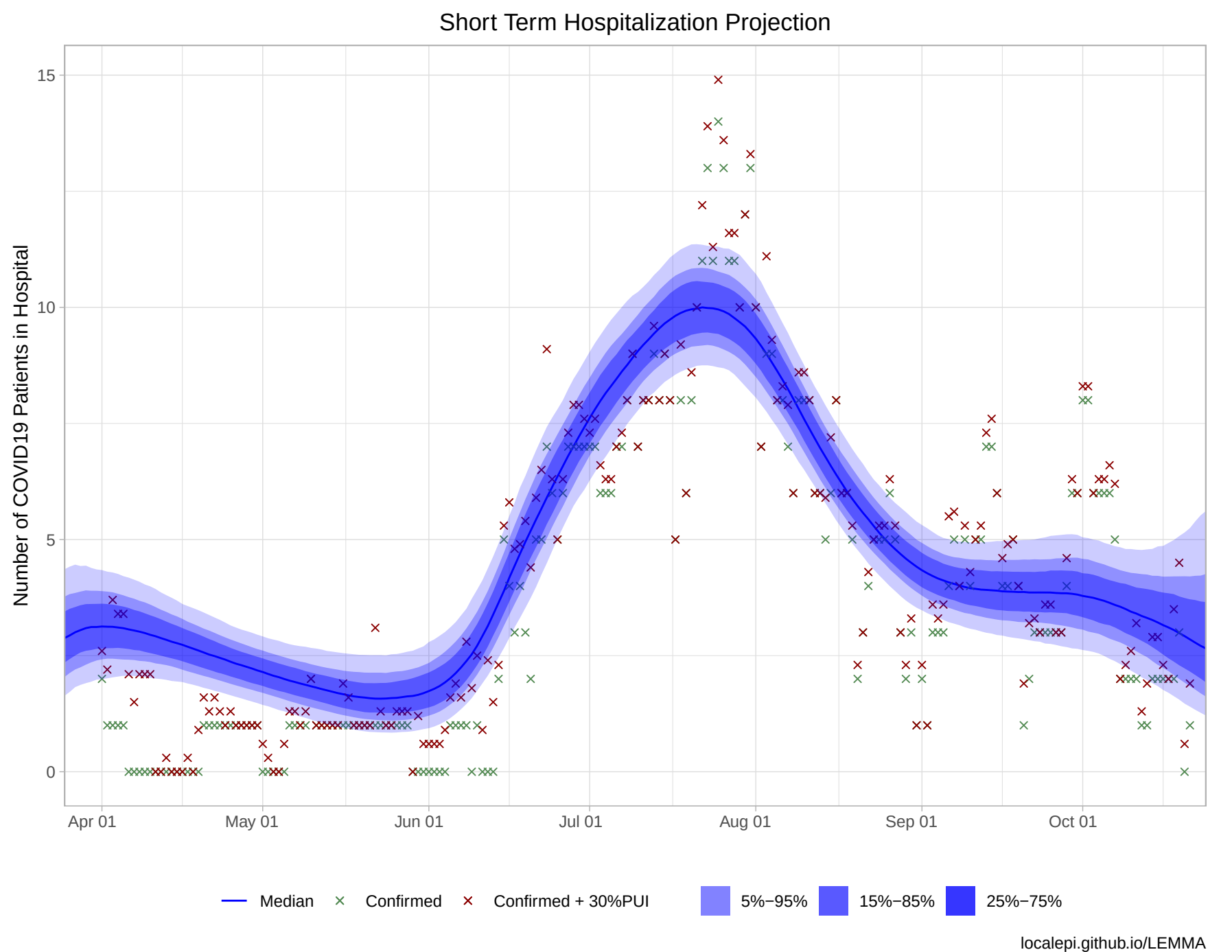
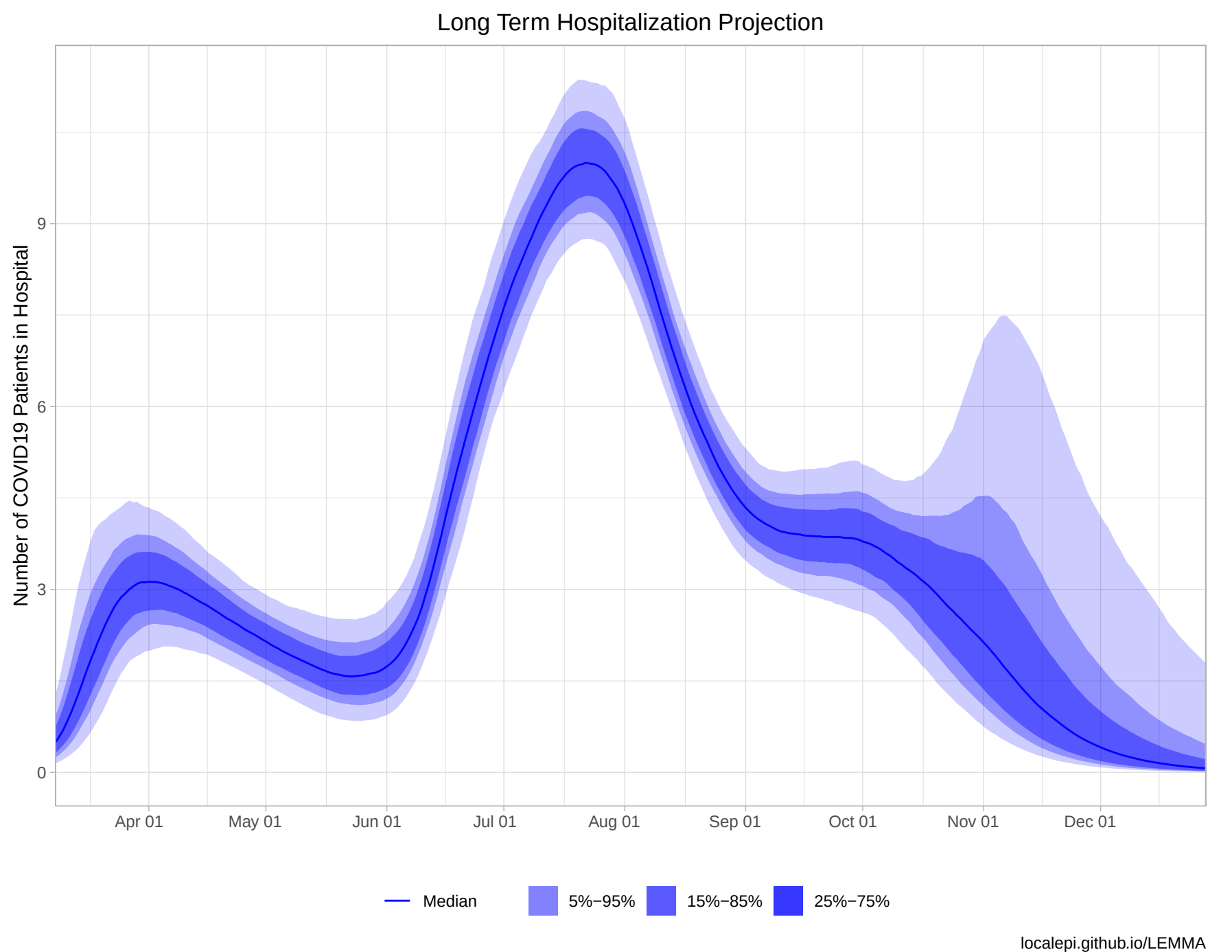
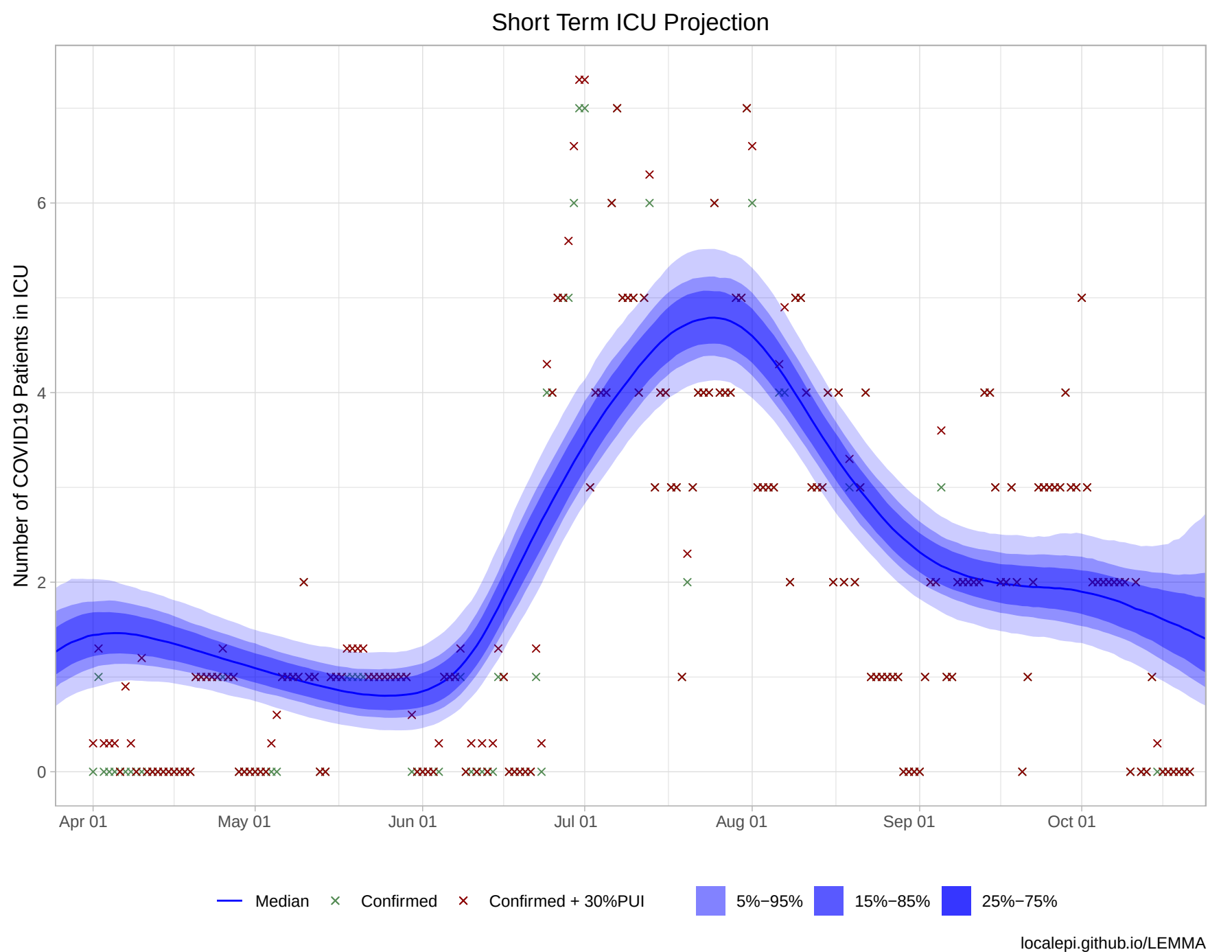
