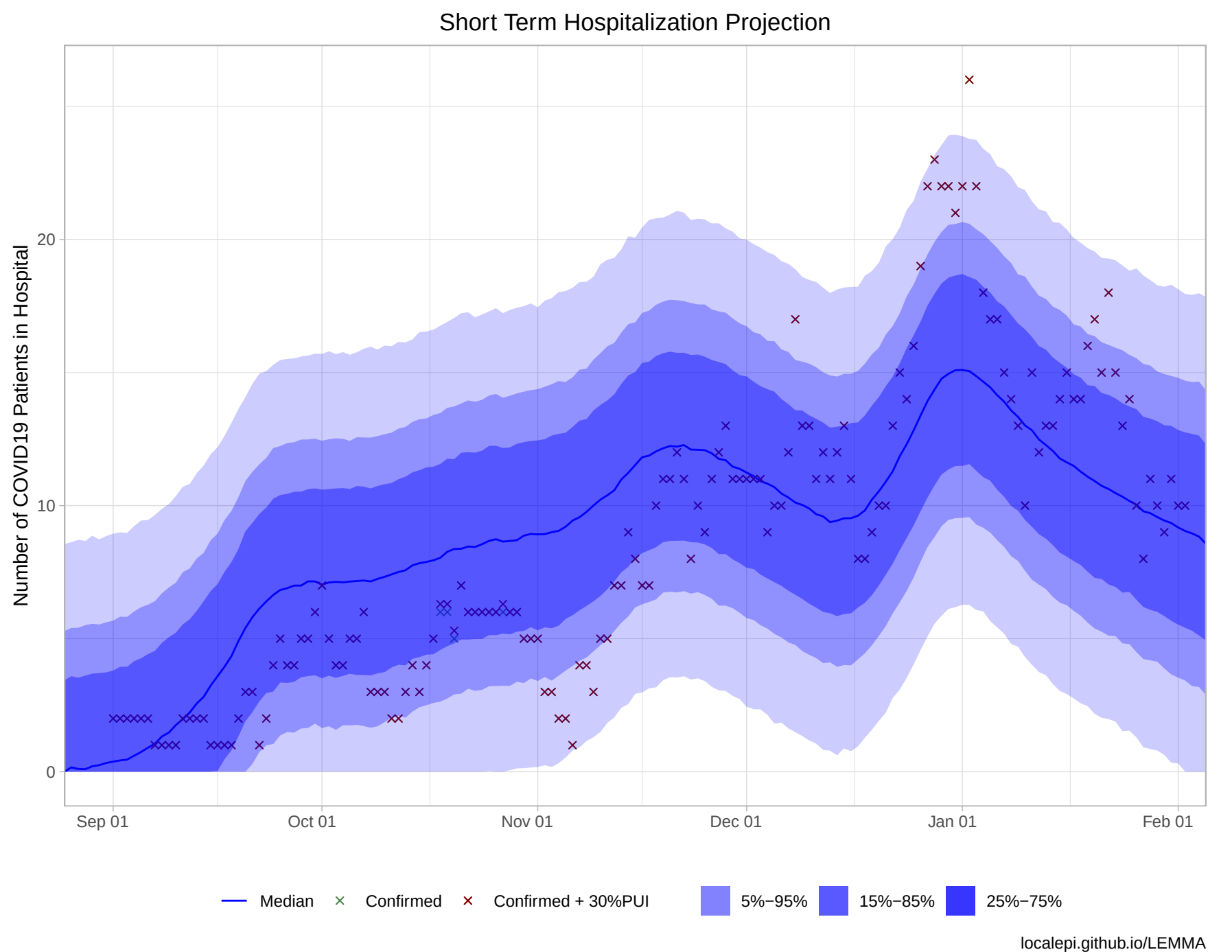
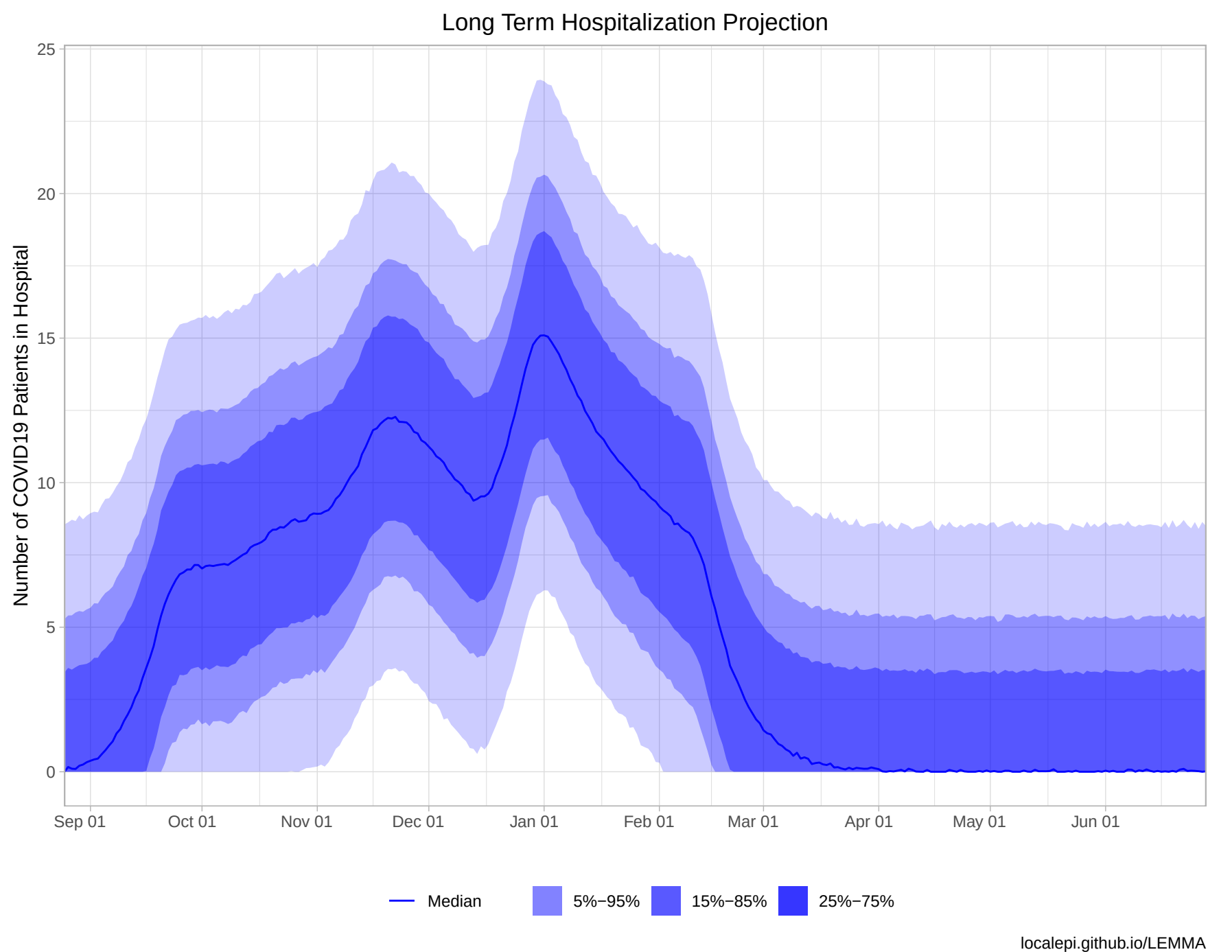
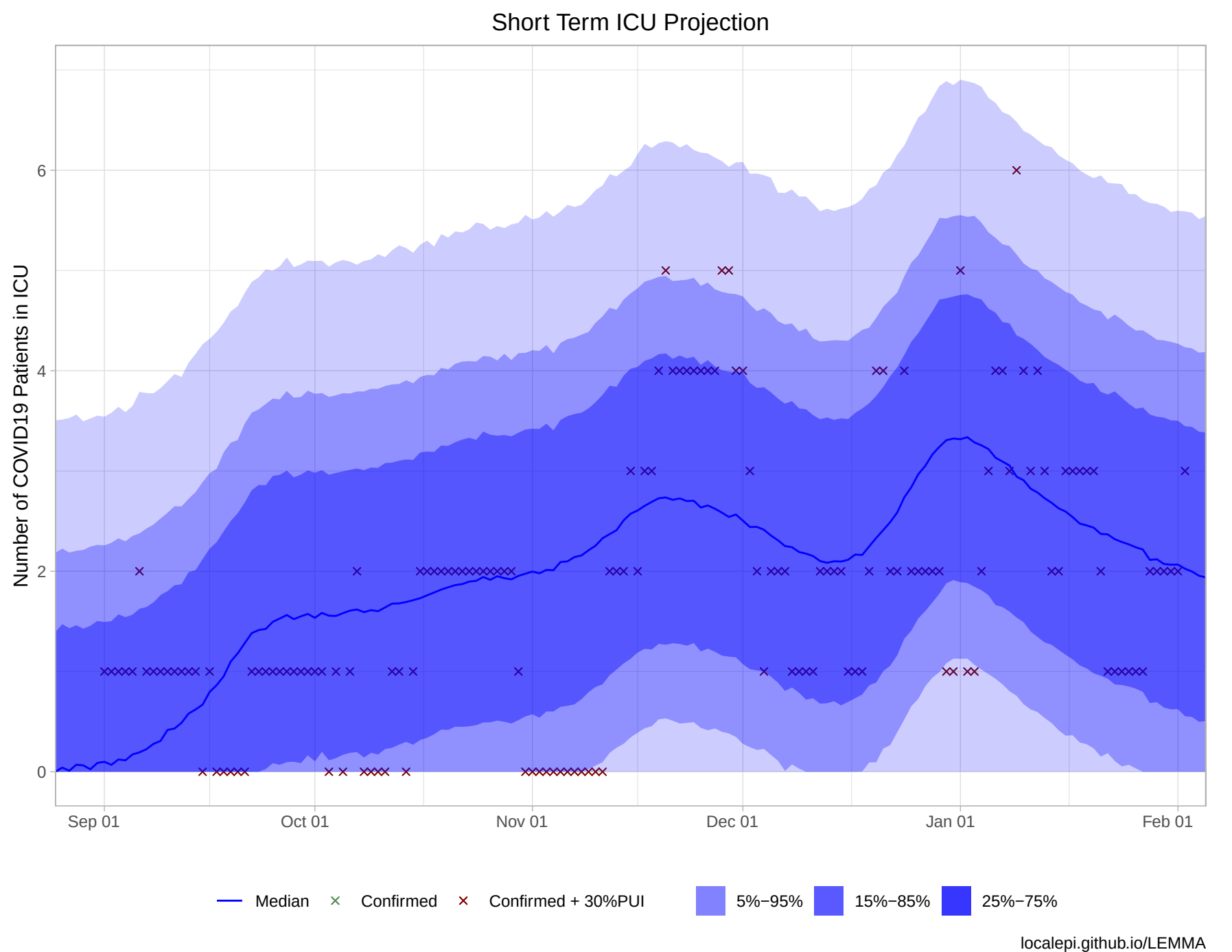
