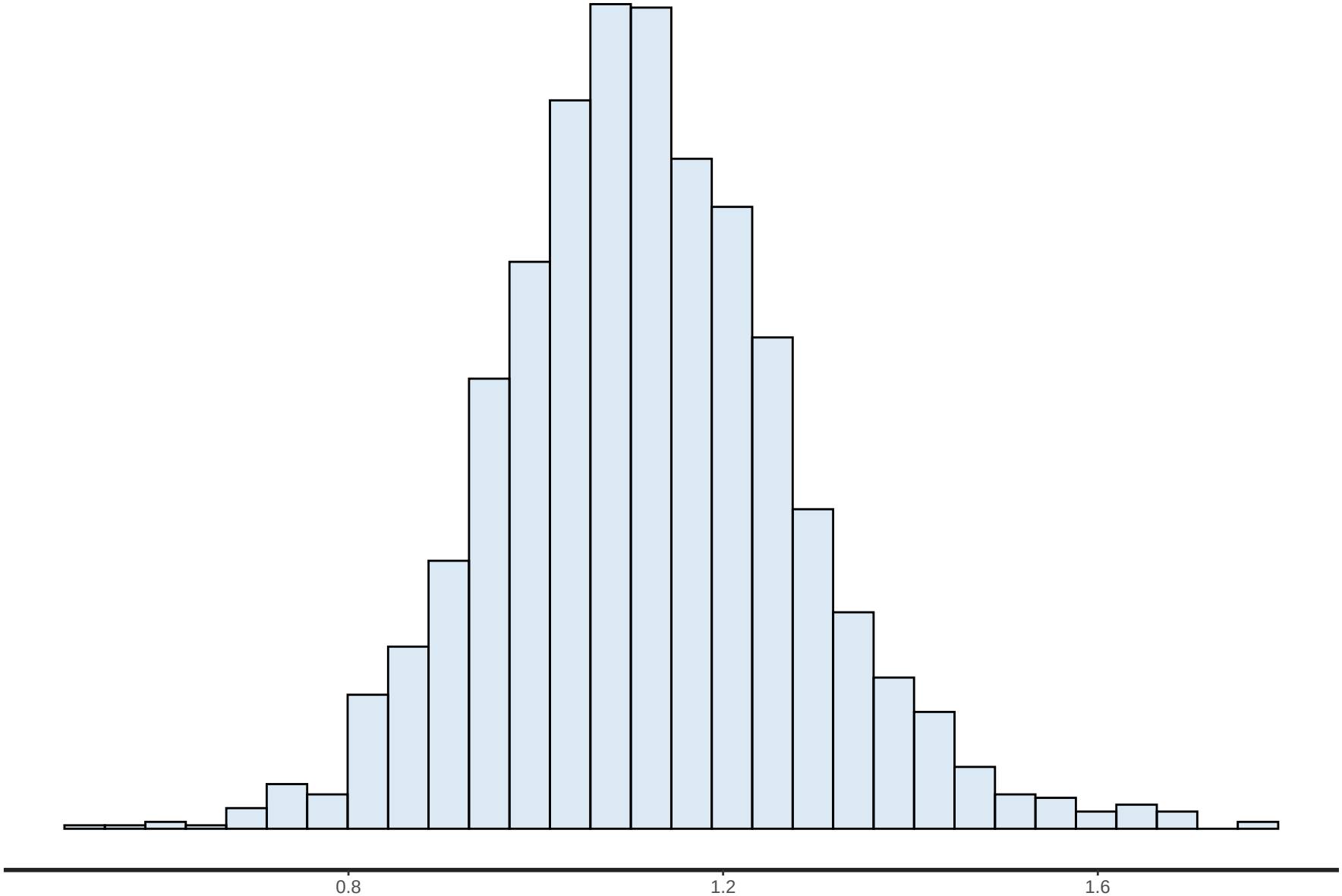

Short Term Death Projection
Number of COVID19 Deaths
0
10
20
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

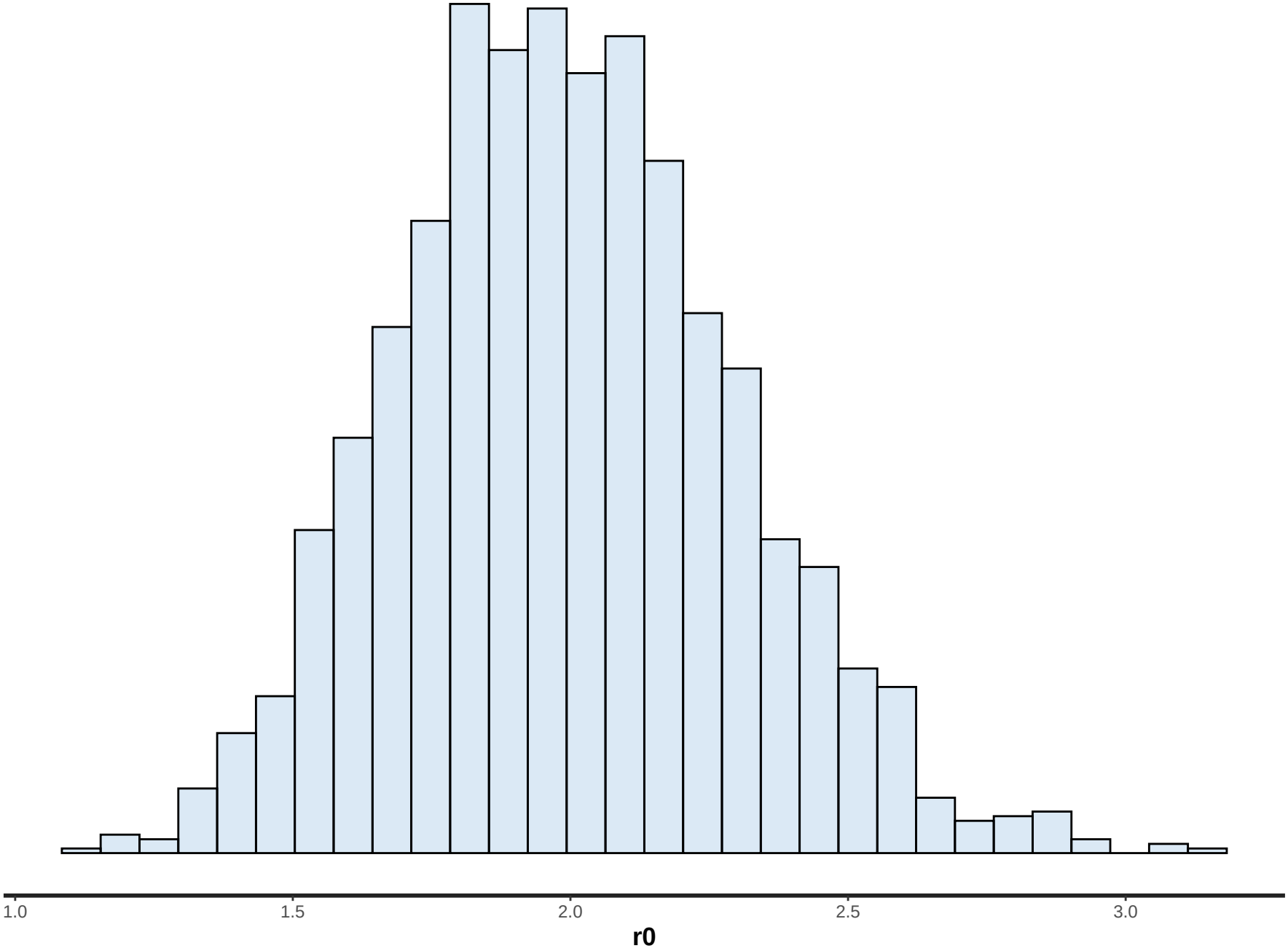

Long Term Death Projection
Number of COVID19 Deaths
80
60
40
20
0
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

