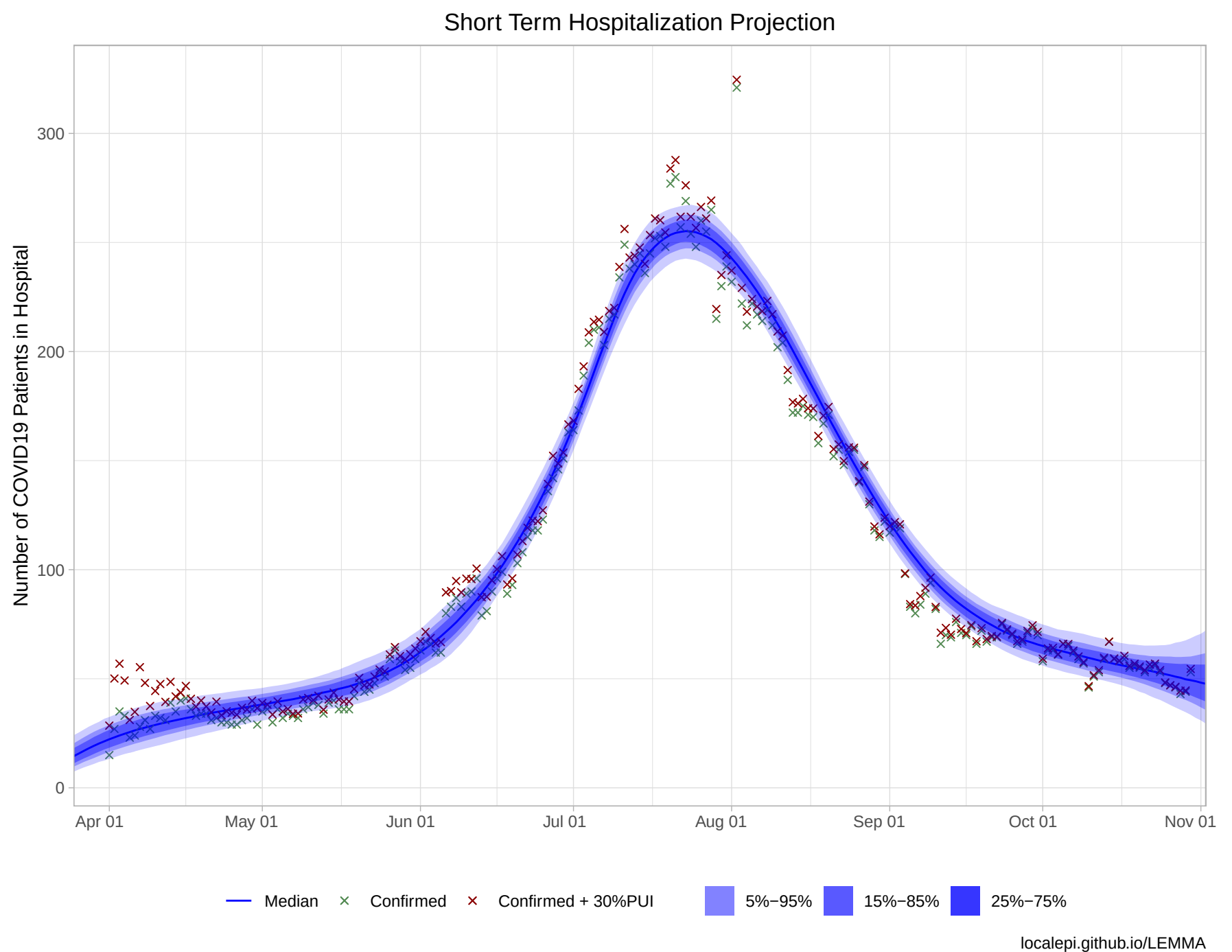
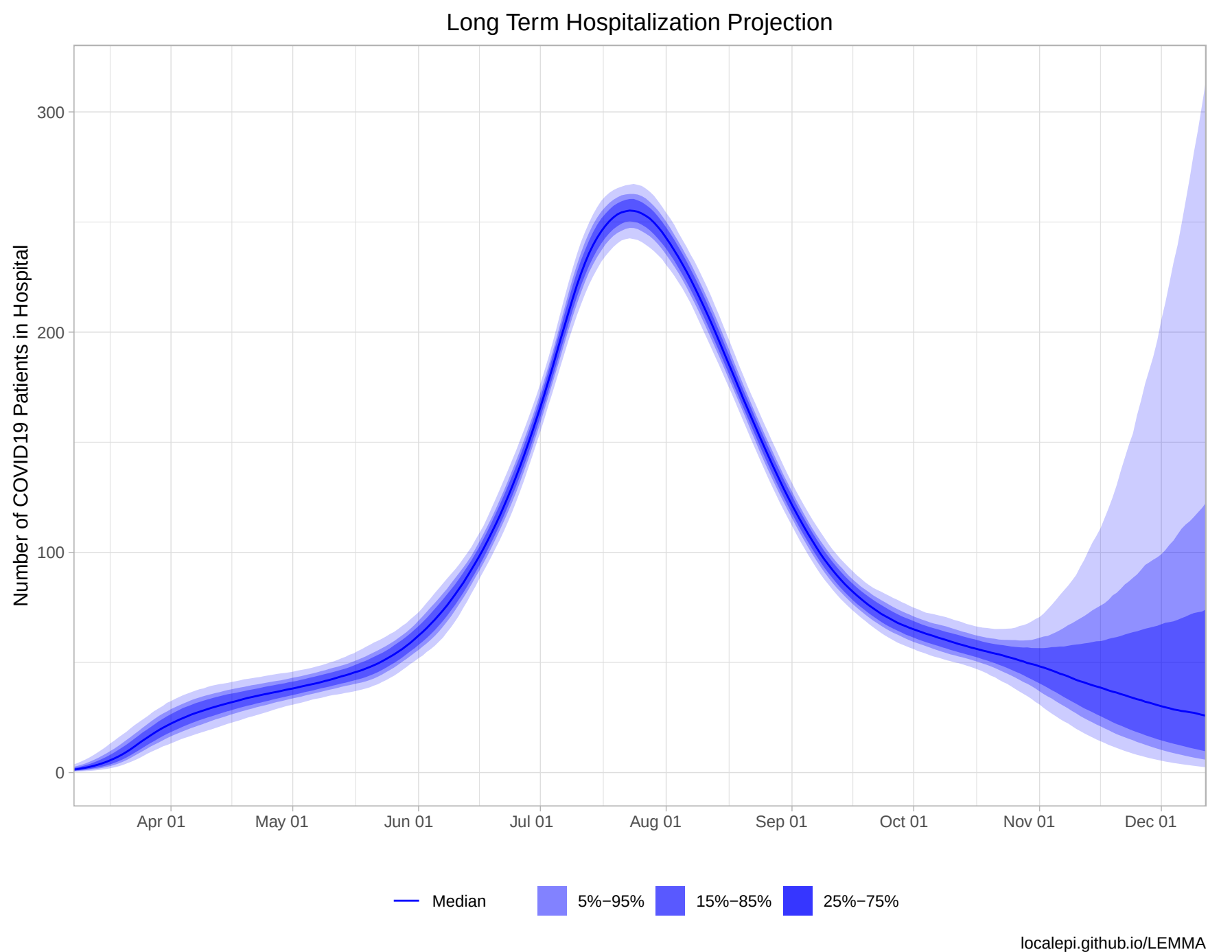
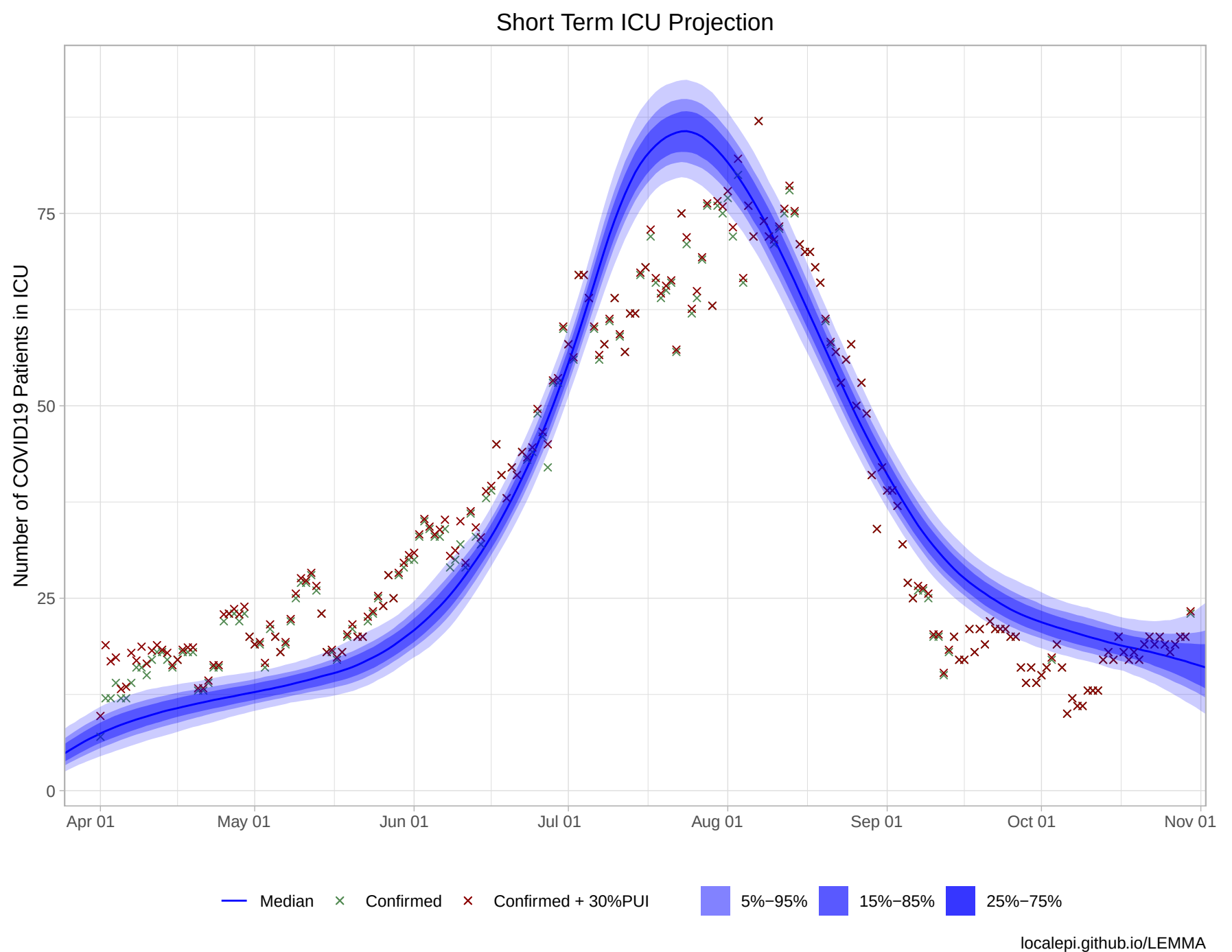
