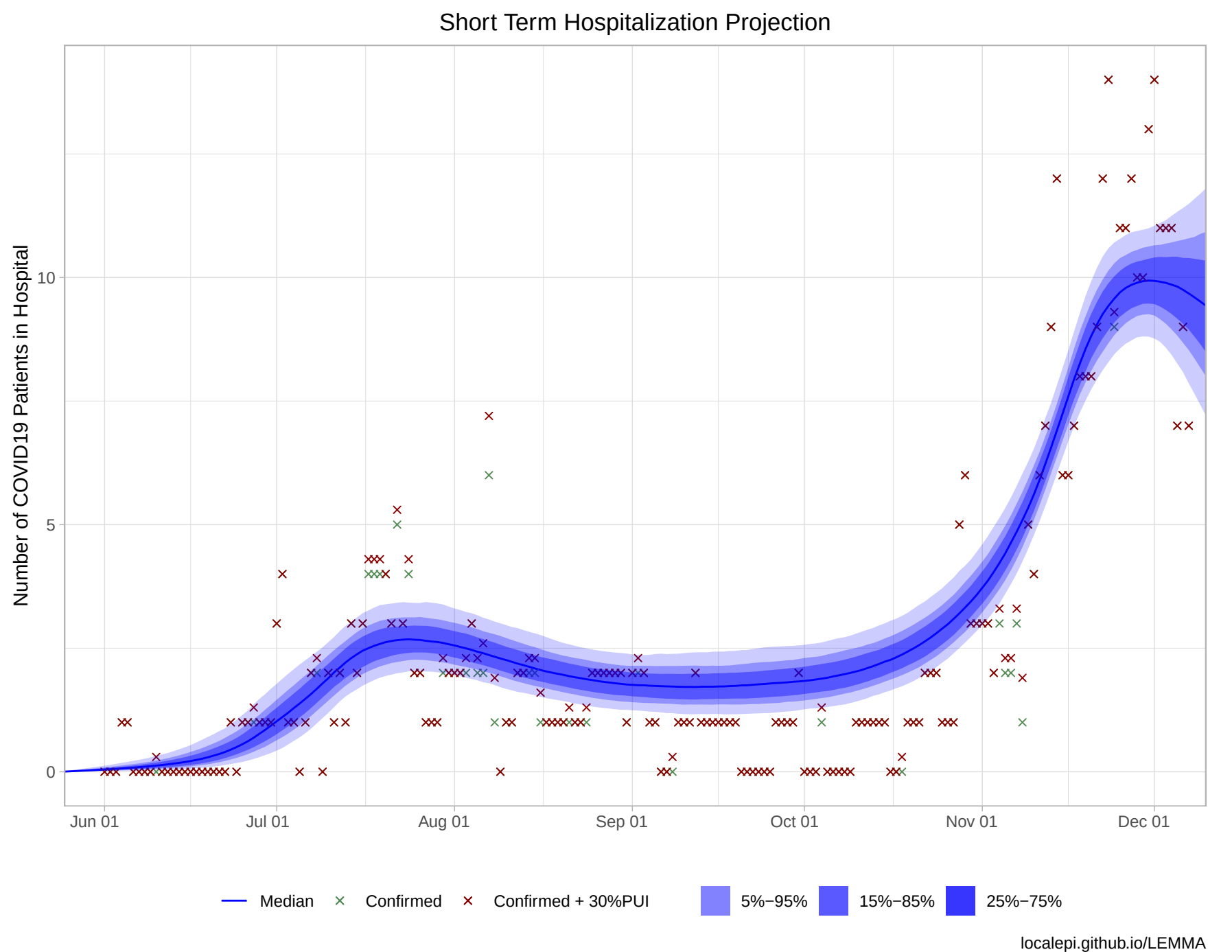
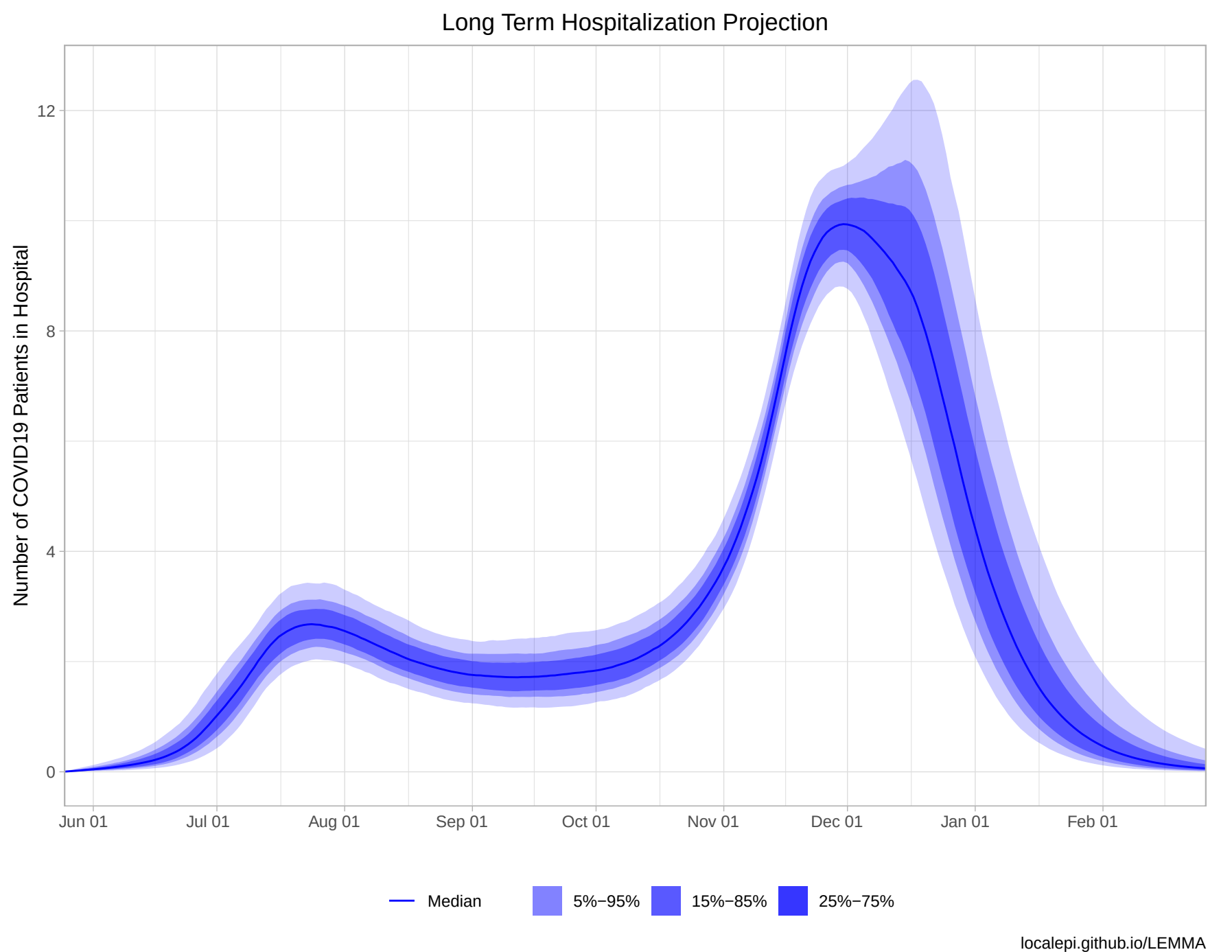
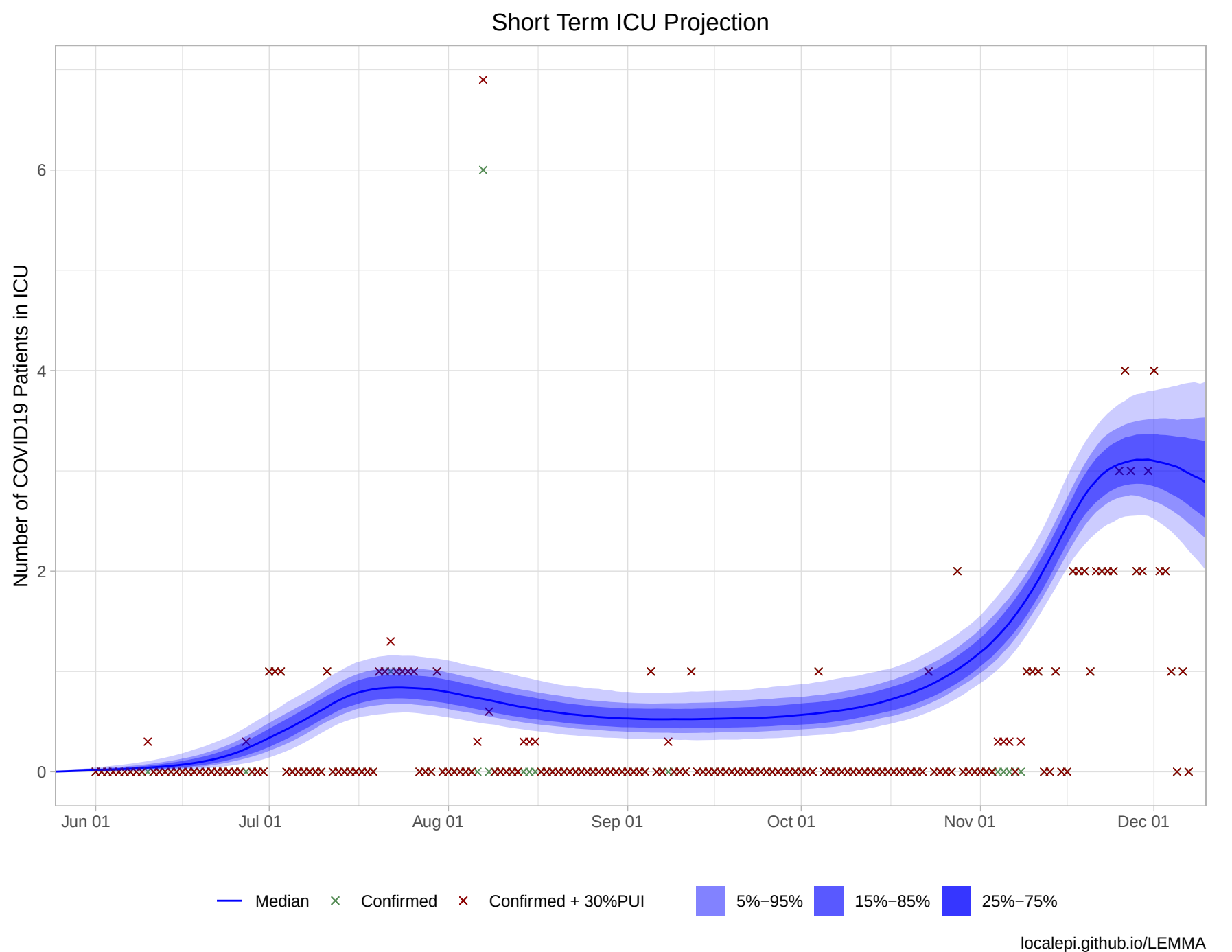