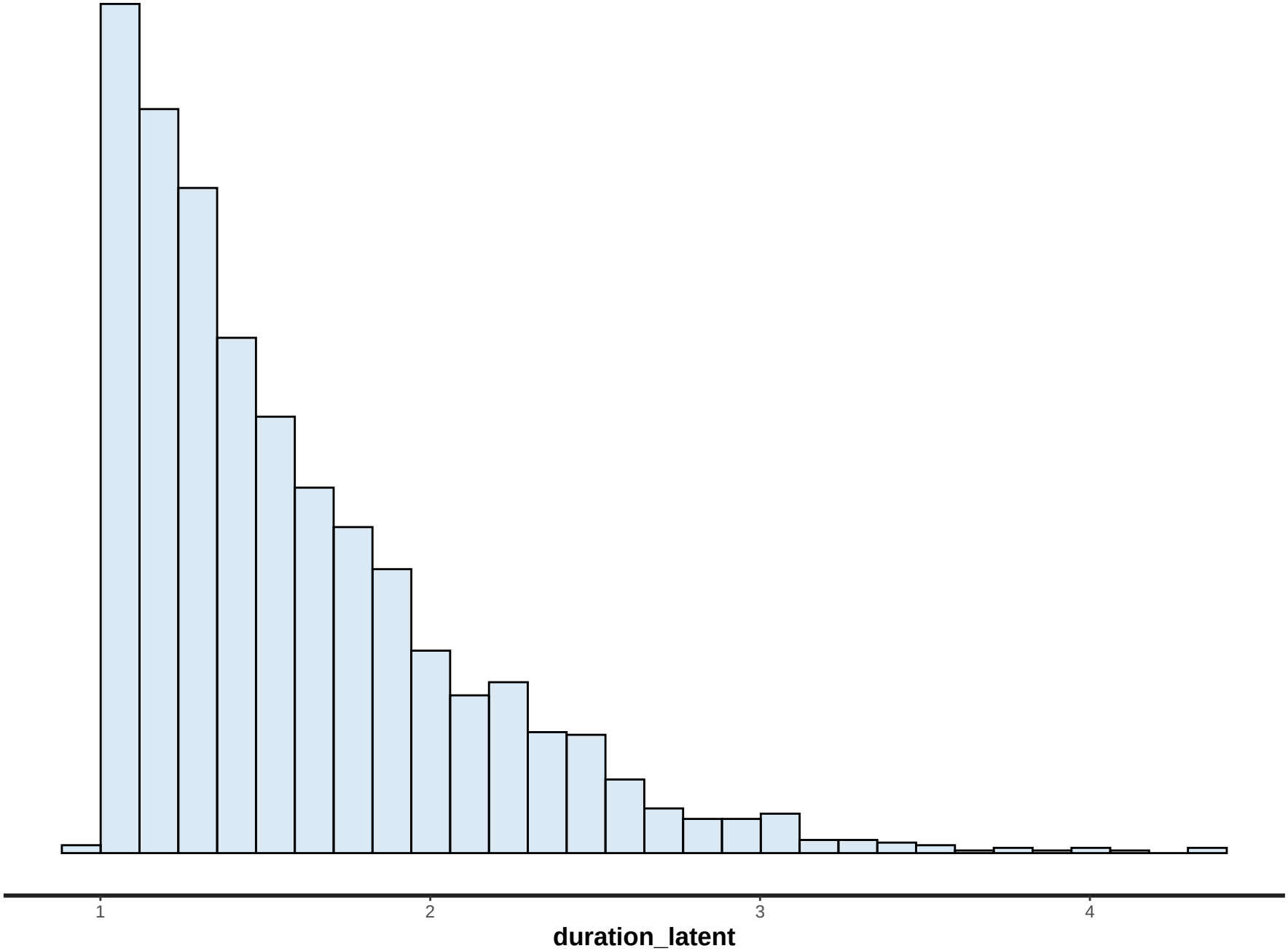

Effective Reproduction Number
Re
2.5
2.0
1.5
1.0
0.5
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Median
5%−95%
15%−85%
25%−75%