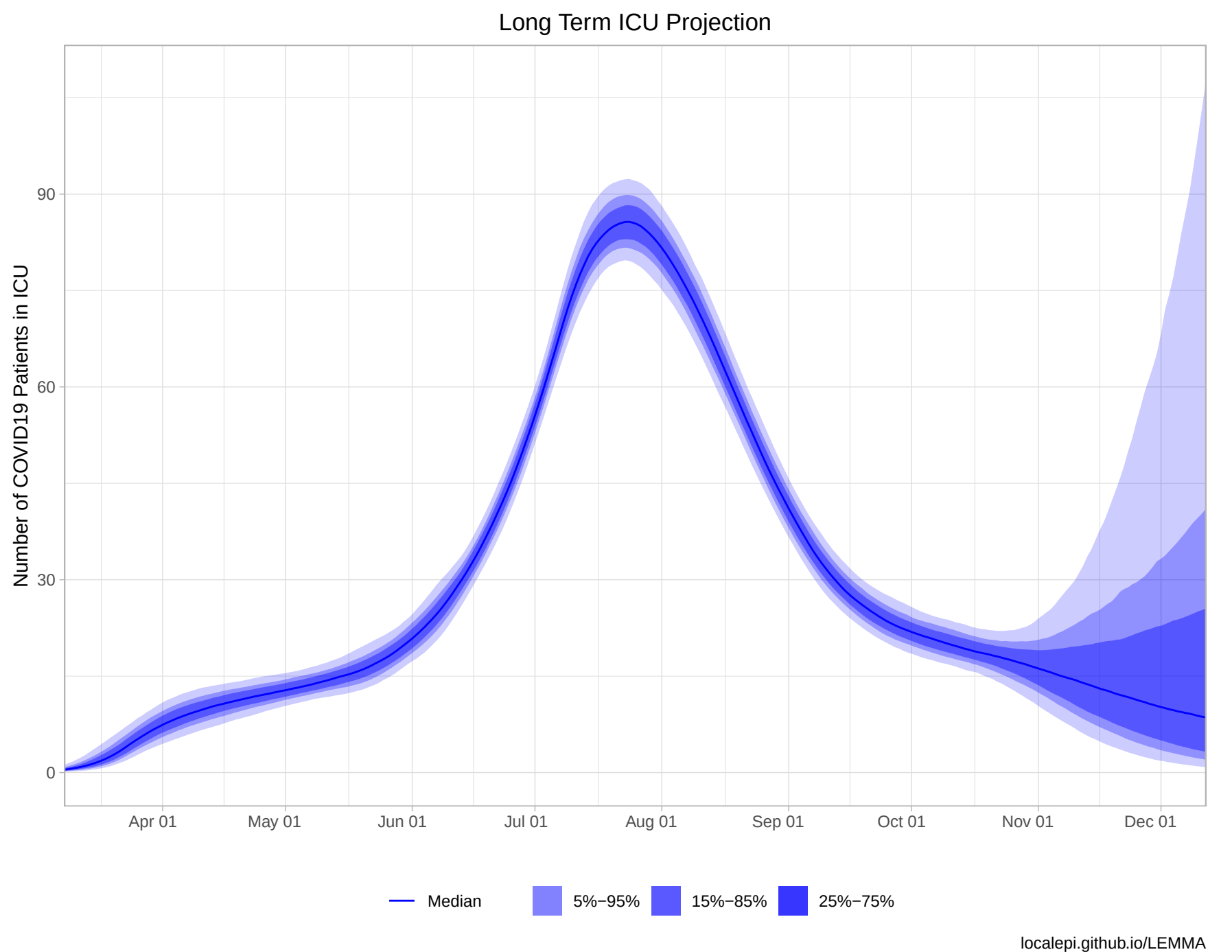
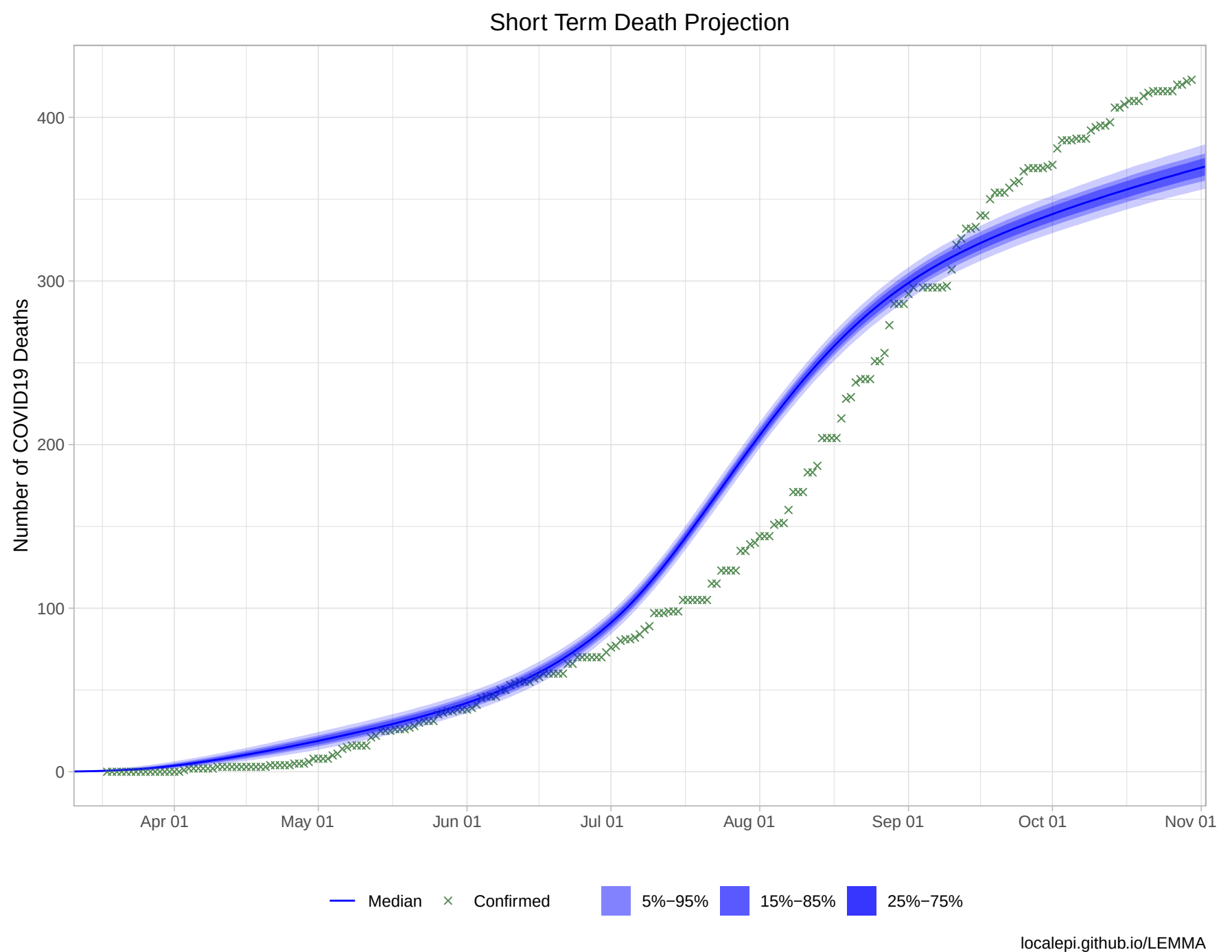
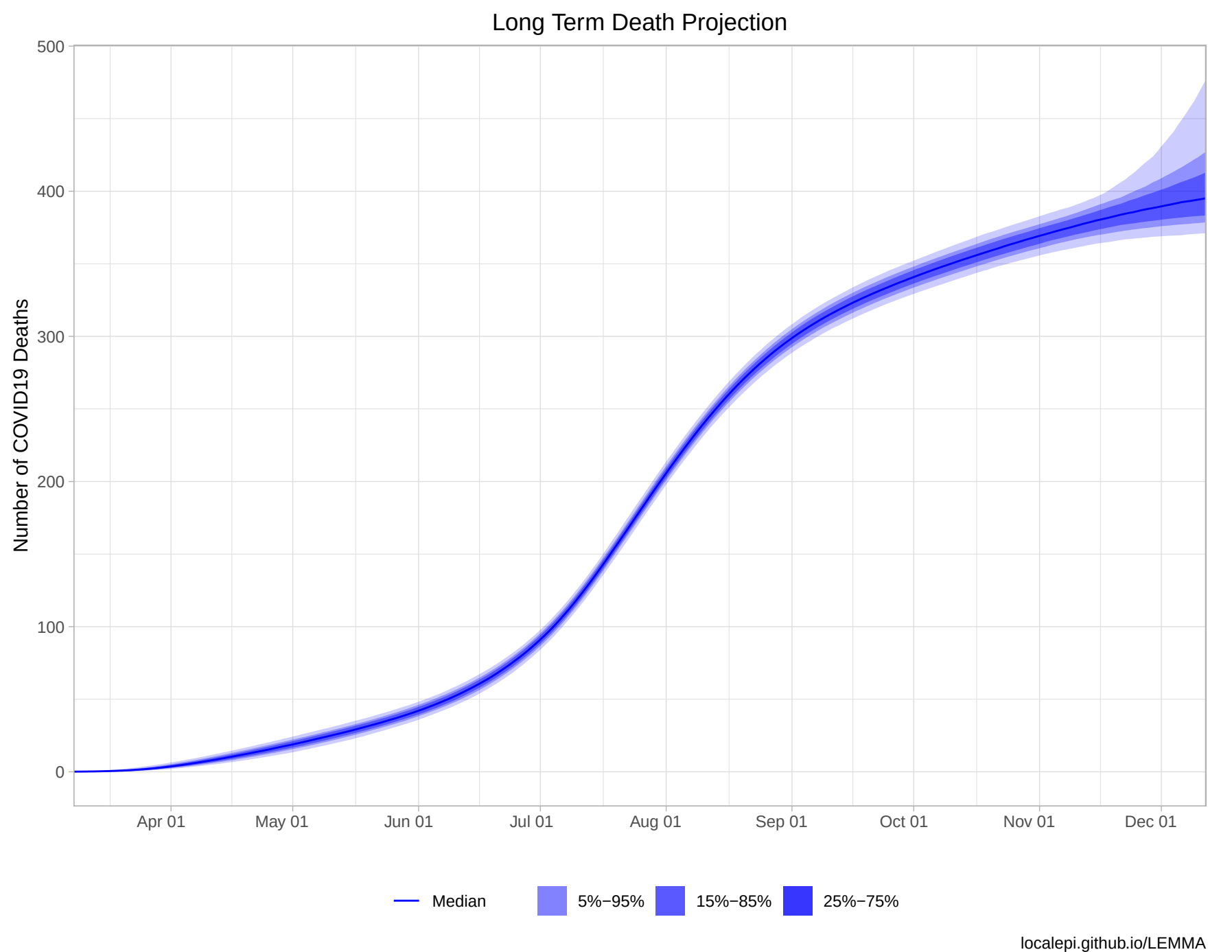