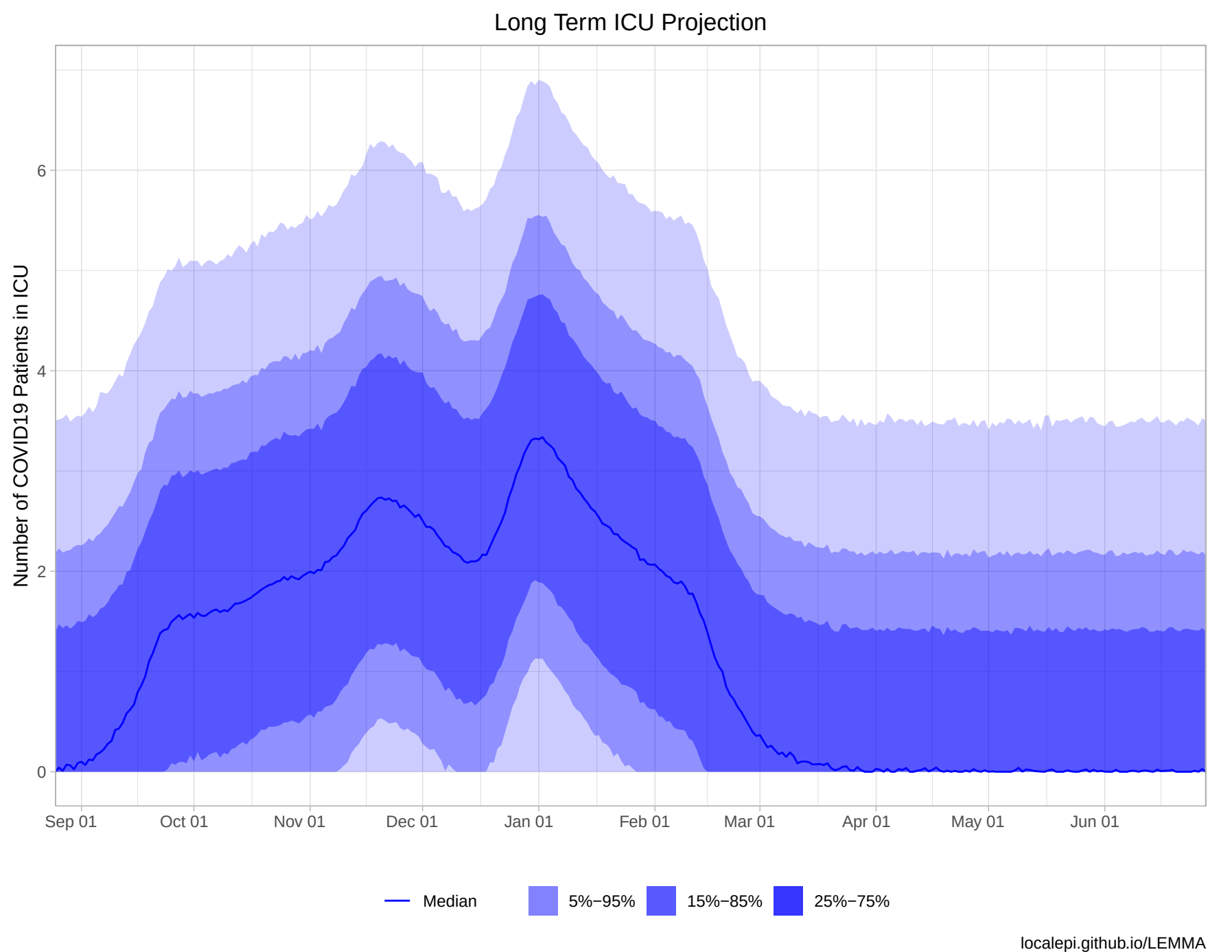
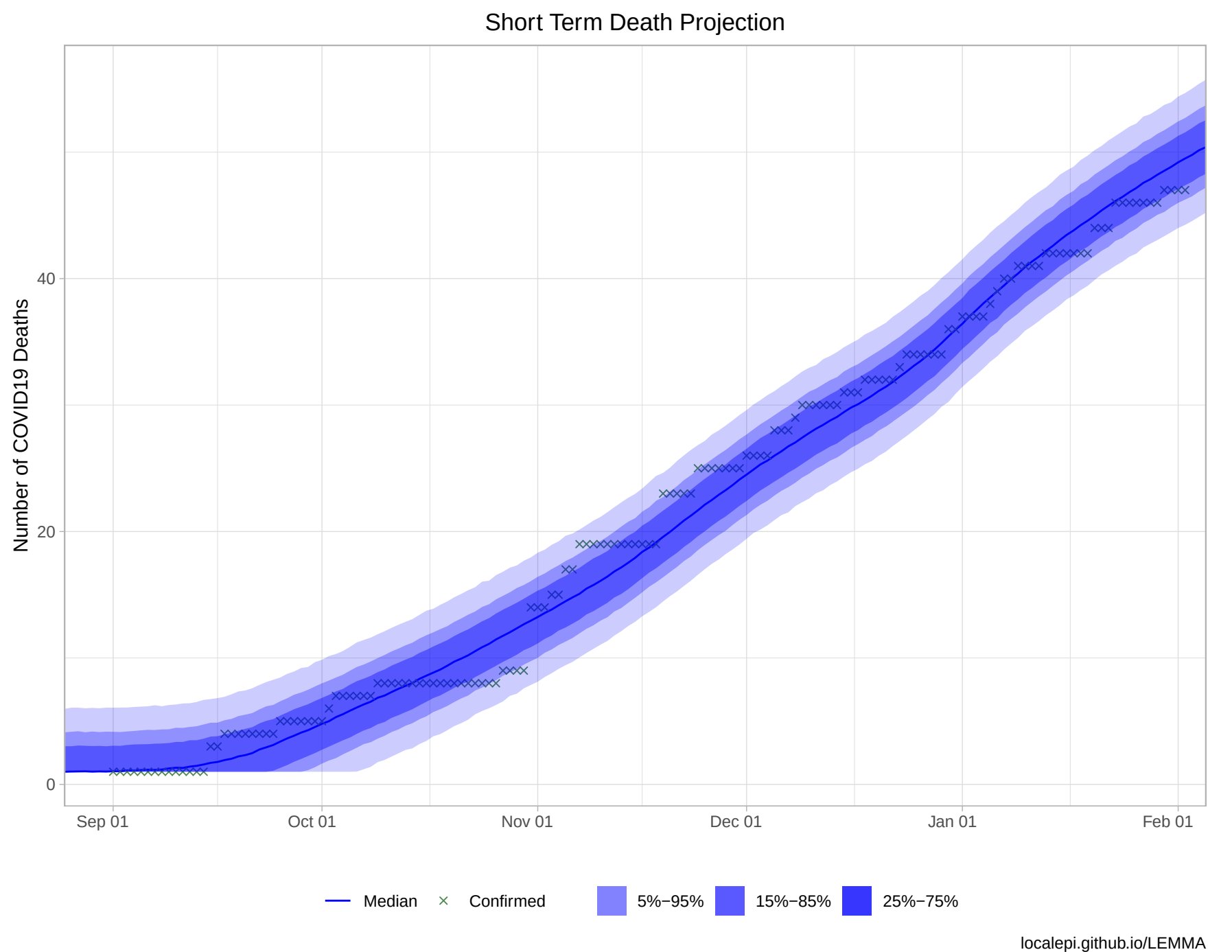
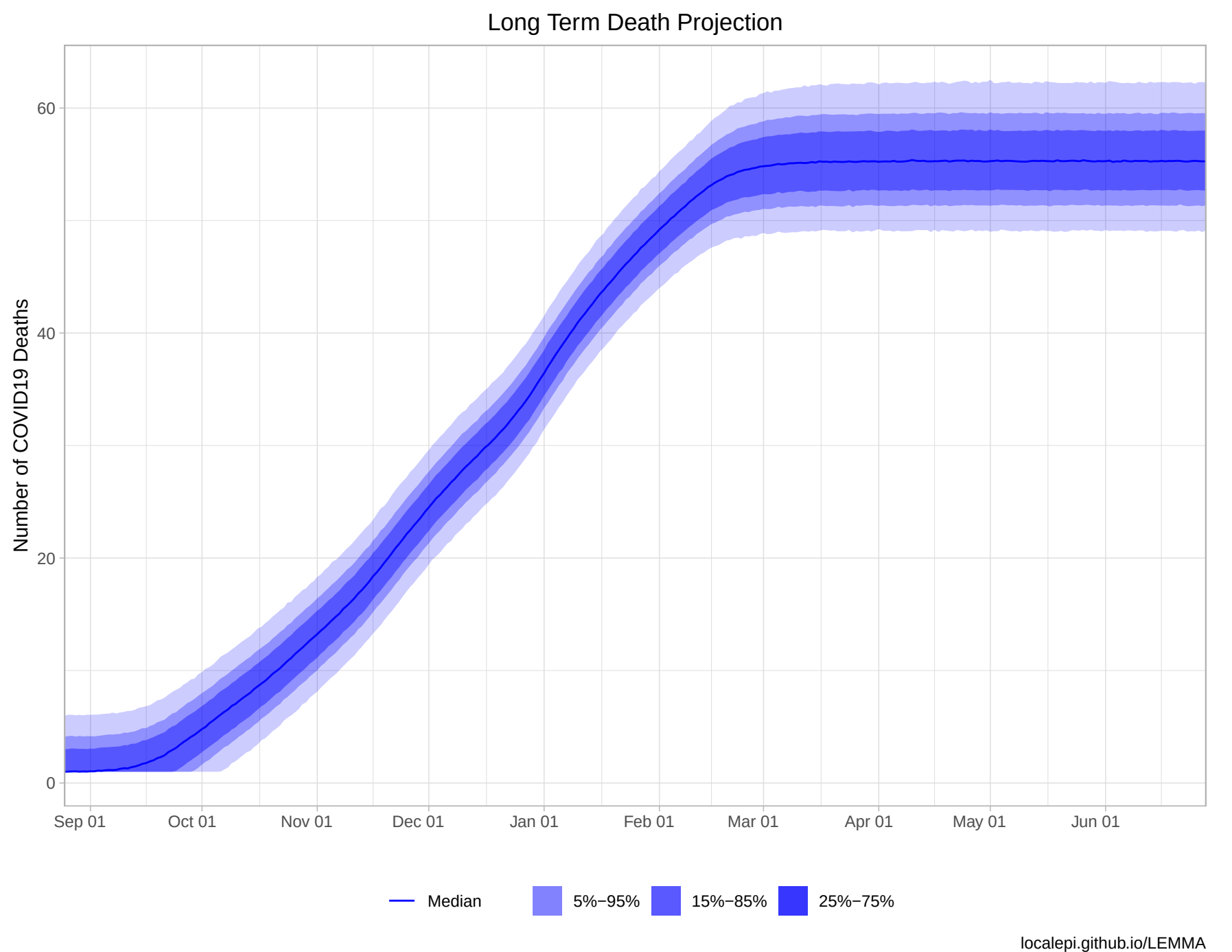