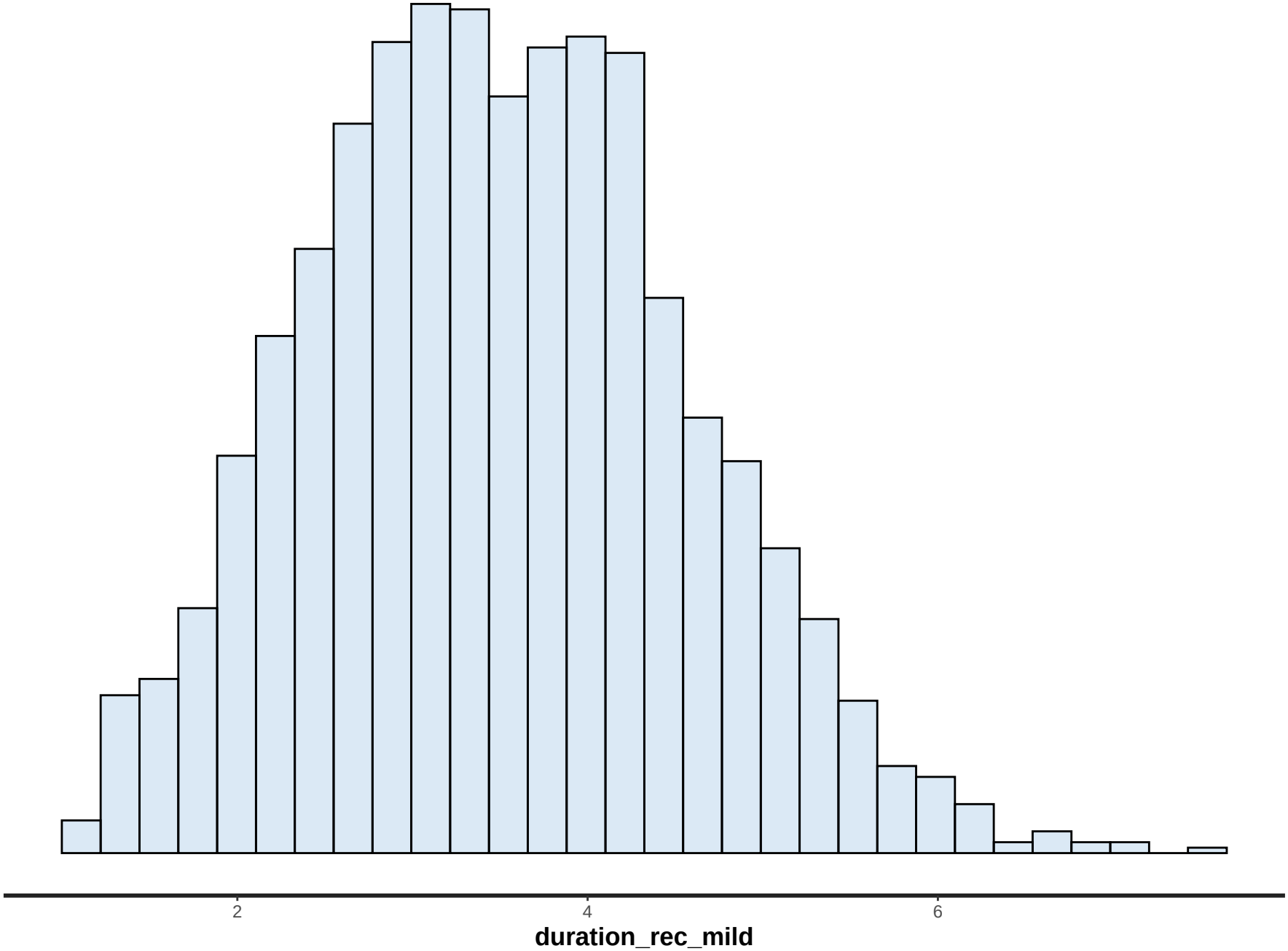
Rt as of 2020−11−28

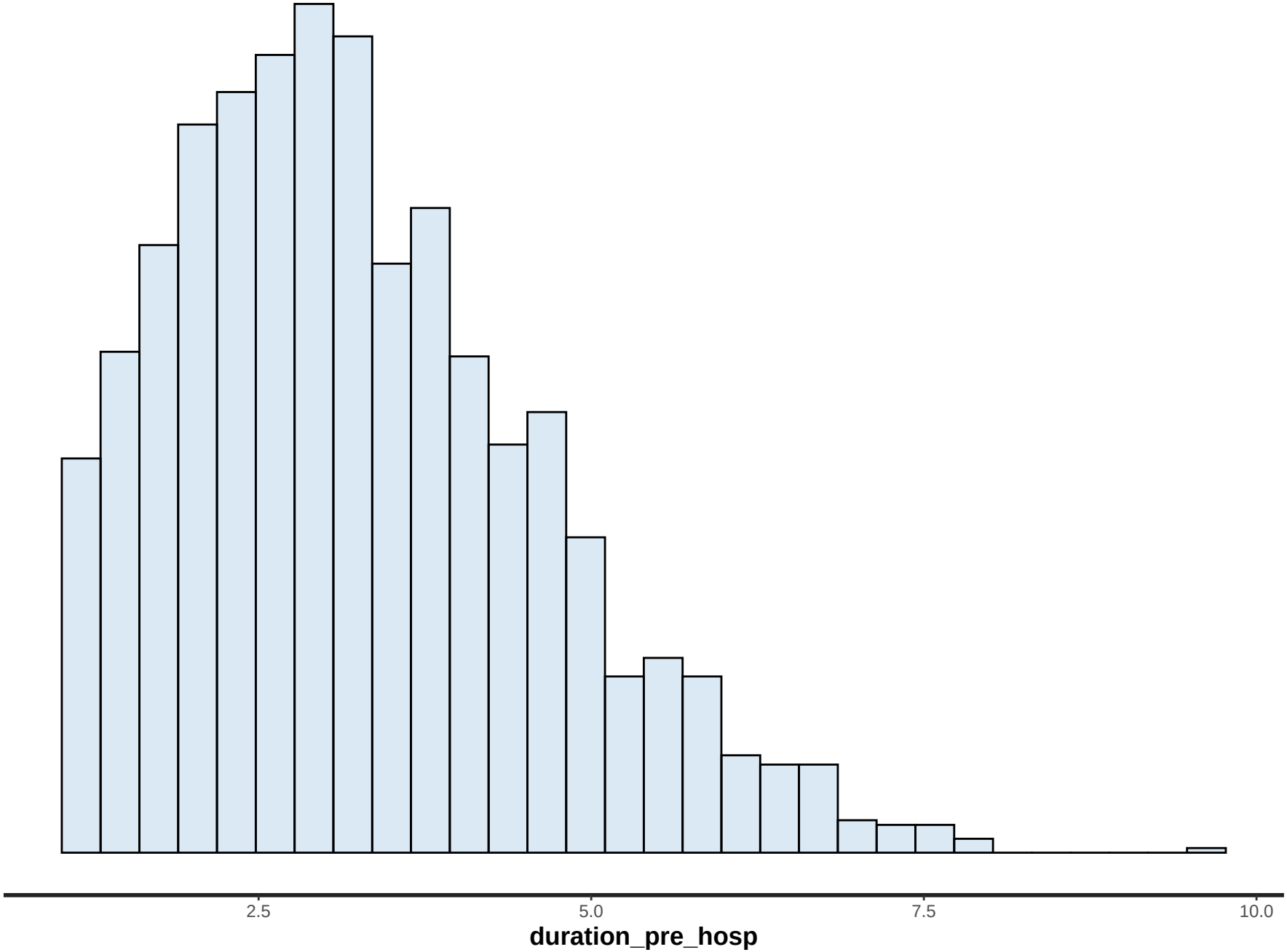
5%	10%	25%	50%	75%	90%	95%
0.87	0.93	1.02	1.11	1.21	1.32	1.39