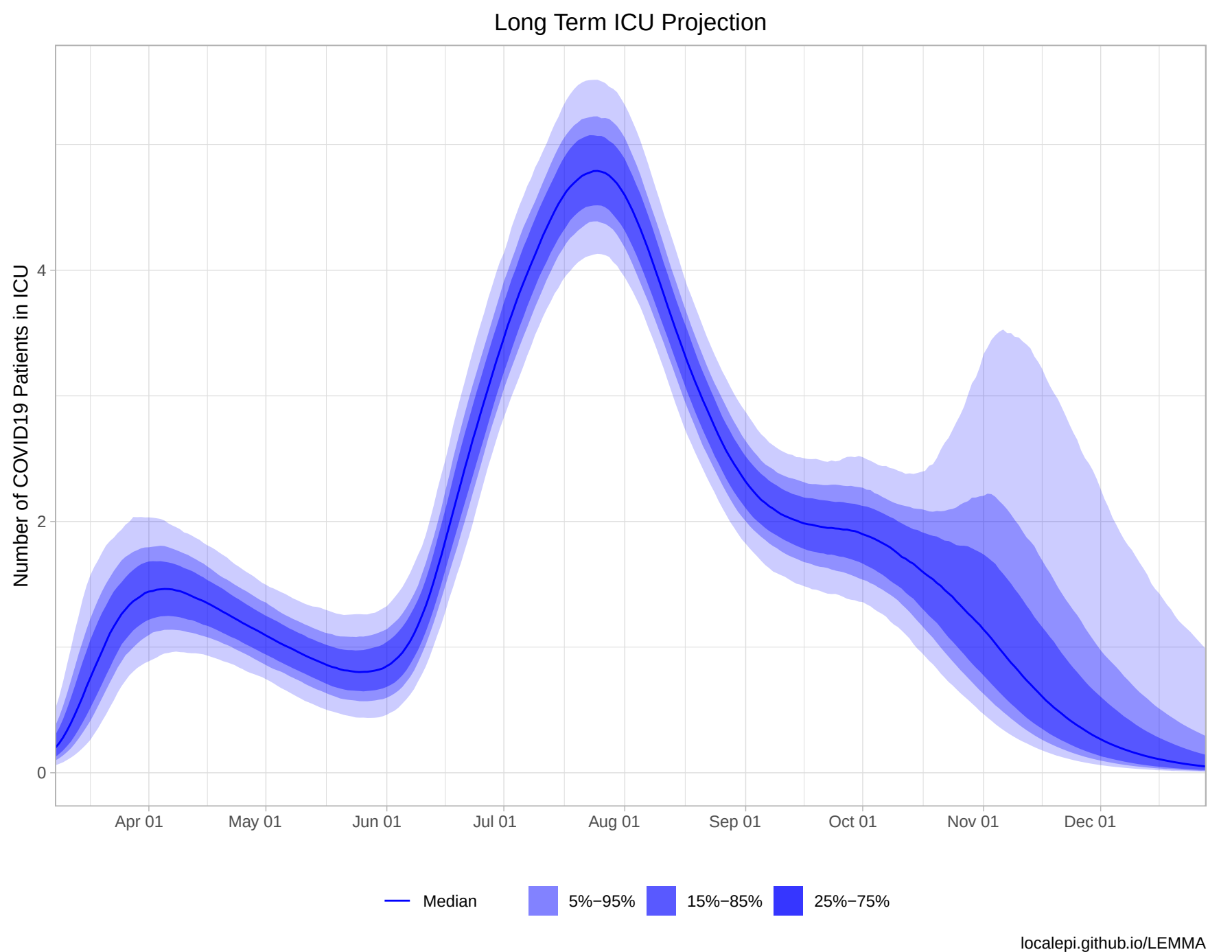
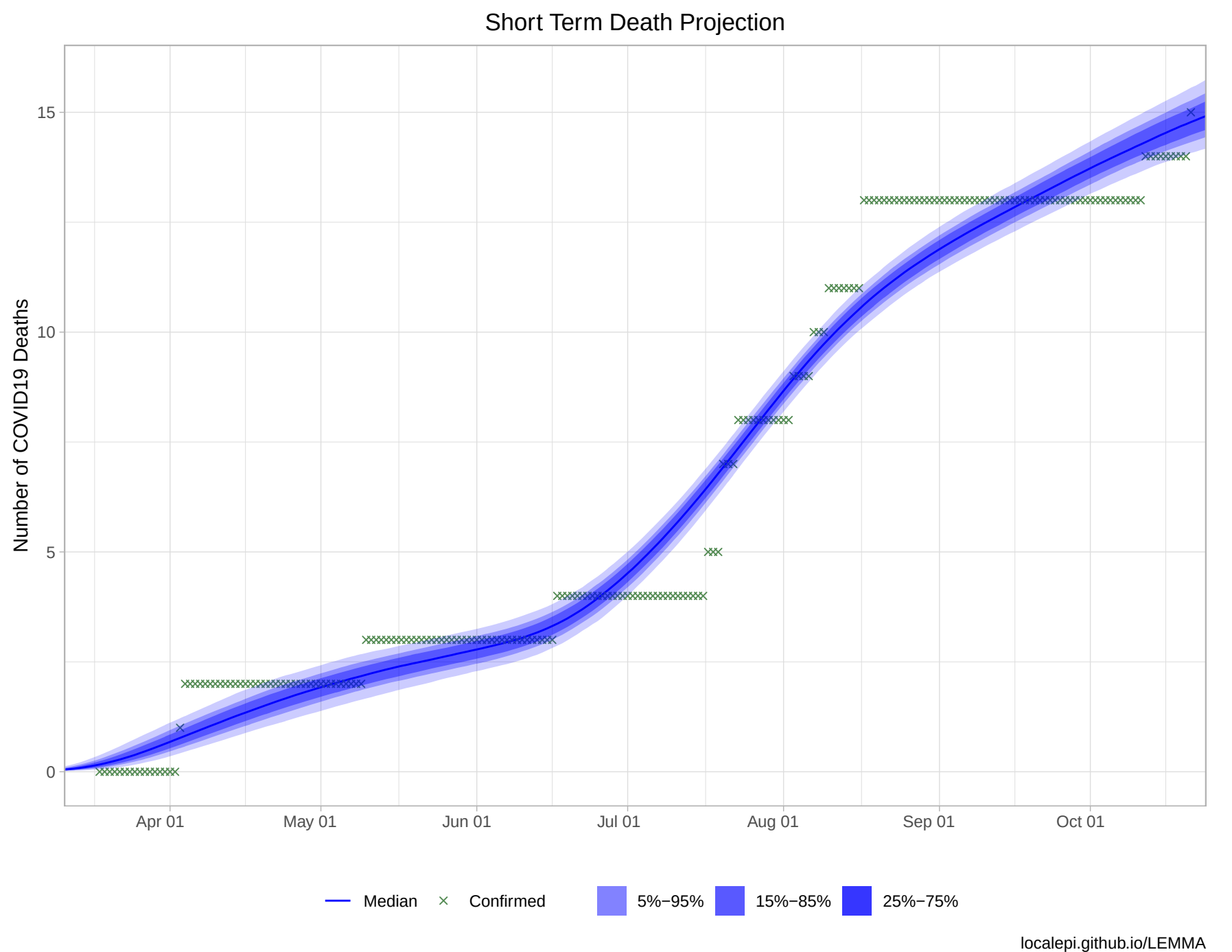
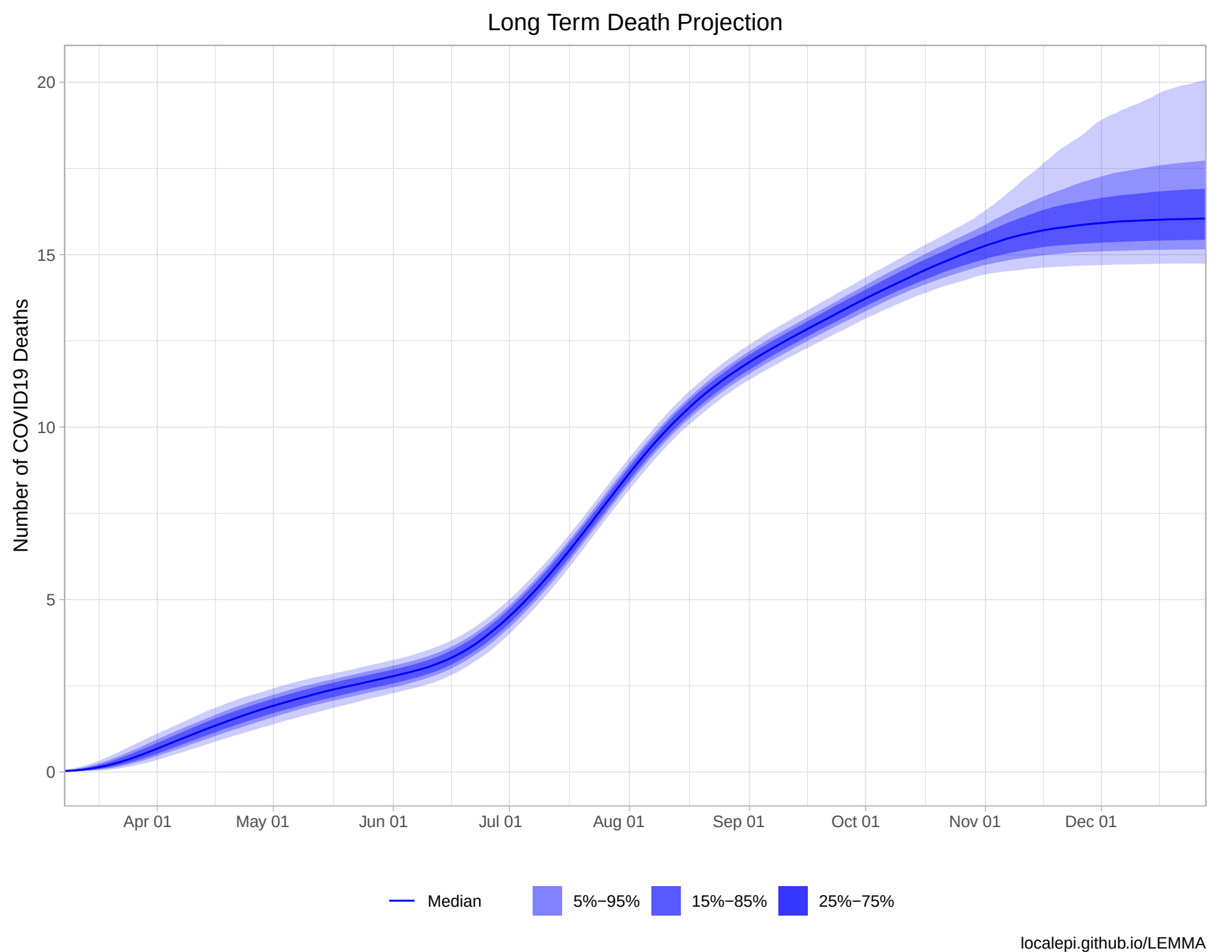