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
10
20
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

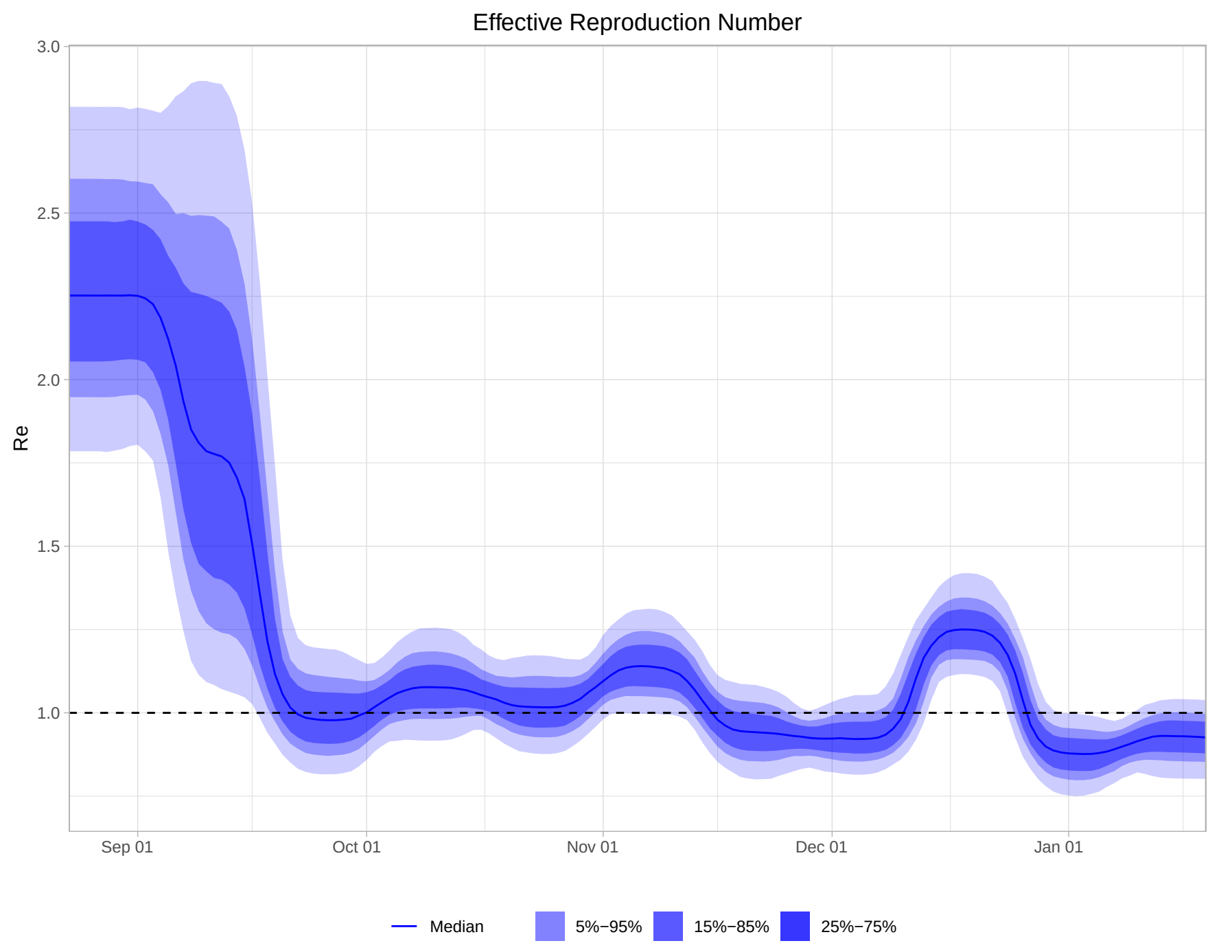

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
25
20
15
10
5
0
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Apr 01
May 01
Jun 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


Short Term ICU Projection
Number of COVID19 Patients in ICU
0
2
4
6
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 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
2
4
6
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Apr 01
May 01
Jun 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

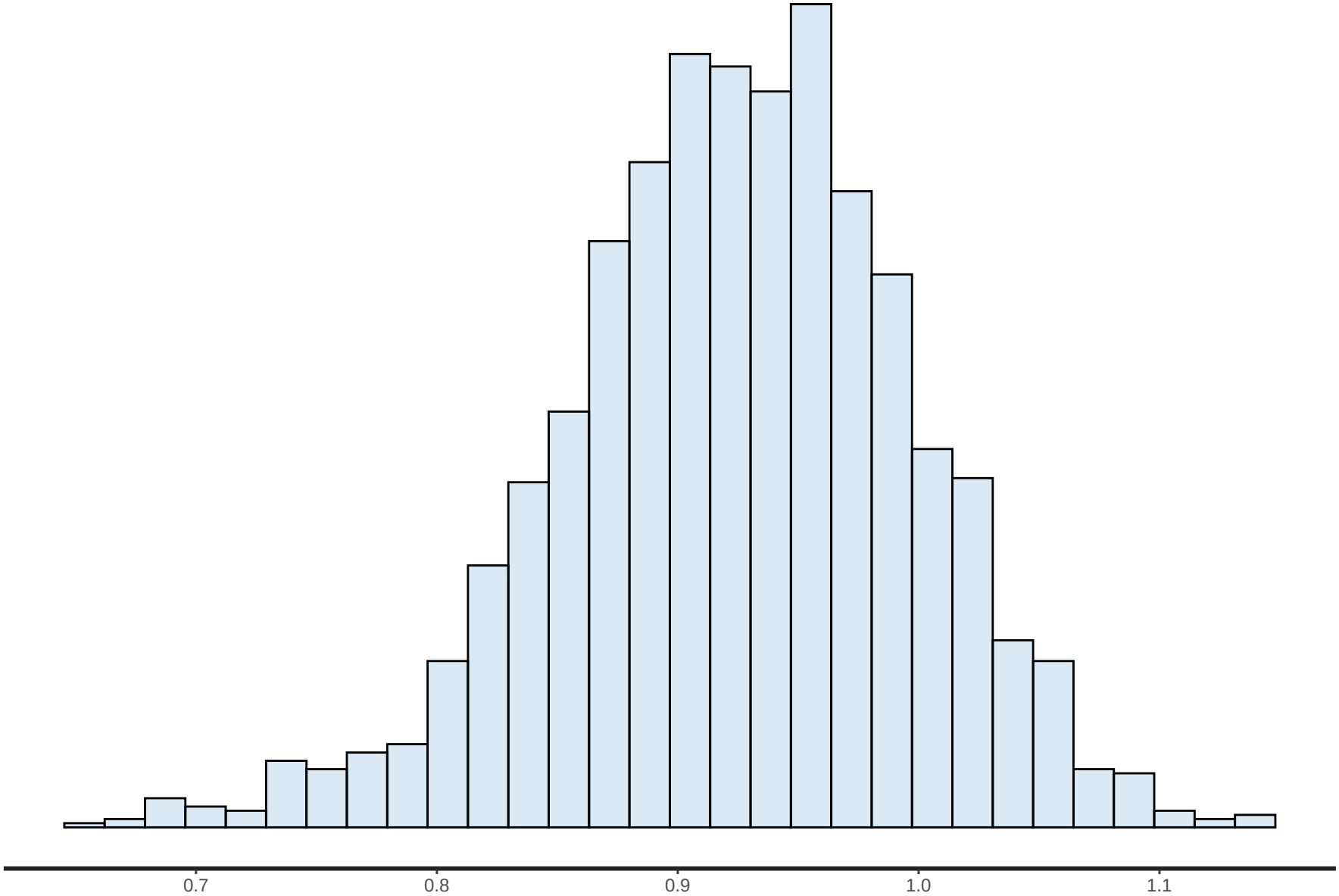

Short Term Death Projection
Number of COVID19 Deaths
0
20
40
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