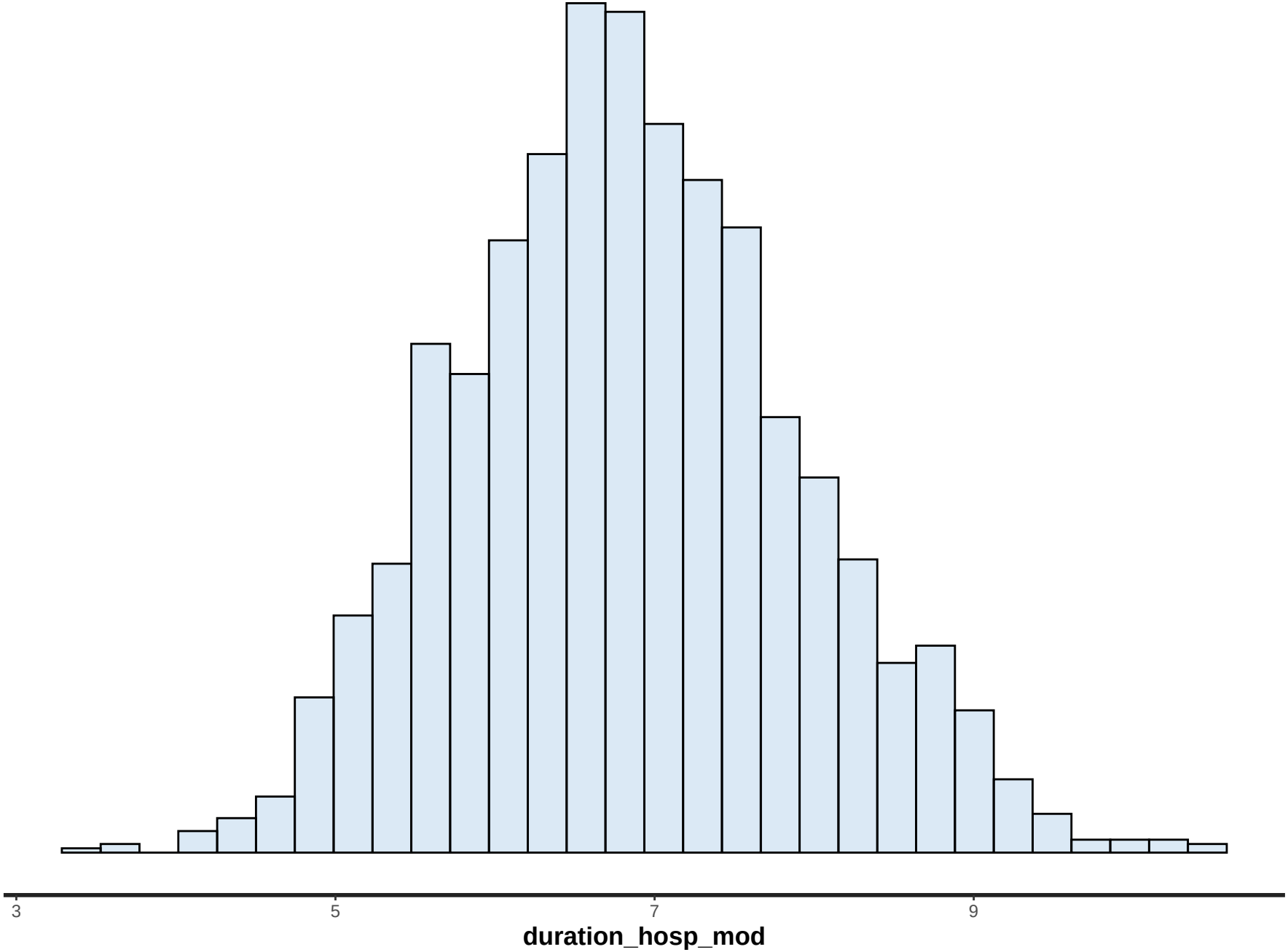


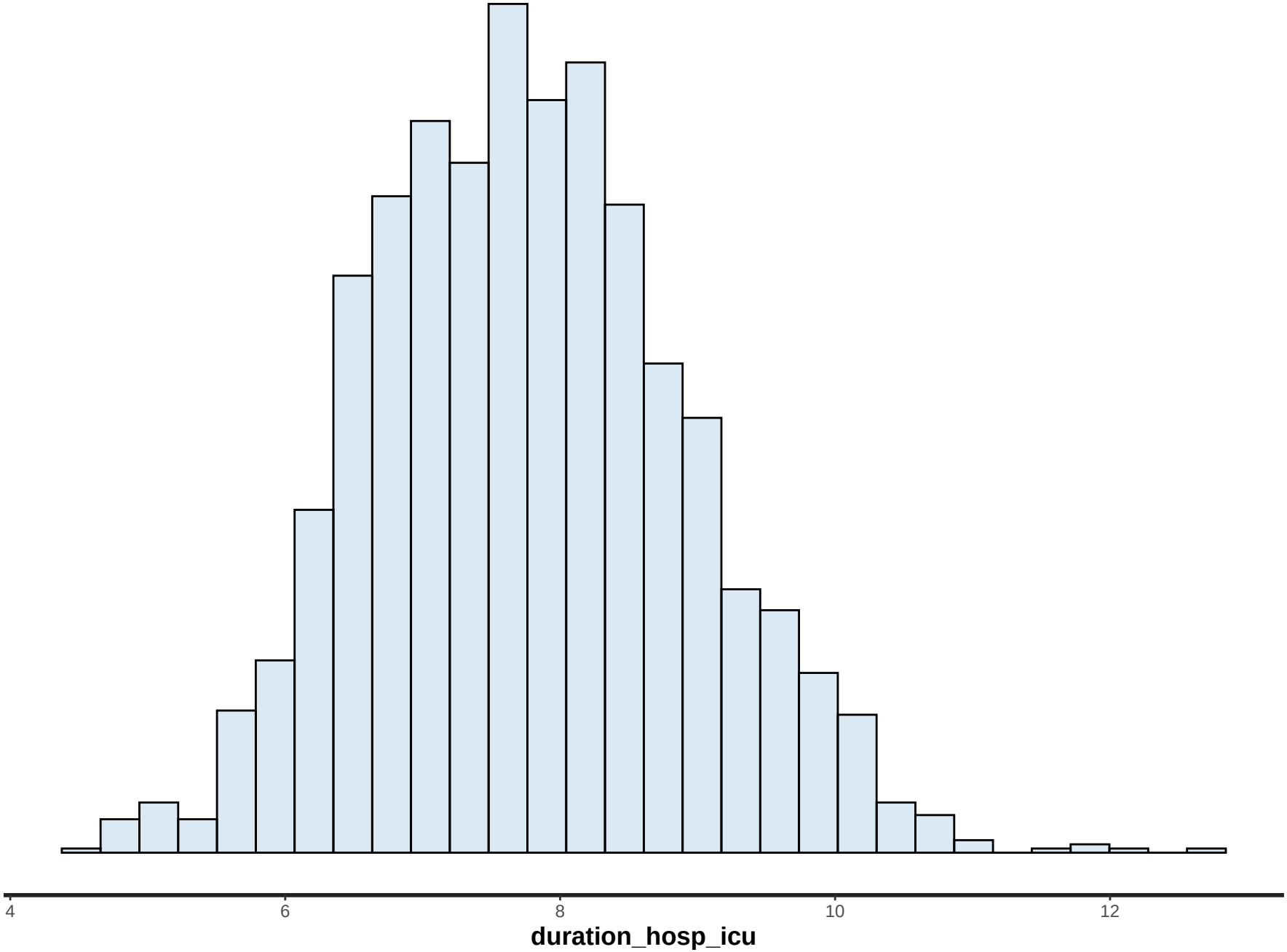

1.0
1.5
2.0
2.5
3.0
r0

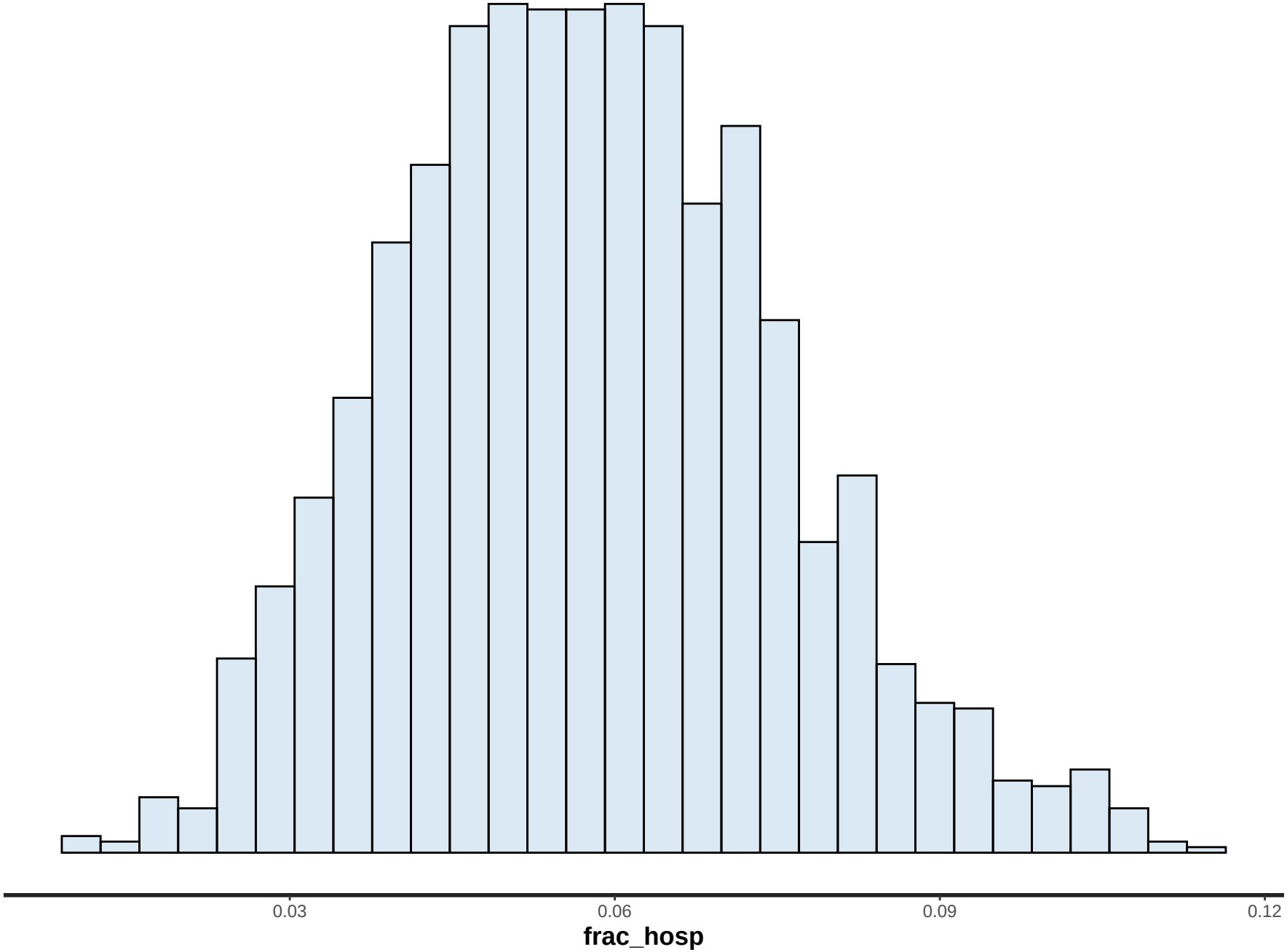

1
2
3
4
duration_latent

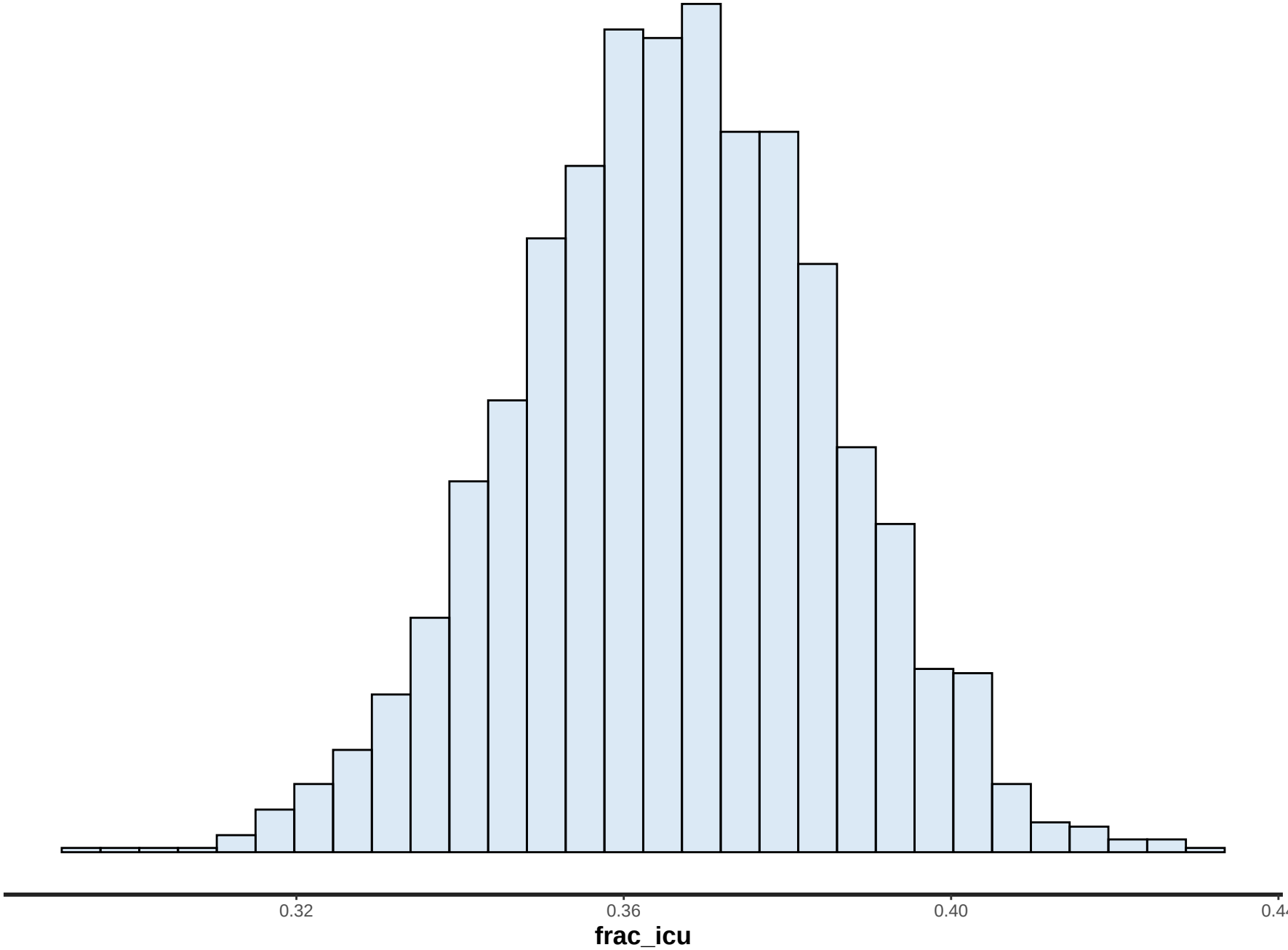

2
4
6
duration_rec_mild

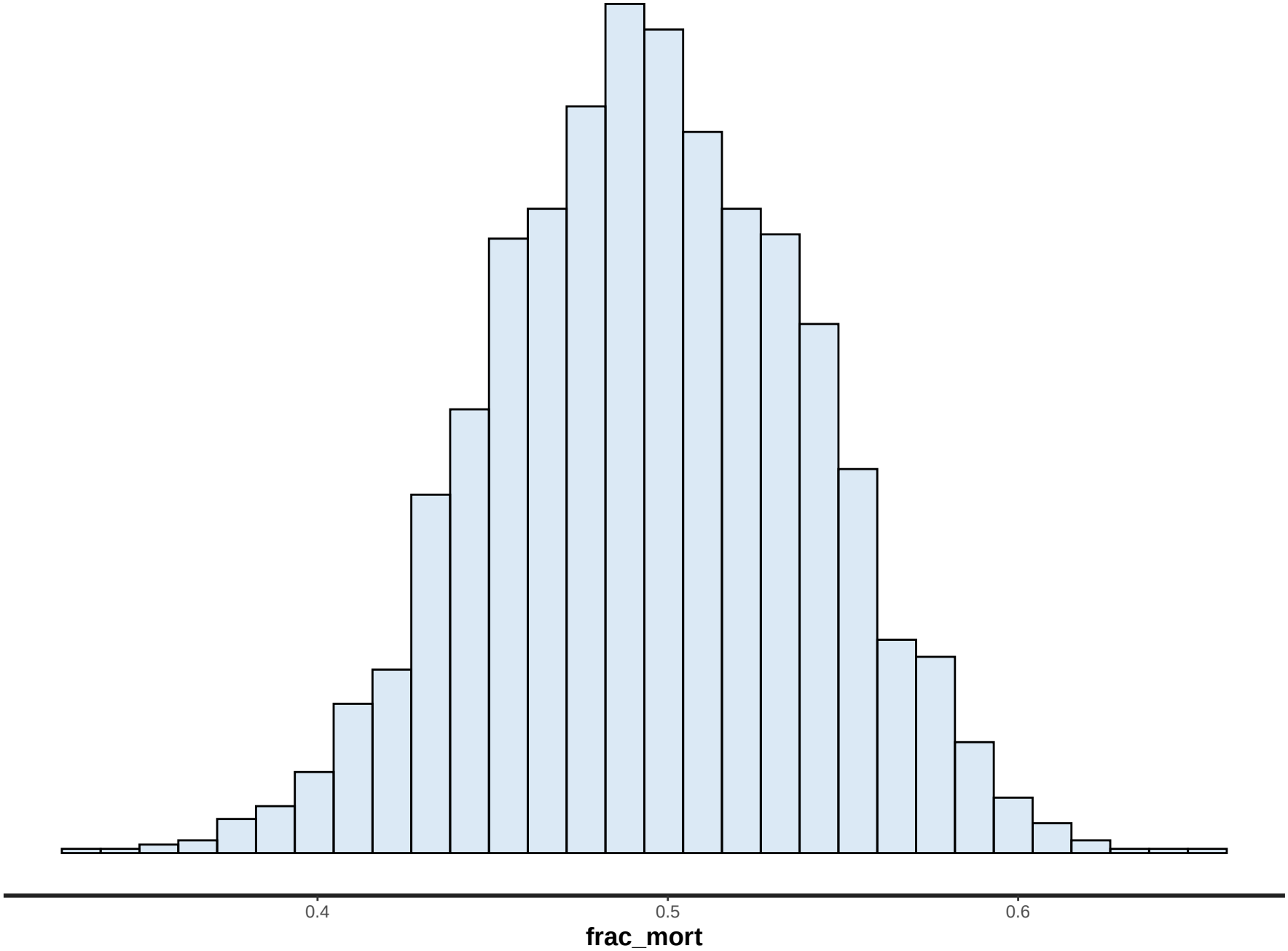

2.5
5.0
7.5
10.0
duration_pre_hosp

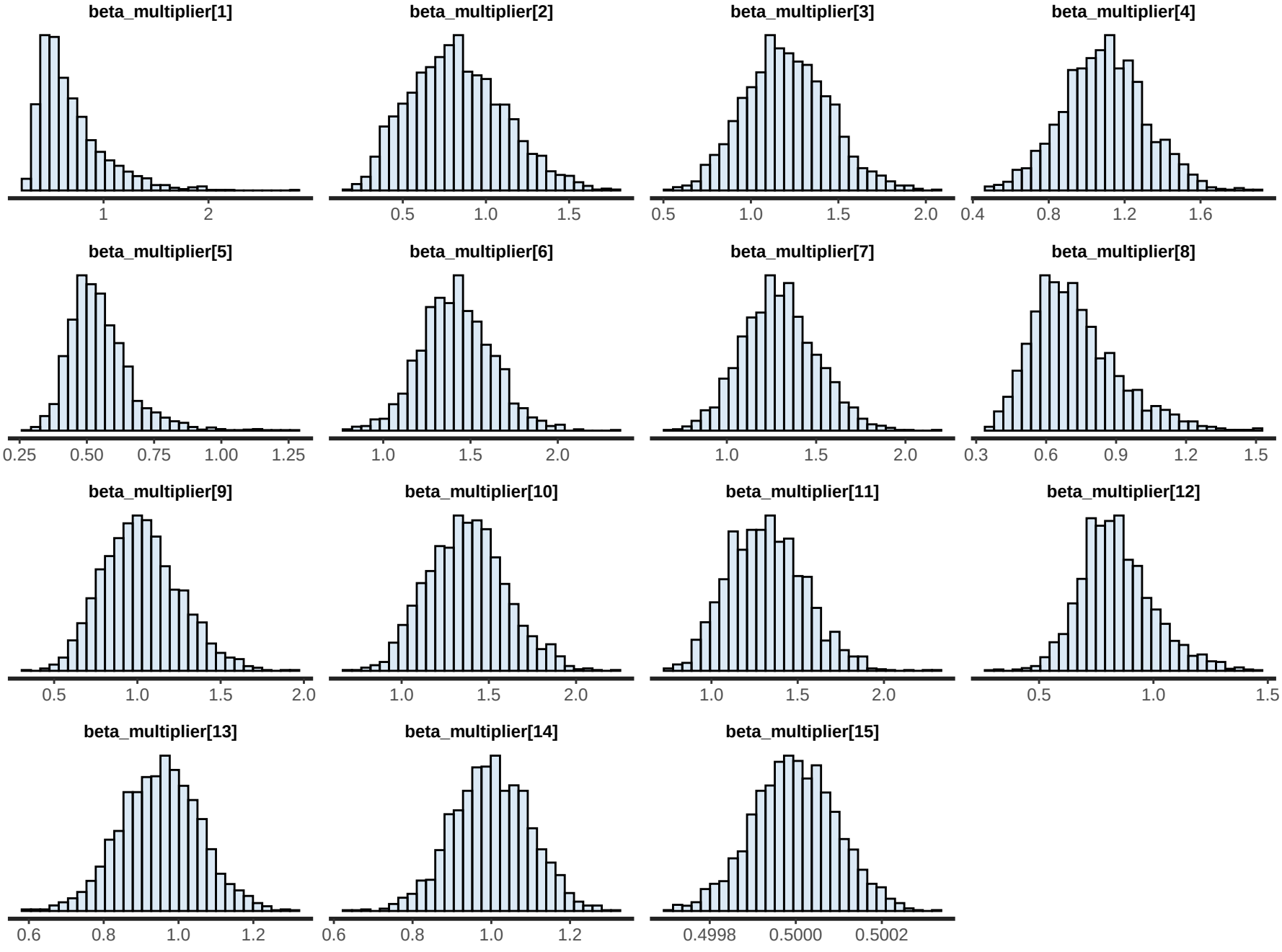

3
5
7
9
duration_hosp_mod

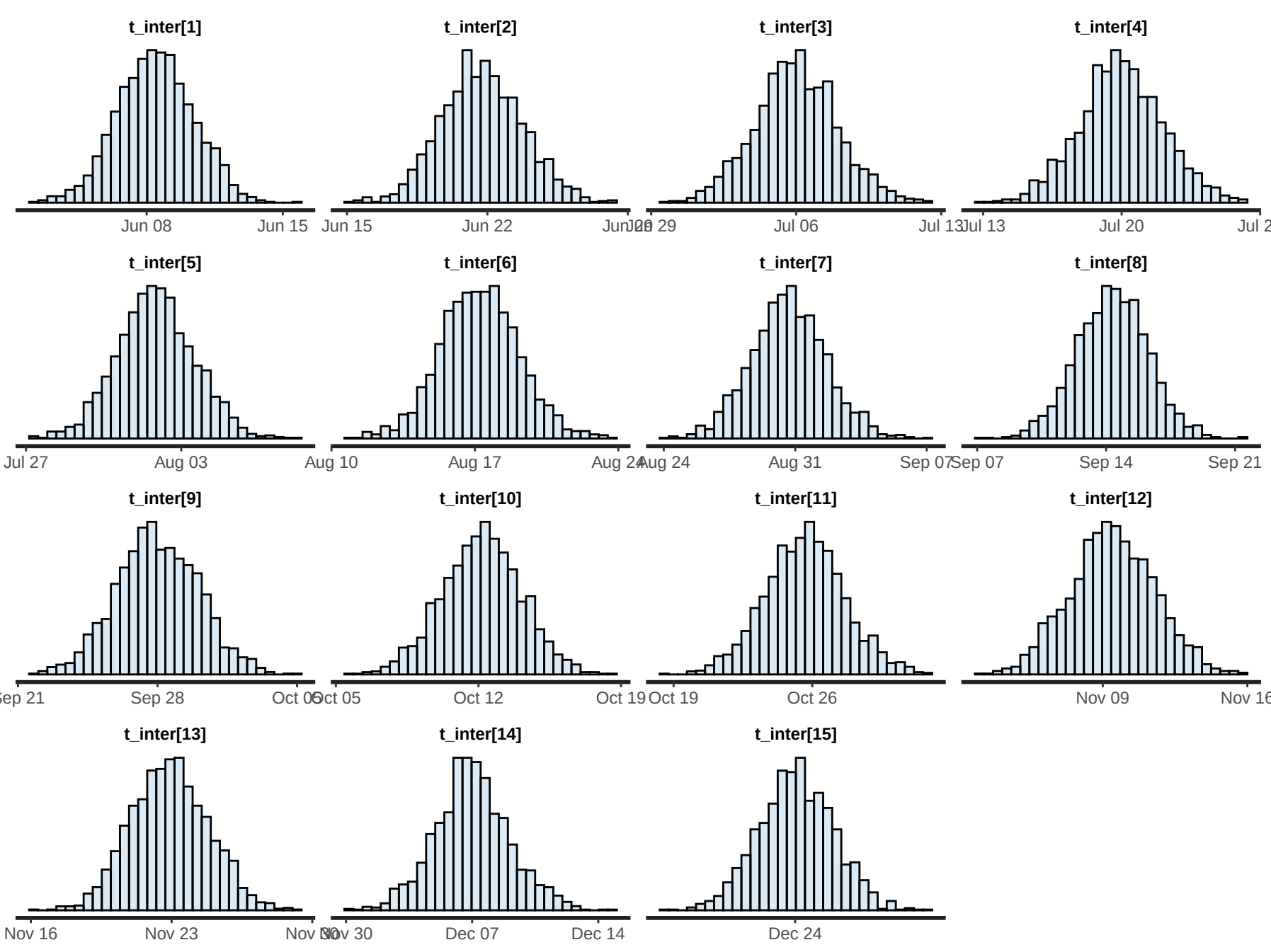