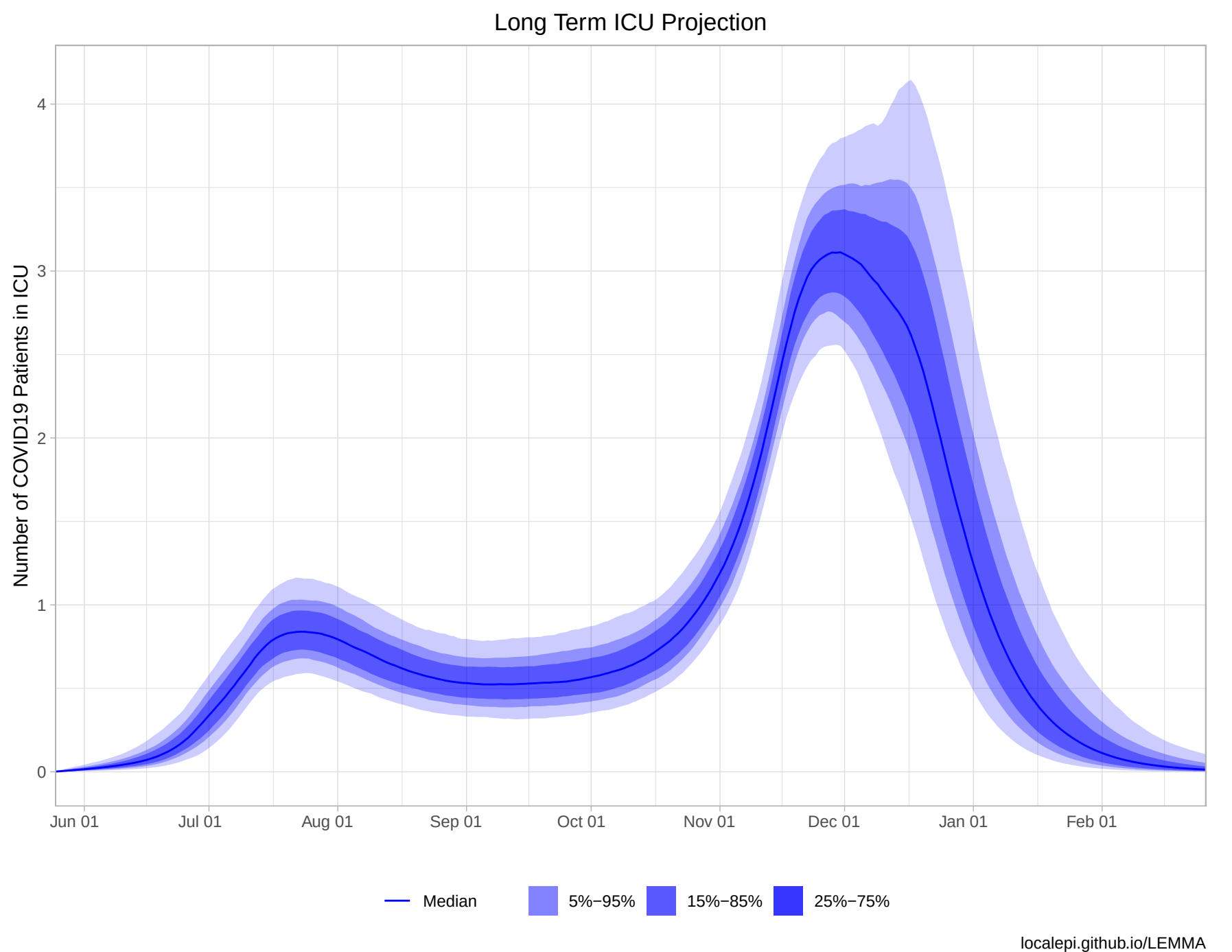
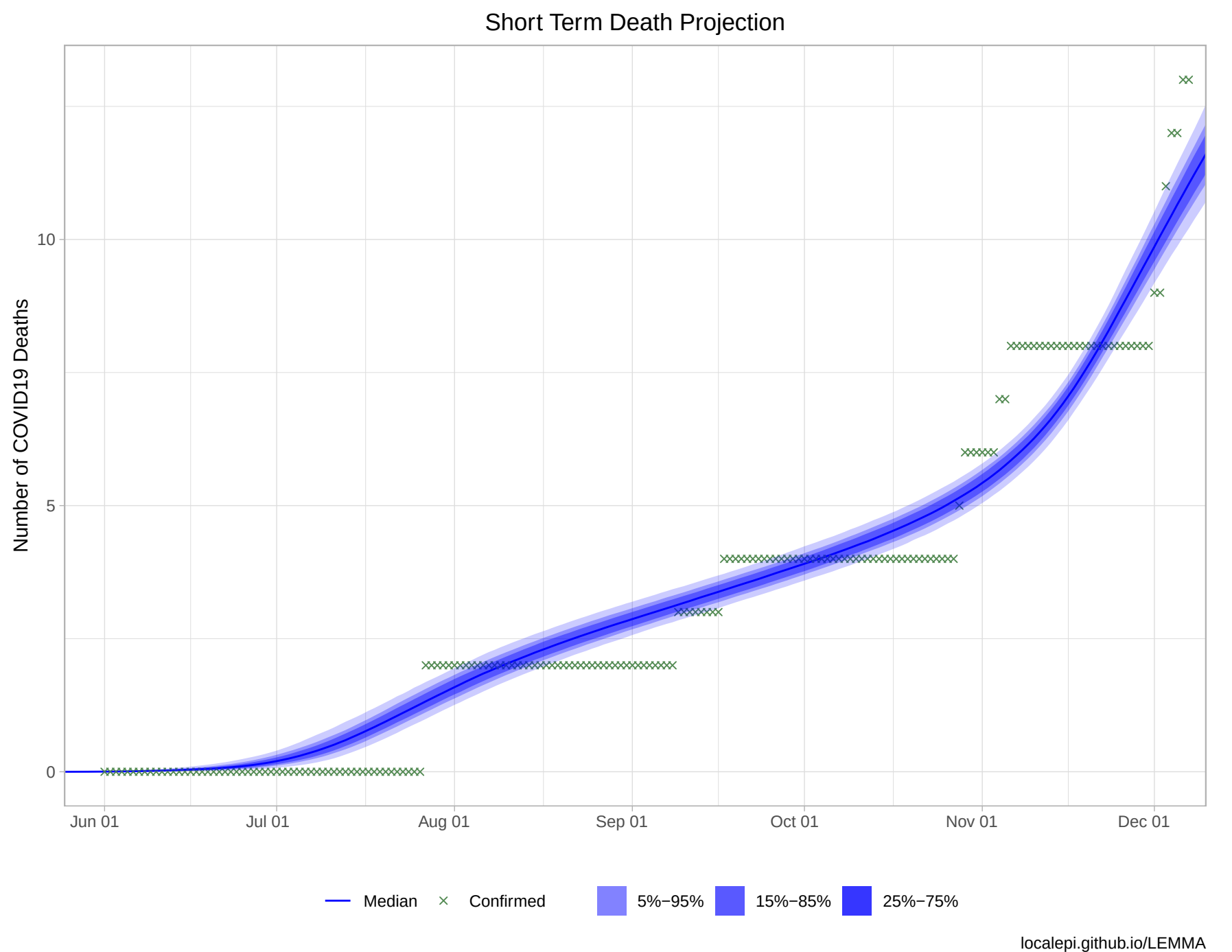
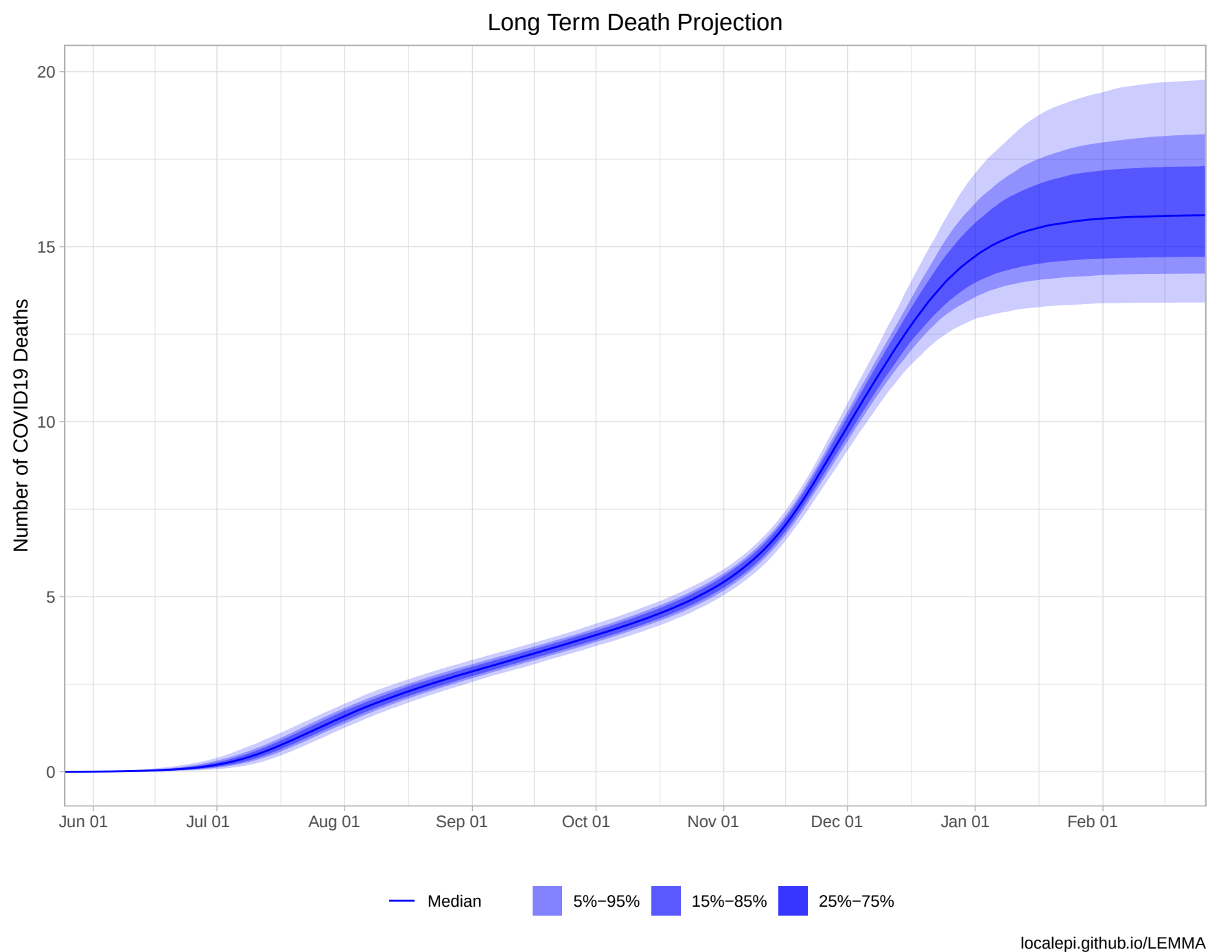