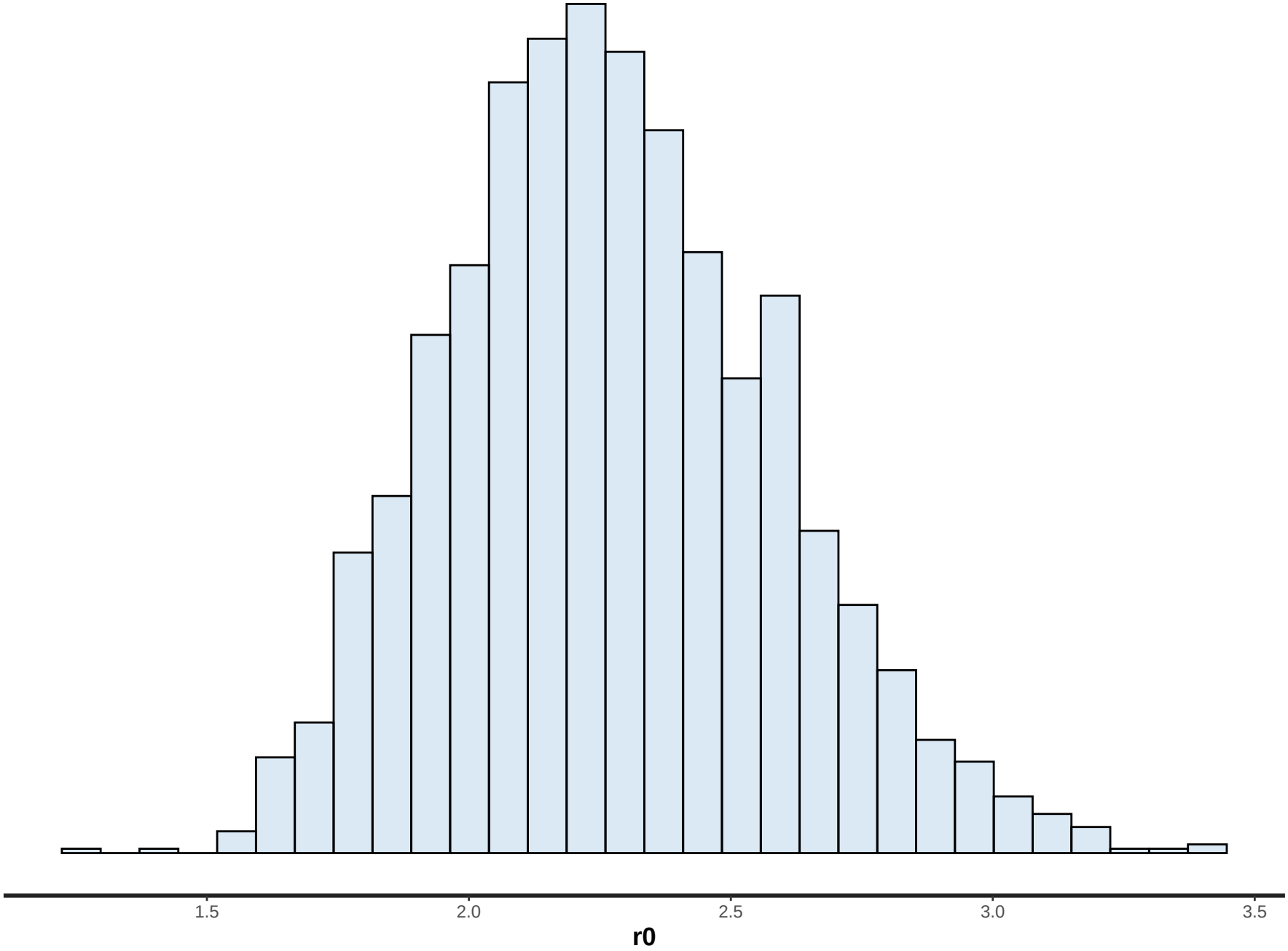

Long Term Death Projection
Number of COVID19 Deaths
0
20
40
60
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Apr 01
May 01
Jun 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

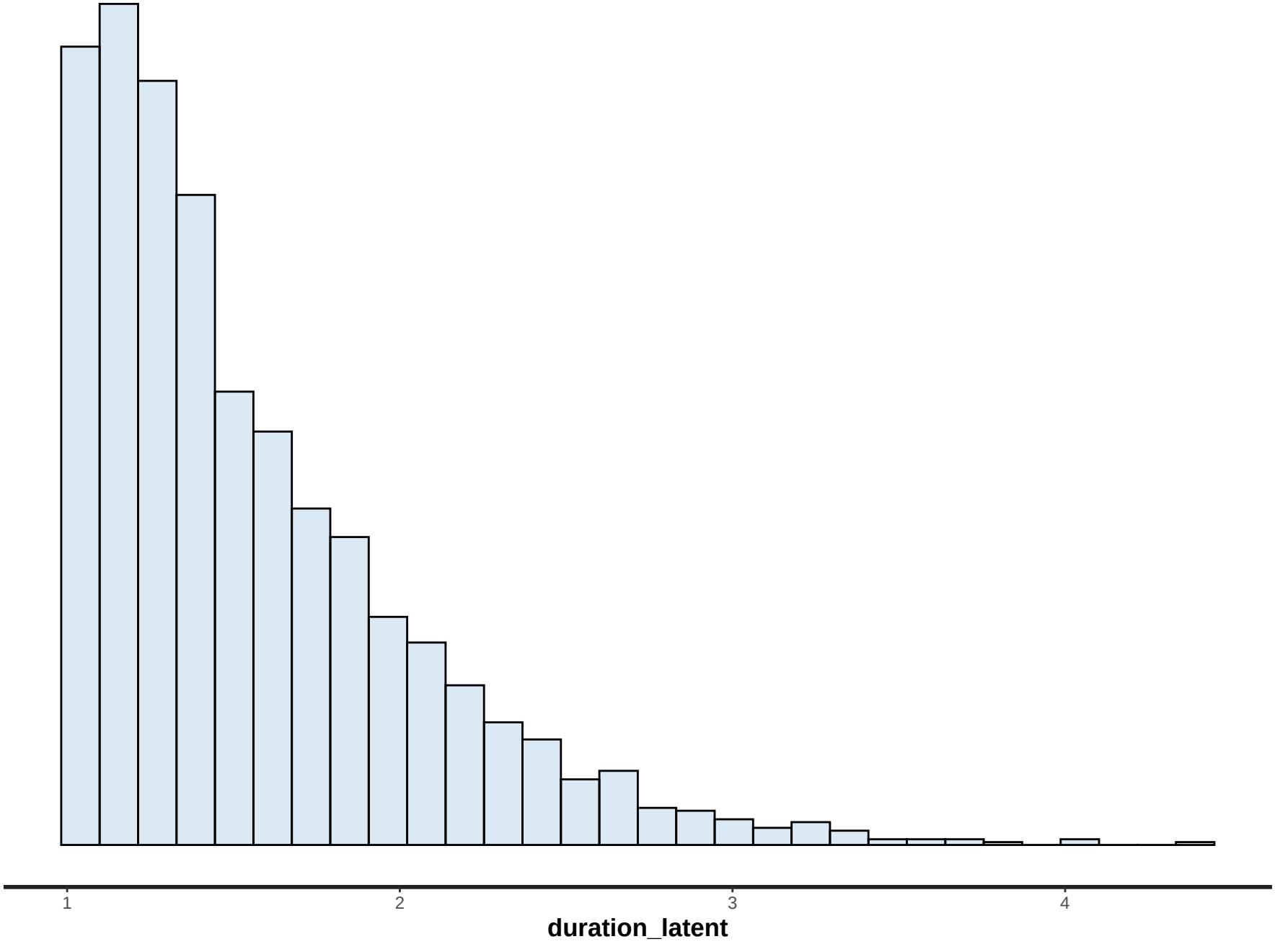

Effective Reproduction Number
Re
3.0
2.5
2.0
1.5
1.0
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Median
5%−95%
15%−85%
25%−75%