4
6
8
10
12
duration_hosp_icu

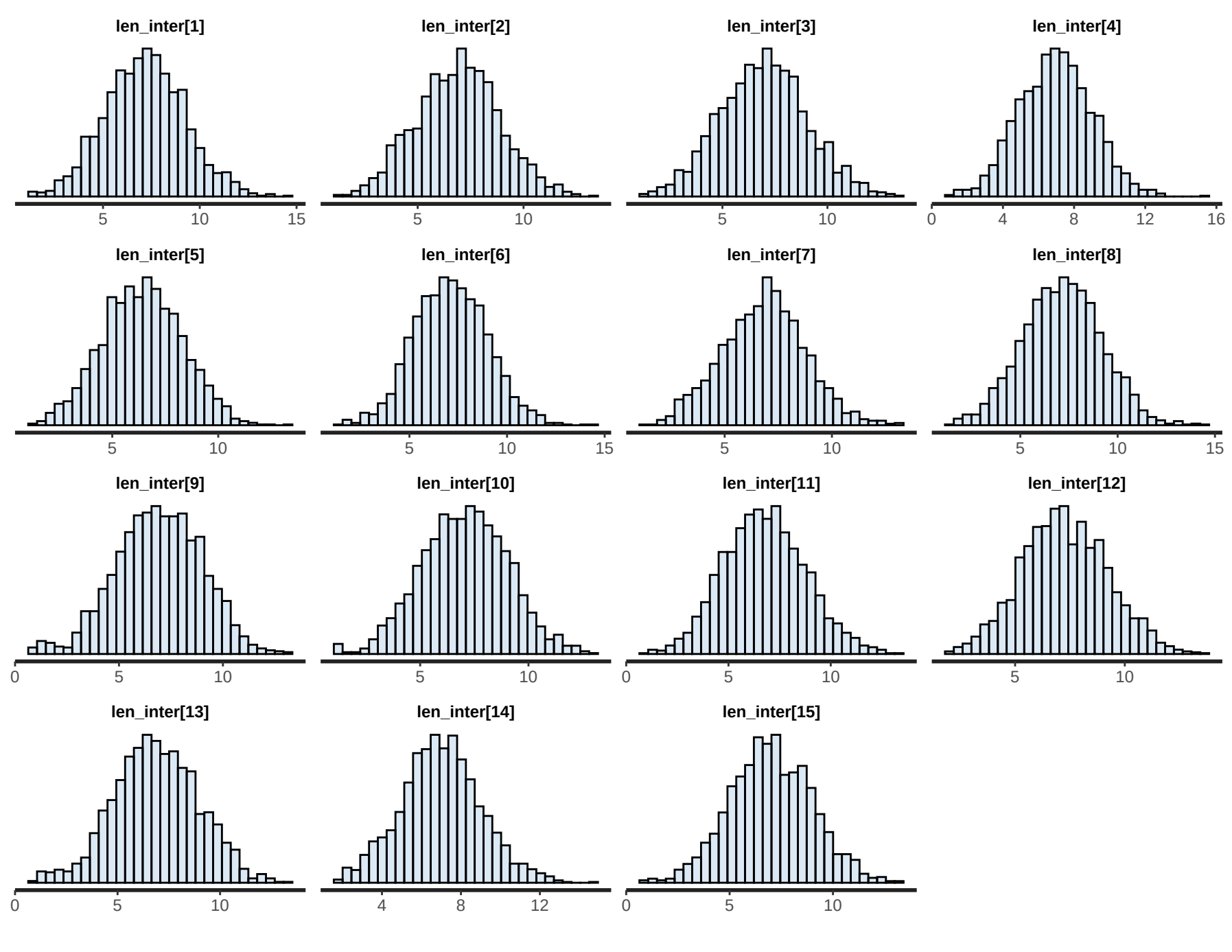

0.03
0.06
0.09
0.12
frac_hosp

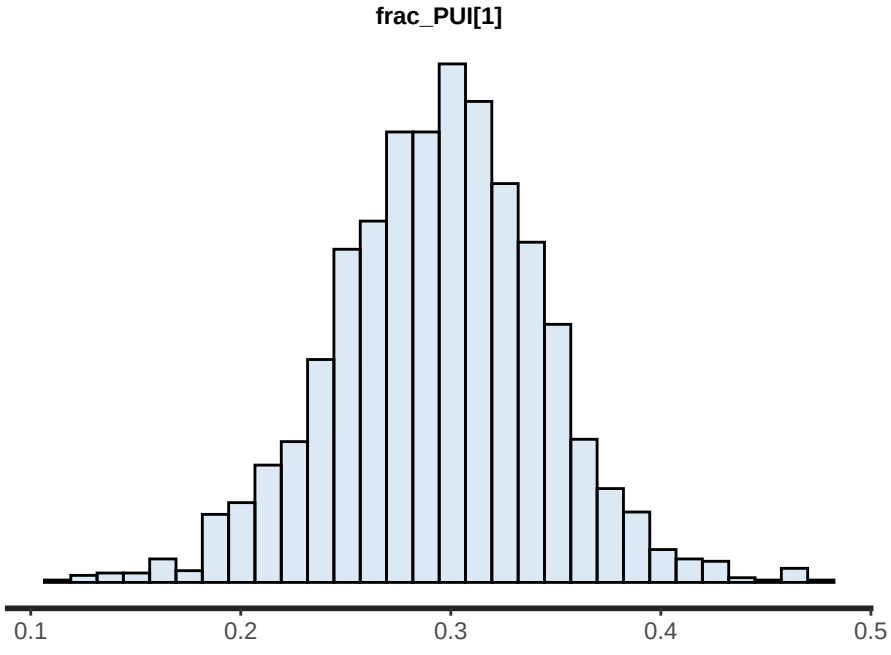

0.32
0.36
0.40
0.44
frac_icu

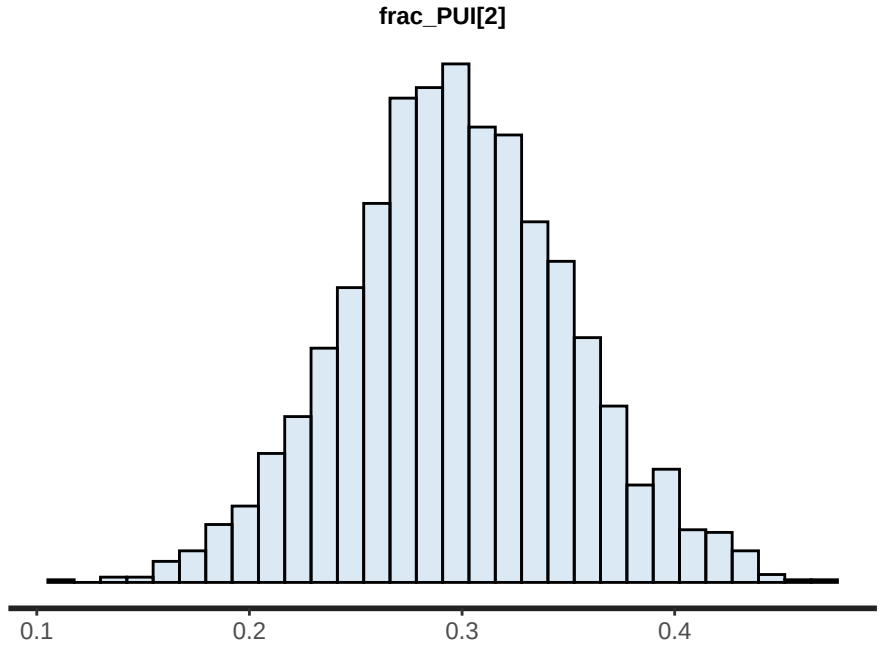

0.4
0.5
0.6
frac_mort

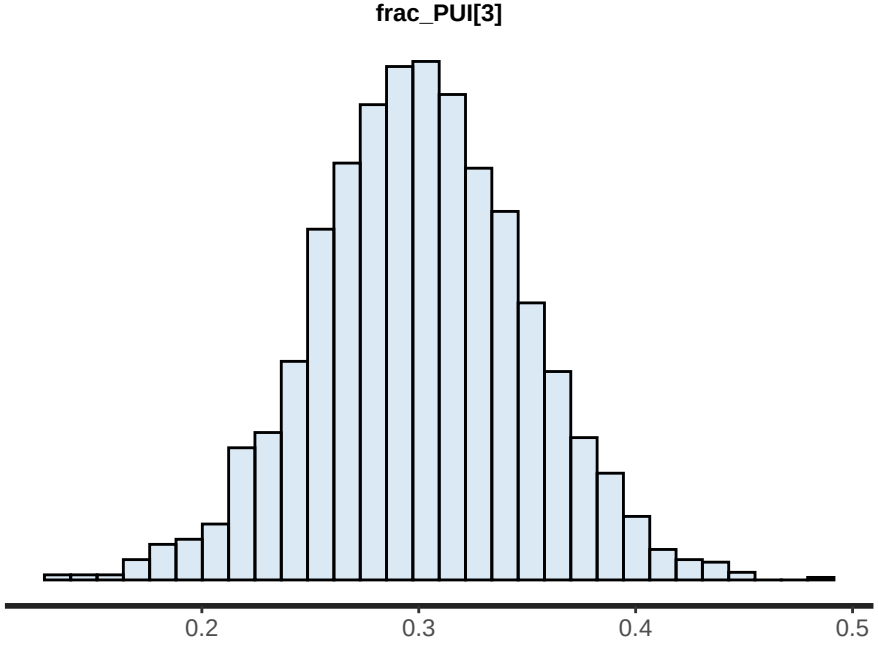

beta_multiplier[1]
1
2
beta_multiplier[2]
0.5
1.0
1.5
beta_multiplier[3]
0.5
1.0
1.5
2.0
beta_multiplier[4]
0.4
0.8
1.2