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
5
10
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

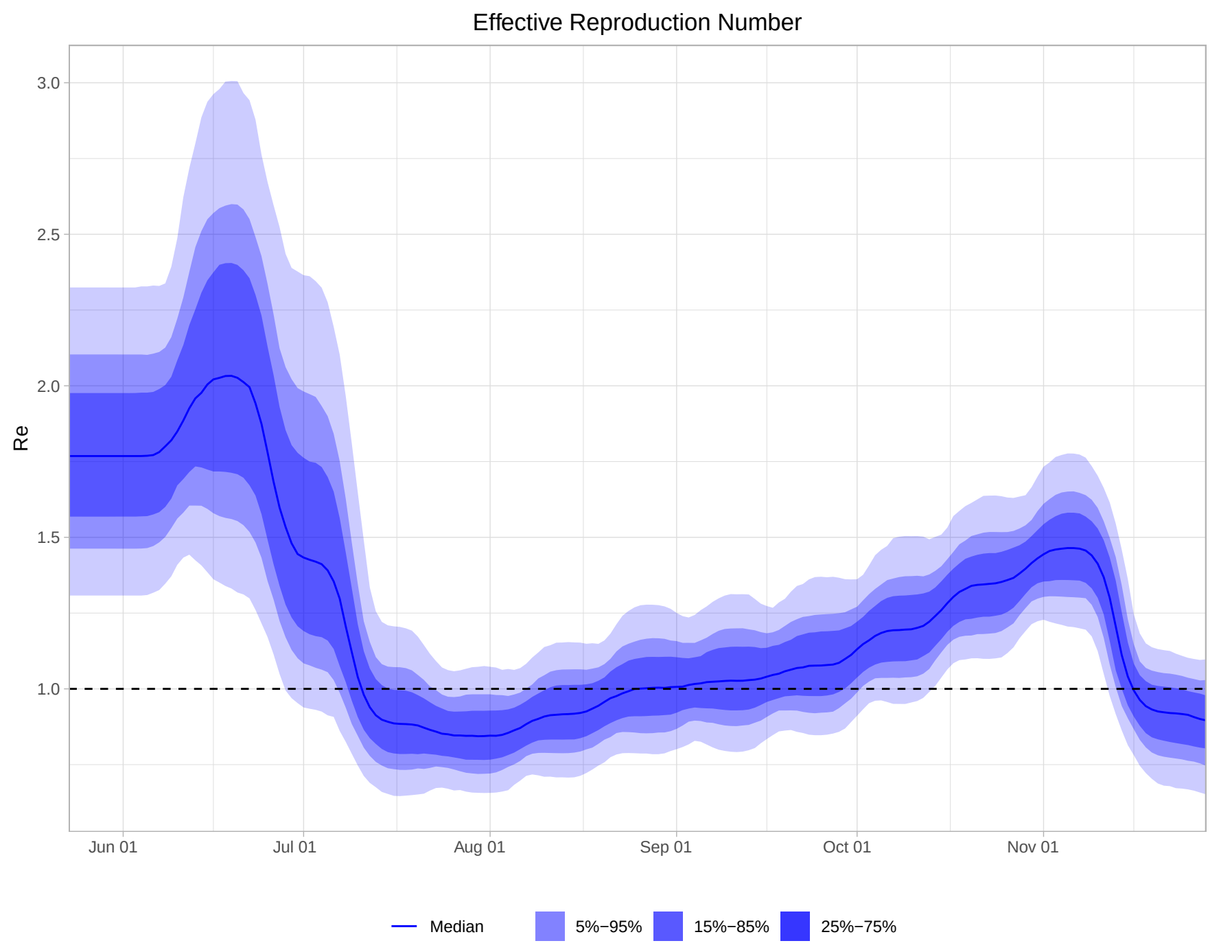

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
4
8
12
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


Short Term ICU Projection
Number of COVID19 Patients in ICU
0
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
0
1
2
3
4
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

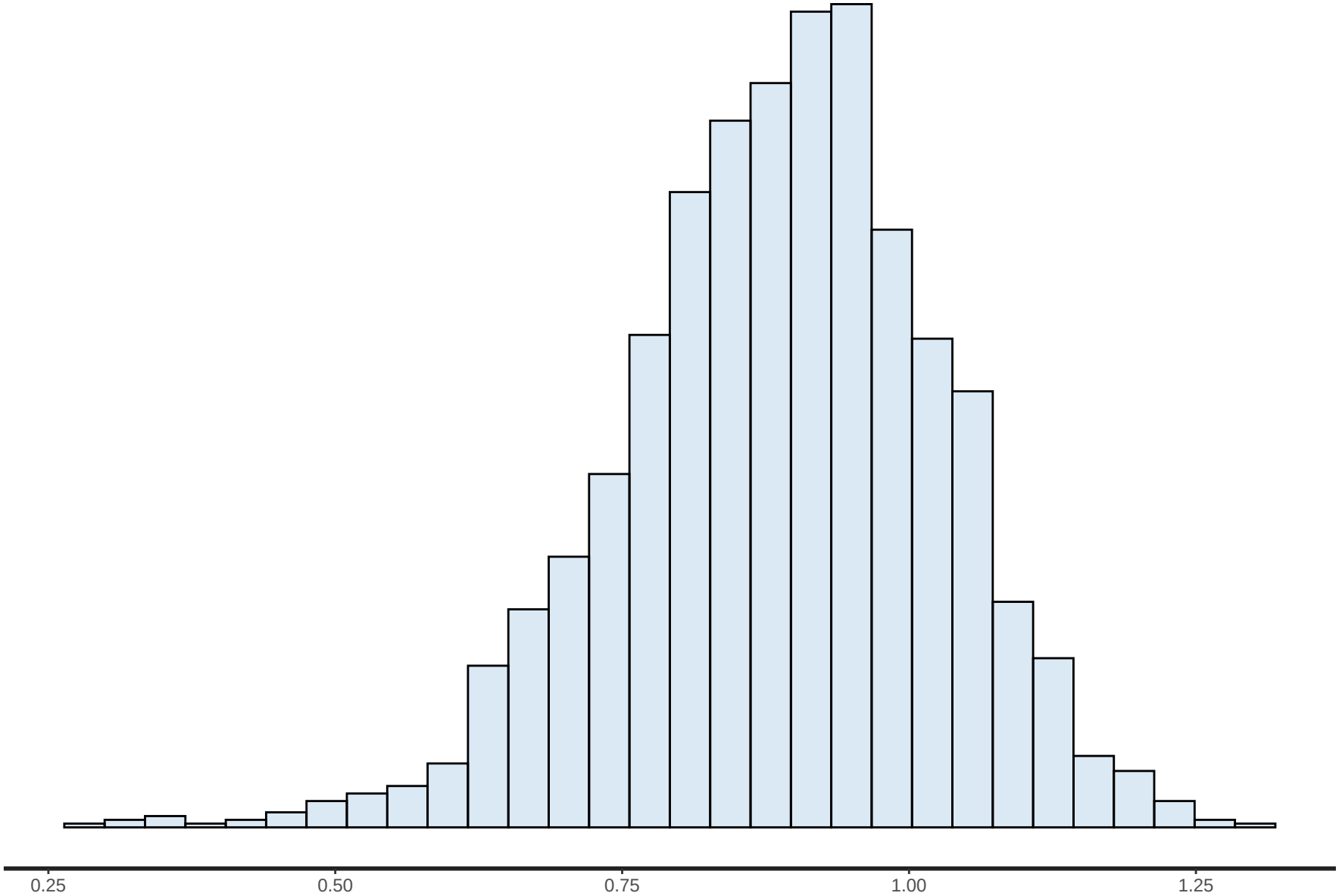

Short Term Death Projection
Number of COVID19 Deaths
0
5
10
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

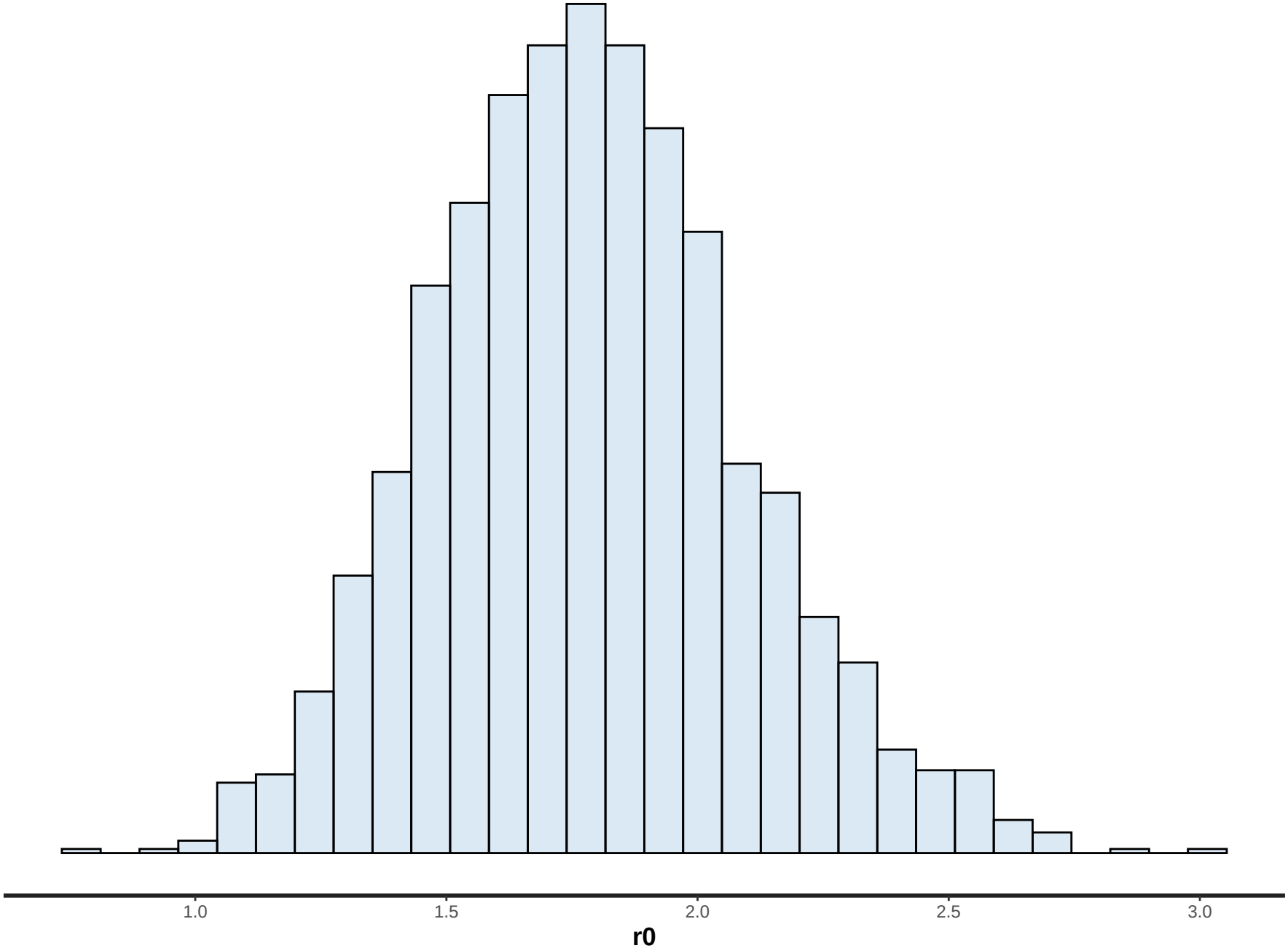

Long Term Death Projection
Number of COVID19 Deaths
20
15
10
5
0
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