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
15
10
5
0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

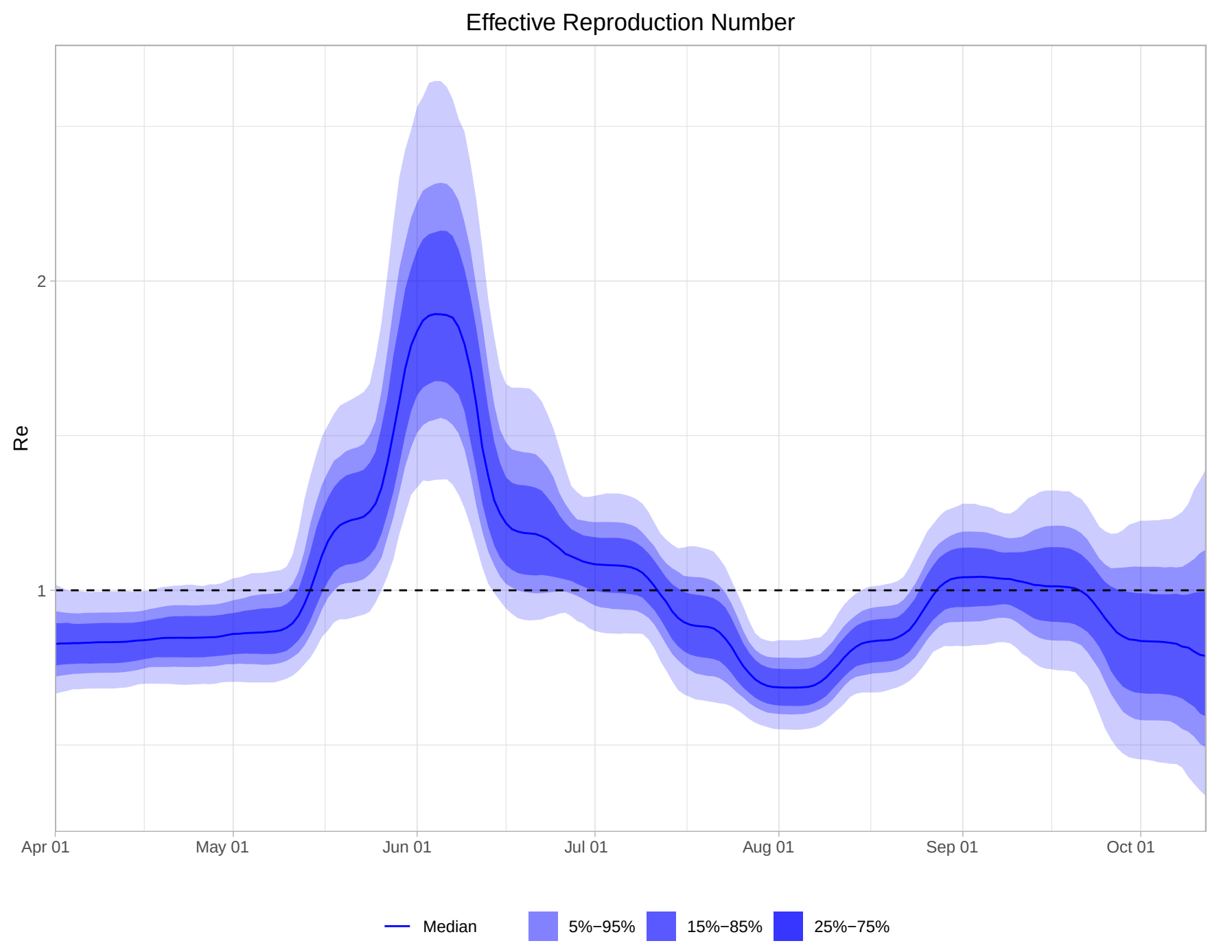

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
3
6
9
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


Short Term ICU Projection
Number of COVID19 Patients in ICU
0
2
4
6
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 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
4
2
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

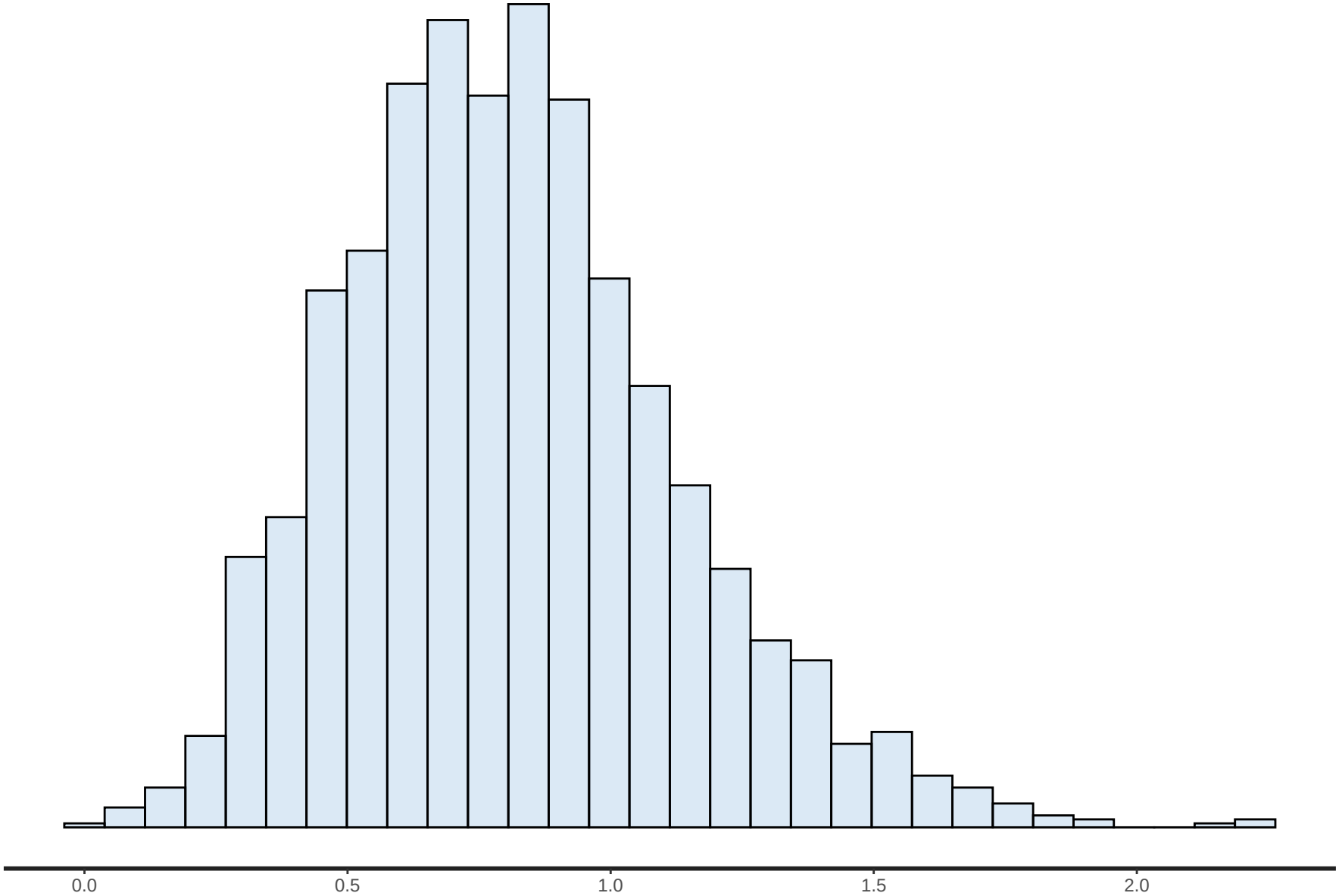

Short Term Death Projection
Number of COVID19 Deaths
0
5
10
15
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

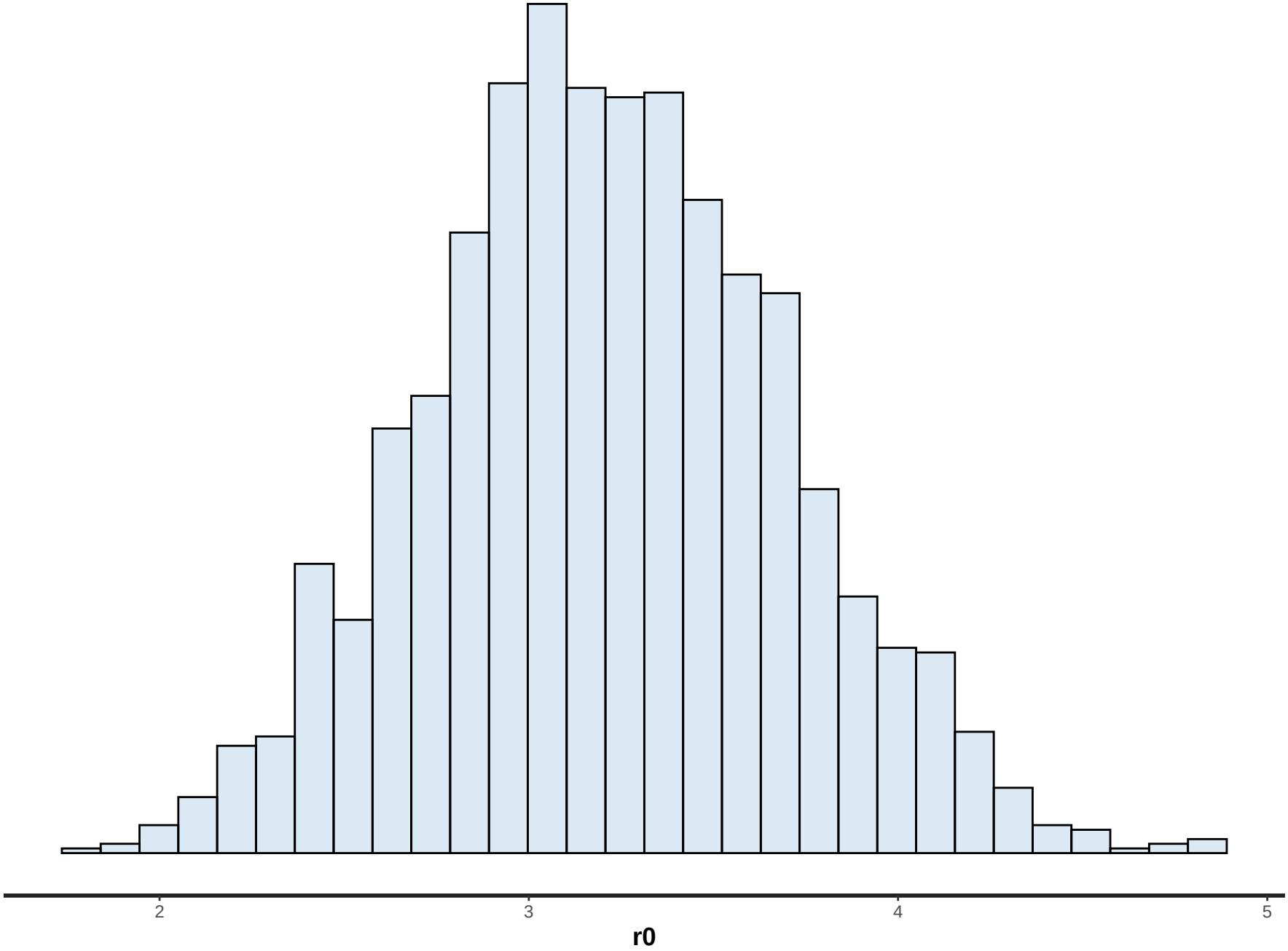

Long Term Death Projection
Number of COVID19 Deaths
20
15
10
5
0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

