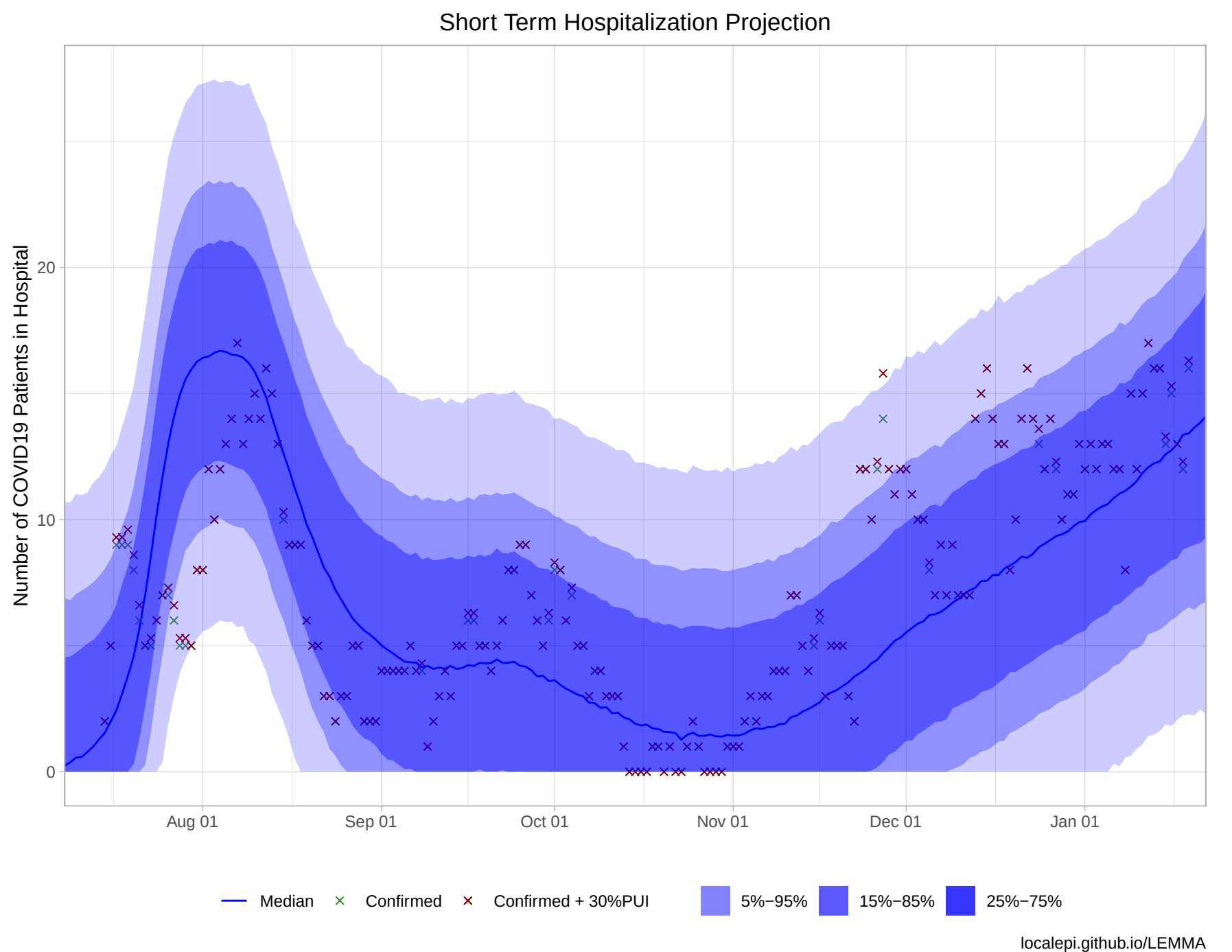
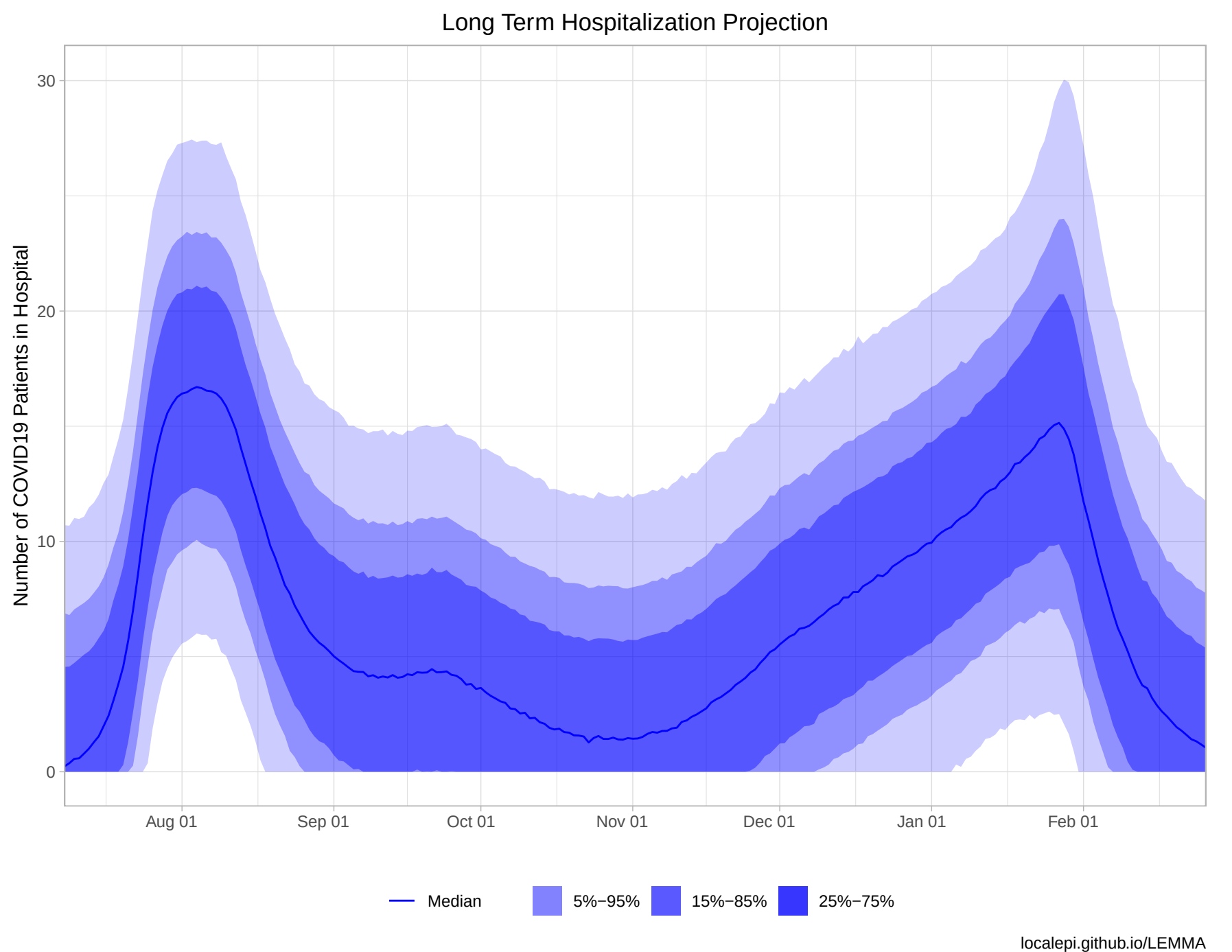