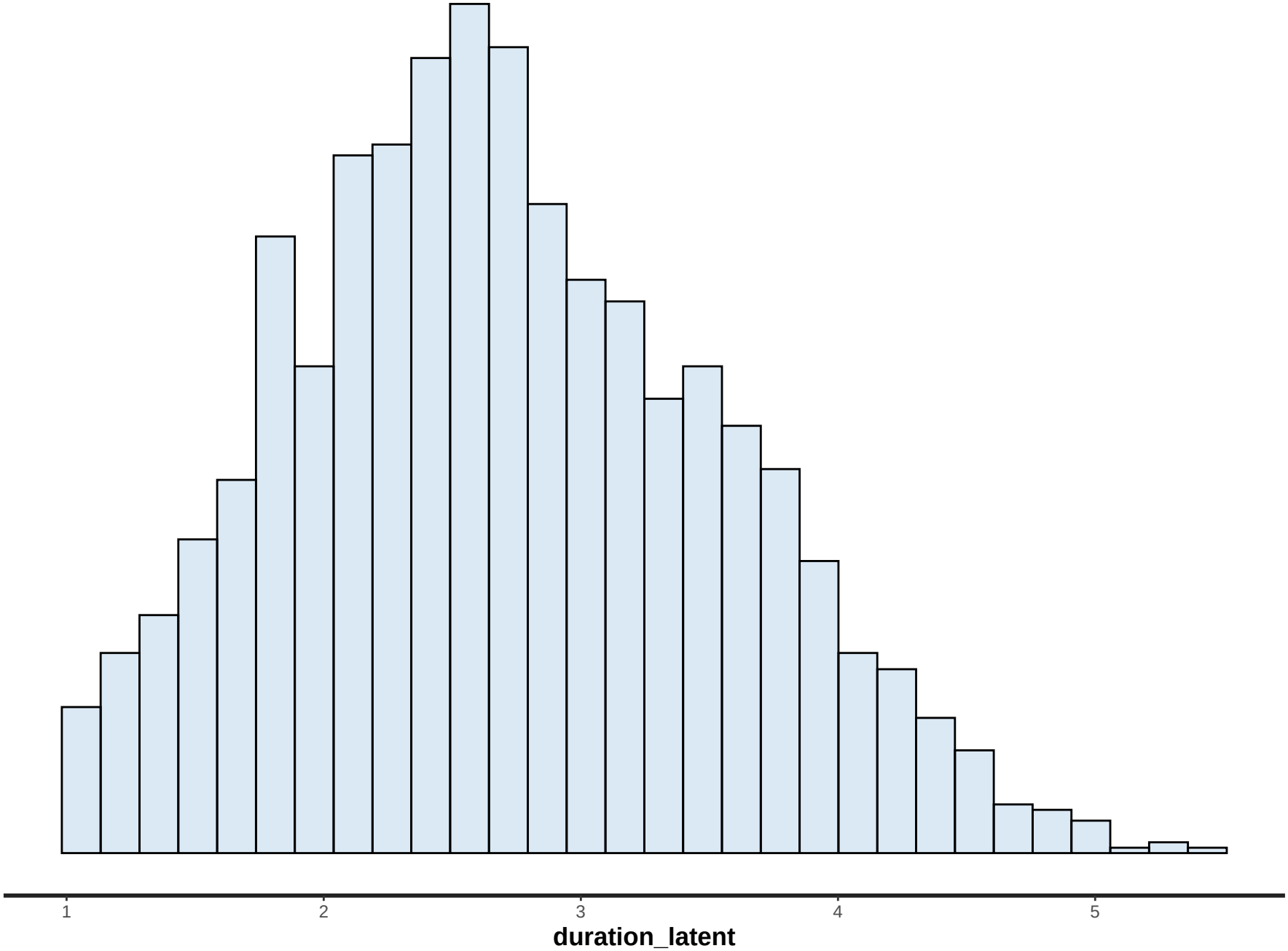

Effective Reproduction Number
Re
3.0
2.5
2.0
1.5
1.0
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Median
5%−95%
15%−85%
25%−75%

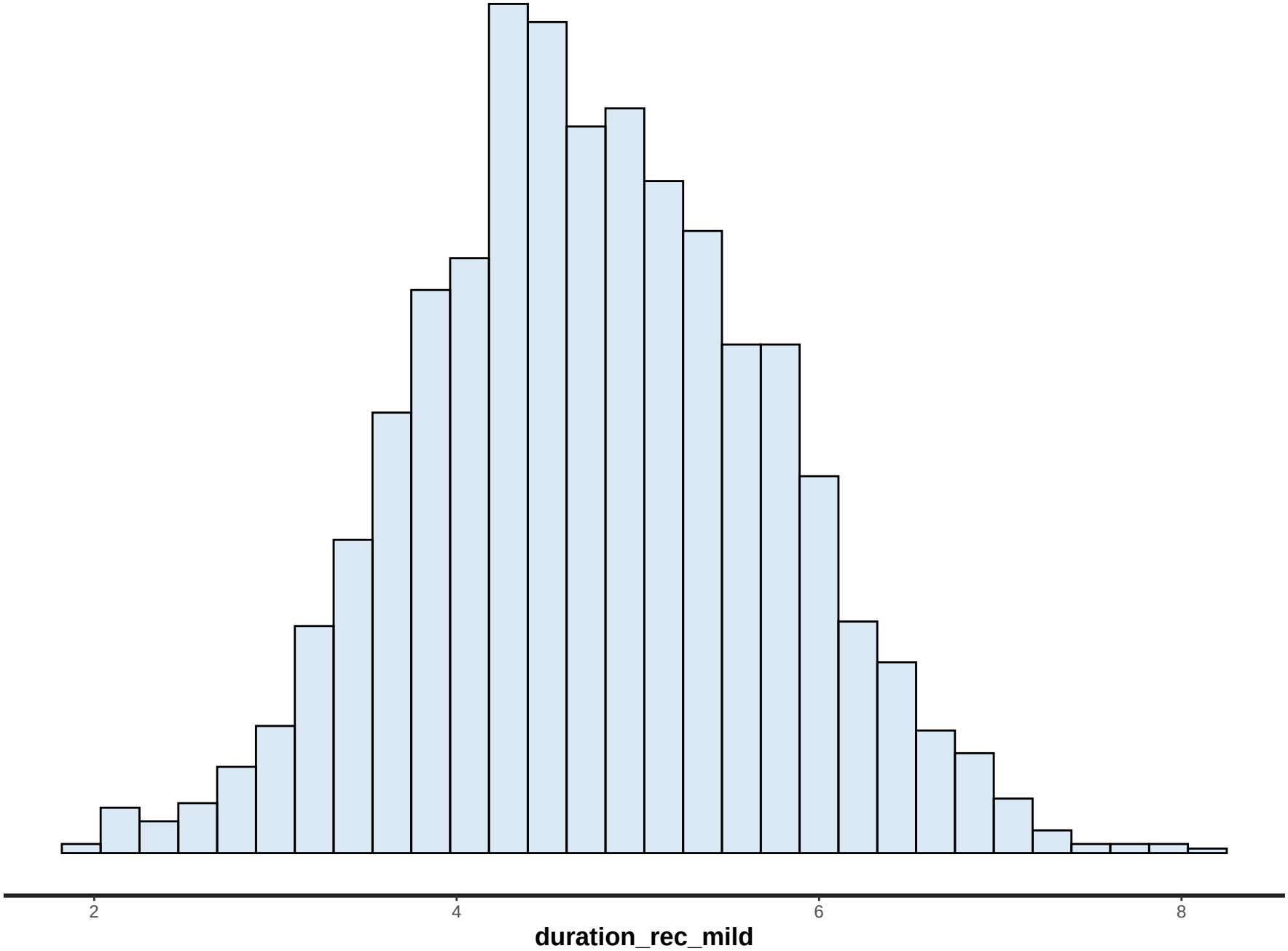
Rt as of 2020−11−28

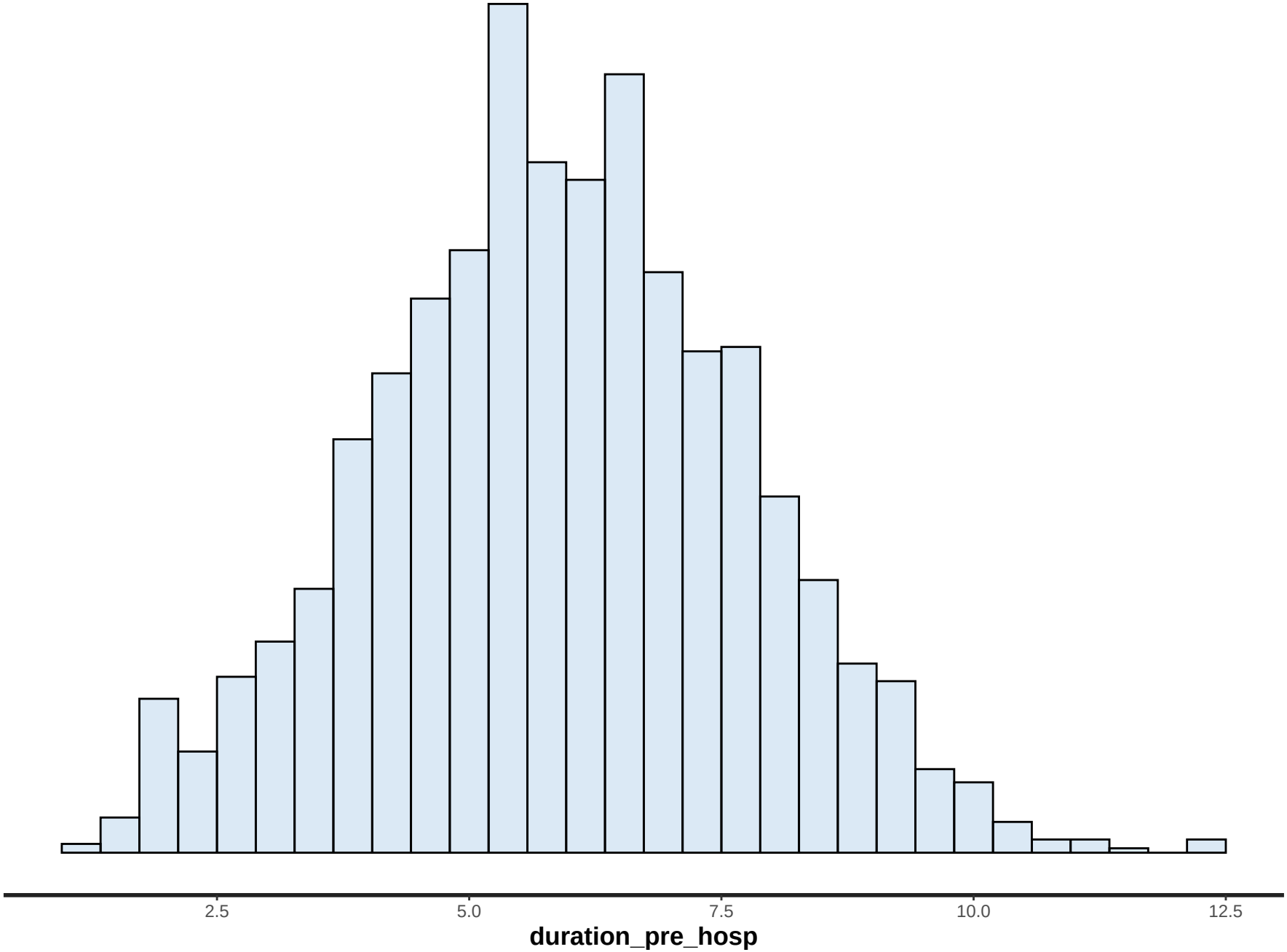
5%	10%	25%	50%	75%	90%	95%
0.65	0.71	0.80	0.90	0.98	1.06	1.10