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
300
200
100
0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

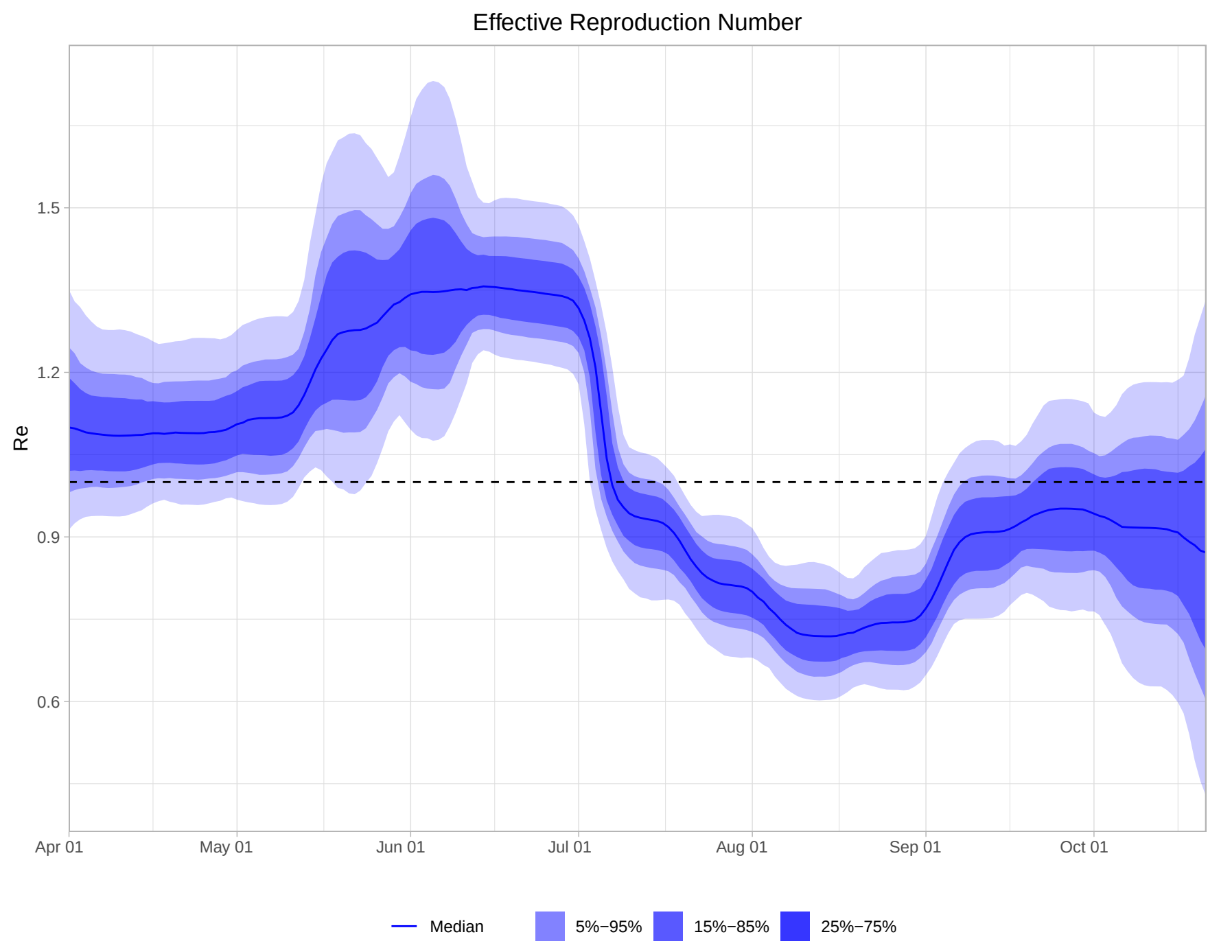

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
300
200
100
0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


Short Term ICU Projection
Number of COVID19 Patients in ICU
0
25
50
75
Apr 01
May 01
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
30
60
90
Apr 01
May 01
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

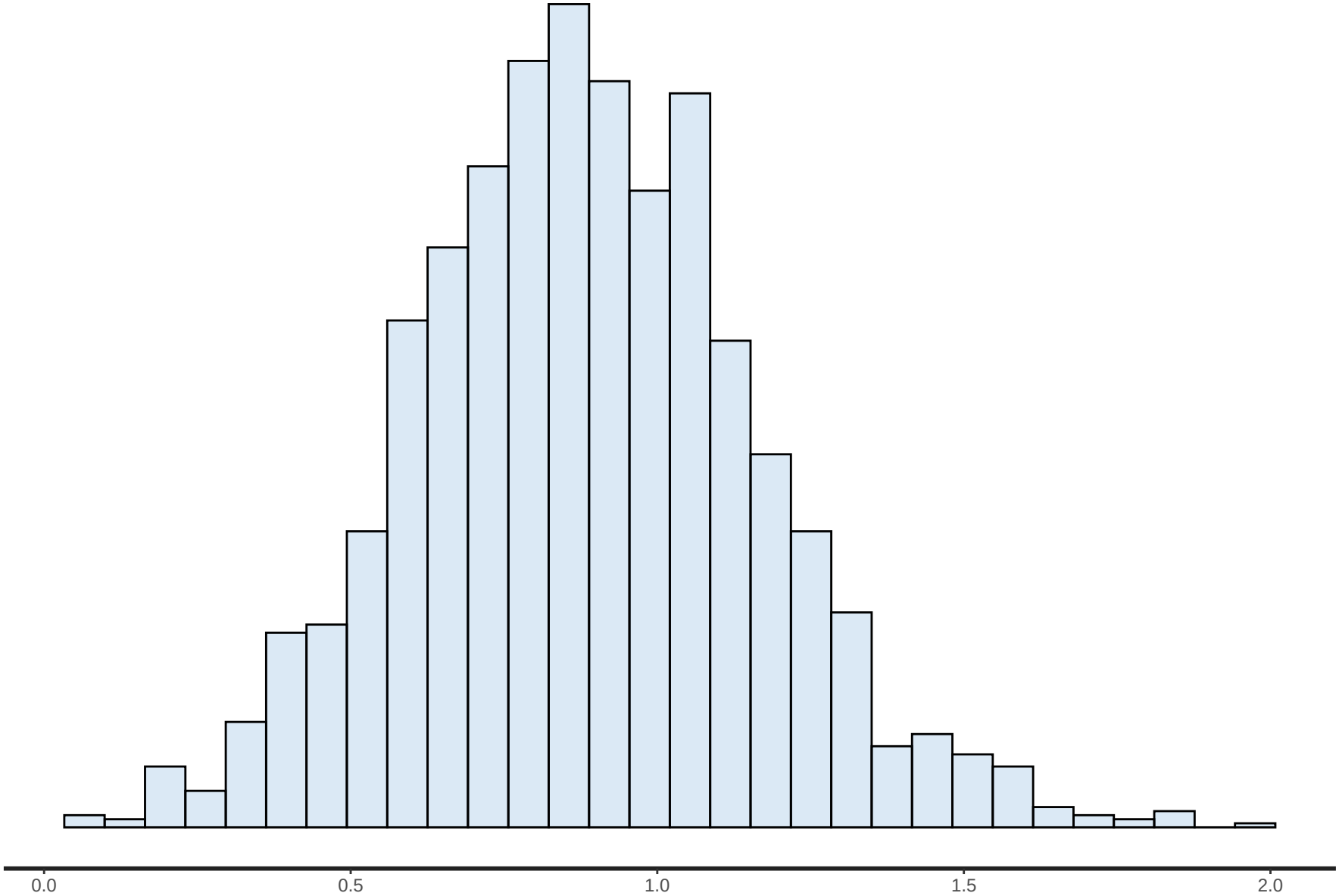

Short Term Death Projection
Number of COVID19 Deaths
400
300
200
100
0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

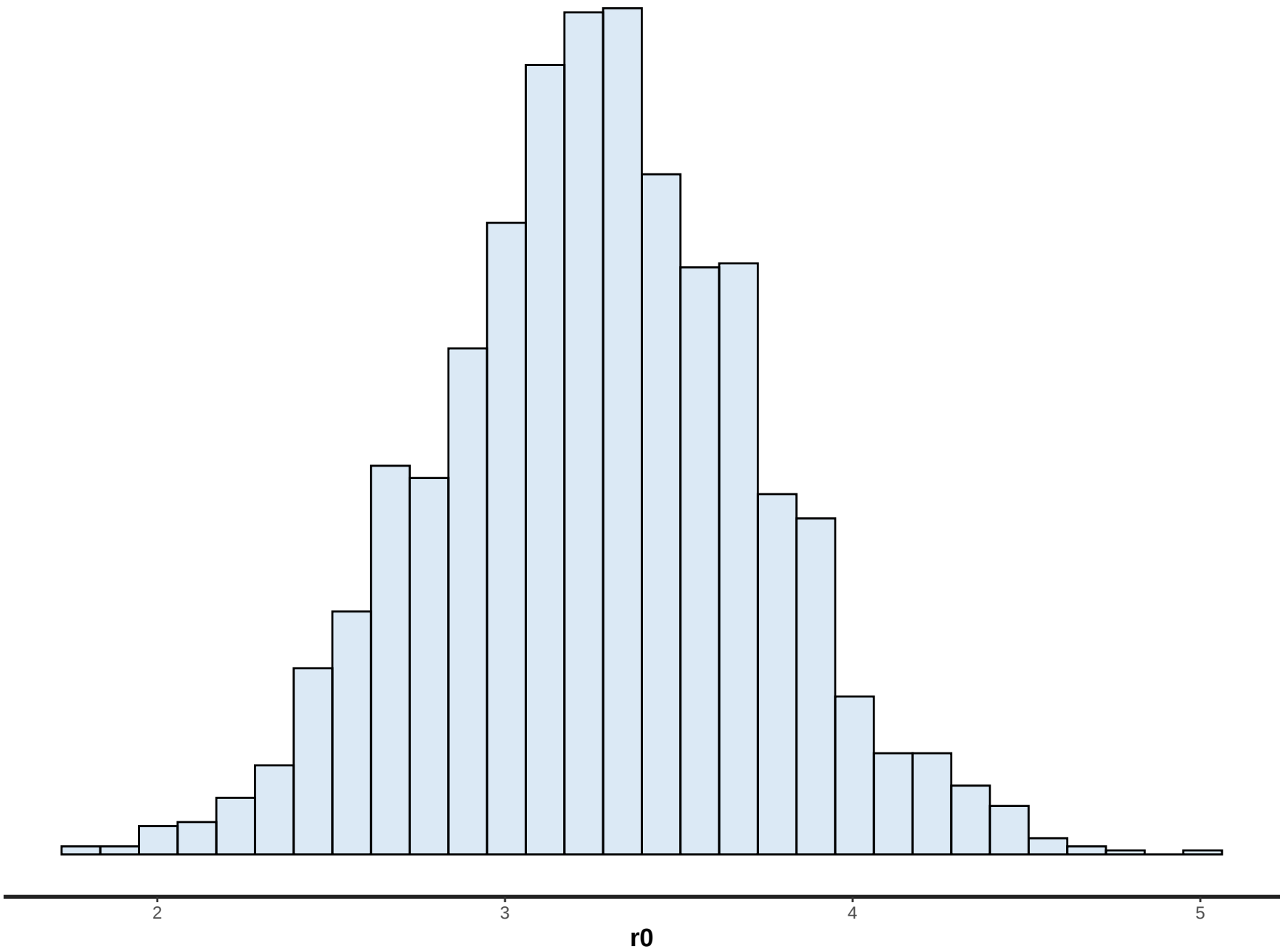

Long Term Death Projection
Number of COVID19 Deaths
500
400
300
200
100
0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