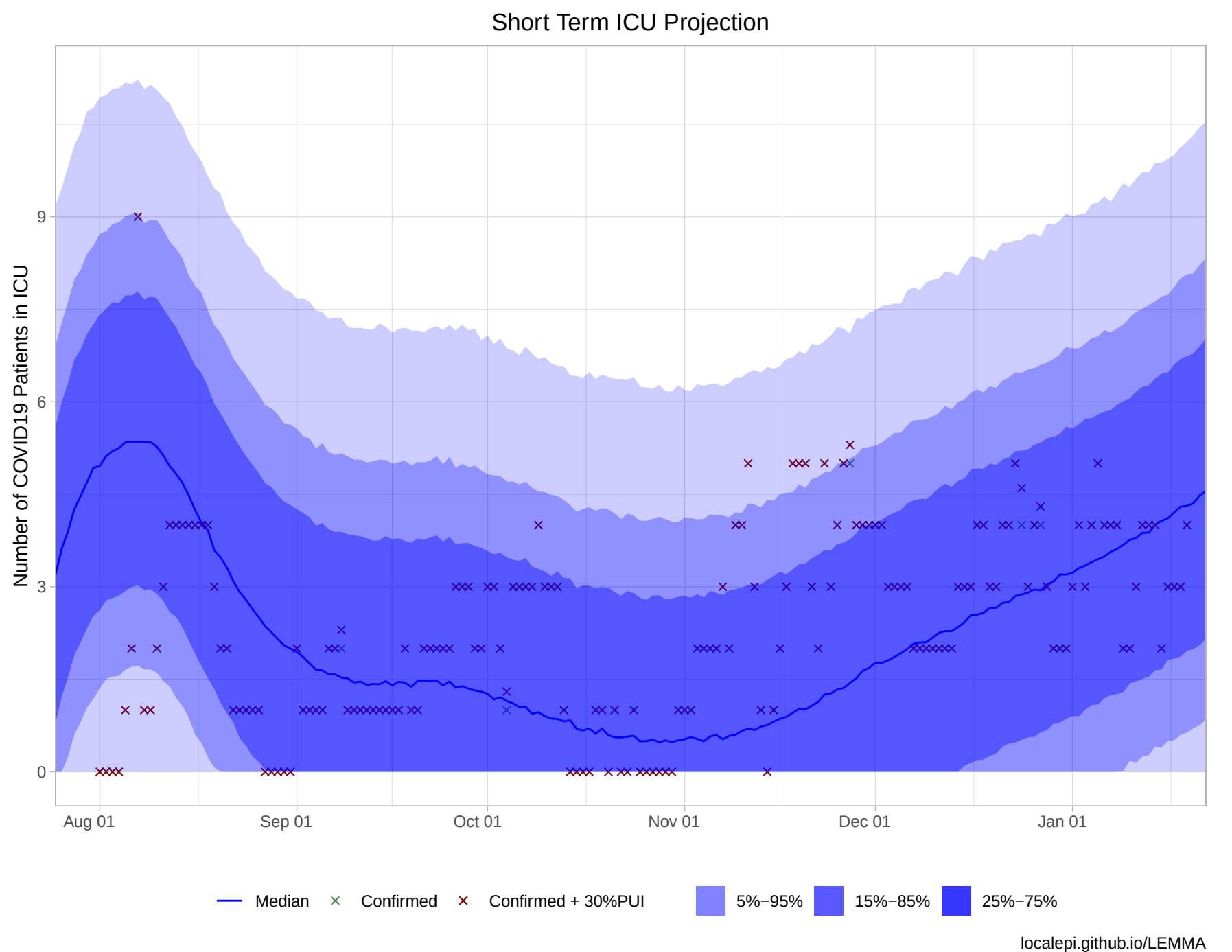
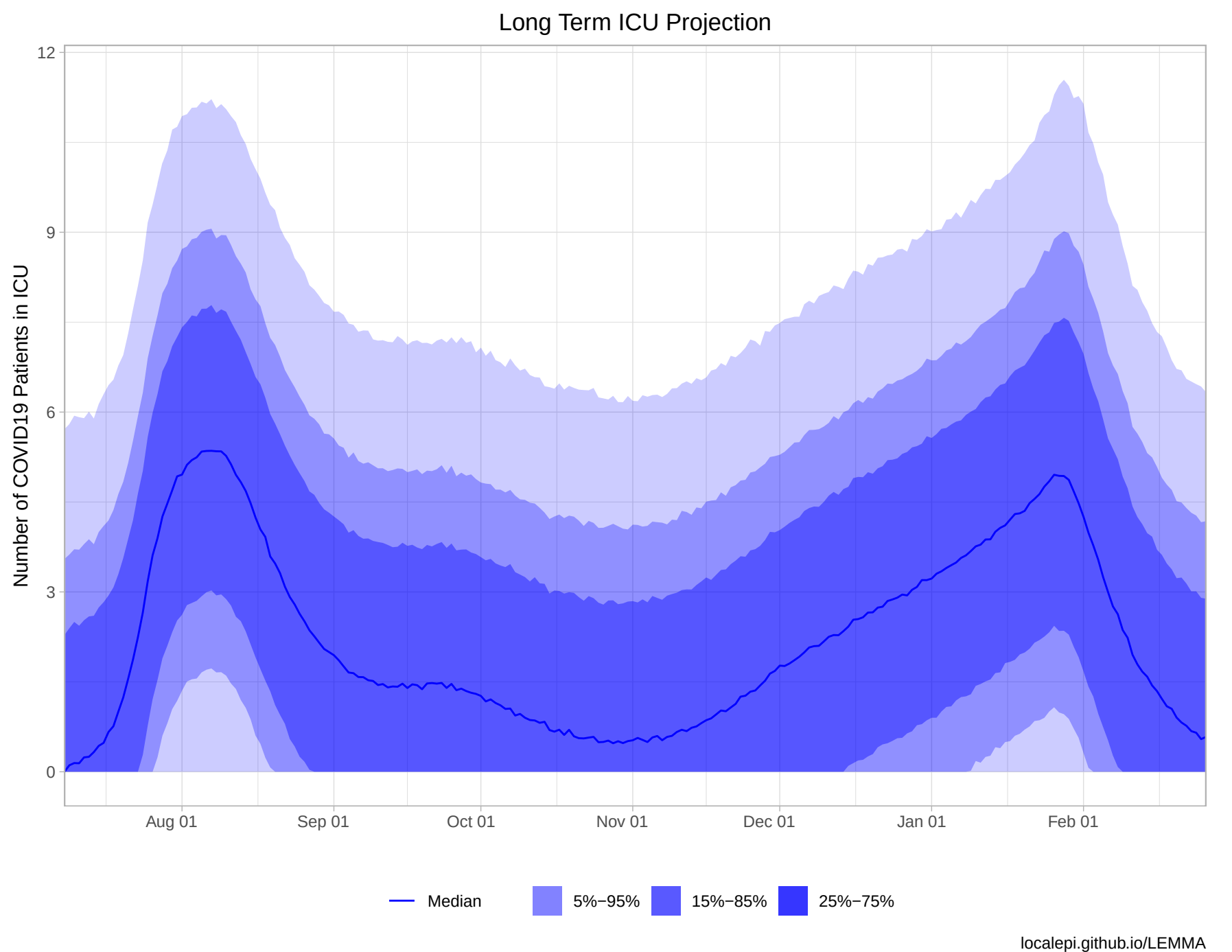