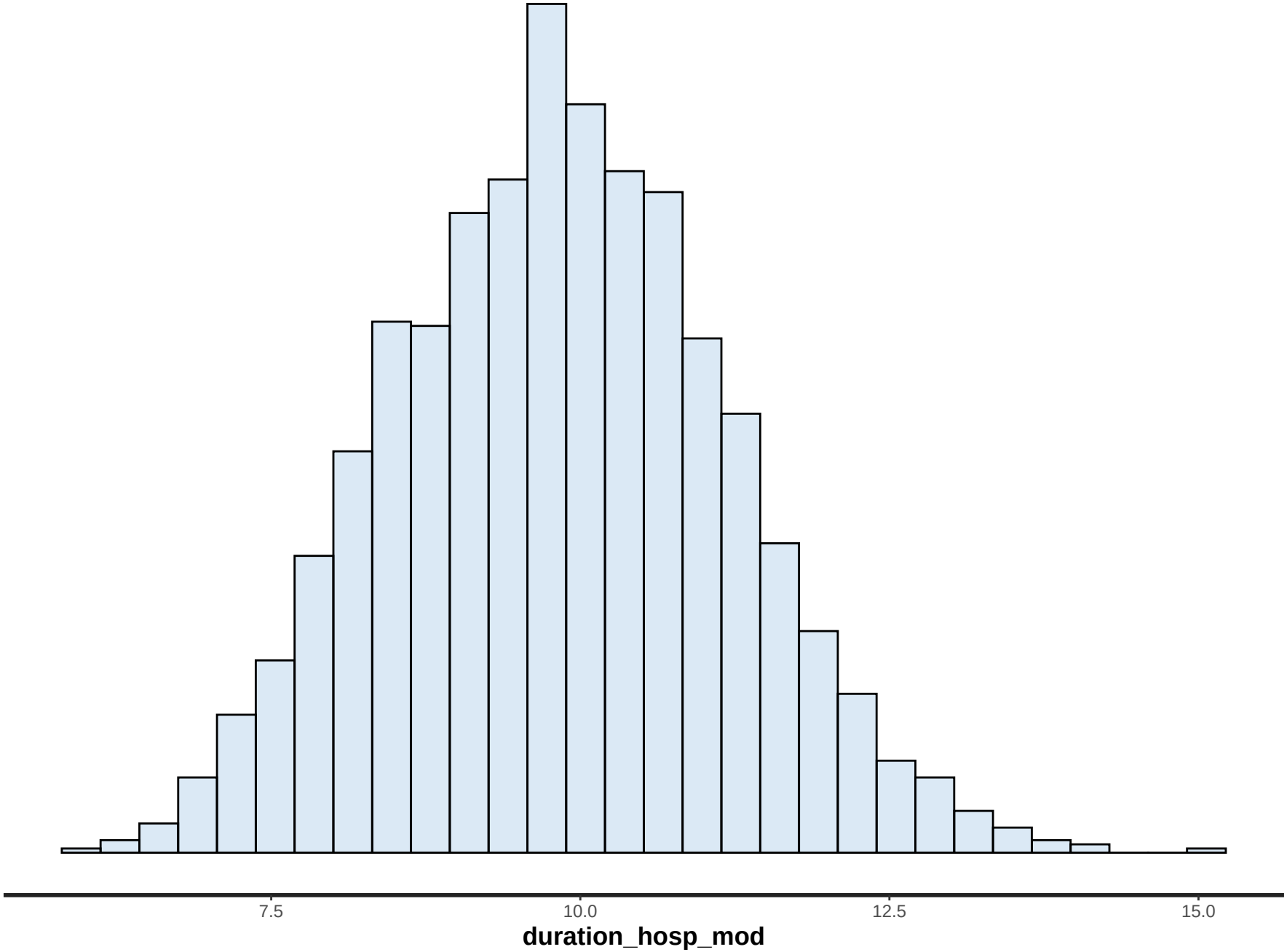


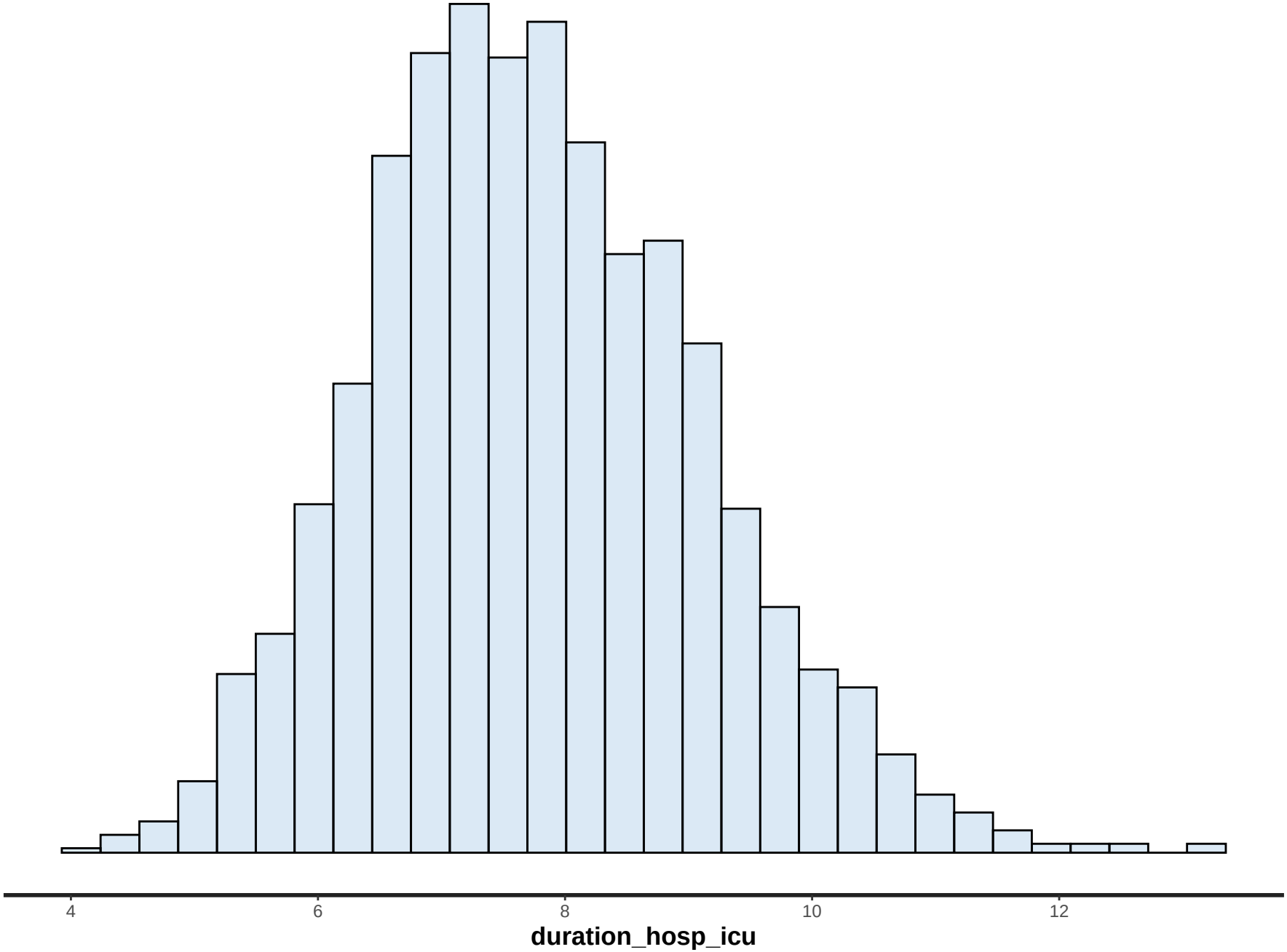

1.0
1.5
2.0
2.5
3.0
r0

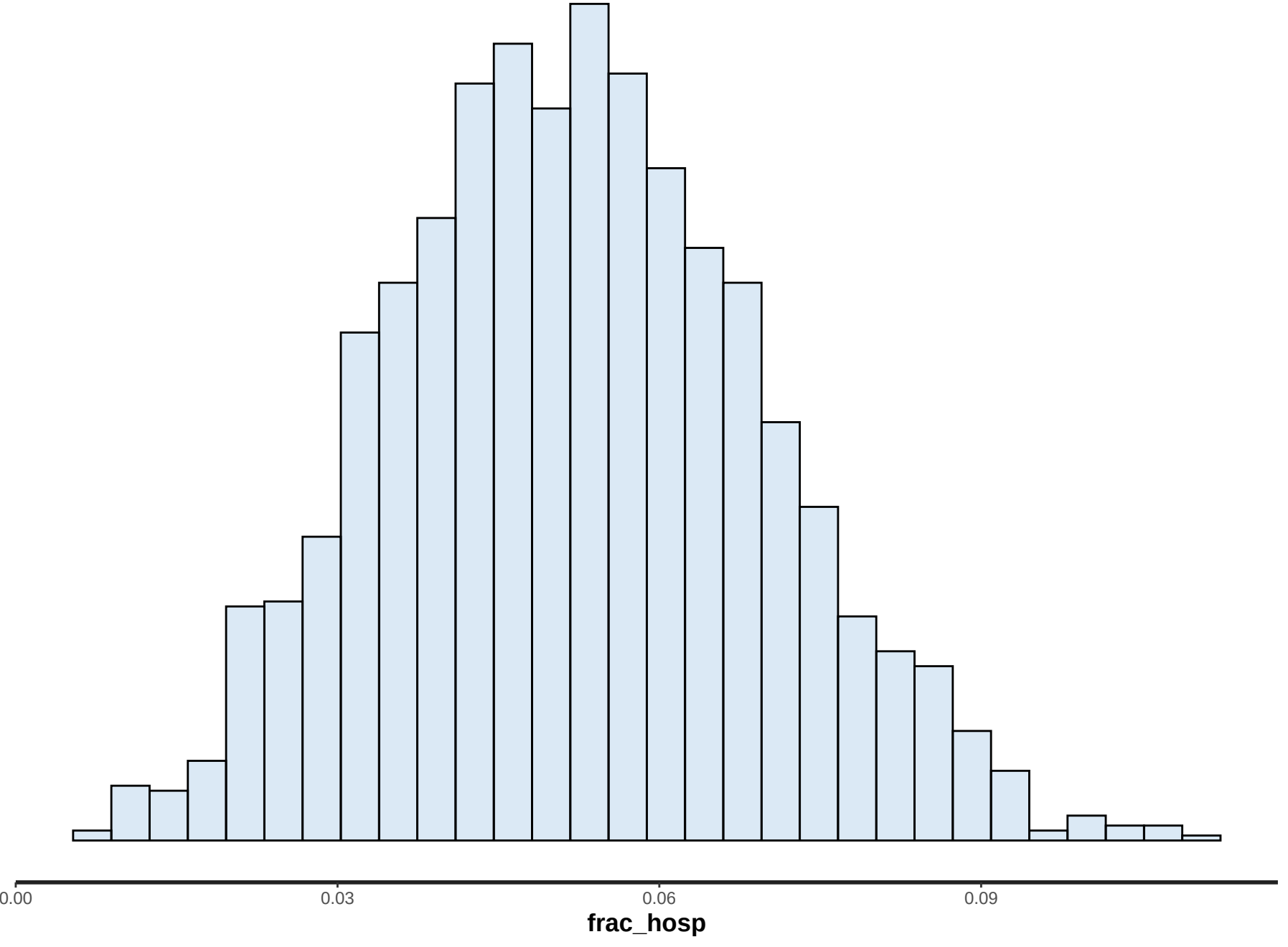

1
2
3
4
5
duration_latent

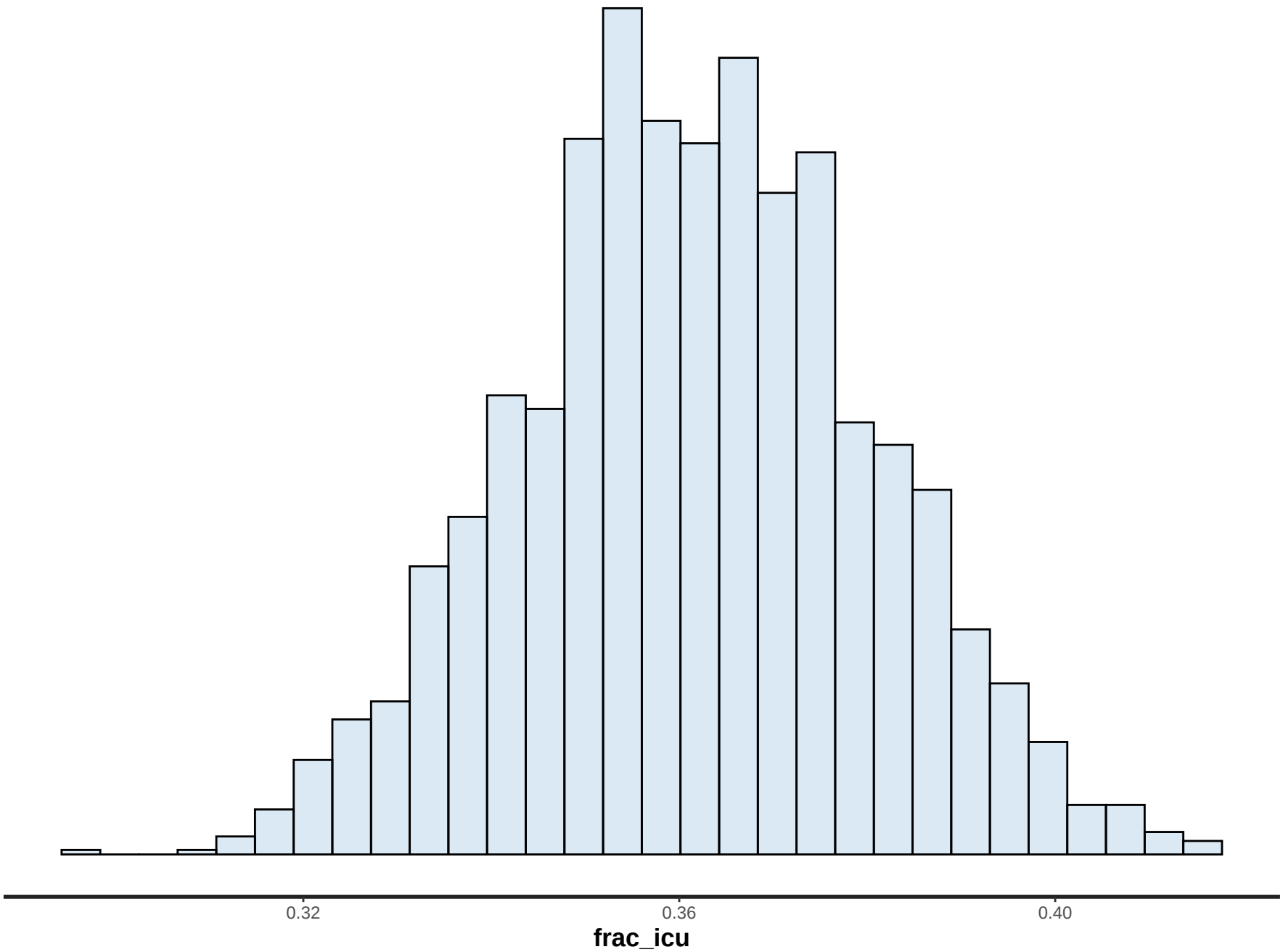

2
4
6
8
duration_rec_mild

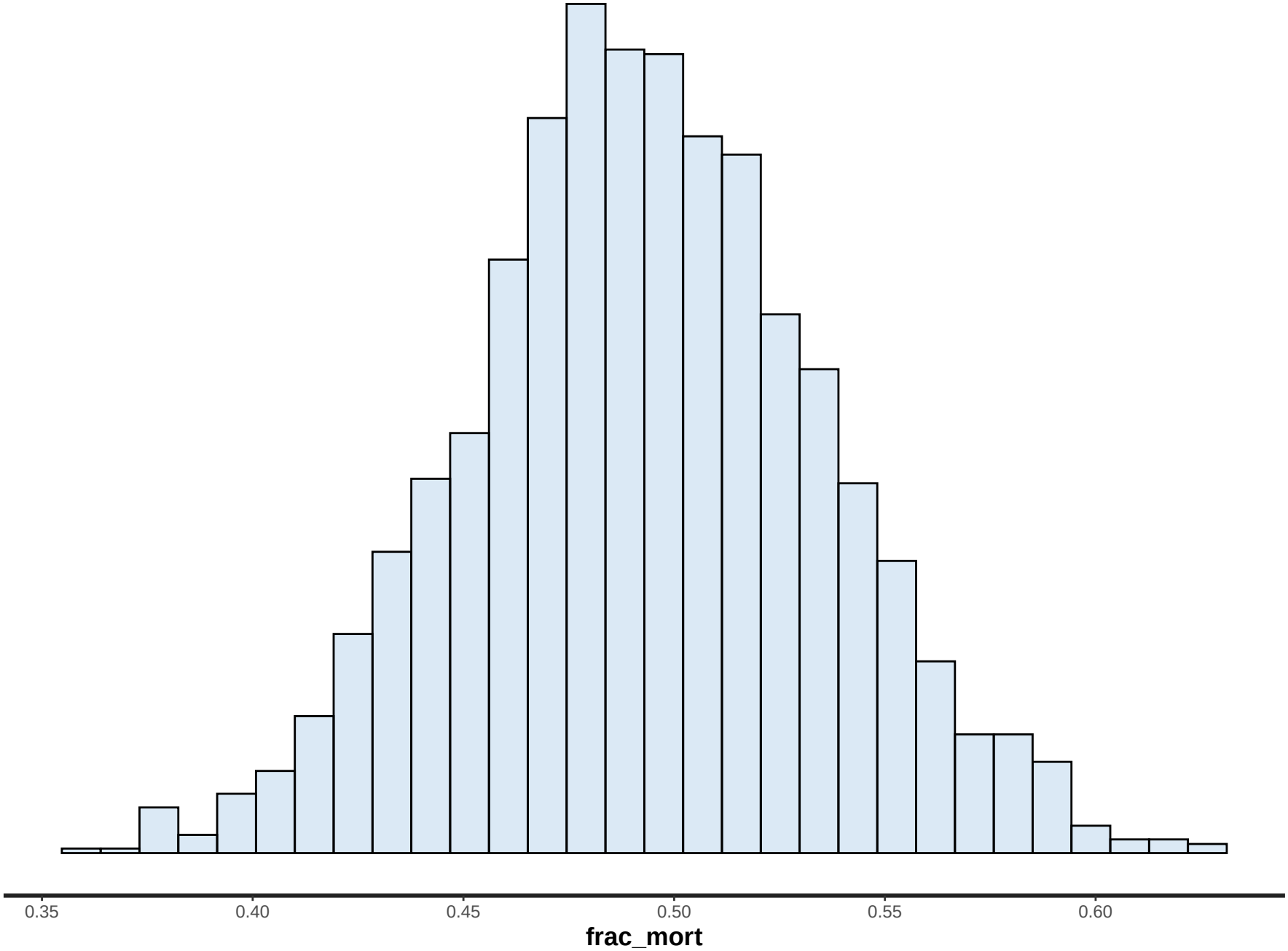

2.5
5.0
7.5
10.0
12.5
duration_pre_hosp

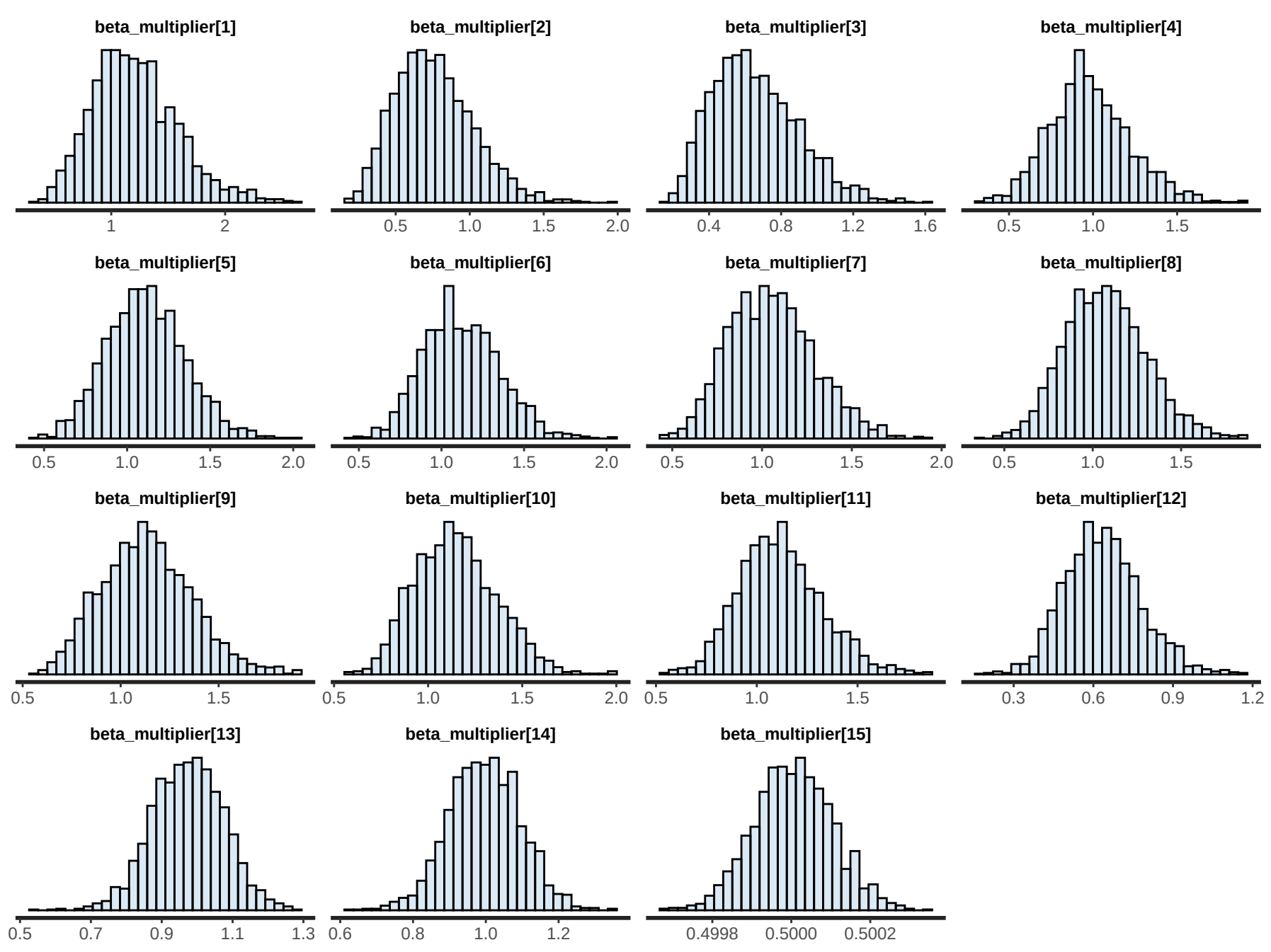

7.5
10.0
12.5
15.0
duration_hosp_mod

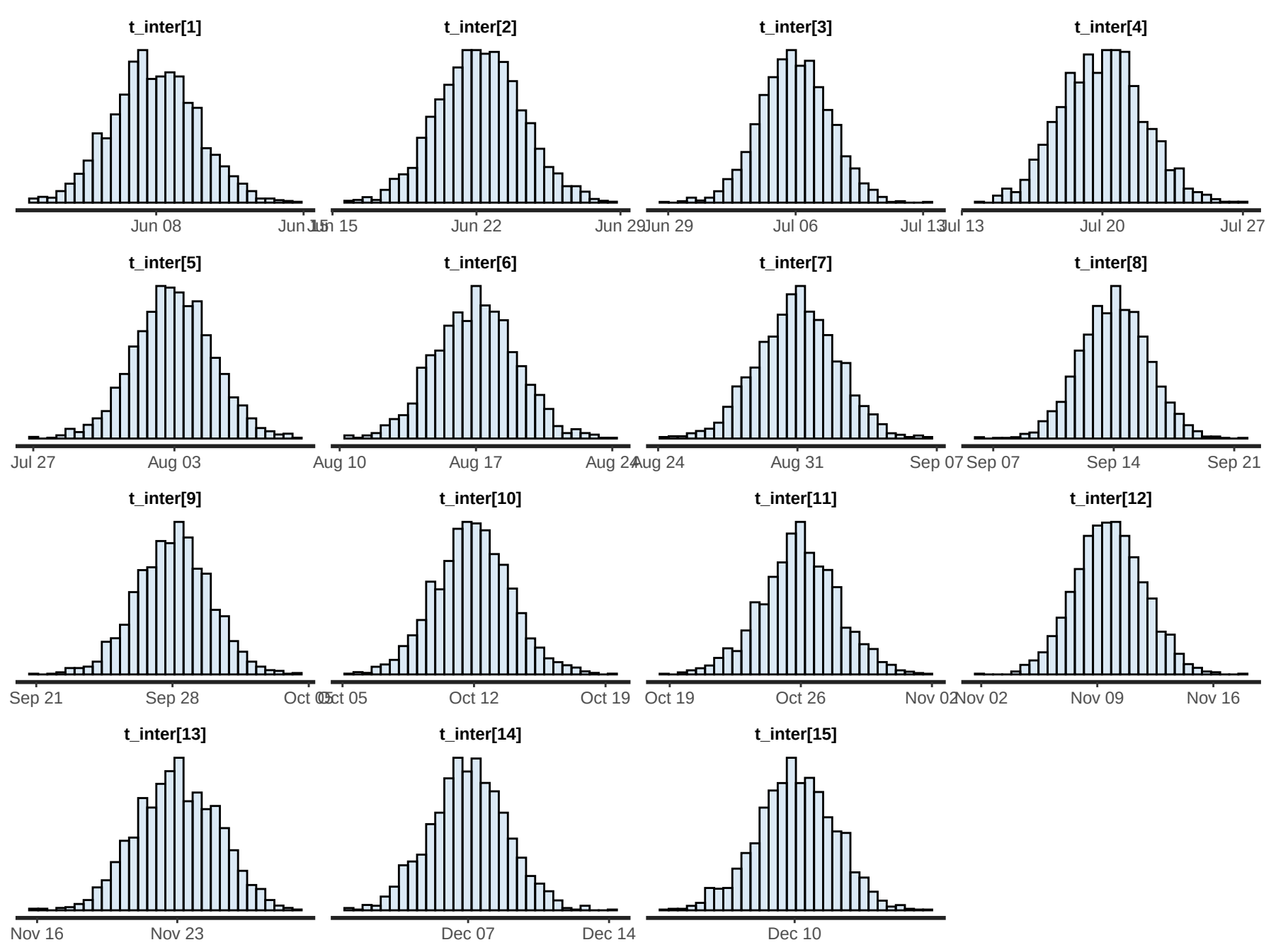

4
6
8
10
12
duration_hosp_icu

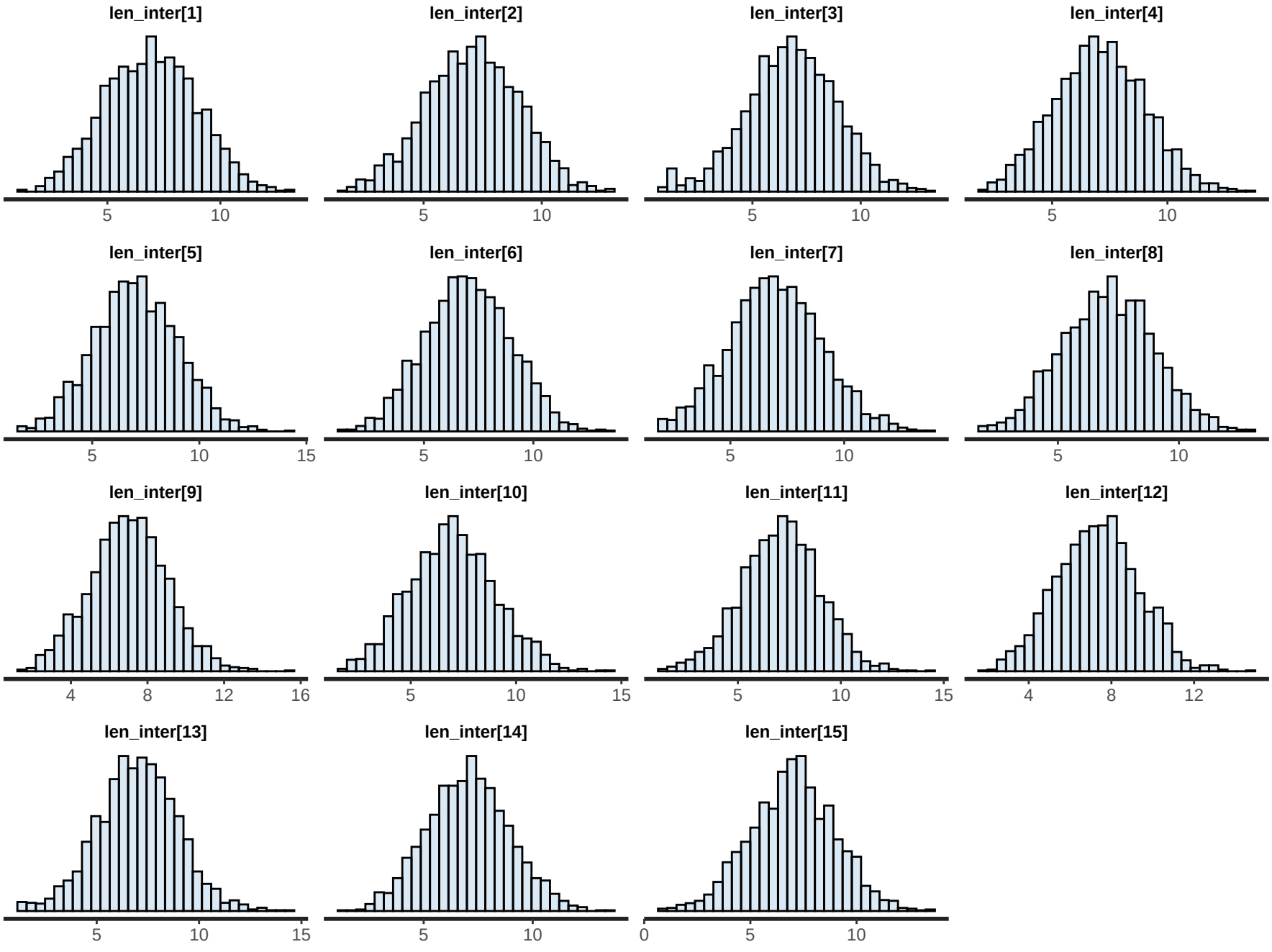

0.00
0.03