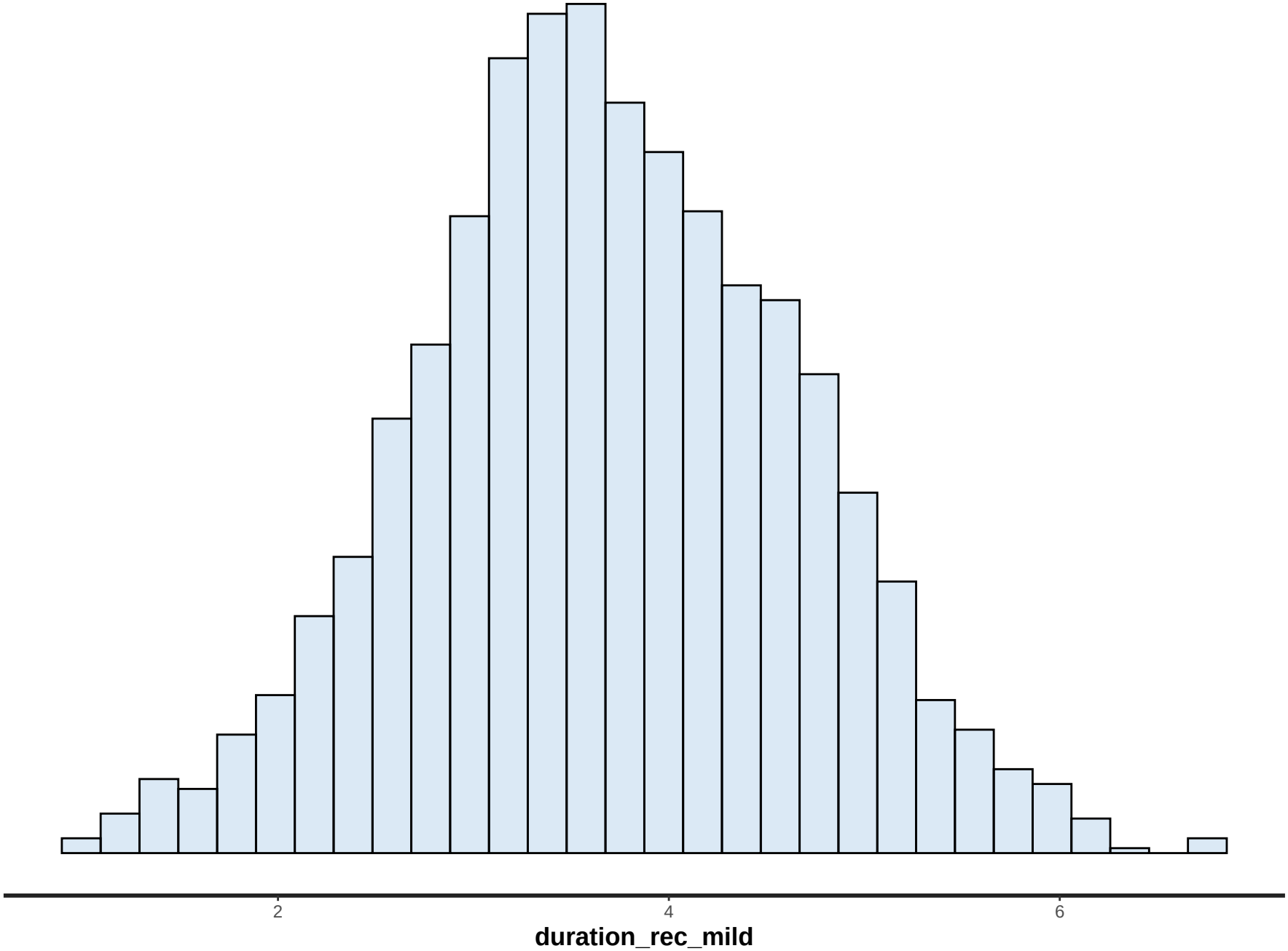
Rt as of 2021−01−19

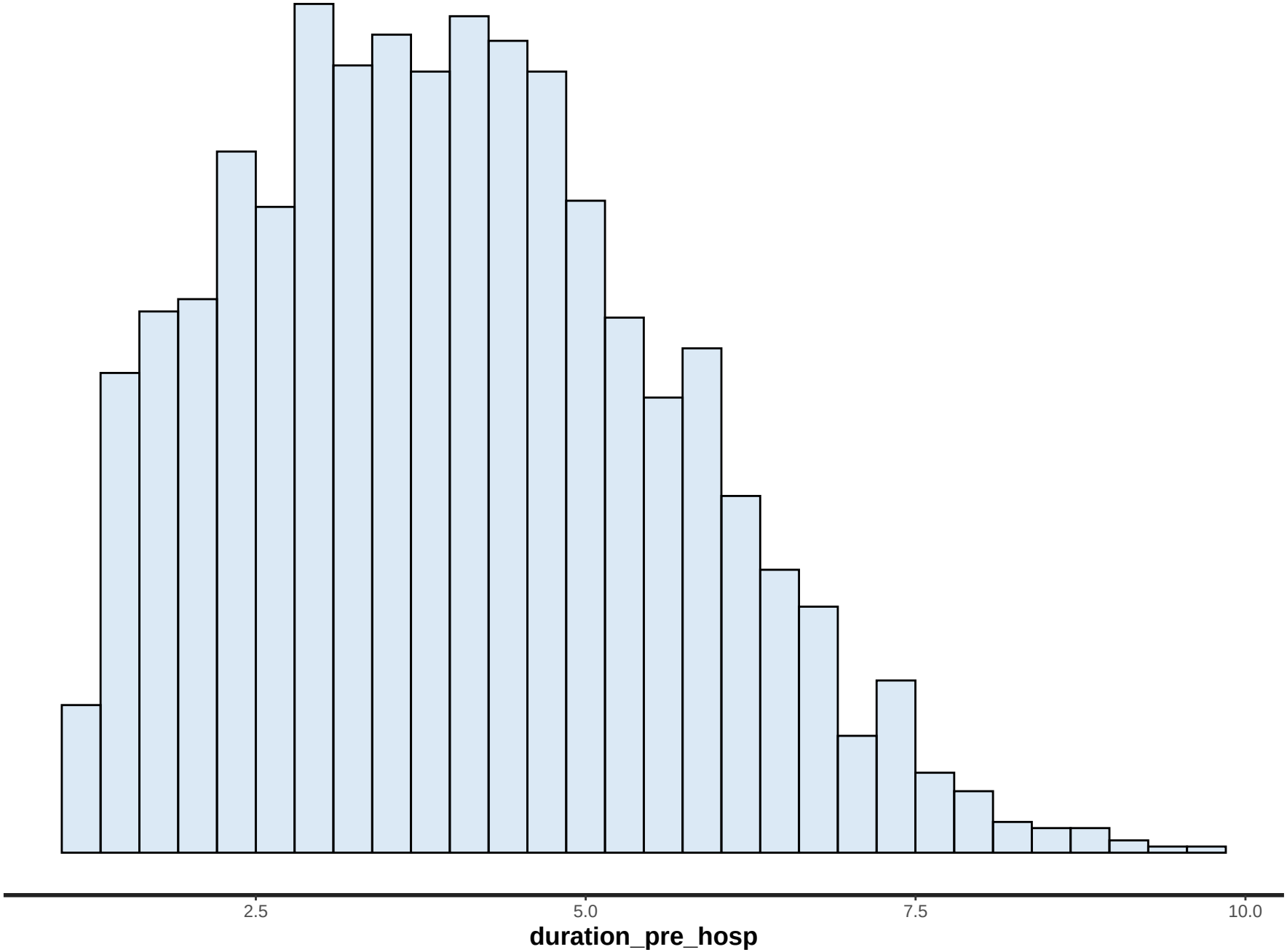
5%	10%	25%	50%	75%	90%	95%
0.80	0.83	0.88	0.93	0.97	1.01	1.04