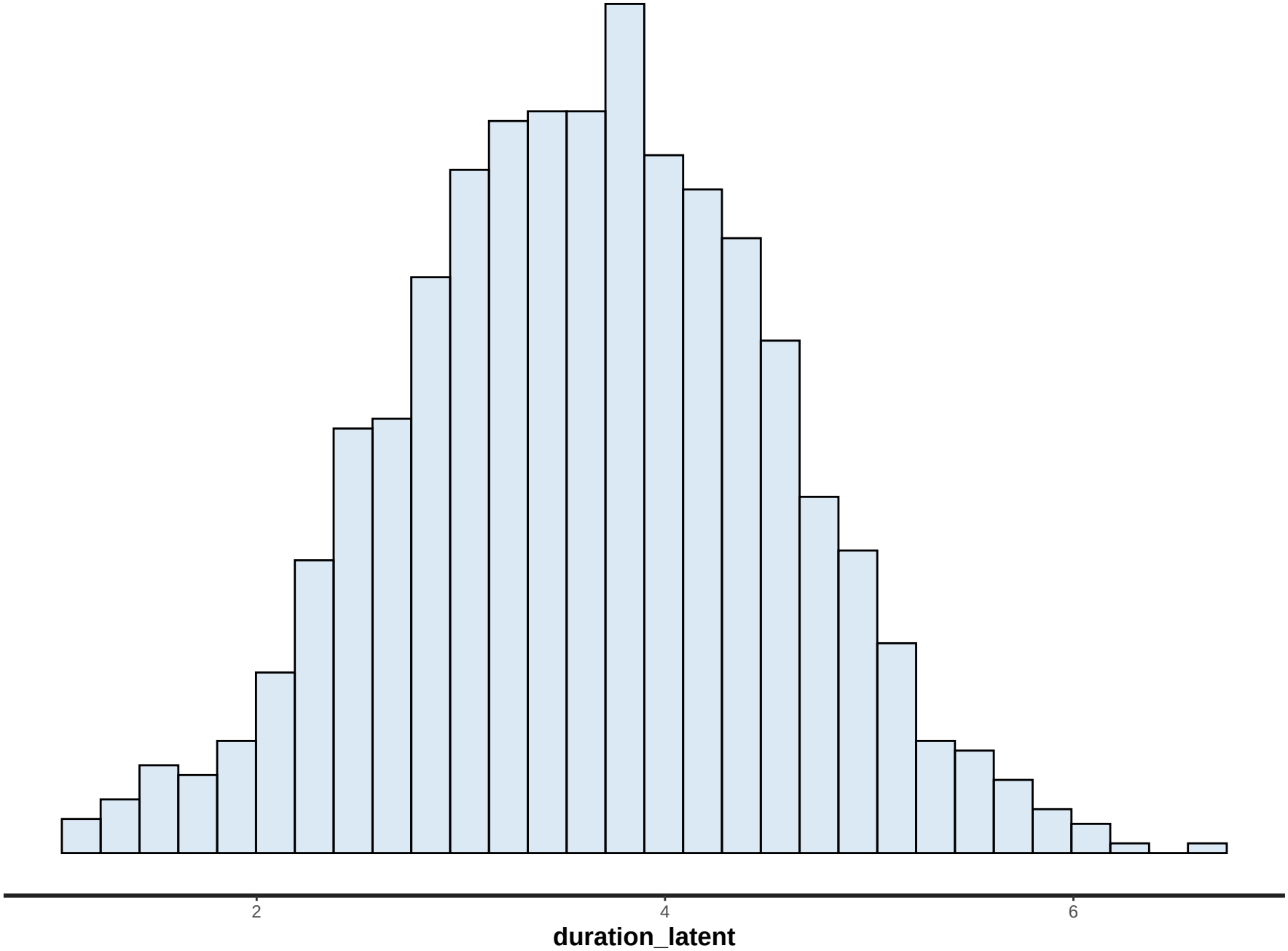

Effective Reproduction Number
Re
1.5
1.2
0.9
0.6
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Median
5%−95%
15%−85%
25%−75%

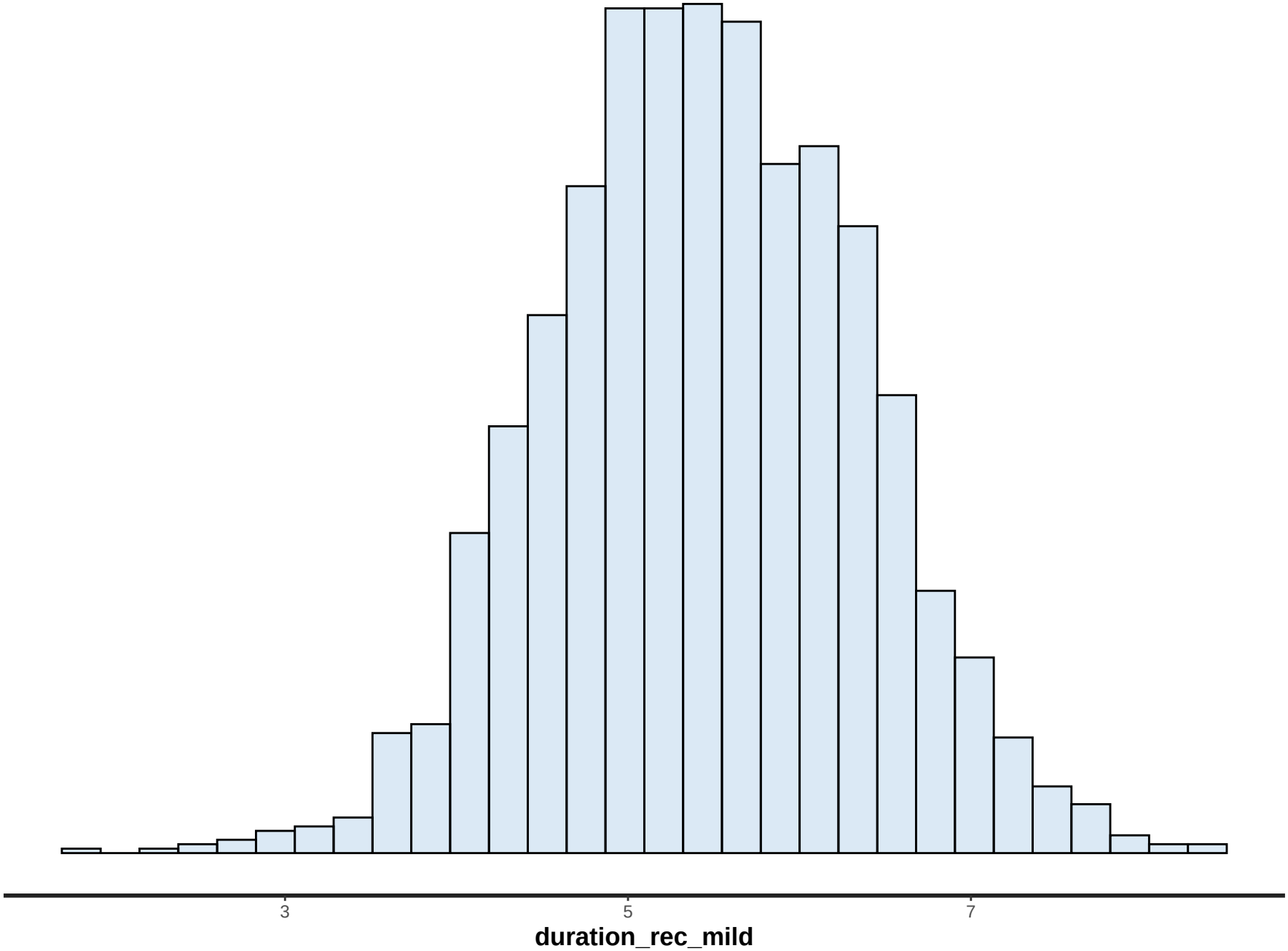
Rt as of 2020−10−21

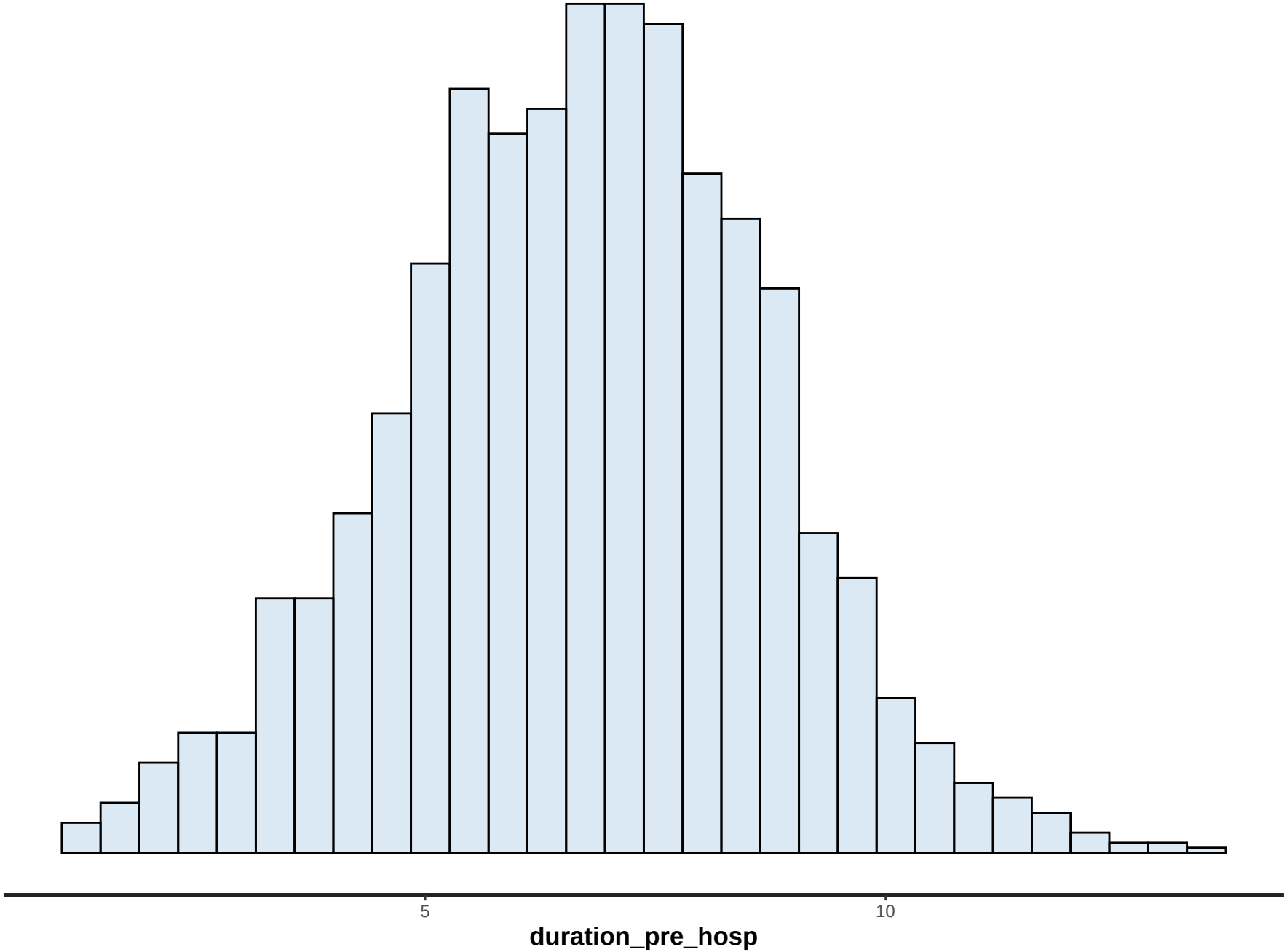
5%	10%	25%	50%	75%	90%	95%
0.43	0.54	0.69	0.87	1.06	1.23	1.33