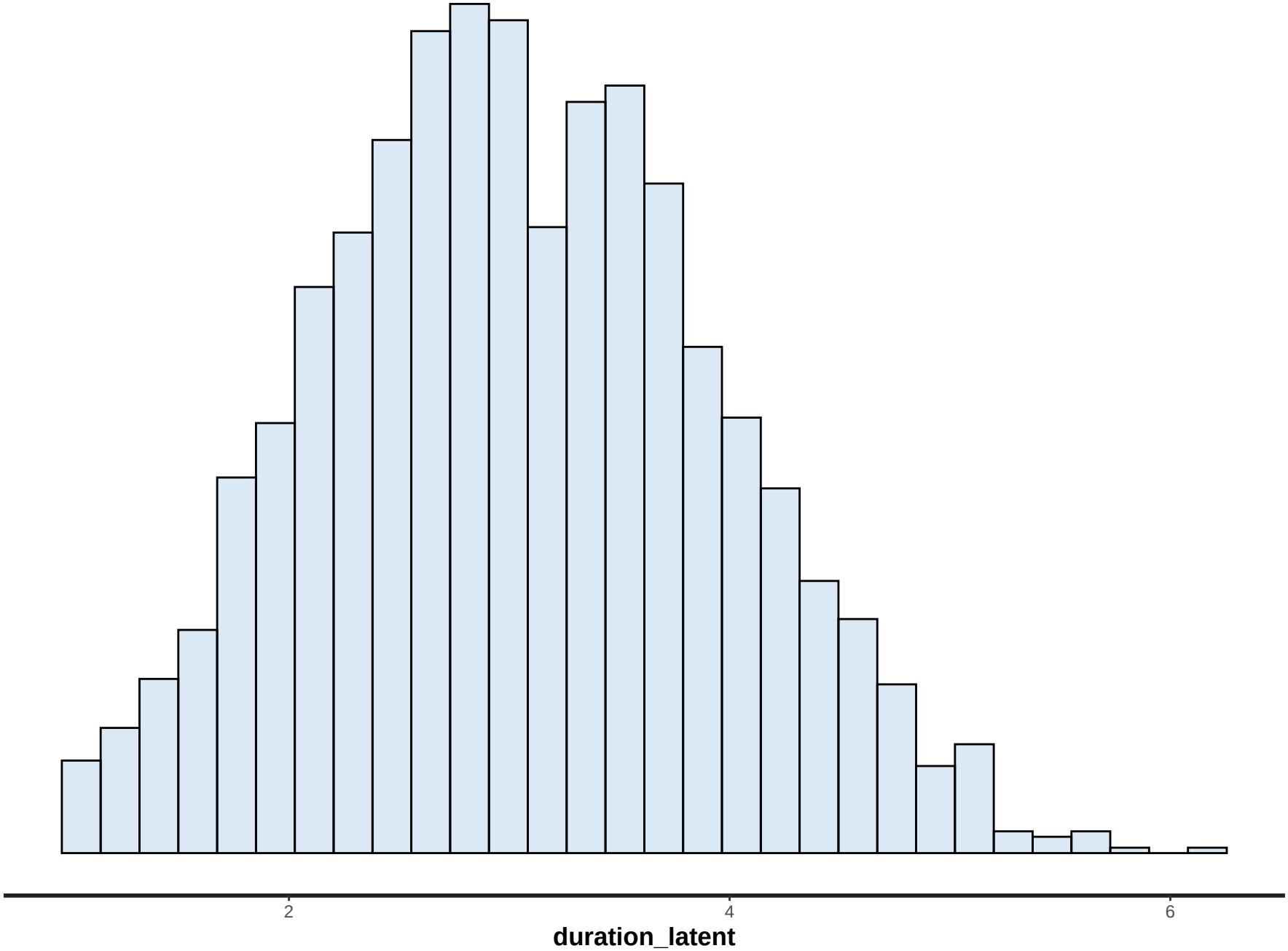

Effective Reproduction Number
Re
2
1
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Median
5%−95%
15%−85%
25%−75%

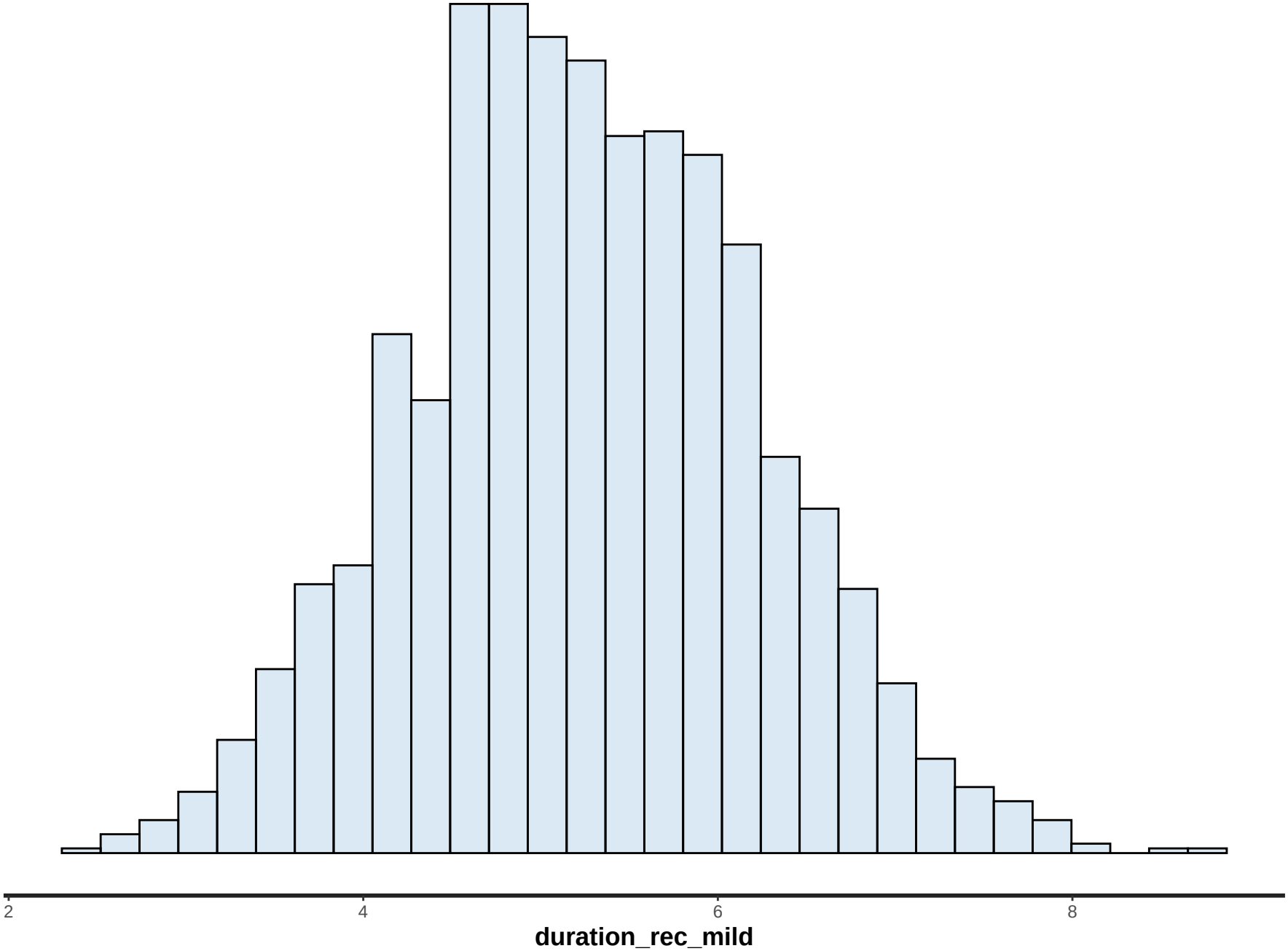
Rt as of 2020−10−12

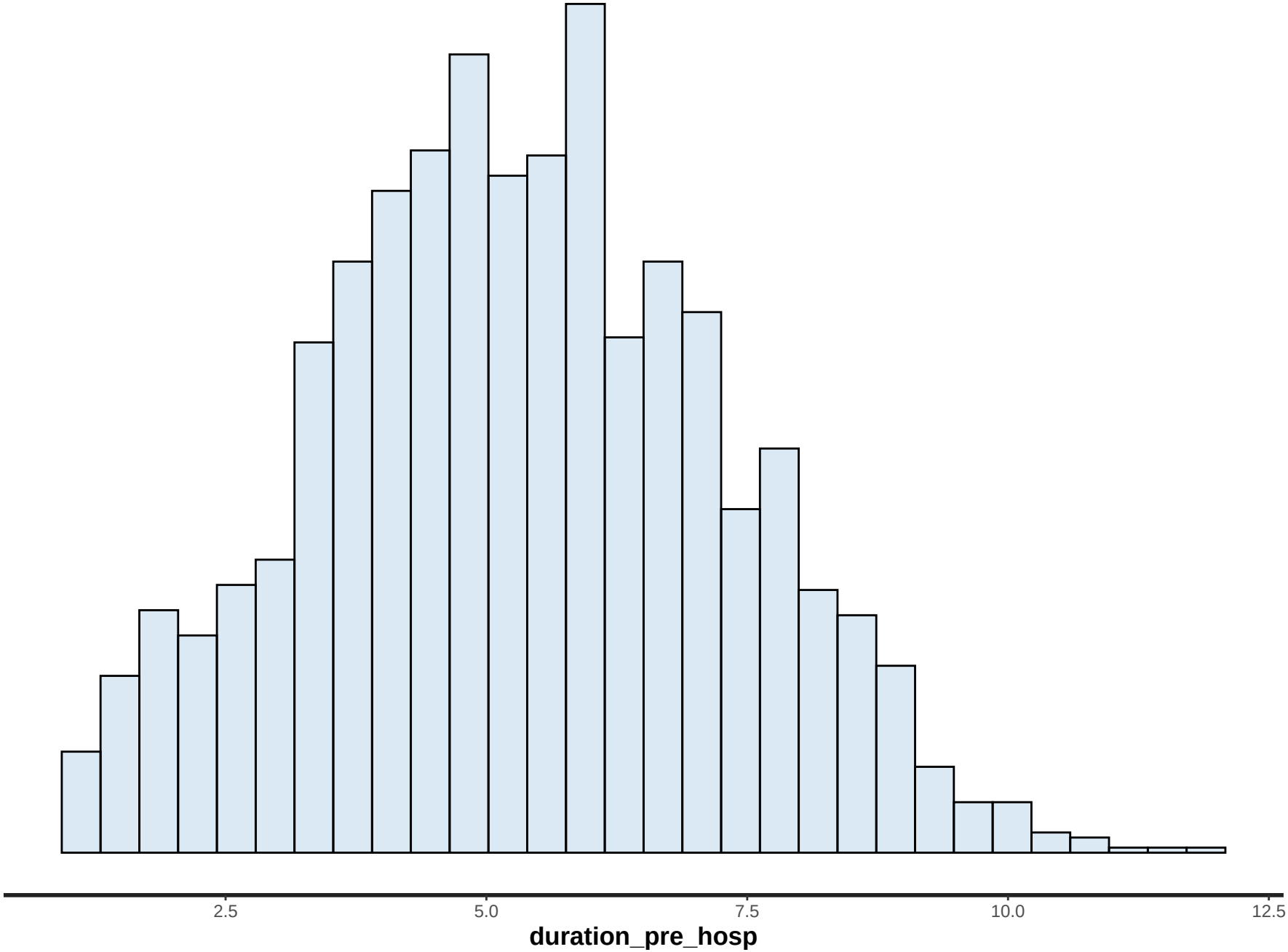
5%	10%	25%	50%	75%	90%	95%
0.33	0.44	0.59	0.79	1.00	1.23	1.39