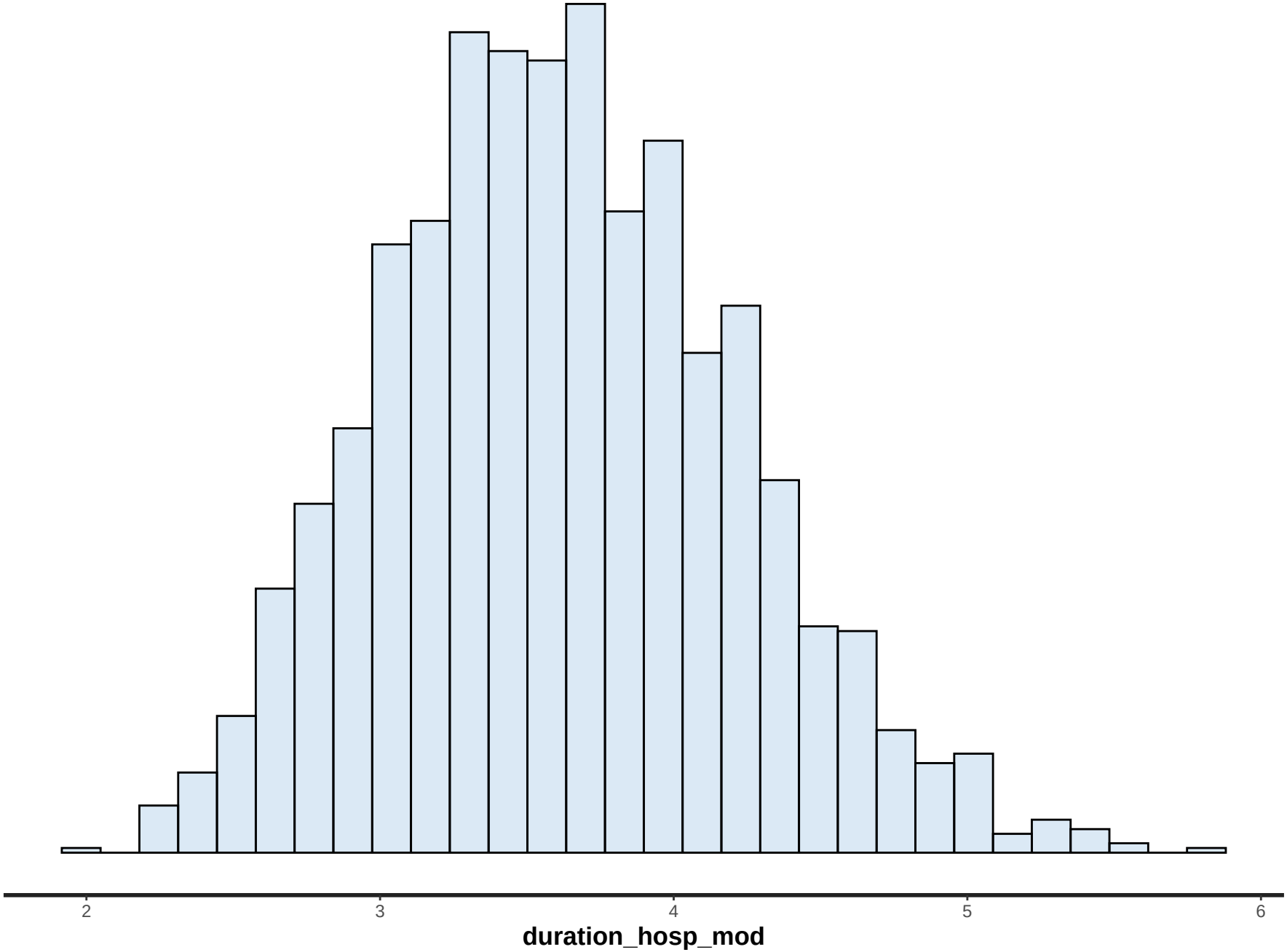


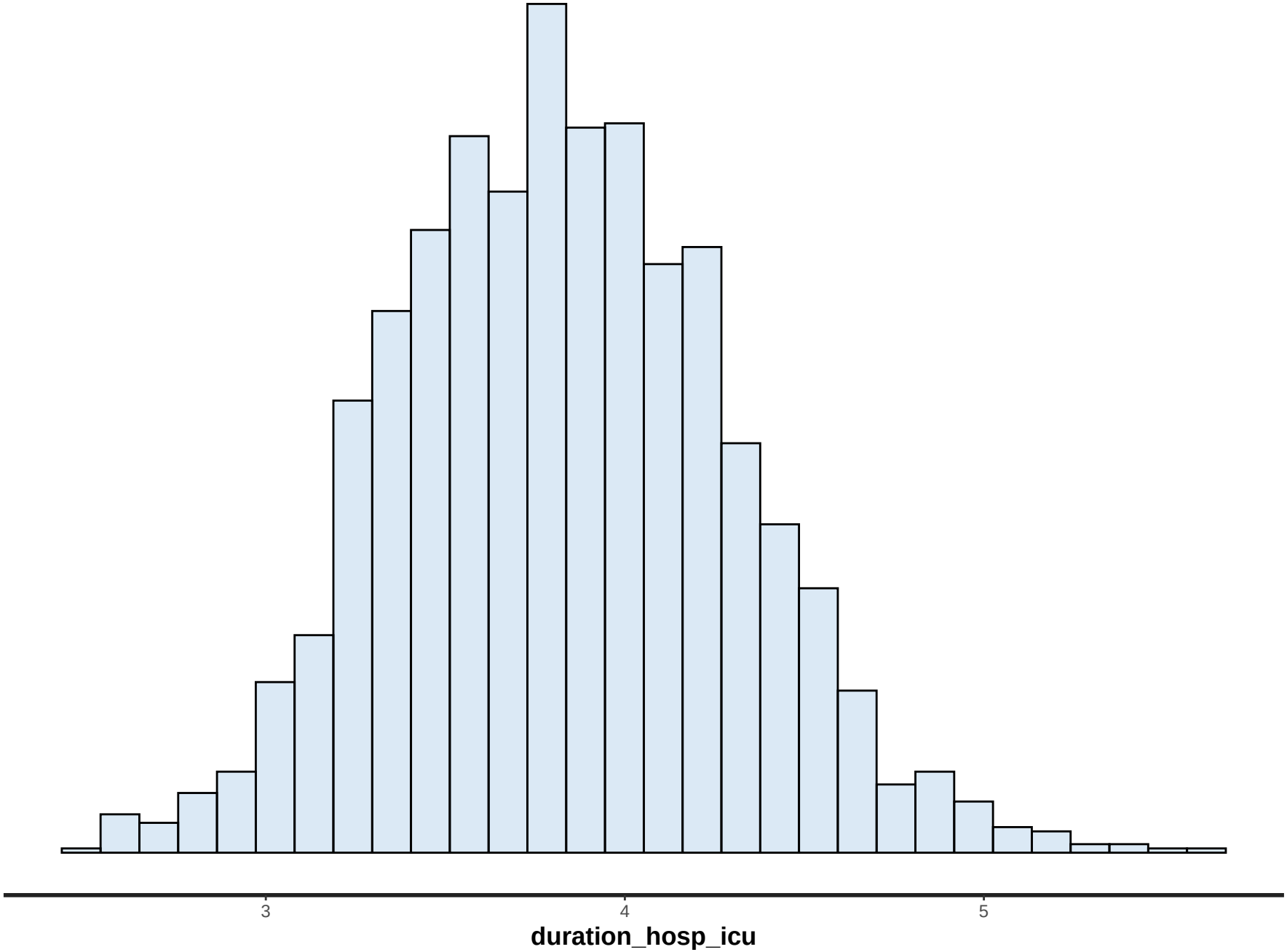

1.5
2.0
2.5
3.0
3.5
r0

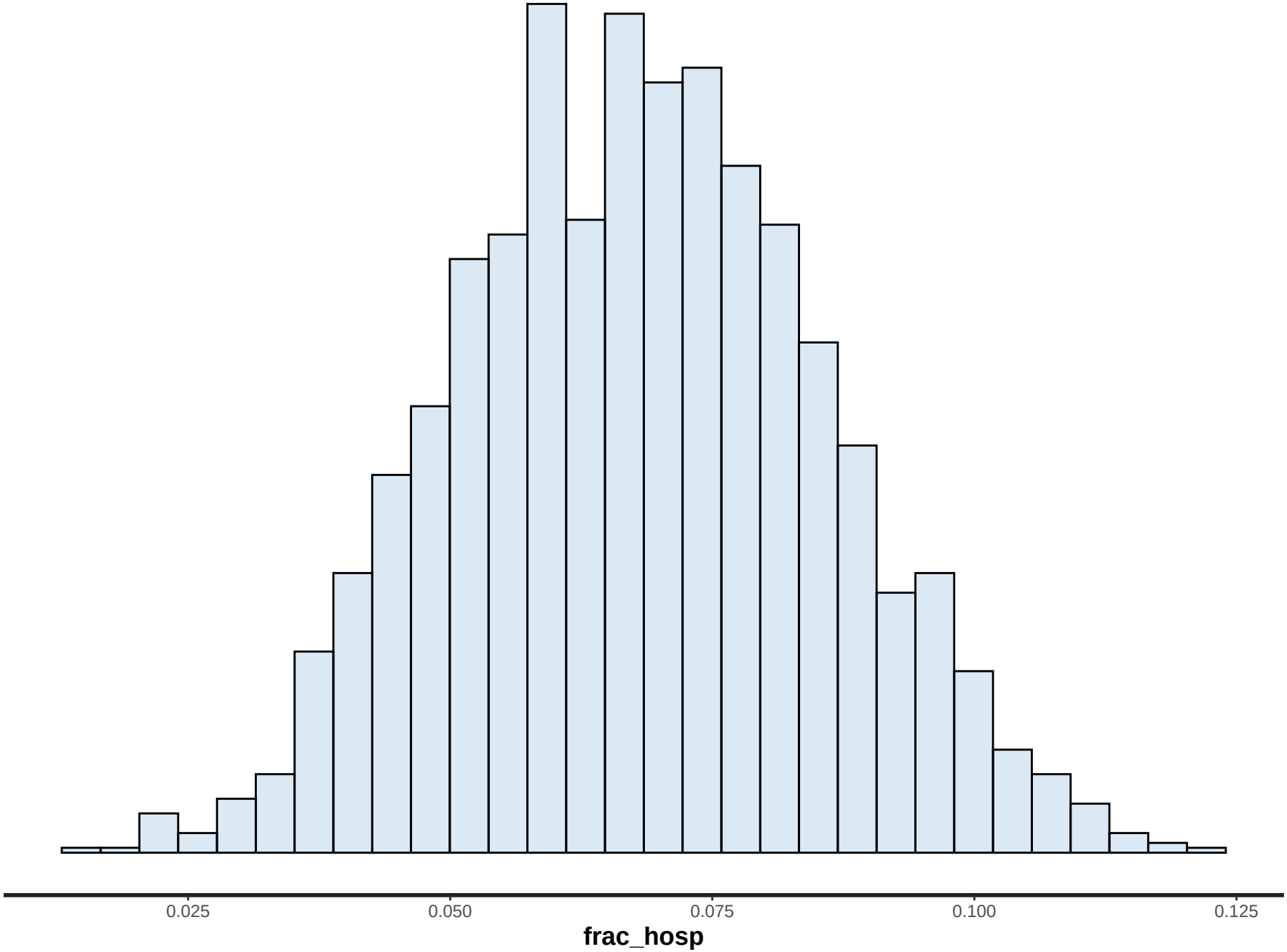

1
2
3
4
duration_latent

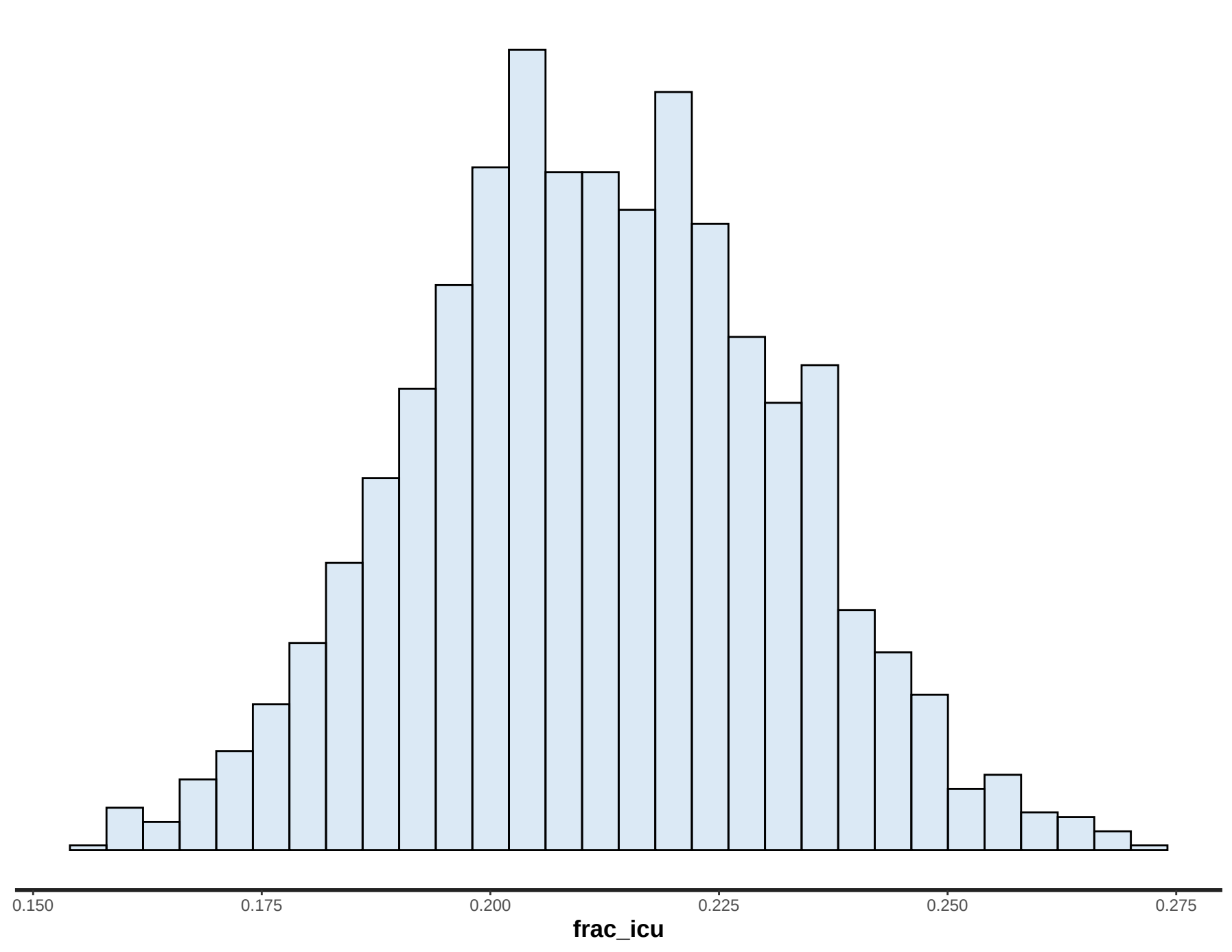

2
4
6
duration_rec_mild

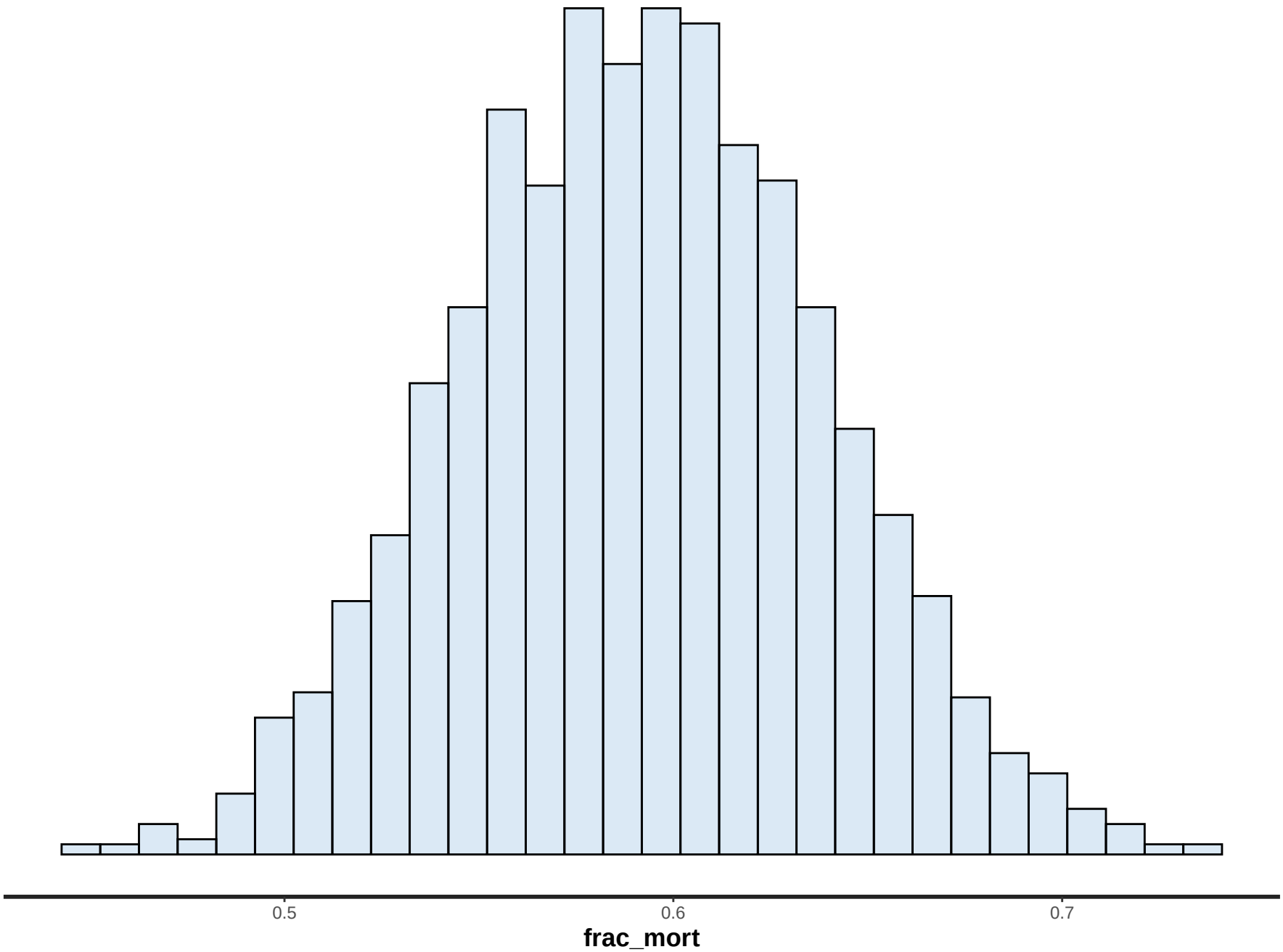

2.5
5.0
7.5
10.0
duration_pre_hosp

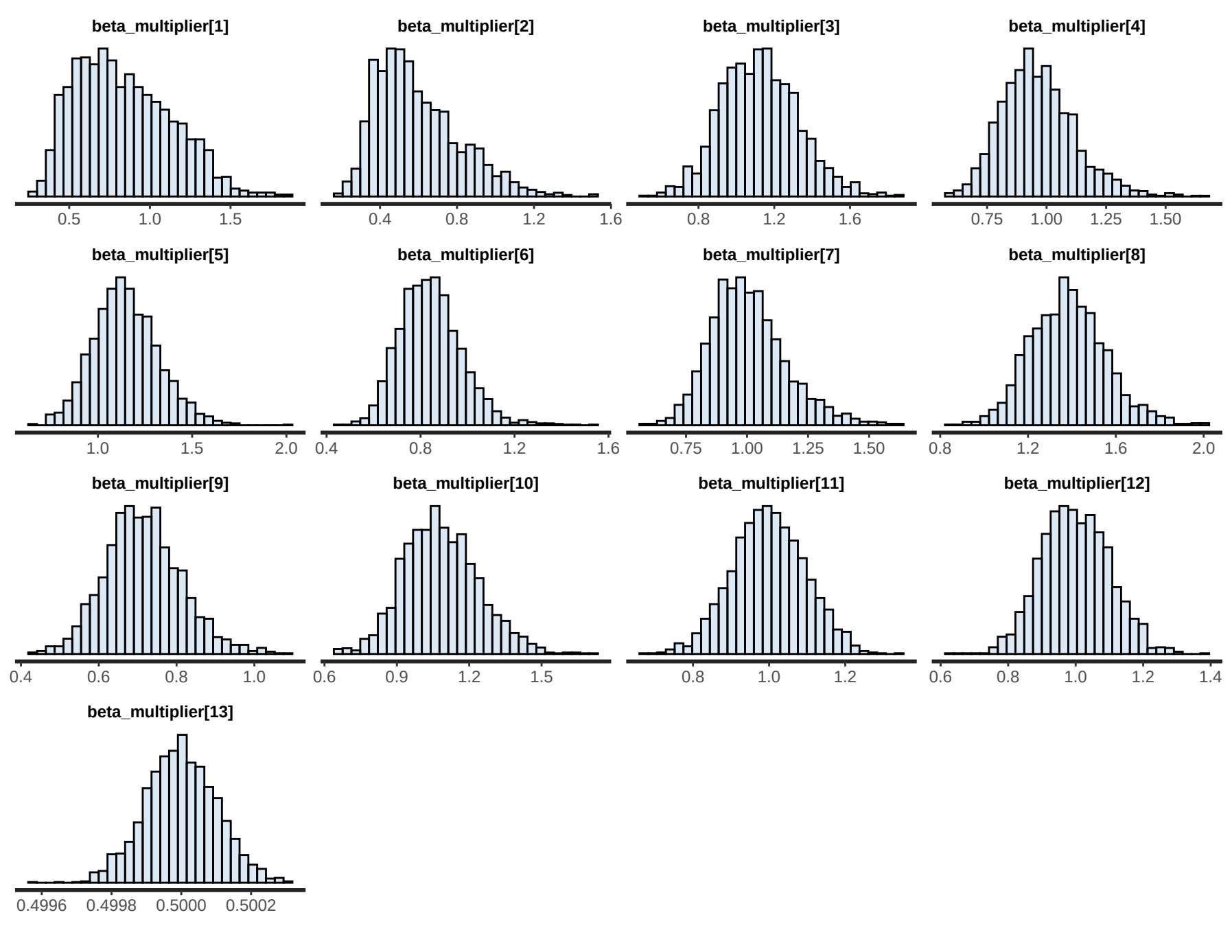

2
3
4
5
6
duration_hosp_mod


3
4
5
duration_hosp_icu


0.025
0.050
0.075
0.100
0.125
frac_hosp


0.150
0.175
0.200
0.225
0.250
0.275
frac_icu


0.5
0.6
0.7
frac_mort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beta_multiplier[2]
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0.8
1.2
1.6