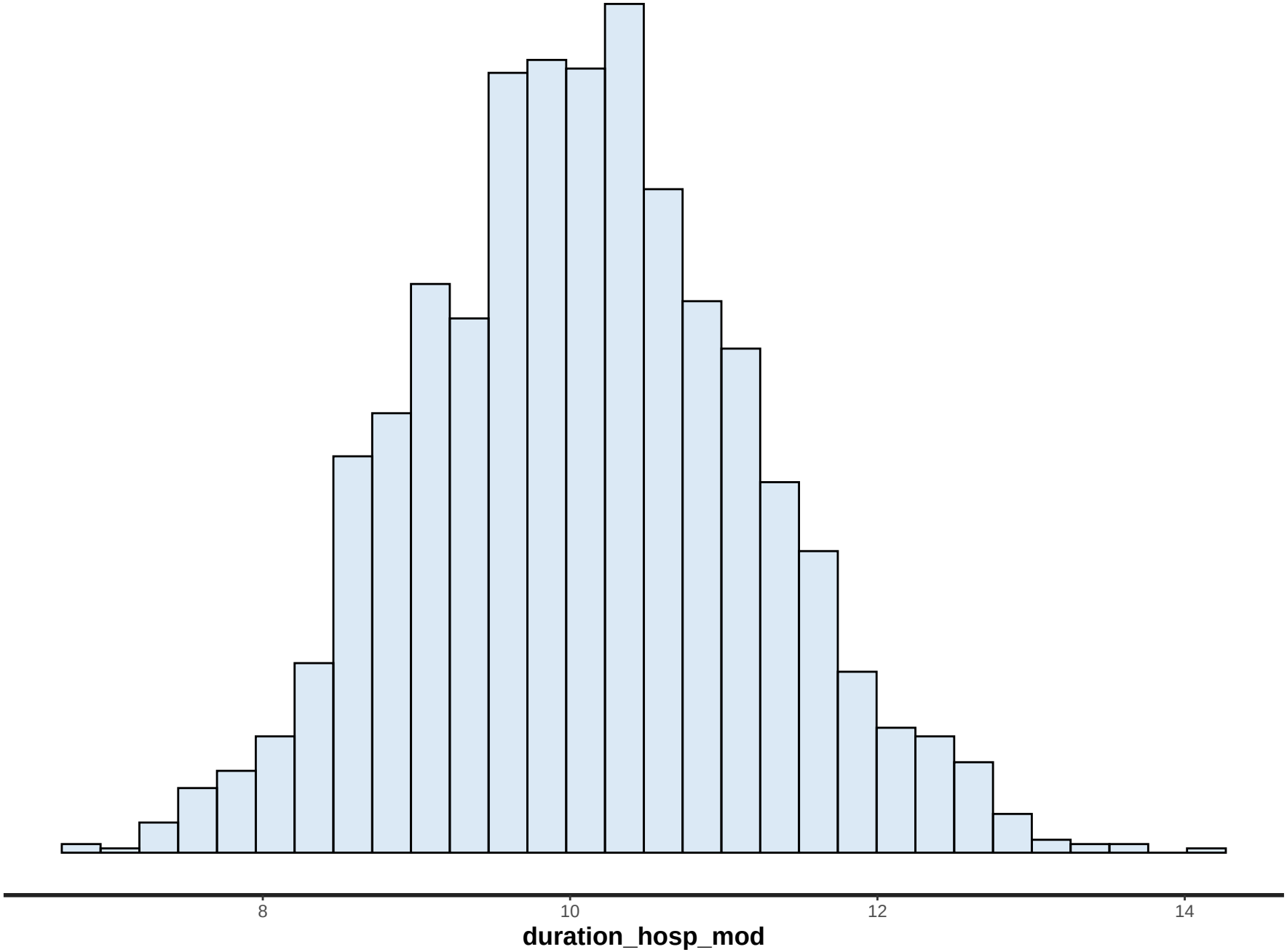


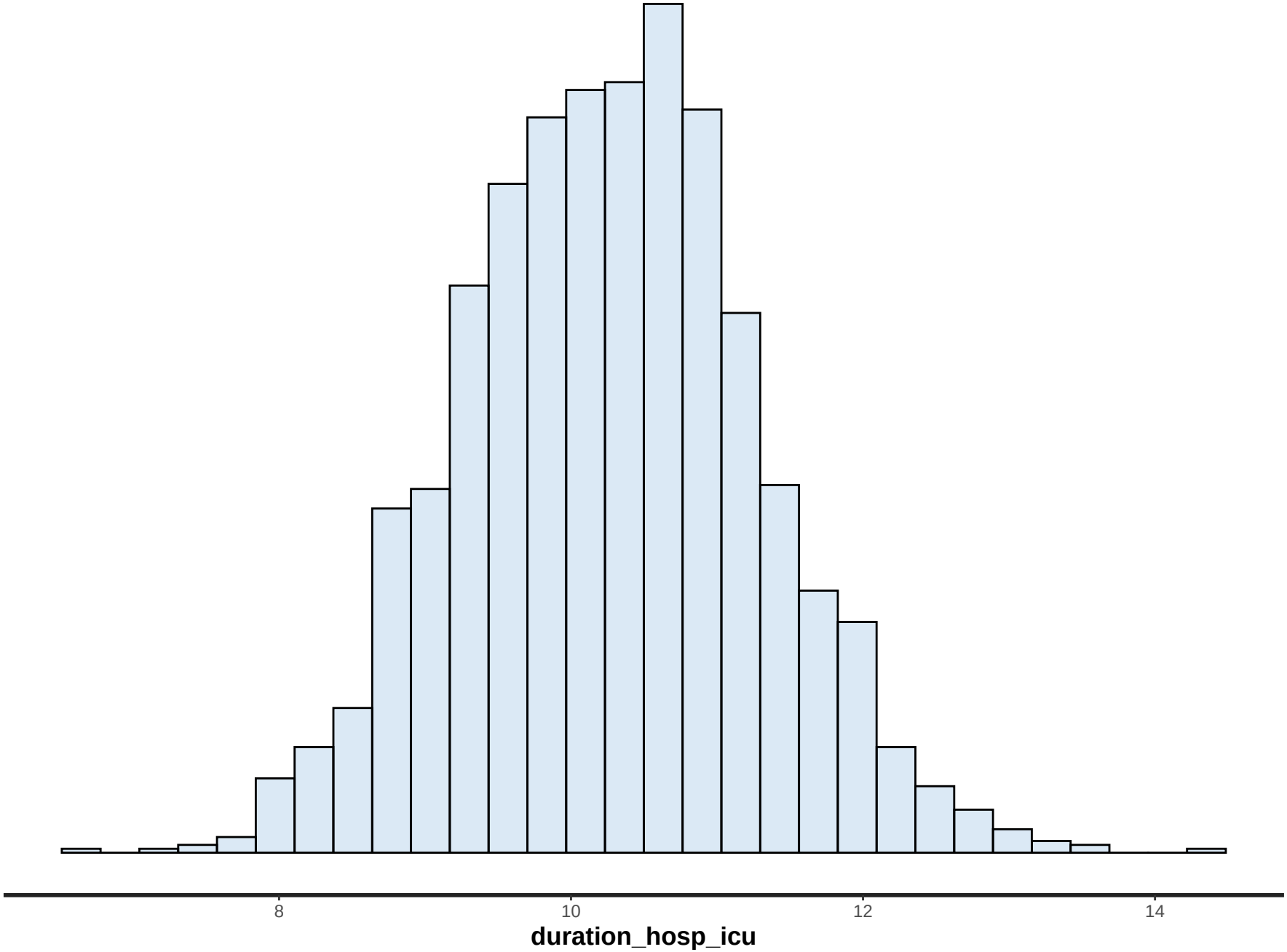

2
3
4
5
r0

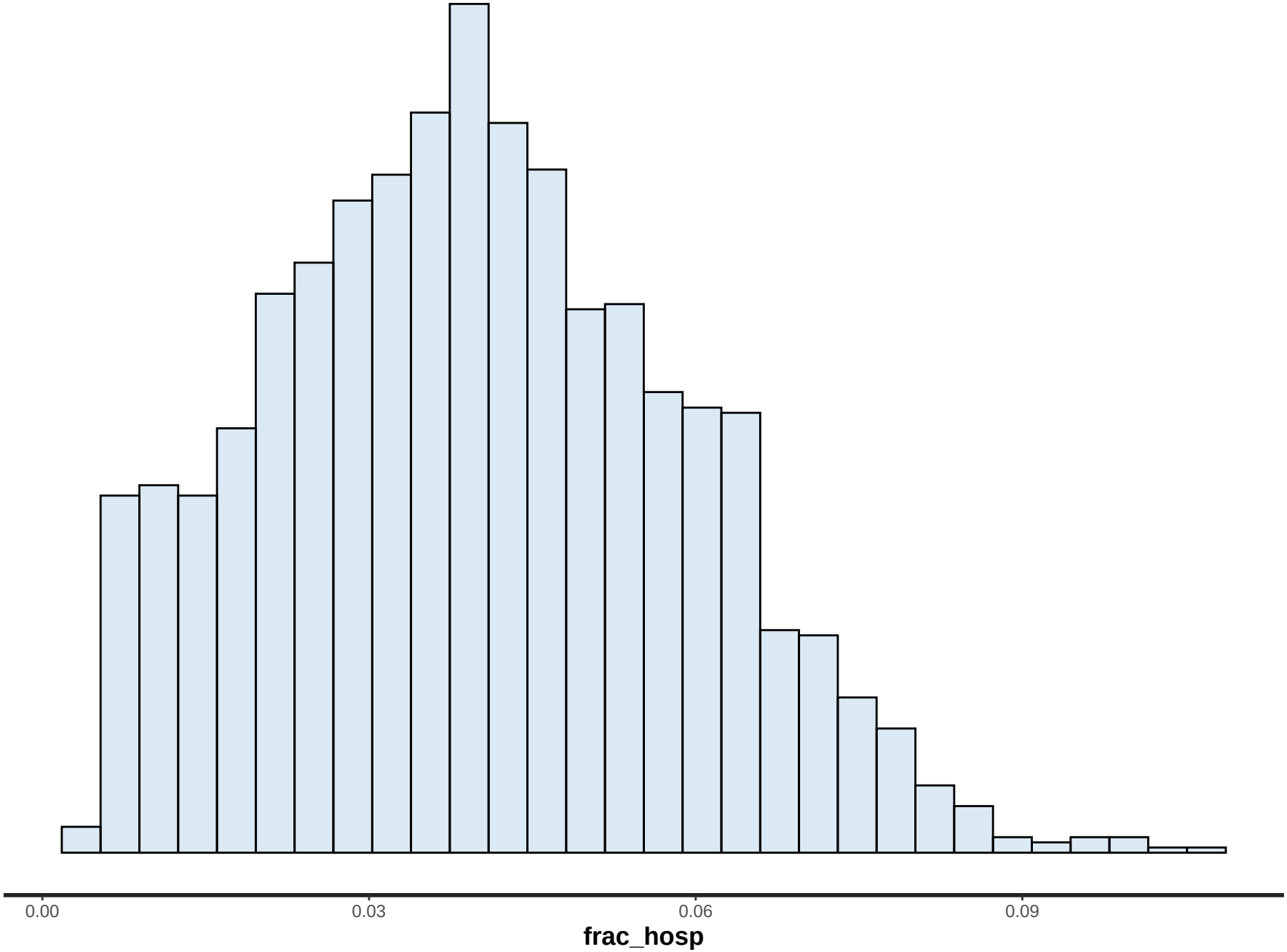

2
4
6
duration_latent

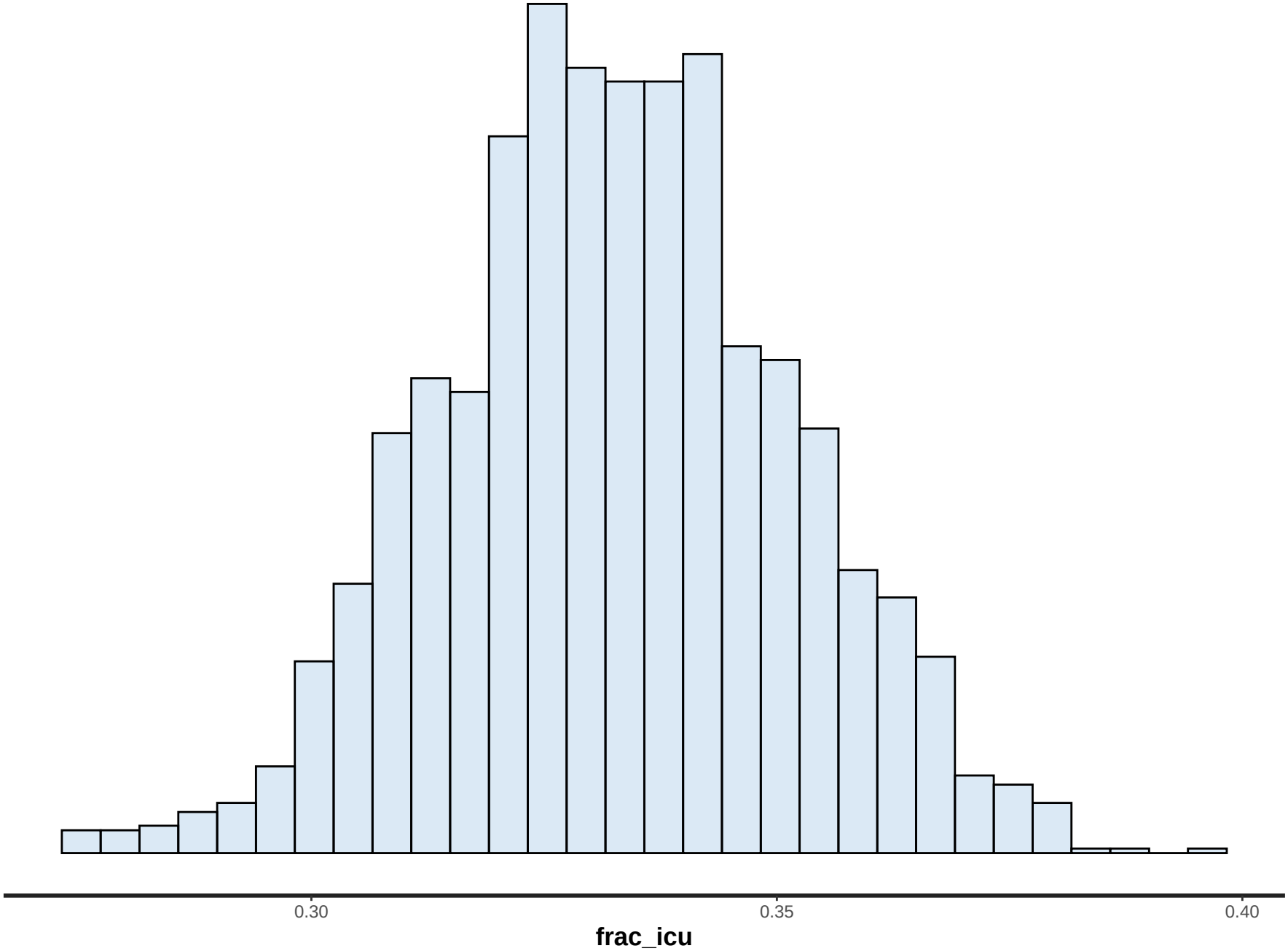

3
5
7
duration_rec_mild

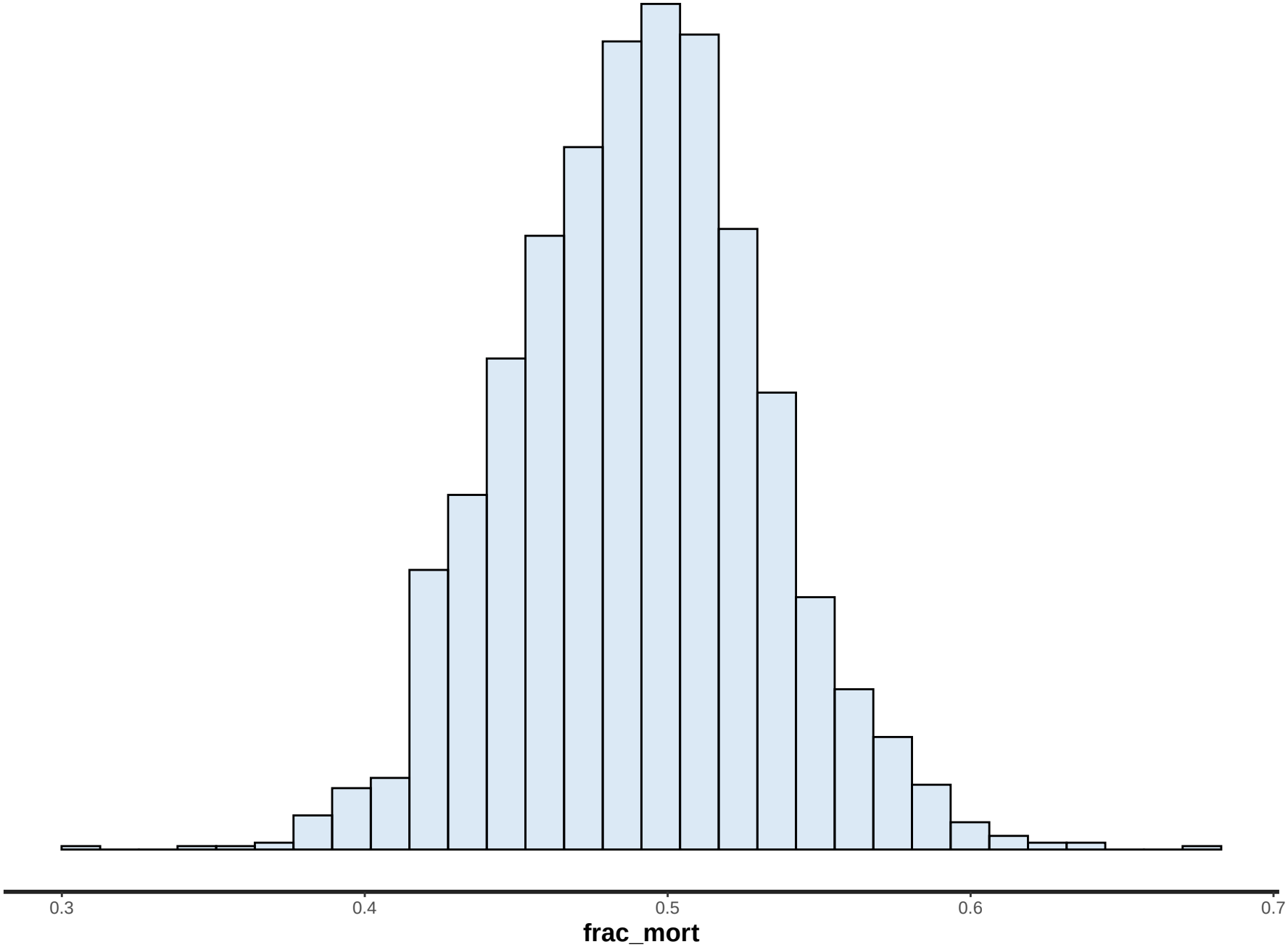

5
10
duration_pre_hosp

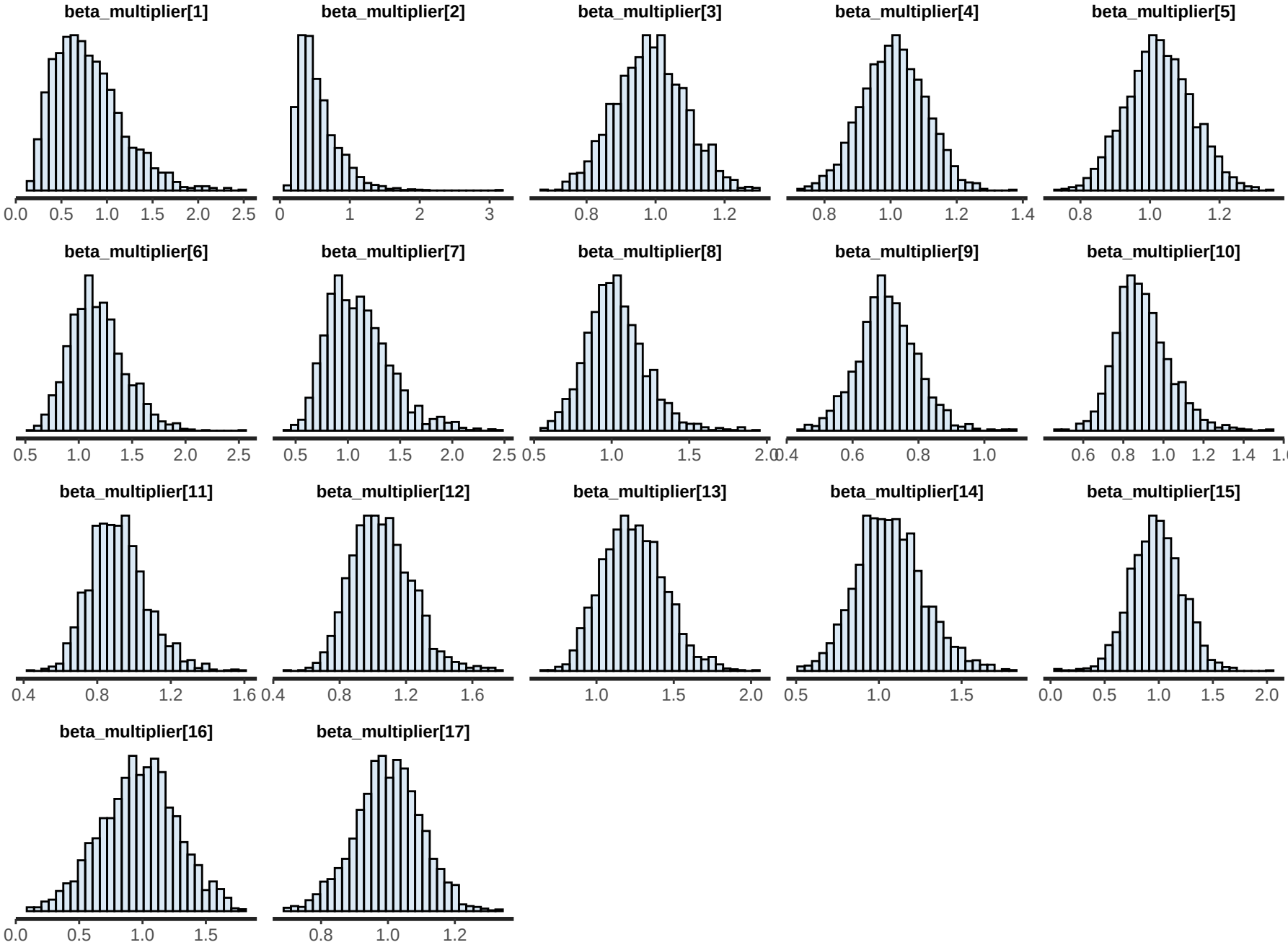

8
10
12
14
duration_hosp_mod

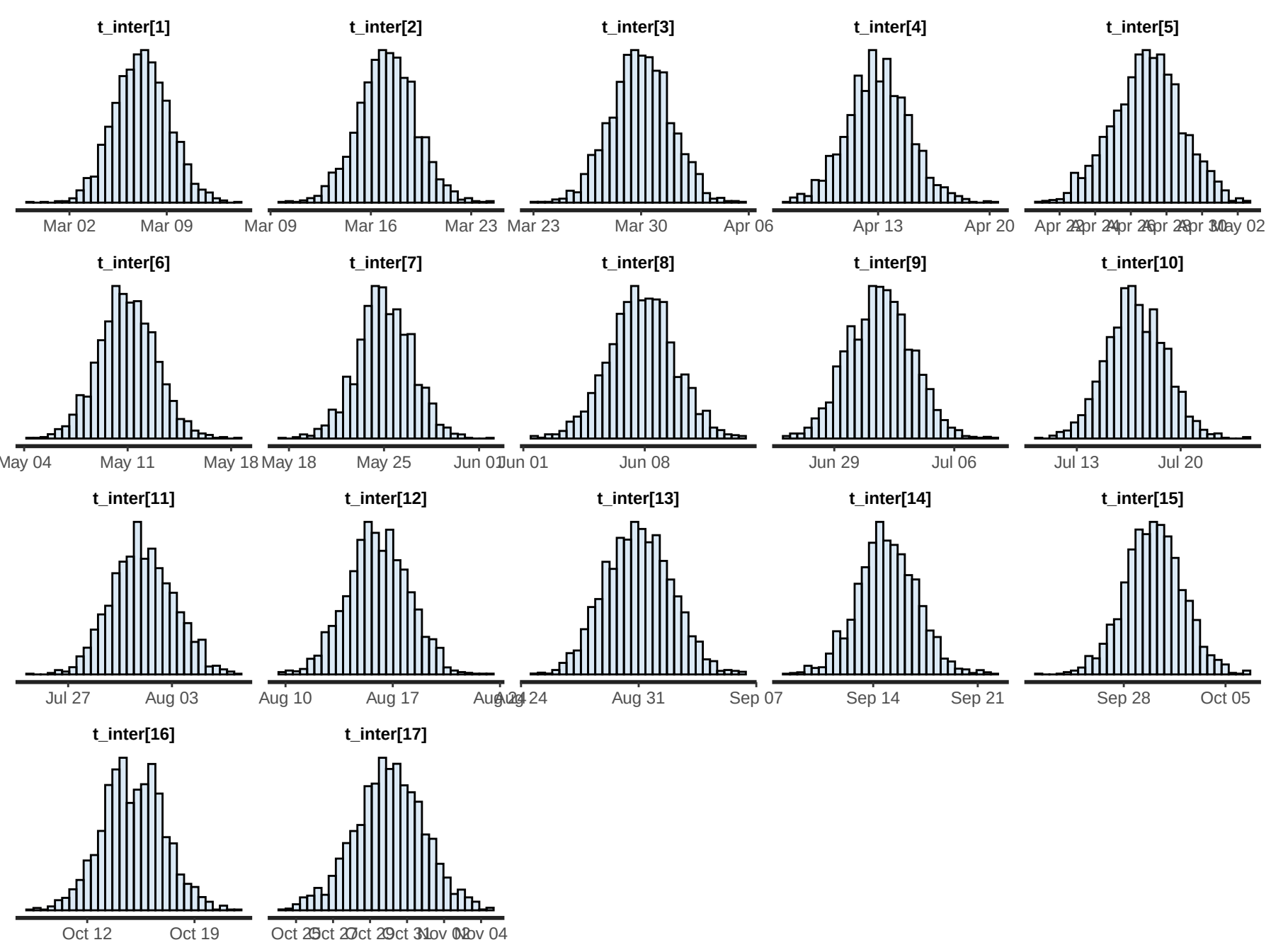

8
10
12
14
duration_hosp_icu

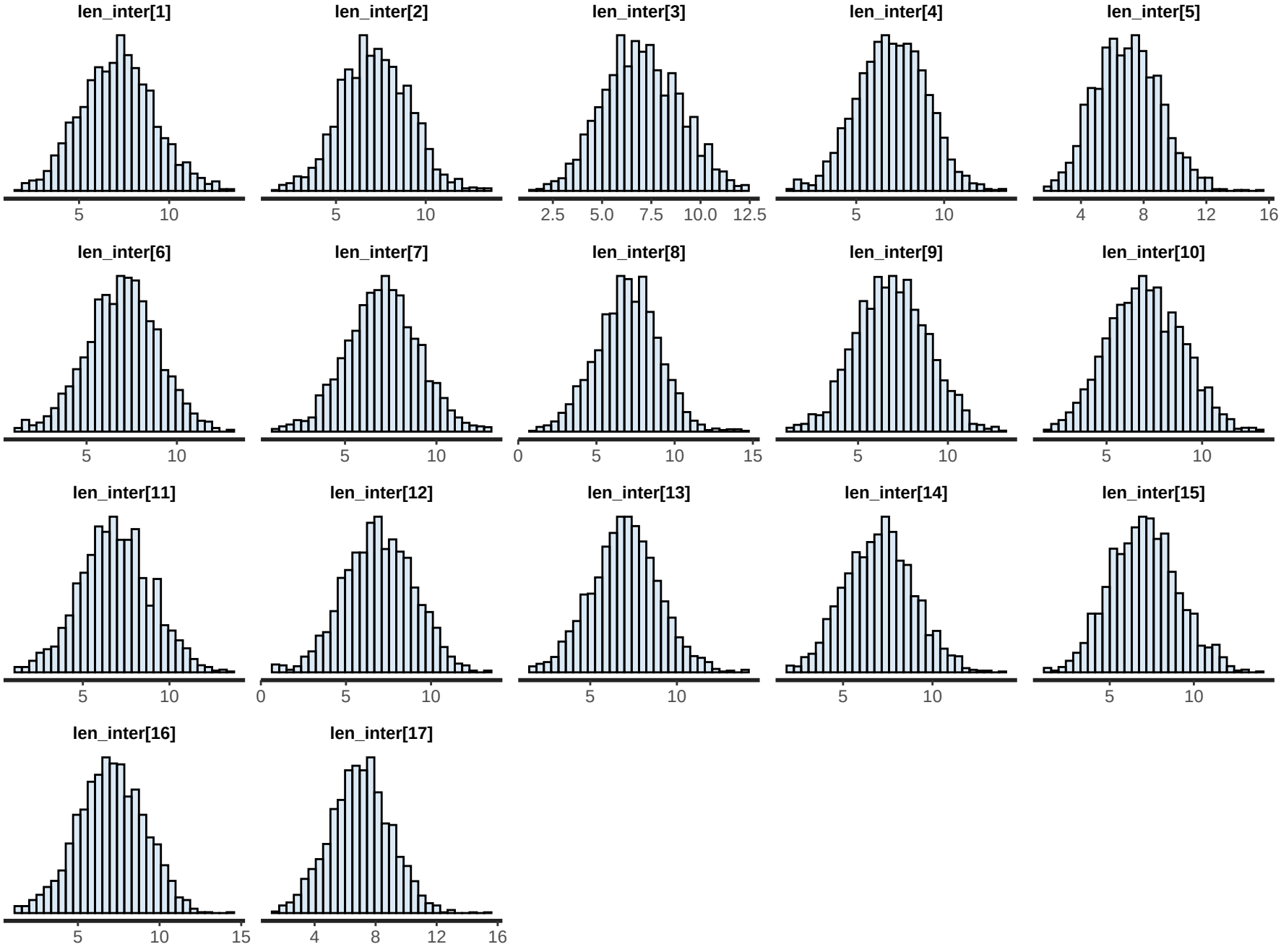