0.06
0.09
frac_hosp

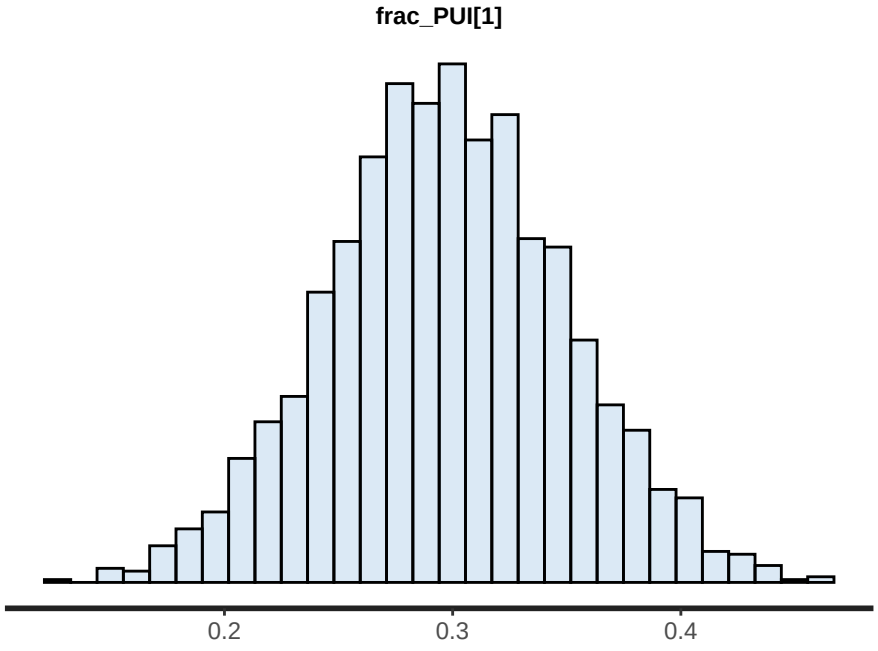

0.32
0.36
0.40
frac_icu

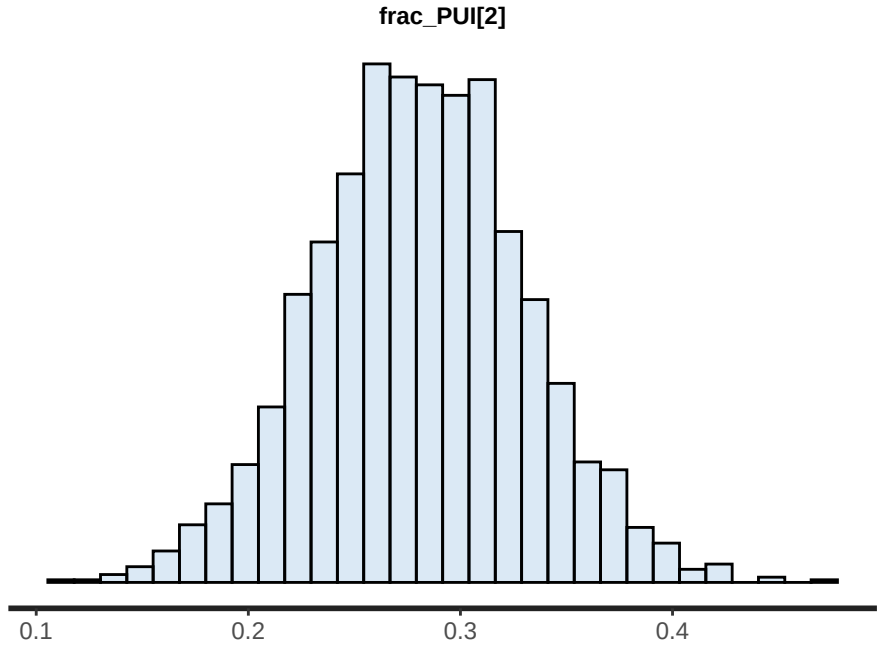

0.35
0.40
0.45
0.50
0.55
0.60
frac_mort

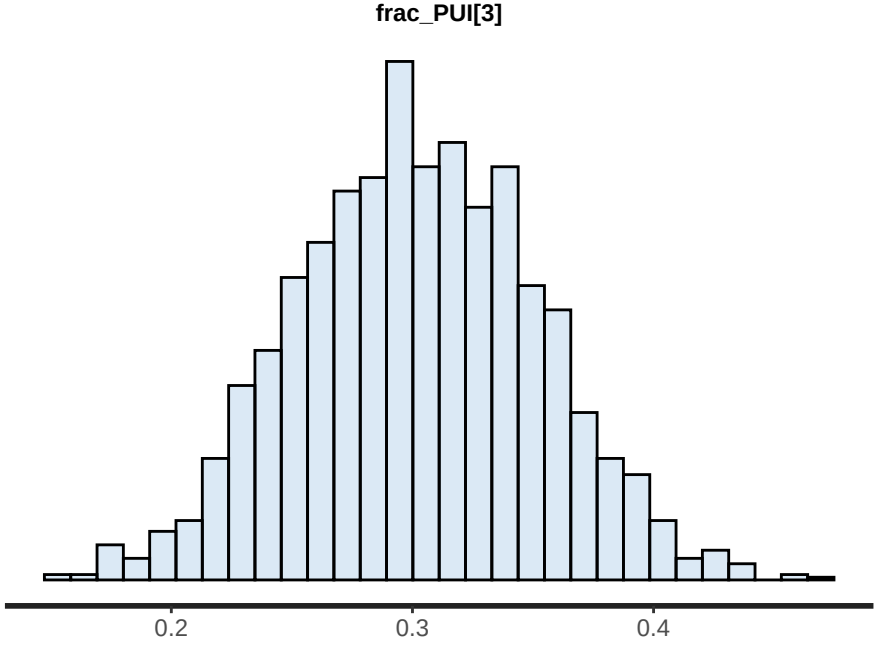

beta_multiplier[1]
1
2
beta_multiplier[2]
0.5
1.0
1.5
2.0
beta_multiplier[3]
0.4
0.8
1.2
1.6
beta_multiplier[4]
0.5
1.0
1.5
beta_multiplier[5]
0.5
1.0
1.5
2.0
beta_multiplier[6]
0.5
1.0
1.5
2.0
beta_multiplier[7]
0.5
1.0
1.5
2.0
beta_multiplier[8]
0.5
1.0
1.5
beta_multiplier[9]
0.5
1.0
1.5
beta_multiplier[10]
0.5
1.0
1.5
2.0
beta_multiplier[11]
0.5
1.0
1.5
beta_multiplier[12]
0.3
0.6
0.9
1.2
beta_multiplier[13]
0.5
0.7
0.9
1.1
1.3
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
Jun 29
t_inter[3]
Jun 29
Jul 06
Jul 13
t_inter[4]
Jul 13
Jul 20
Jul 27
t_inter[5]
Jul 27
Aug 03
t_inter[6]
Aug 10
Aug 17
Aug 24
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
Oct 05
t_inter[10]
Oct 05
Oct 12
Oct 19
t_inter[11]
Oct 19
Oct 26
Nov 02
t_inter[12]
Nov 02
Nov 09
Nov 16
t_inter[13]
Nov 16
Nov 23
t_inter[14]
Dec 07
Dec 14
t_inter[15]
Dec 10