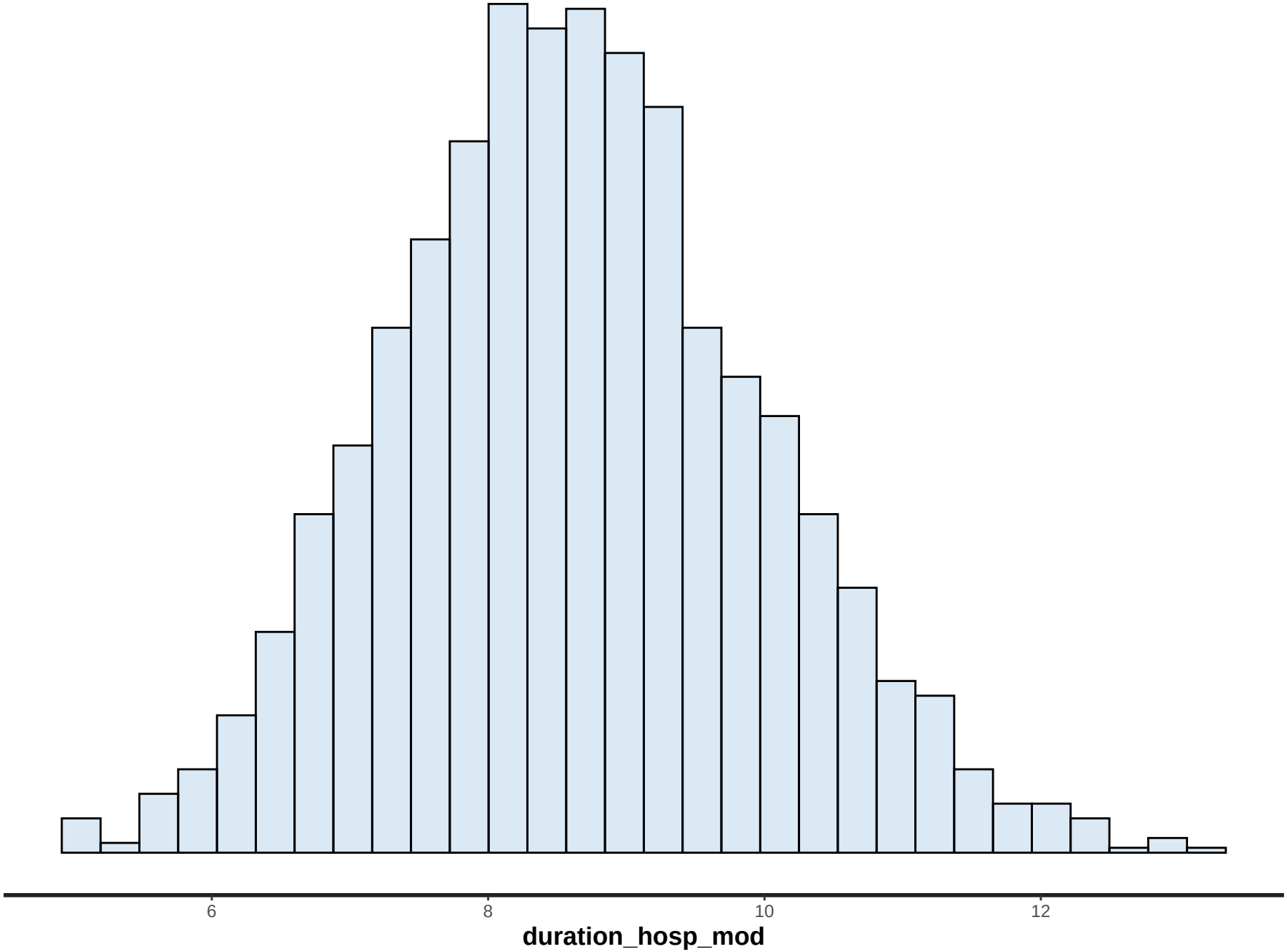


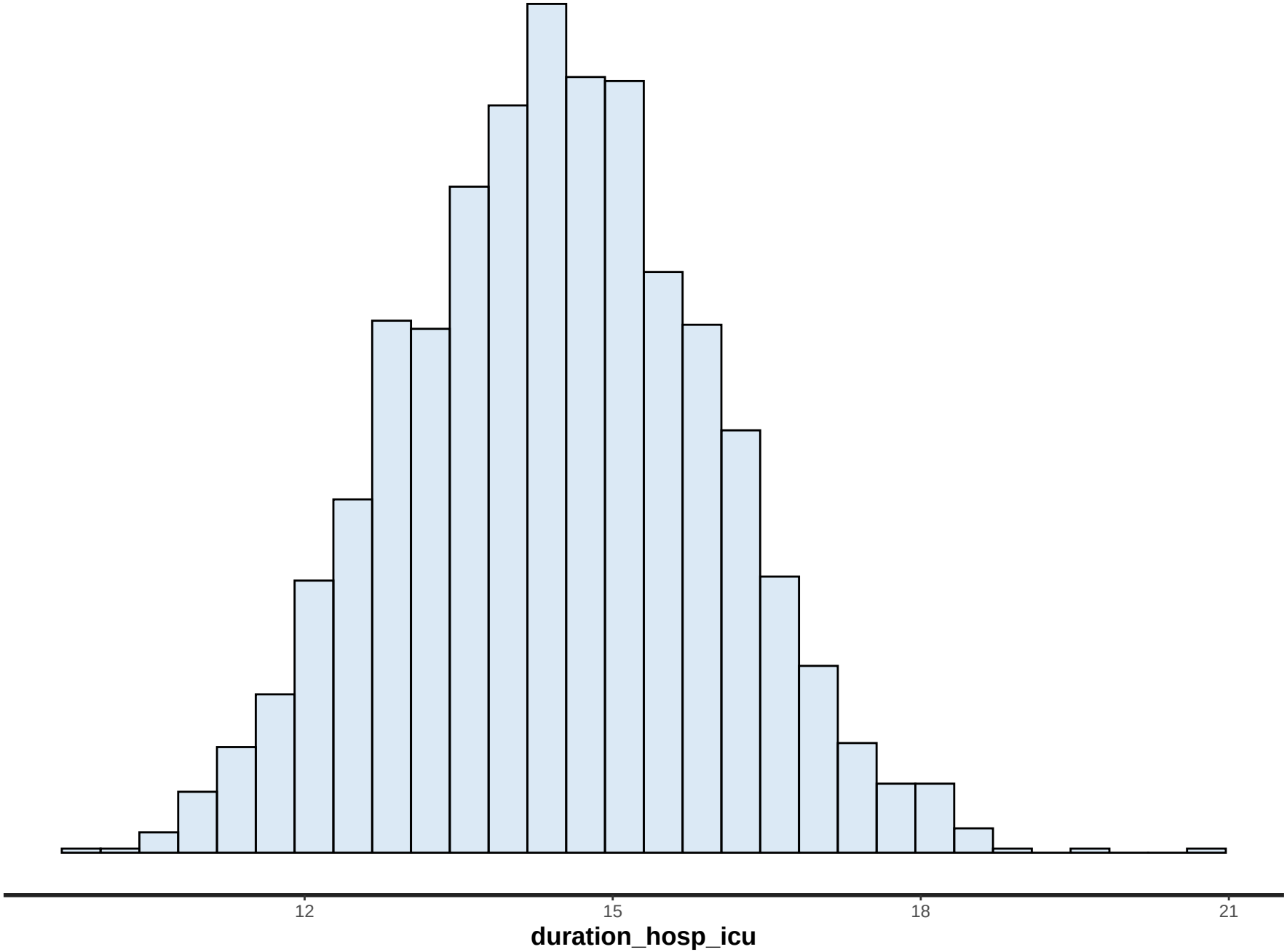

2
3
4
5
r0

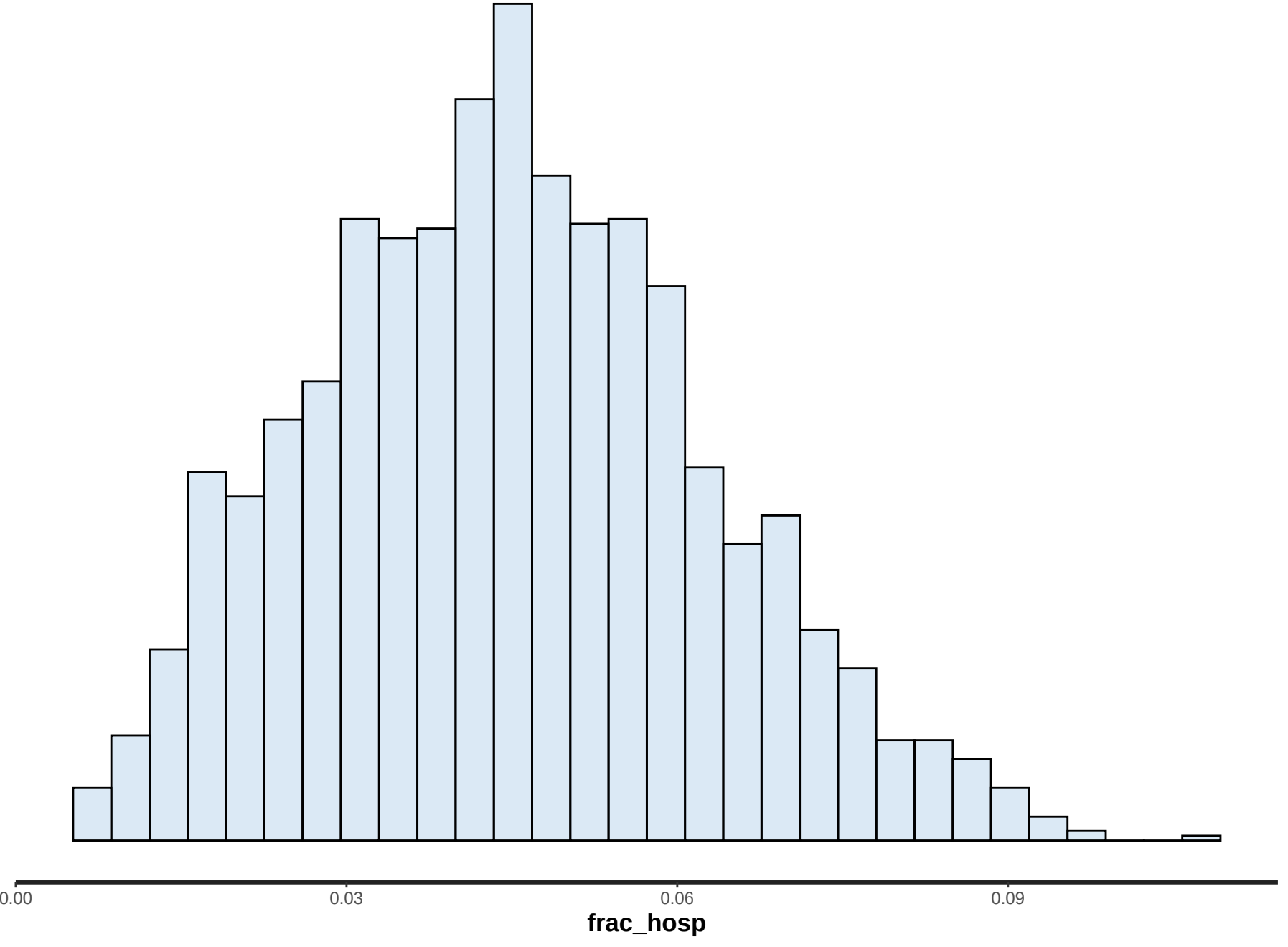

2
4
6
duration_latent

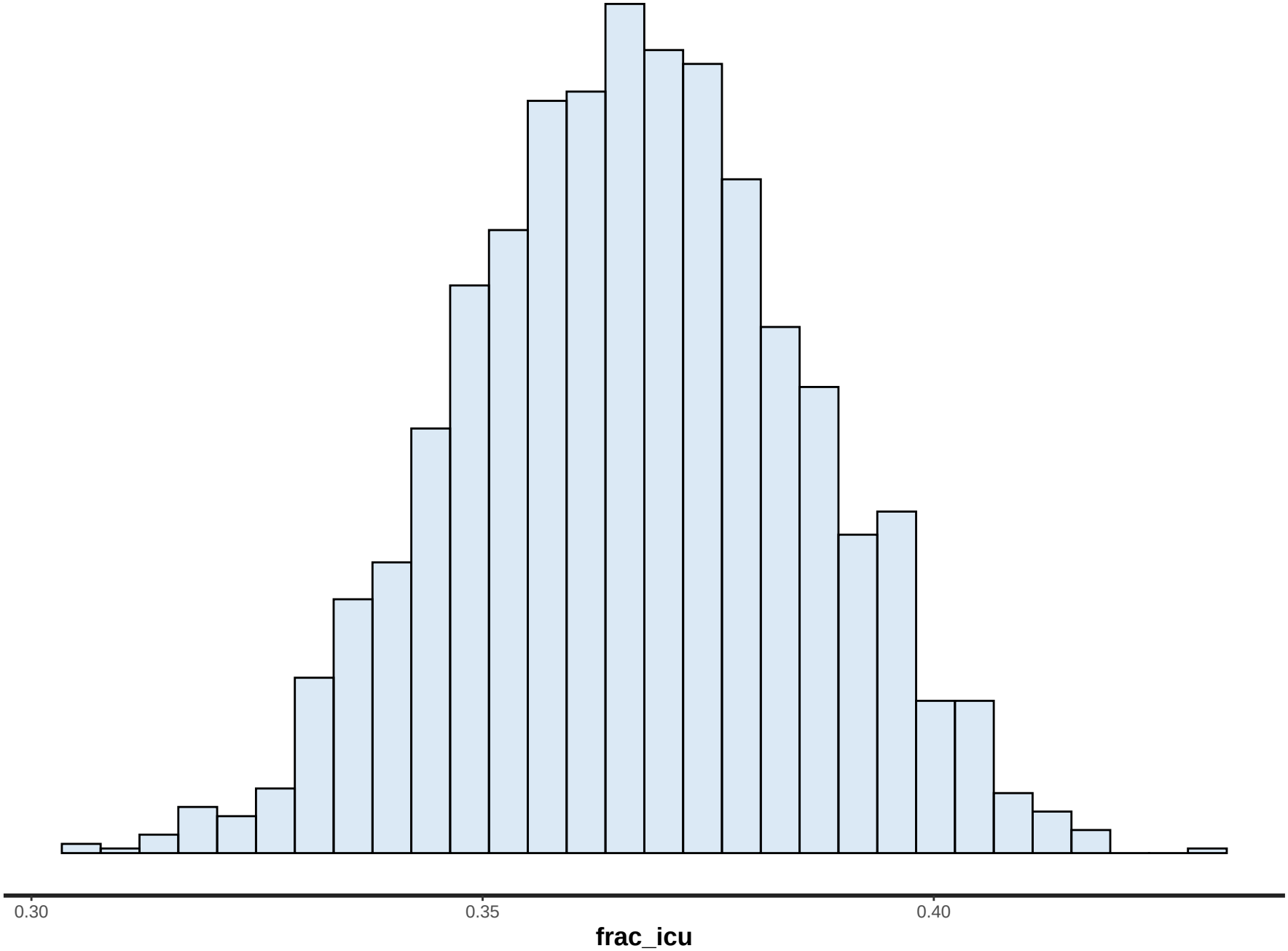

2
4
6
8
duration_rec_mild

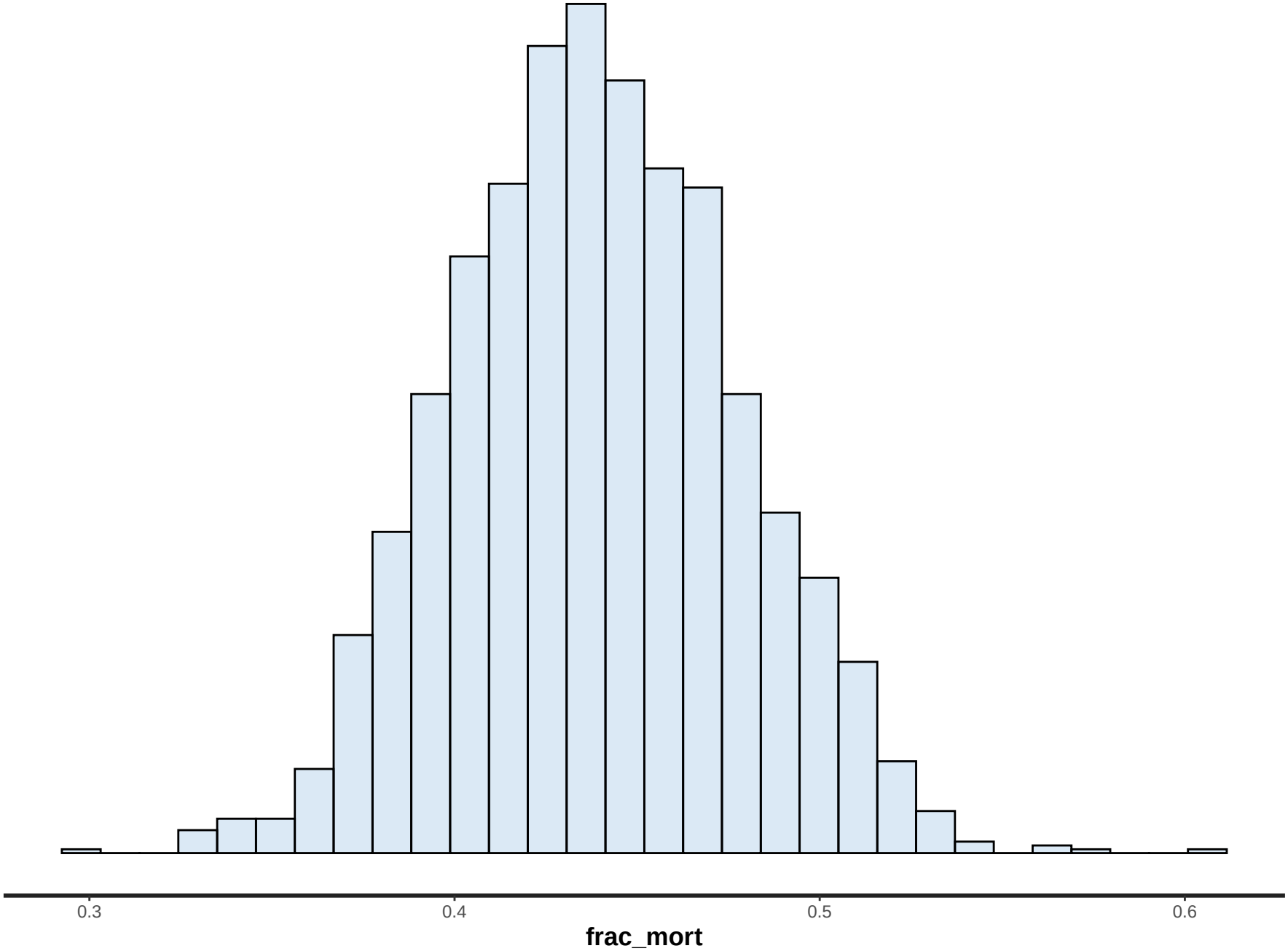

2.5
5.0
7.5
10.0
12.5
duration_pre_hosp

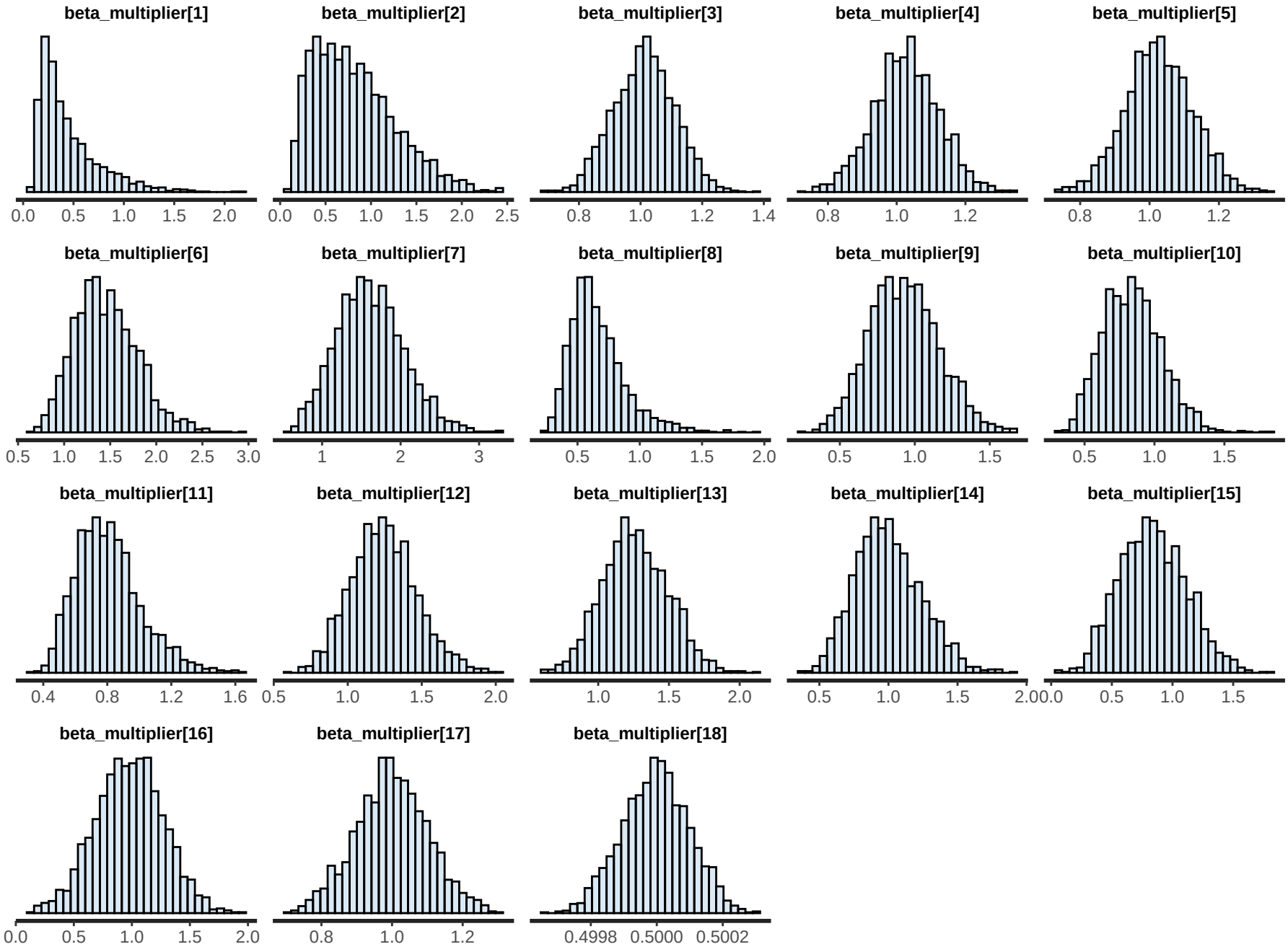

6
8
10
12
duration_hosp_mod


12
15
18
21