0.00
0.03
0.06
0.09
frac_hosp


0.30
0.35
0.40
frac_icu


0.3
0.4
0.5
0.6
0.7
frac_mort


beta_multiplier[1]
beta_multiplier[2]
beta_multiplier[3]
beta_multiplier[4]
beta_multiplier[5]
beta_multiplier[6]
beta_multiplier[7]
beta_multiplier[8]
beta_multiplier[9]
beta_multiplier[10]
beta_multiplier[11]
beta_multiplier[12]
beta_multiplier[13]
beta_multiplier[14]
beta_multiplier[15]
beta_multiplier[16]
beta_multiplier[17]


t_inter[1]
Mar 02
Mar 09
t_inter[2]
Mar 09
Mar 16
Mar 23
t_inter[3]
Mar 23
Mar 30
Apr 06
t_inter[4]
Apr 13
Apr 20
t_inter[5]
Apr 22
Apr 24
Apr 26
Apr 28
Apr 30
May 02
t_inter[6]
May 04
May 11
May 18
t_inter[7]
May 18
May 25
Jun 01
t_inter[8]
Jun 01
Jun 08
t_inter[9]
Jun 29
Jul 06
t_inter[10]
Jul 13
Jul 20
t_inter[11]
Jul 27
Aug 03
t_inter[12]
Aug 10
Aug 17
Aug 24
t_inter[13]
Aug 24
Aug 31
Sep 07
t_inter[14]
Sep 14
Sep 21
t_inter[15]
Sep 28
Oct 05
t_inter[16]
Oct 12
Oct 19
t_inter[17]
Oct 25
Oct 27
Oct 29
Oct 31
Nov 02
Nov 04