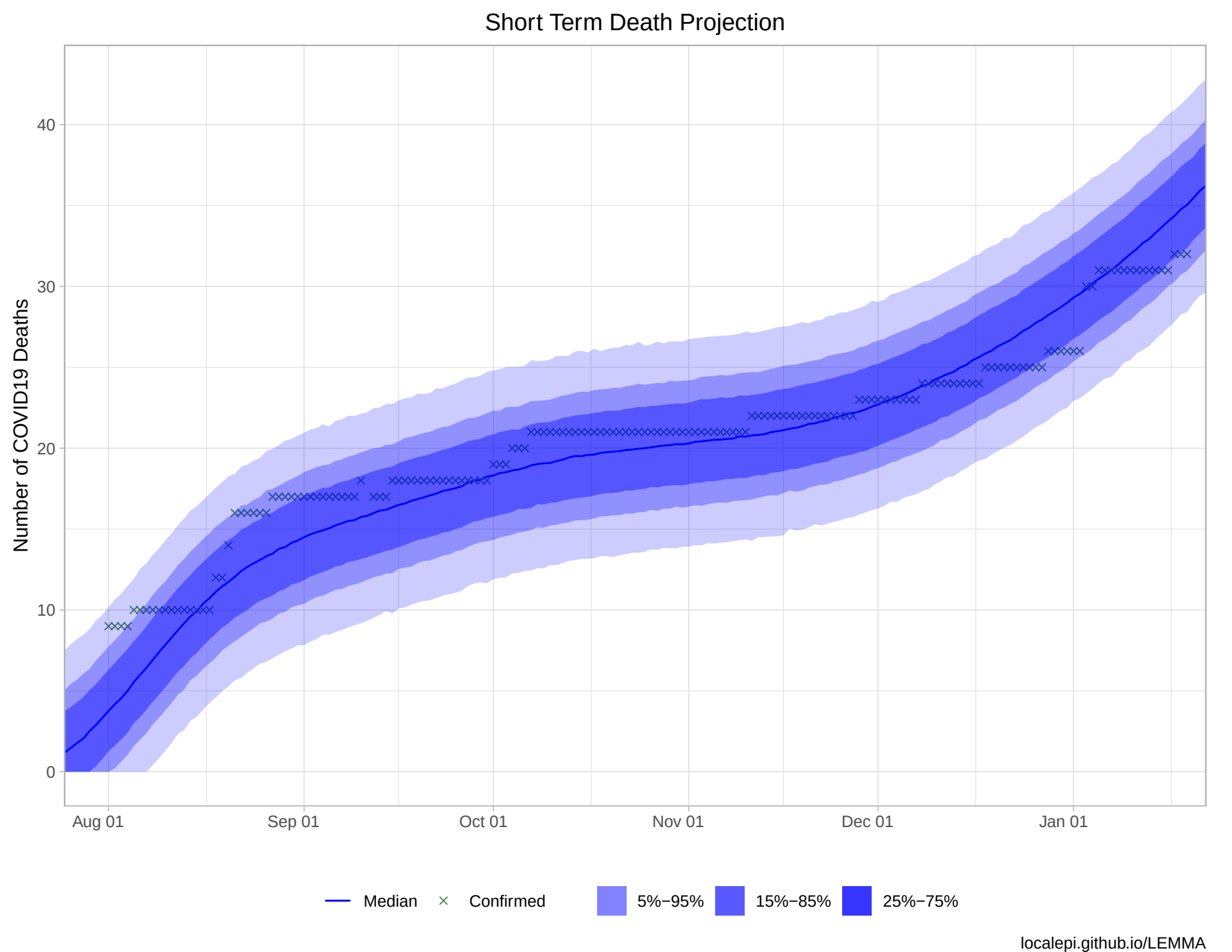