1.6
beta_multiplier[5]
0.25
0.50
0.75
1.00
1.25
beta_multiplier[6]
1.0
1.5
2.0
beta_multiplier[7]
1.0
1.5
2.0
beta_multiplier[8]
0.3
0.6
0.9
1.2
1.5
beta_multiplier[9]
0.5
1.0
1.5
2.0
beta_multiplier[10]
1.0
1.5
2.0
beta_multiplier[11]
1.0
1.5
2.0
beta_multiplier[12]
0.5
1.0
1.5
beta_multiplier[13]
0.6
0.8
1.0
1.2
beta_multiplier[14]
0.6
0.8
1.0
1.2
beta_multiplier[15]
0.4998
0.5000
0.5002

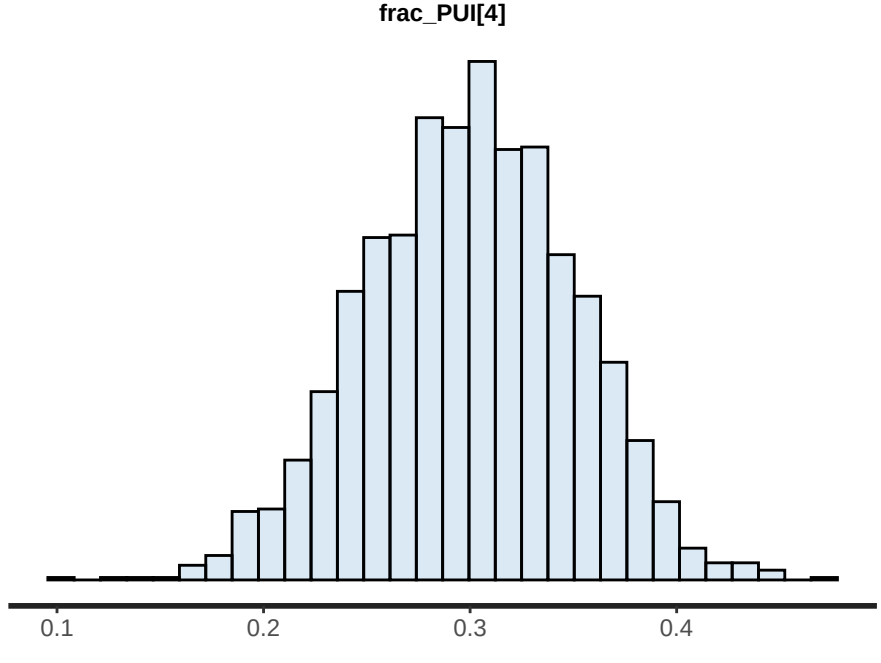

t_inter[1]
Jun 08
Jun 15
t_inter[2]
Jun 15
Jun 22
t_inter[3]
Jul 06
Jul 13
t_inter[4]
Jul 13
Jul 20
t_inter[5]
Jul 27
Aug 03
t_inter[6]
Aug 10
Aug 17
t_inter[7]
Aug 24
Aug 31
Sep 07
t_inter[8]
Sep 07
Sep 14
Sep 21
t_inter[9]
Sep 21
Sep 28
t_inter[10]
Oct 05
Oct 12
Oct 19
t_inter[11]
Oct 19
Oct 26
t_inter[12]
Nov 09
t_inter[13]
Nov 16
Nov 23
t_inter[14]
Nov 30
Dec 07
Dec 14
t_inter[15]
Dec 24