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
frac_mort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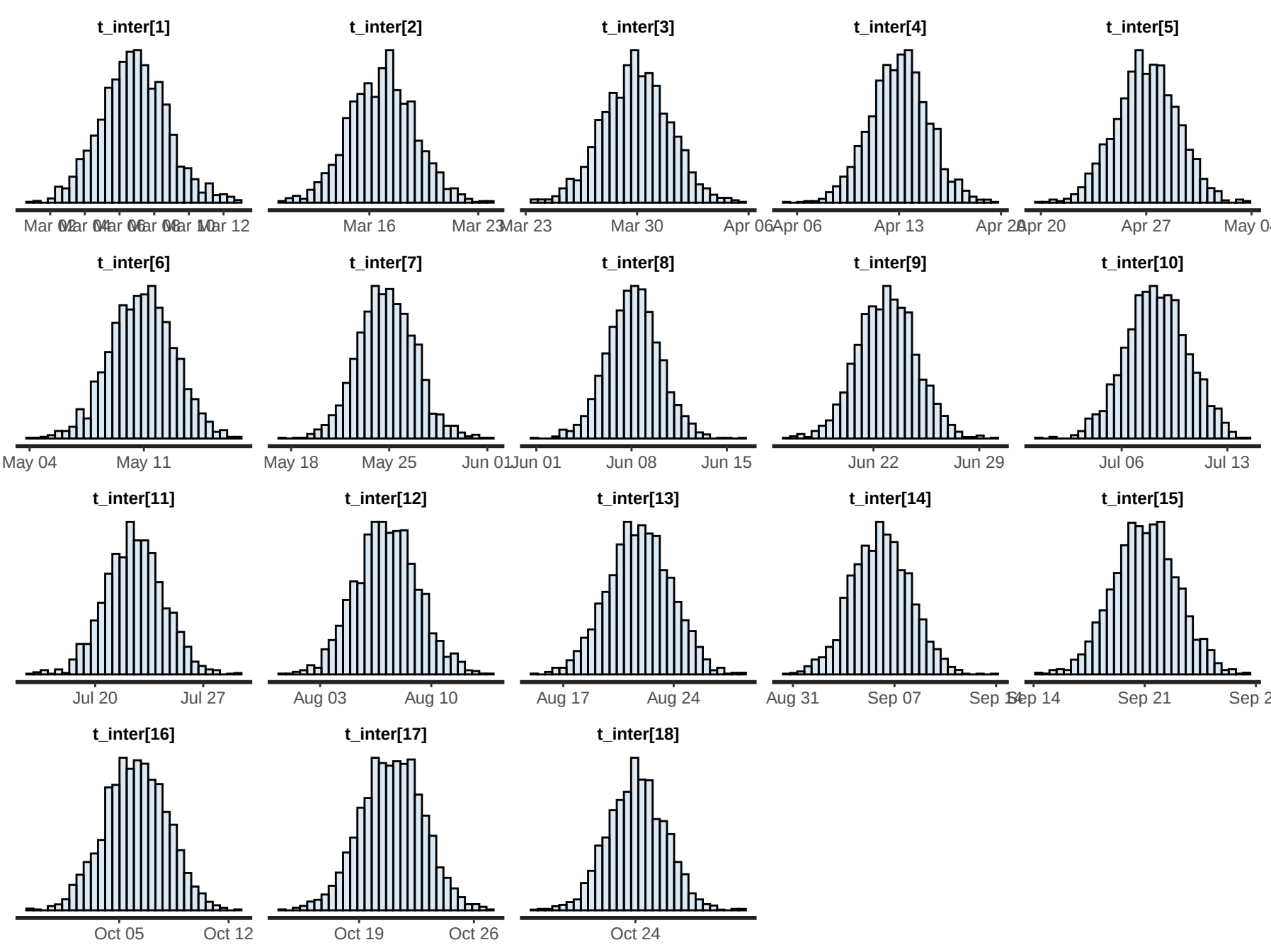
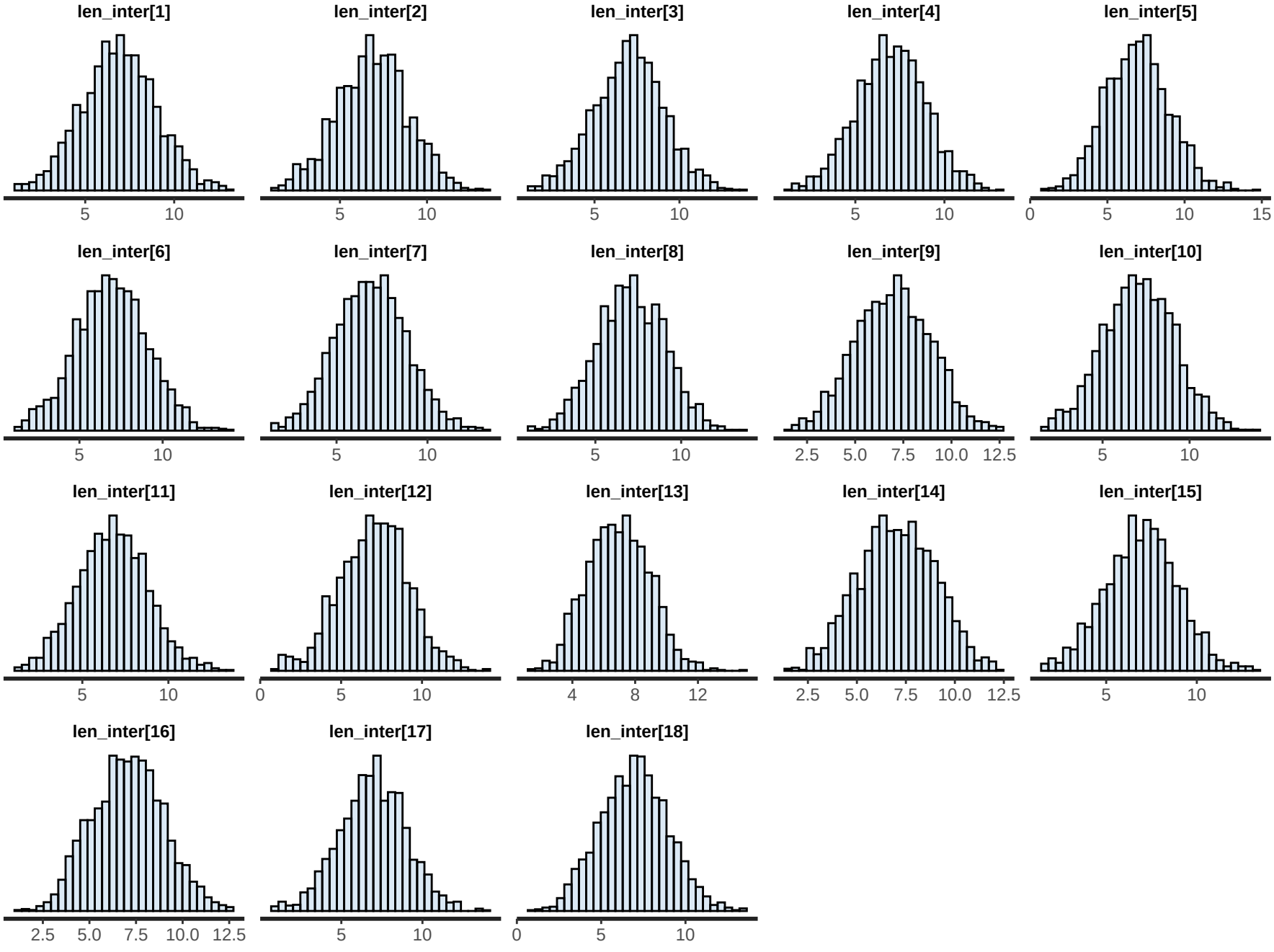
0.0 0.5 1.0 1.5 2.0
beta_multiplier[2]
0.0 0.5 1.0 1.5 2.0 2.5
beta_multiplier[3]
0.8 1.0 1.2 1.4
beta_multiplier[4]
0.8 1.0 1.2
beta_multiplier[5]
0.8 1.0 1.2
beta_multiplier[6]
0.5 1.0 1.5 2.0 2.5 3.0
beta_multiplier[7]
1 2 3
beta_multiplier[8]
0.5 1.0 1.5 2.0
beta_multiplier[9]
0.5 1.0 1.5
beta_multiplier[10]
0.5 1.0 1.5
beta_multiplier[11]
0.4 0.8 1.2 1.6
beta_multiplier[12]
0.5 1.0 1.5 2.0
beta_multiplier[13]
1.0 1.5 2.0
beta_multiplier[14]
0.5 1.0 1.5 2.0
beta_multiplier[15]
0.0 0.5 1.0 1.5
beta_multiplier[16]
0.0 0.5 1.0 1.5 2.0
beta_multiplier[17]
0.8 1.0 1.2
beta_multiplier[18]
0.4998 0.5000 0.5002