beta_multiplier[3]
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1.2
1.6
beta_multiplier[4]
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1.00
1.25
1.50
beta_multiplier[5]
1.0
1.5
2.0
beta_multiplier[6]
0.4
0.8
1.2
1.6
beta_multiplier[7]
0.75
1.00
1.25
1.50
beta_multiplier[8]
0.8
1.2
1.6
2.0
beta_multiplier[9]
0.4
0.6
0.8
1.0
beta_multiplier[10]
0.6
0.9
1.2
1.5
beta_multiplier[11]
0.8
1.0
1.2
beta_multiplier[12]
0.6
0.8
1.0
1.2
1.4
beta_multiplier[13]
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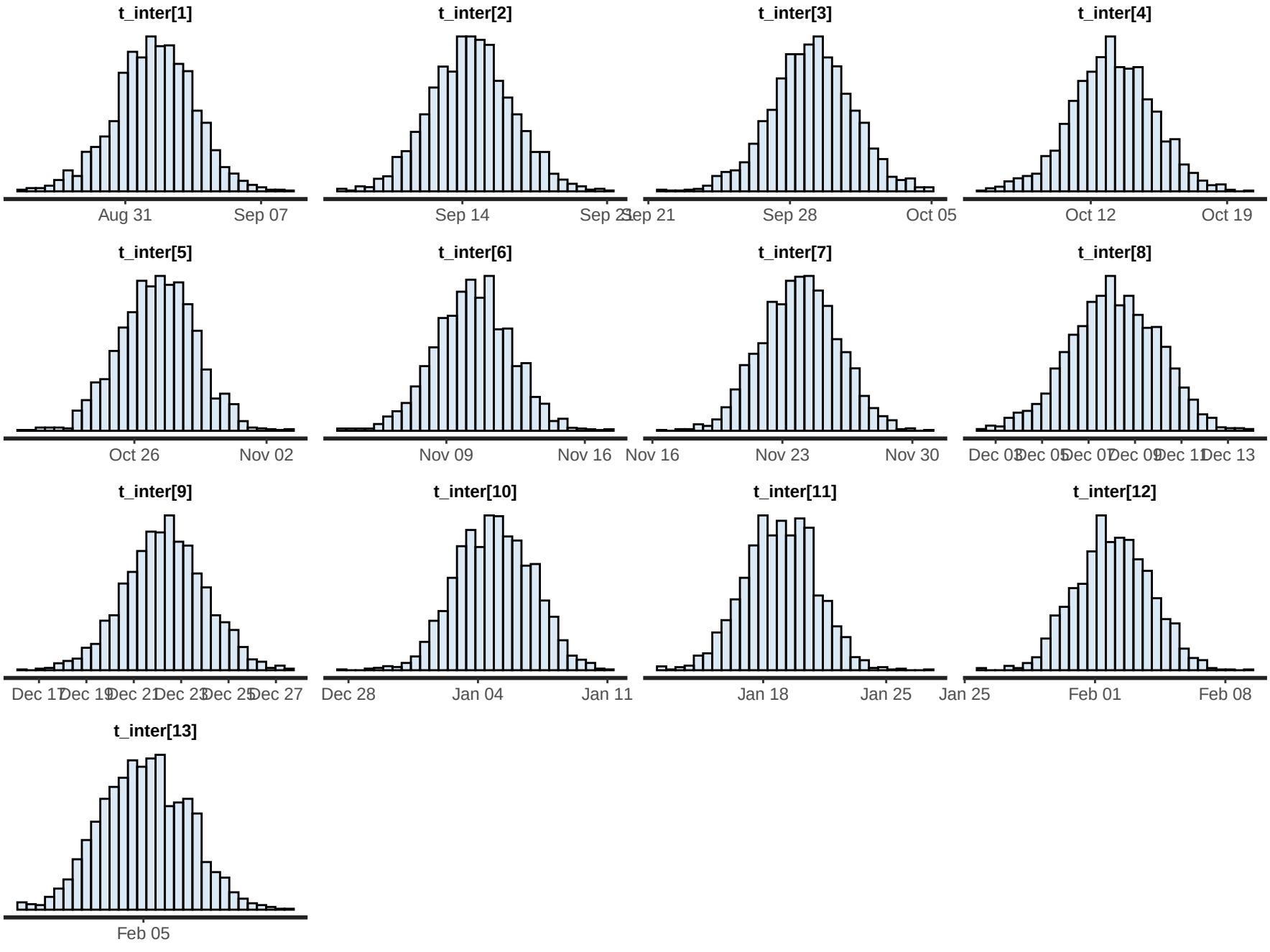
0.4998
0.5000
0.5002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Sep 07
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Sep 14