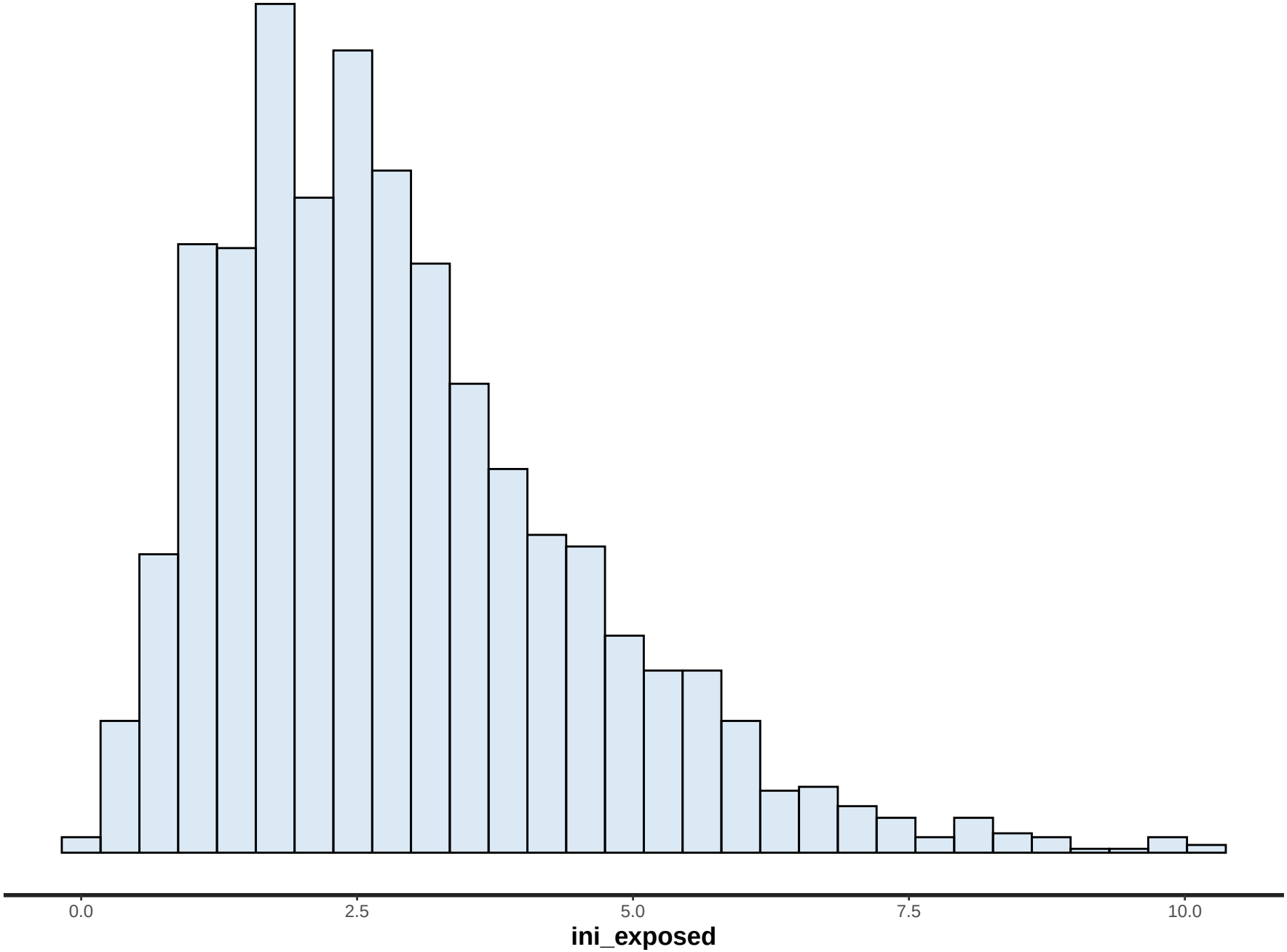

len_inter[1]
len_inter[2]
len_inter[3]
len_inter[4]
len_inter[5]
len_inter[6]
len_inter[7]
len_inter[8]
len_inter[9]
len_inter[10]
len_inter[11]
len_inter[12]
len_inter[13]
len_inter[14]
len_inter[15]

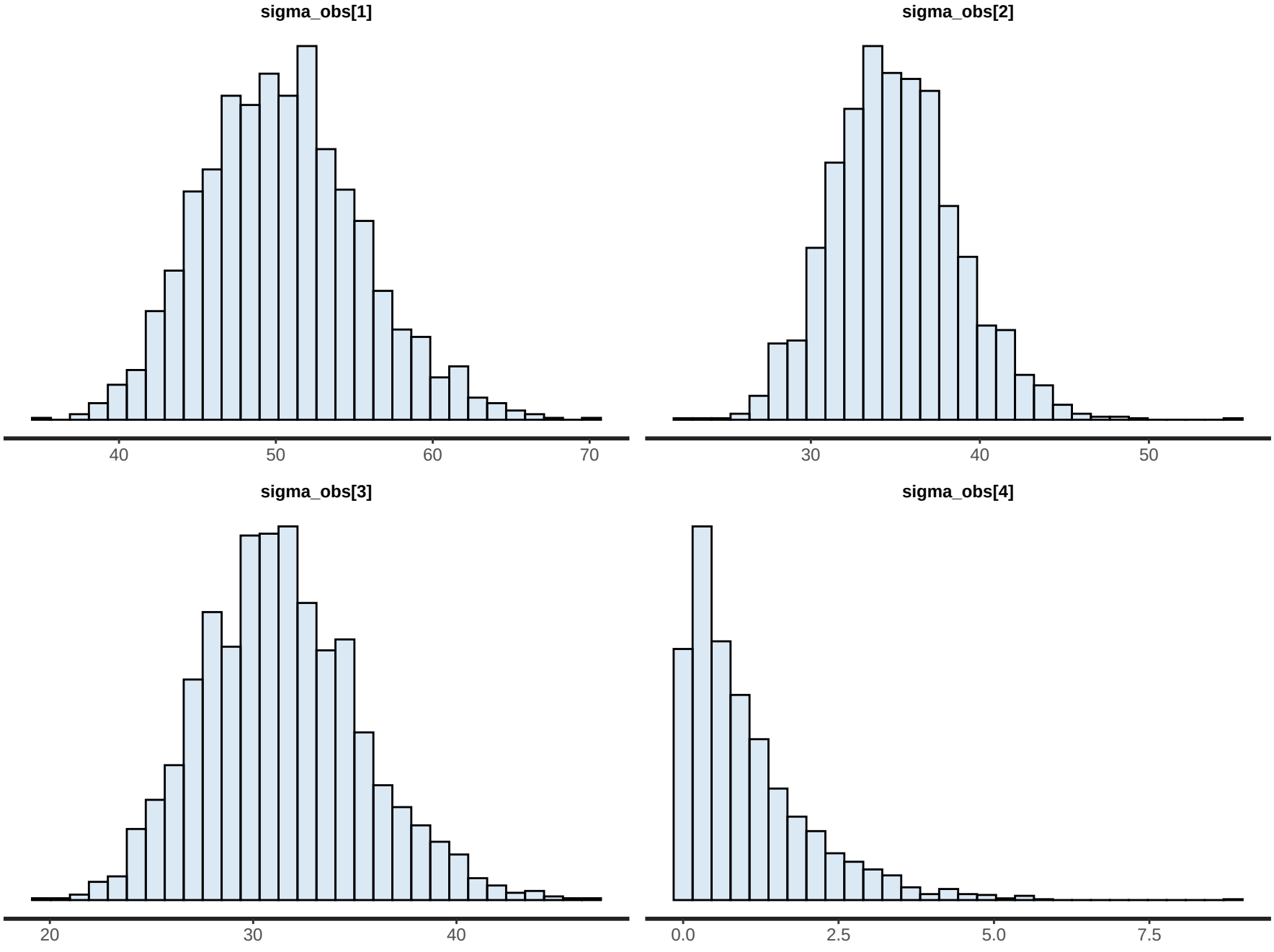

frac_PUI[1]
0.1
0.2
0.3
0.4
0.5


frac_PUI[2]
0.1
0.2
0.3
0.4


frac_PUI[3]
0.2
0.3
0.4
0.5


frac_PUI[4]
0.1
0.2
0.3
0.4


0.0
2.5
5.0
7.5
10.0
ini_exposed


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