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


len_inter[1]
len_inter[2]
len_inter[3]
len_inter[4]
len_inter[5]
len_inter[6]
len_inter[7]
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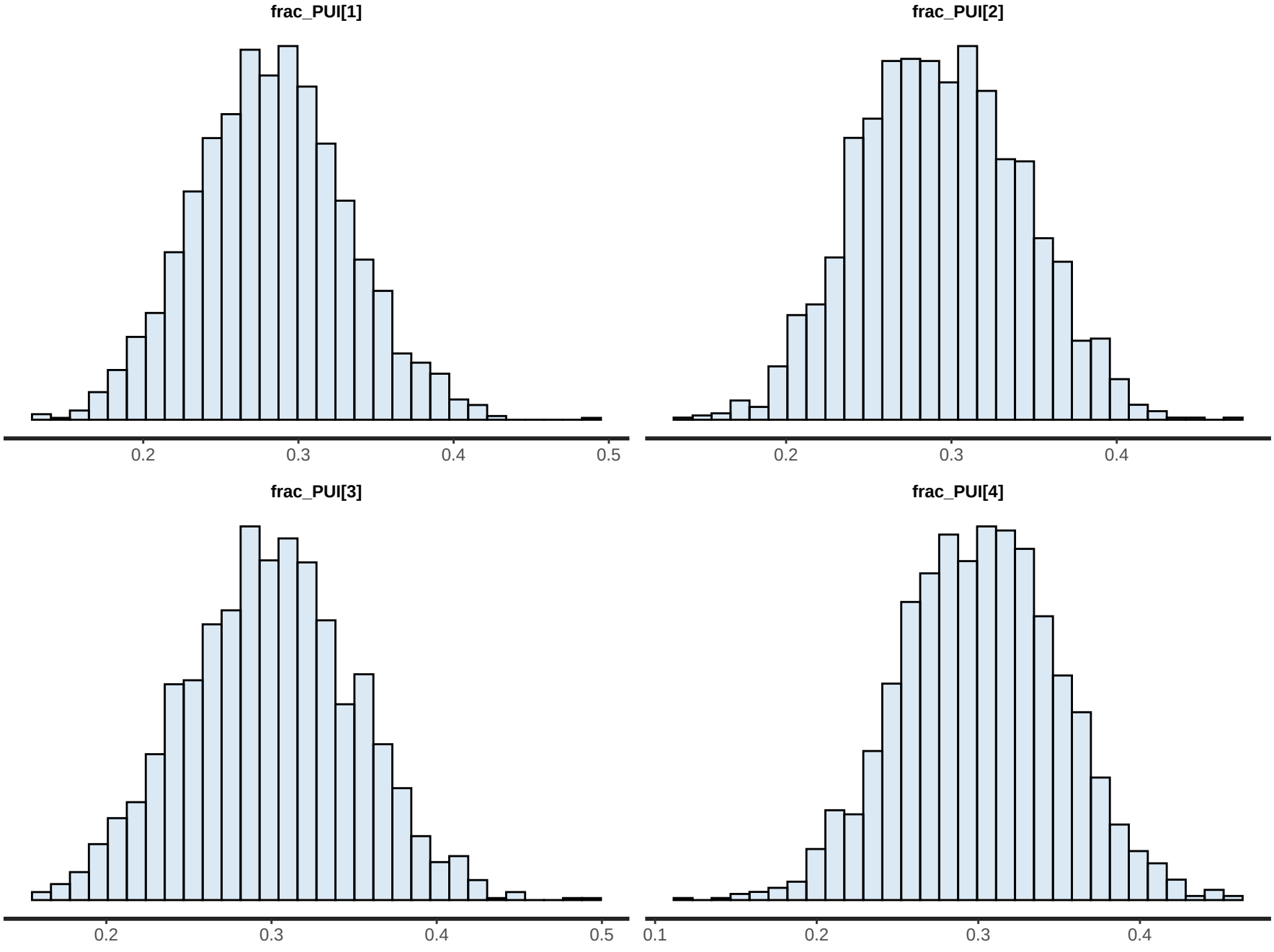
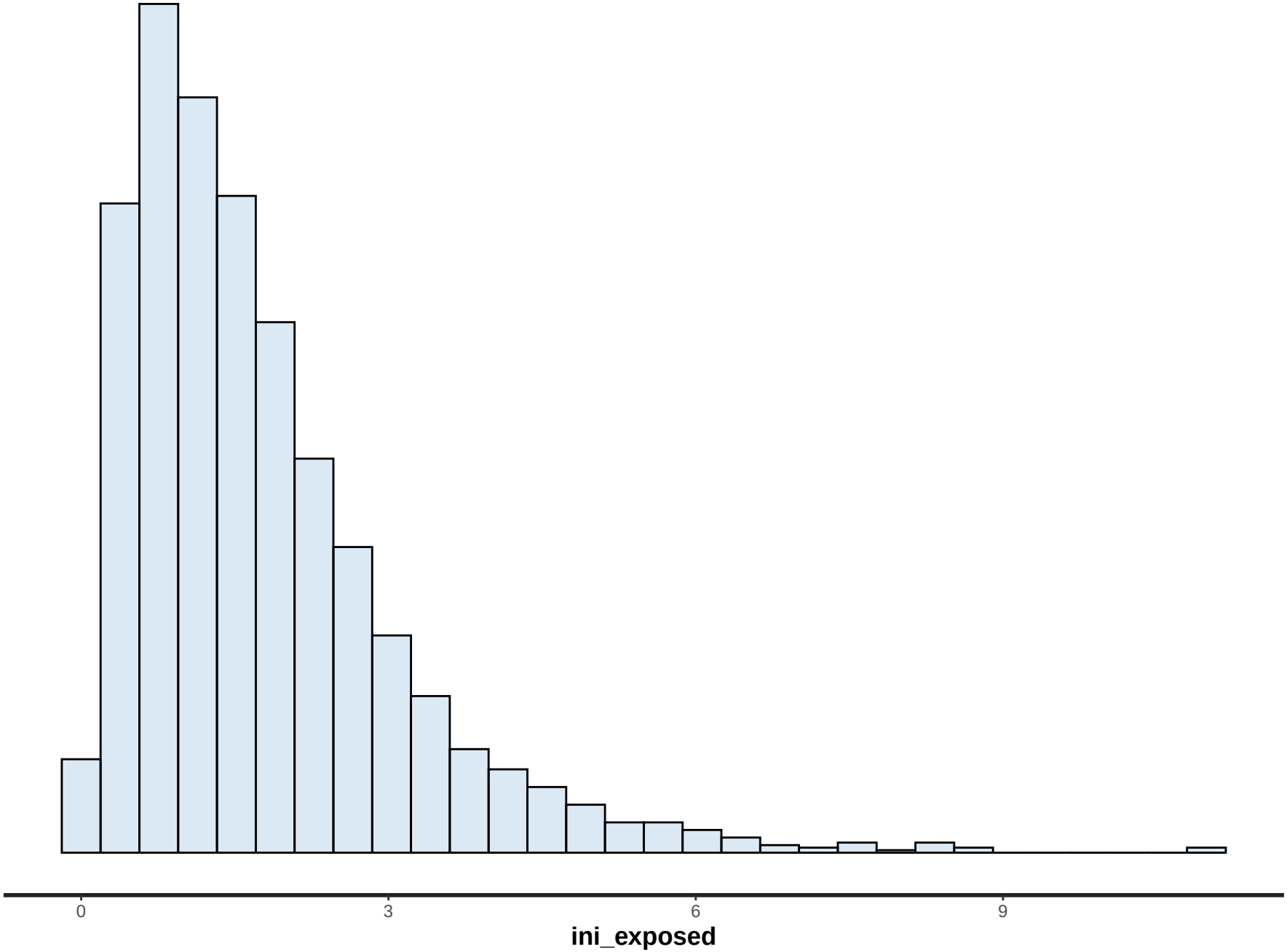
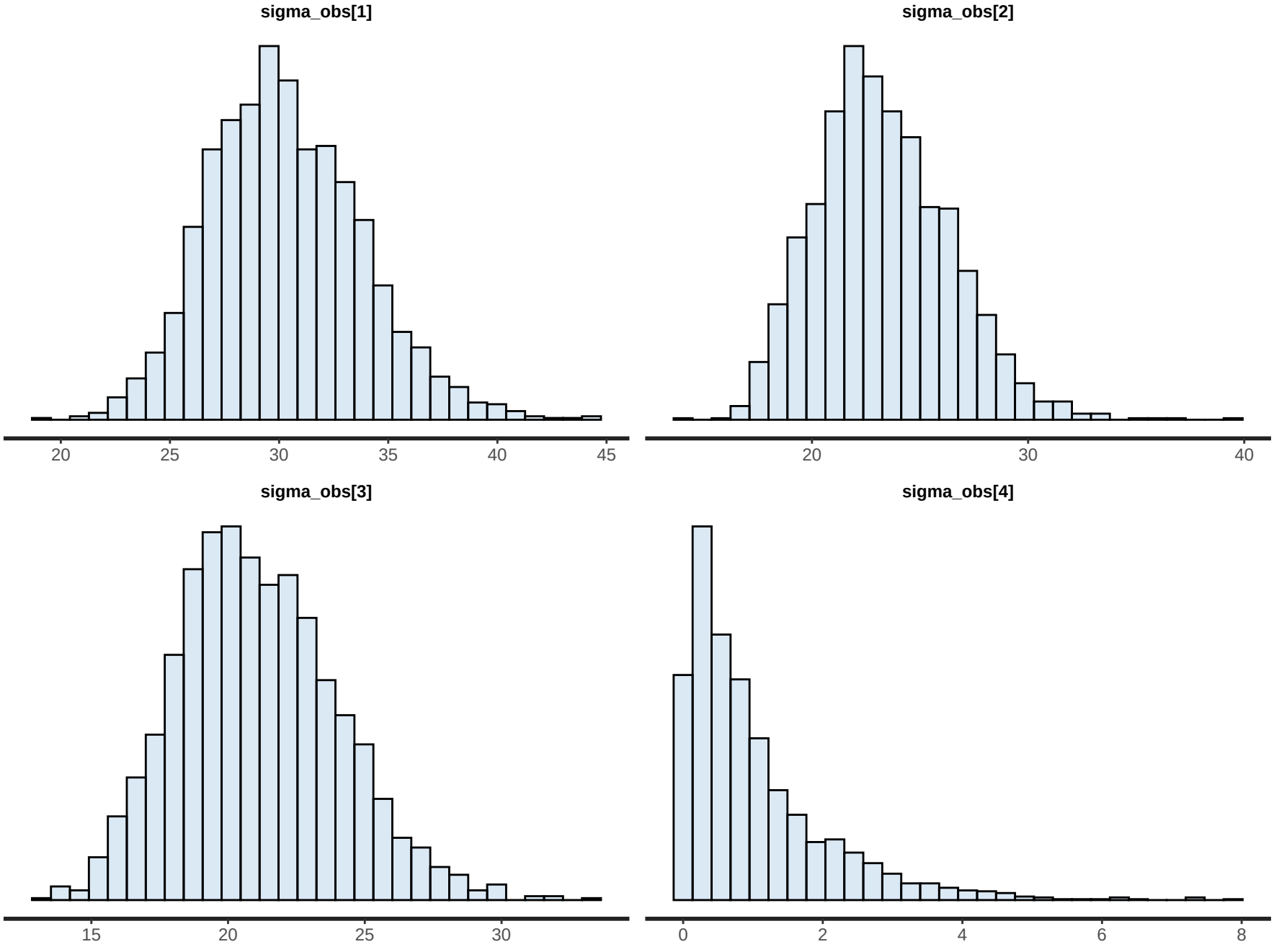
len_inter[9]
len_inter[10]
len_inter[11]
len_inter[12]
len_inter[13]
len_inter[14]
len_inter[15]
len_inter[16]
len_inter[17]
len_inter[18]


frac_PUI[1]
0.2
0.3
0.4
0.5
frac_PUI[2]
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
3
6
9
ini_exposed


sigma_obs[1]
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45
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20
30
40
sigma_obs[3]
15
20
25
30
sigma_obs[4]
0
2
4
6
8