Sep 21
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Sep 28
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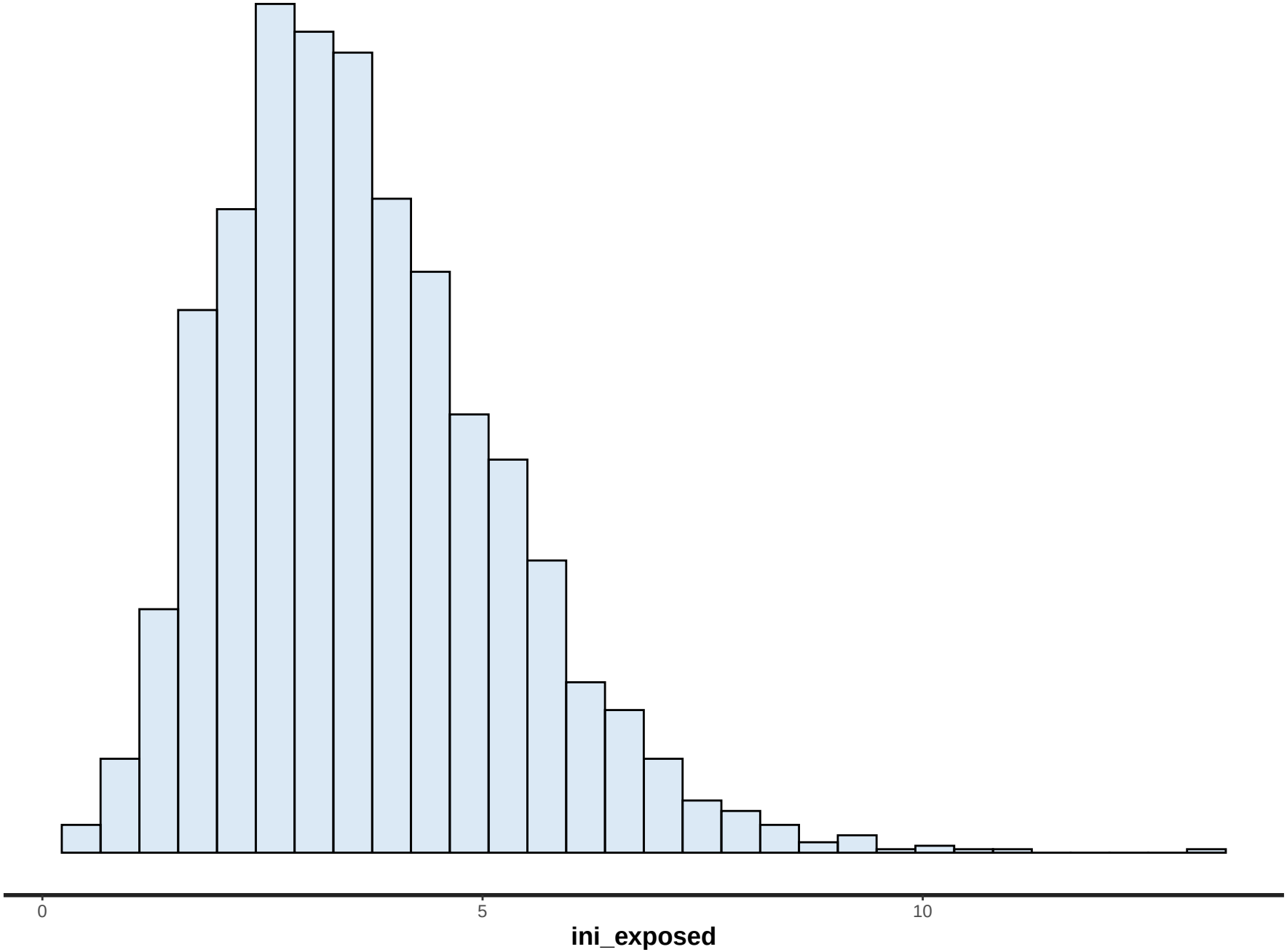
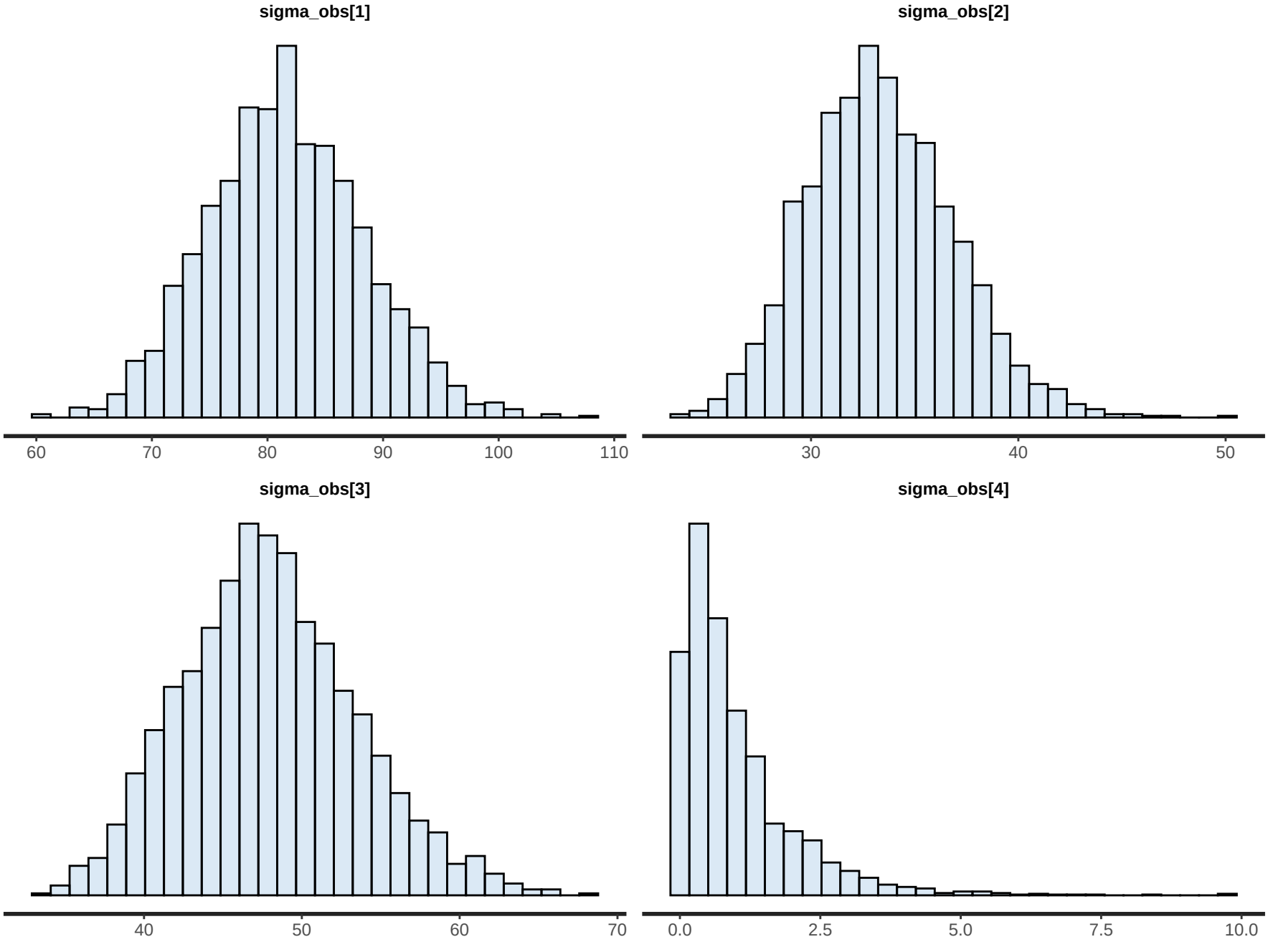
Oct 12
Oct 19
t_inter[5]
Oct 26
Nov 02
t_inter[6]
Nov 09
Nov 16
t_inter[7]
Nov 16
Nov 23
Nov 30
t_inter[8]
Dec 03
Dec 05
Dec 07
Dec 09
Dec 11
Dec 13
t_inter[9]
Dec 17
Dec 19
Dec 21
Dec 23
Dec 25
Dec 27
t_inter[10]
Dec 28
Jan 04
Jan 11
t_inter[11]
Jan 18
Jan 25
t_inter[12]
Jan 25
Feb 01
Feb 08
t_inter[13]
Feb 05


0
5
10
ini_exposed


sigma_obs[1]
60
70
80
90
100
110
sigma_obs[2]
30
40
50
sigma_obs[3]
40
50
60
70
sigma_obs[4]
0.0
2.5
5.0
7.5
10.0