len_inter[1]
5
10
len_inter[2]
5
10
len_inter[3]
2.5
5.0
7.5
10.0
12.5
len_inter[4]
5
10
len_inter[5]
4
8
12
16
len_inter[6]
5
10
len_inter[7]
5
10
len_inter[8]
0
5
10
15
len_inter[9]
5
10
len_inter[10]
5
10
len_inter[11]
5
10
len_inter[12]
0
5
10
len_inter[13]
5
10
len_inter[14]
5
10
len_inter[15]
5
10
len_inter[16]
5
10
15
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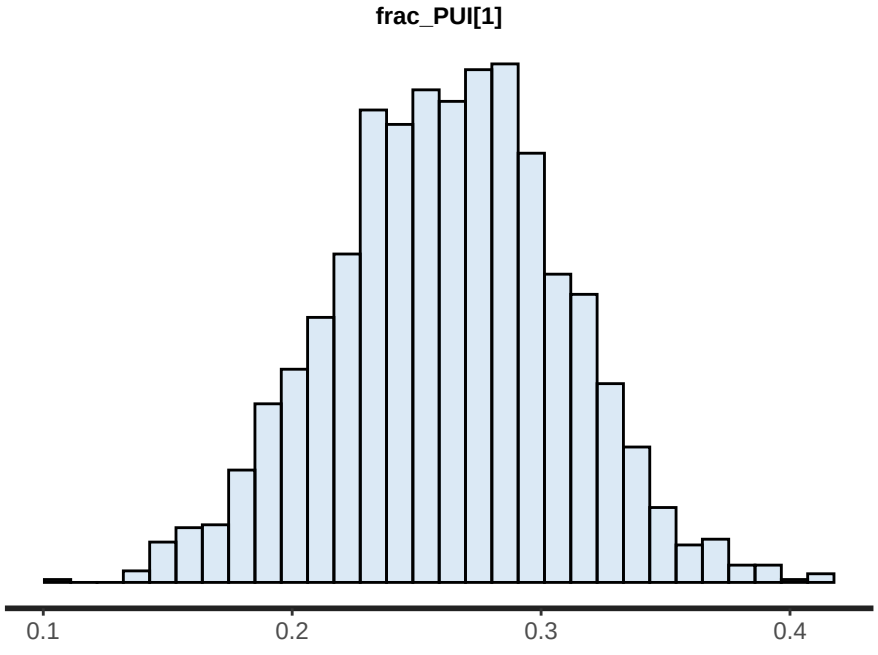
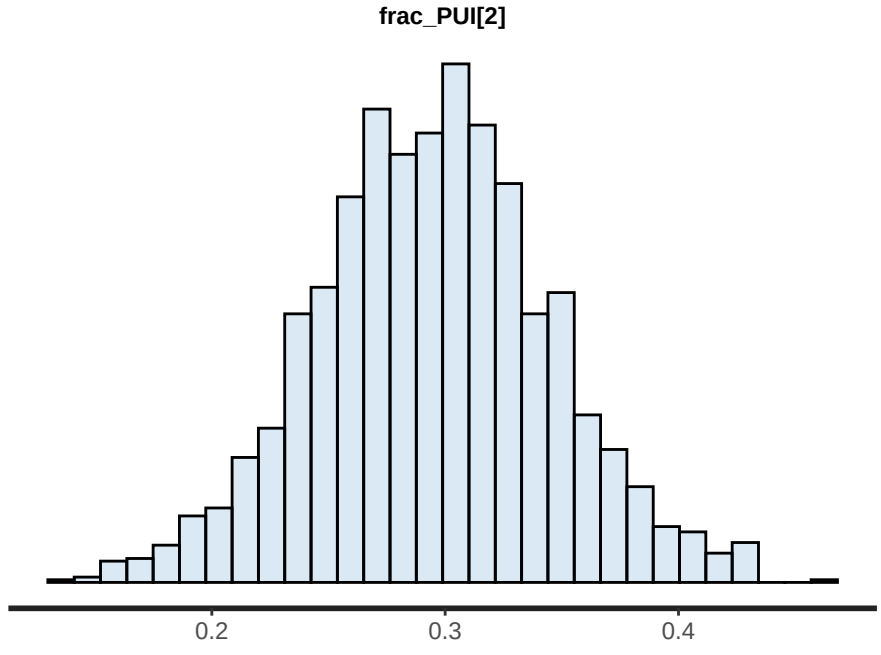
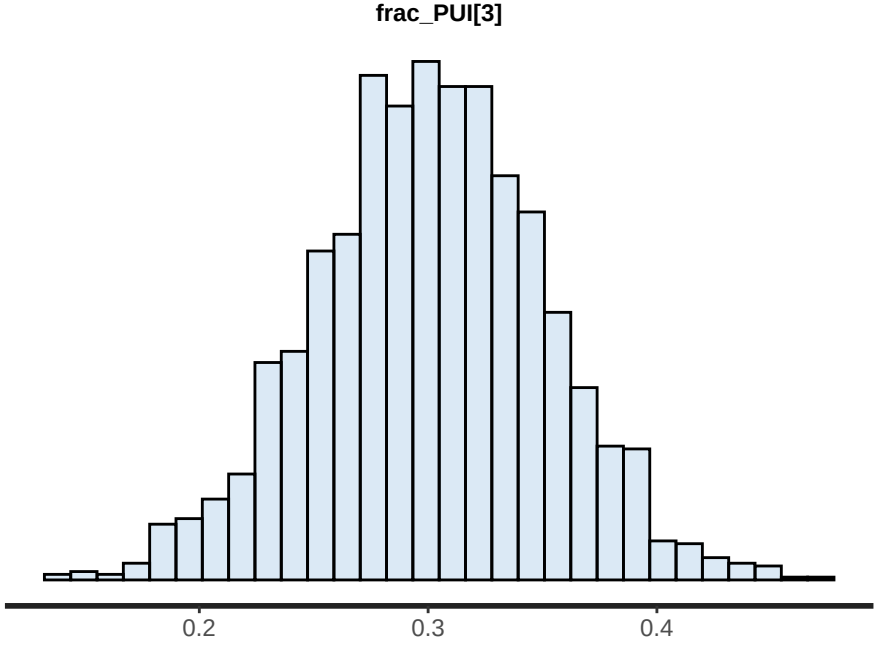
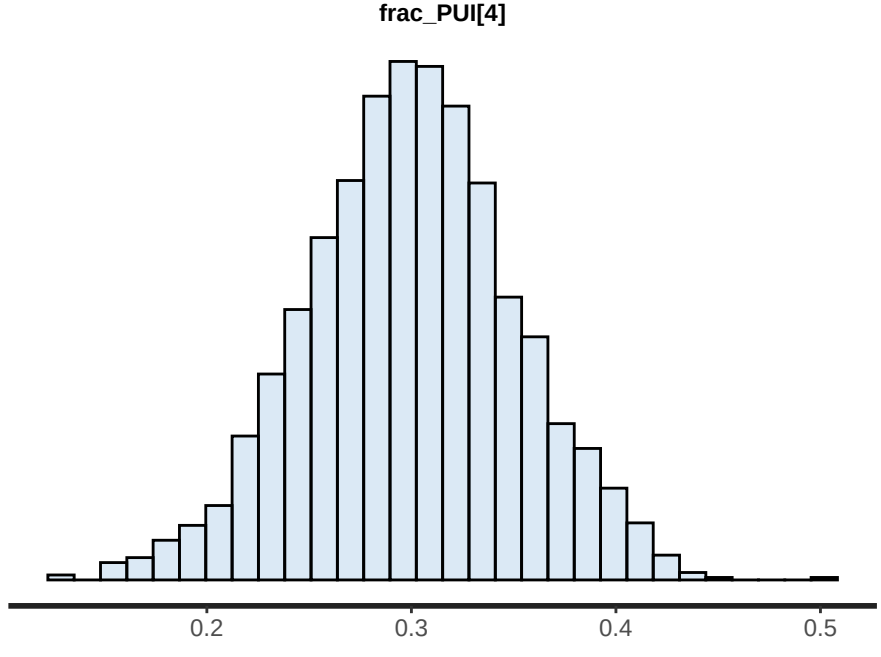
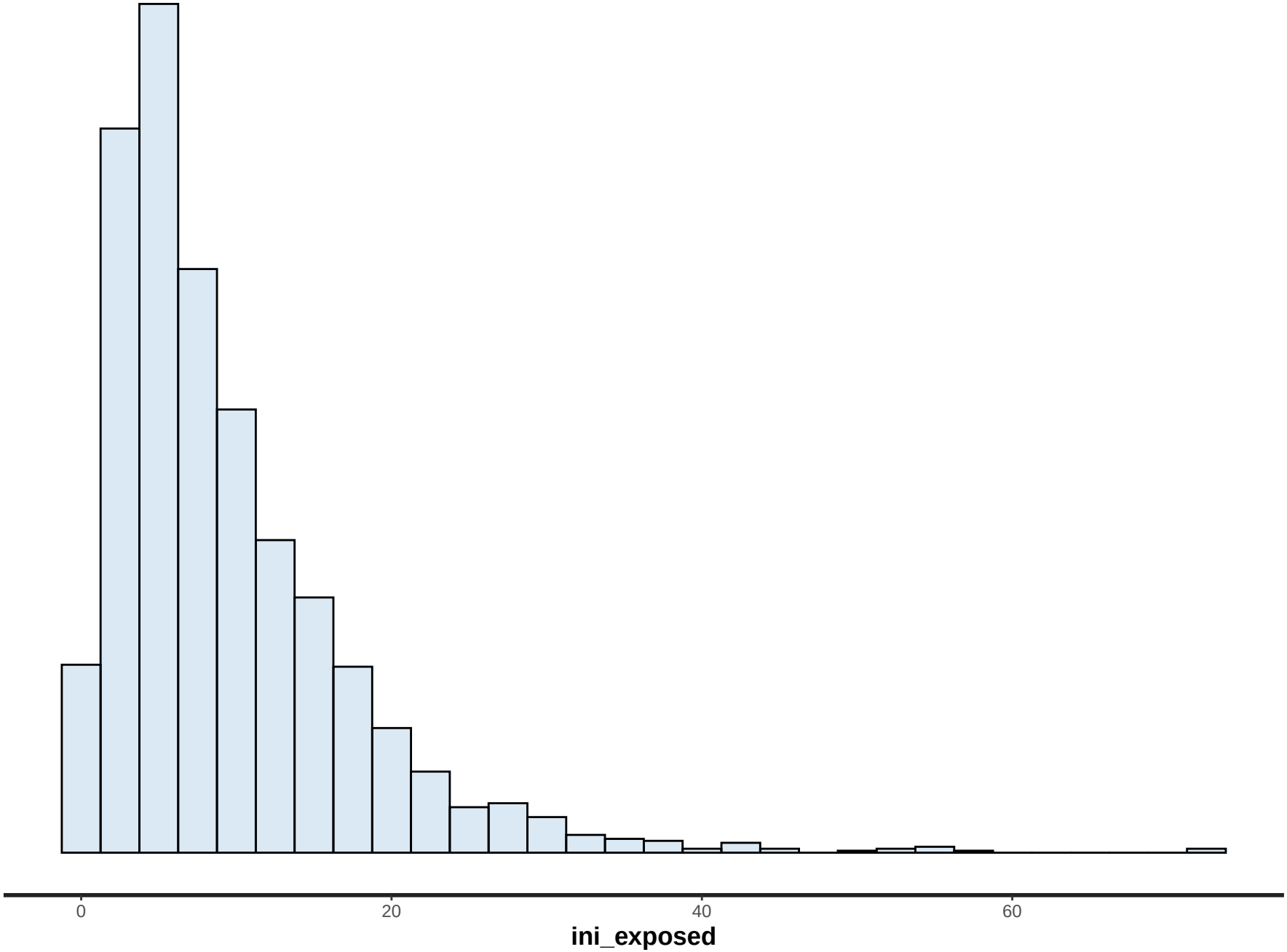
4
8
12
16

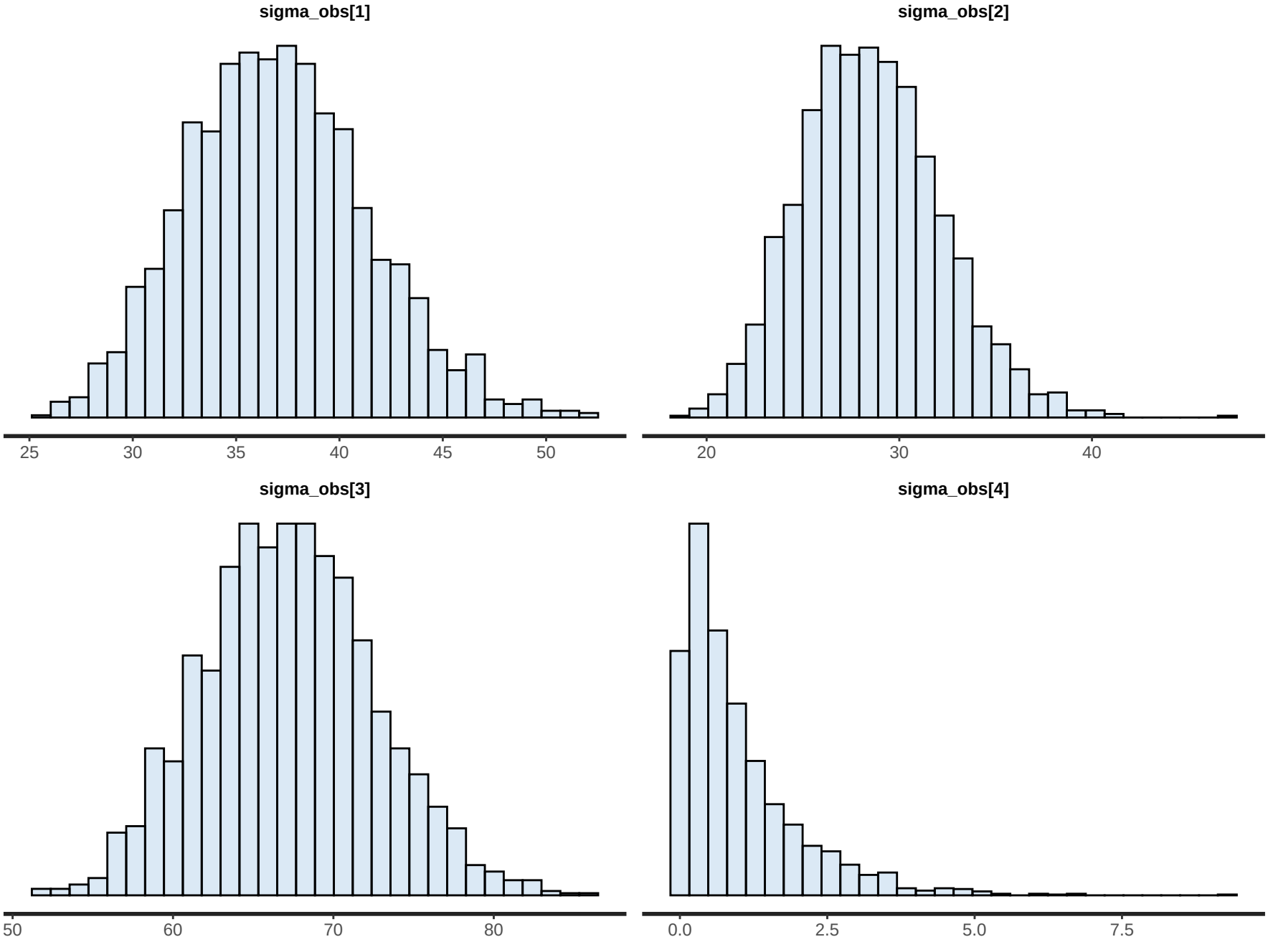

frac_PUI[1]
0.1
0.2
0.3
0.4


frac_PUI[2]
0.2
0.3
0.4


frac_PUI[3]
0.2
0.3
0.4


frac_PUI[4]
0.2
0.3
0.4
0.5


0
20
40
60
ini_exposed


sigma_obs[1]
25
30
35
40
45
50
sigma_obs[2]
20
30
40
sigma_obs[3]
50
60
70
80
sigma_obs[4]
0.0
2.5
5.0
7.5