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]
0.2
0.3
0.4


frac_PUI[2]
0.1
0.2
0.3
0.4


frac_PUI[3]
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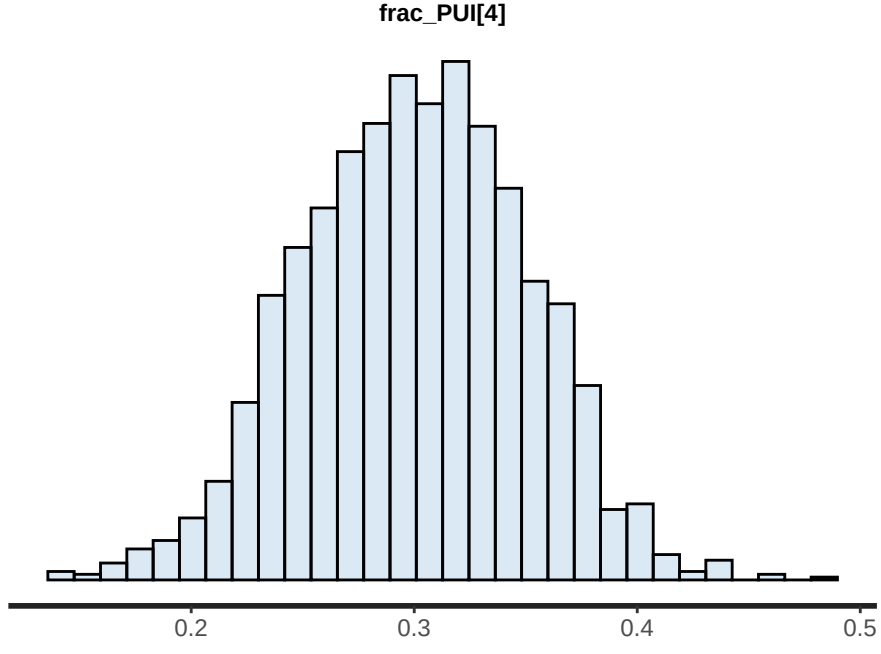
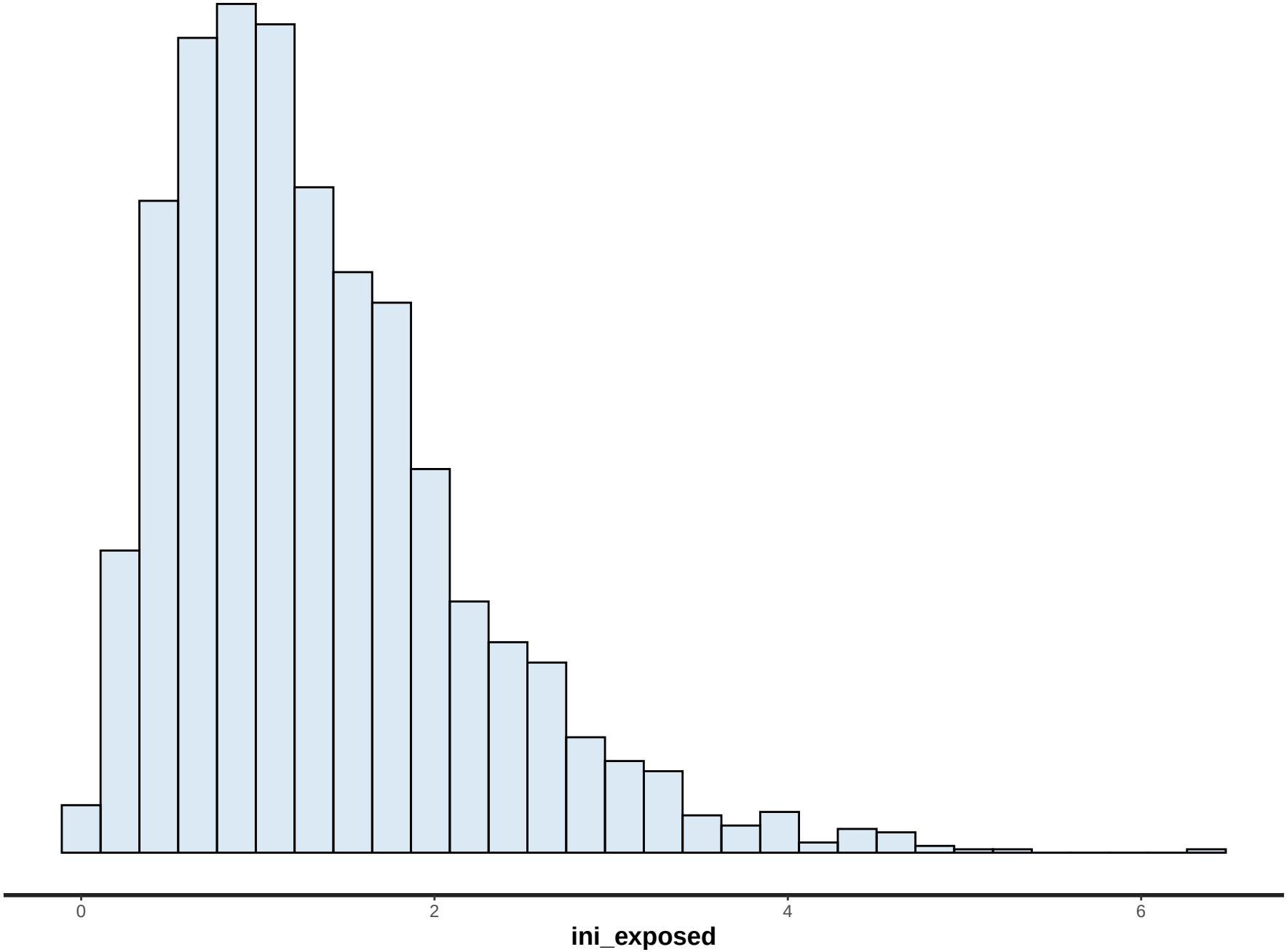
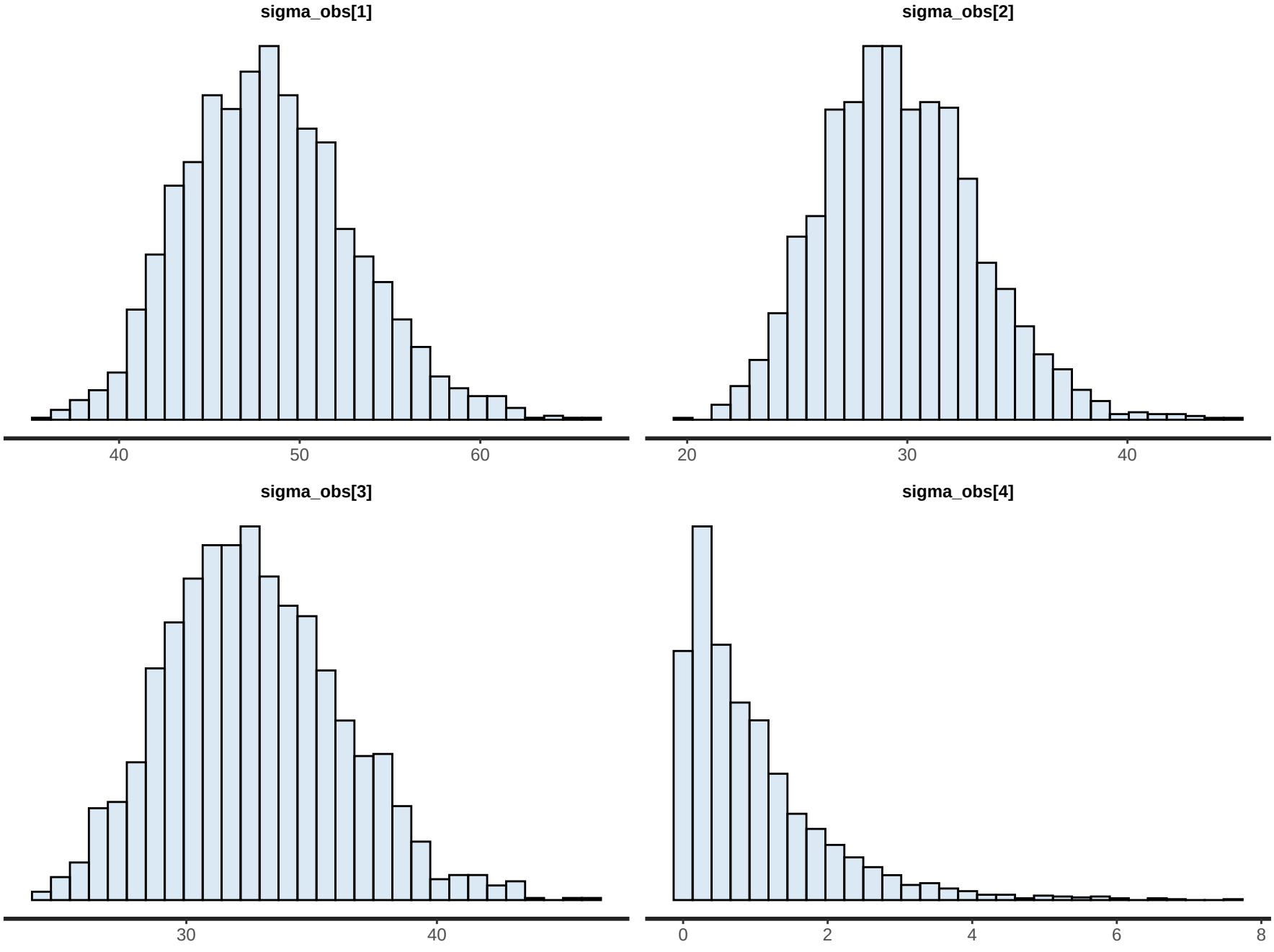
0.3
0.4


frac_PUI[4]
0.2
0.3
0.4
0.5


0
2
4
6
ini_exposed


sigma_obs[1]
40
50
60
sigma_obs[2]
20
30
40
sigma_obs[3]
30
40
sigma_obs[4]
0
2
4
6
8