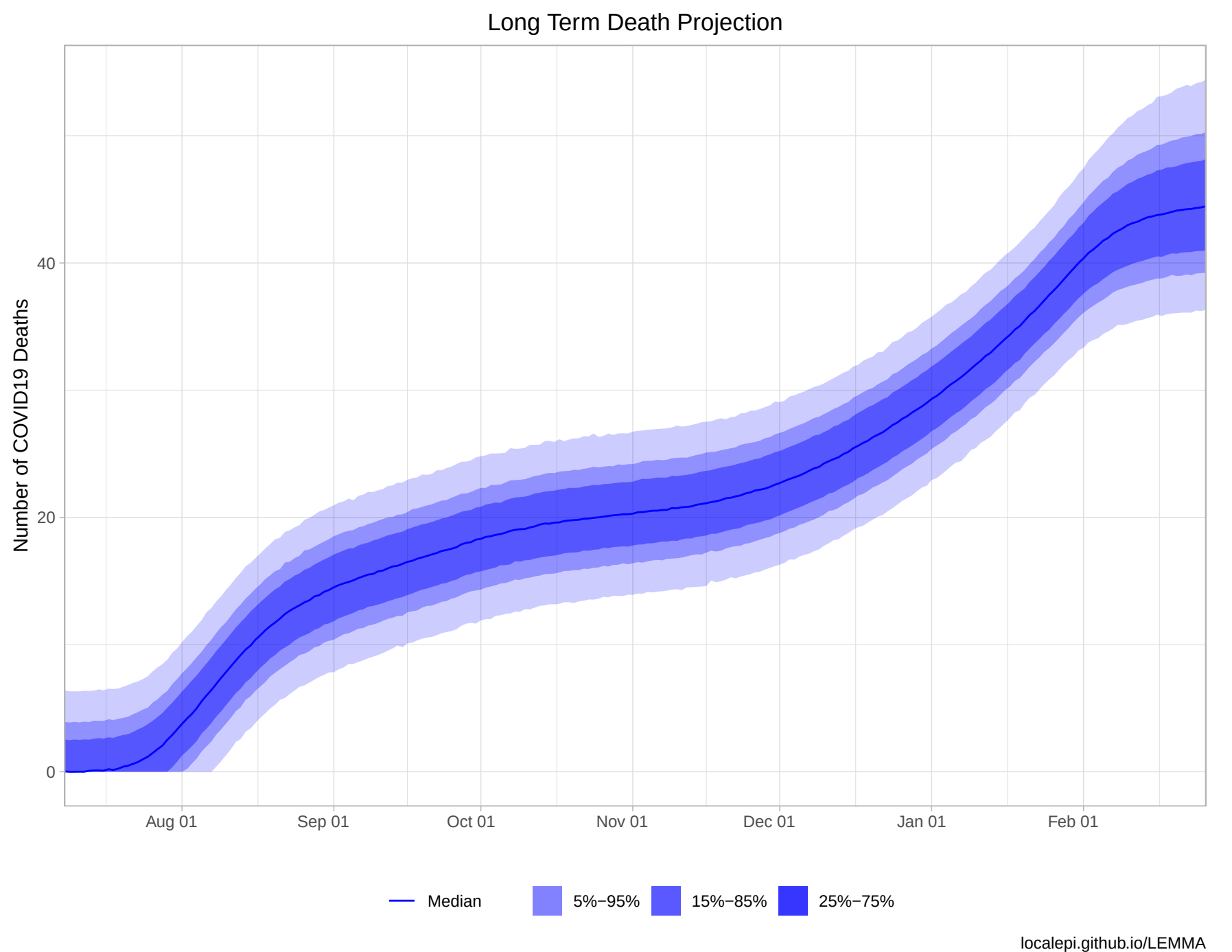

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
10
20
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

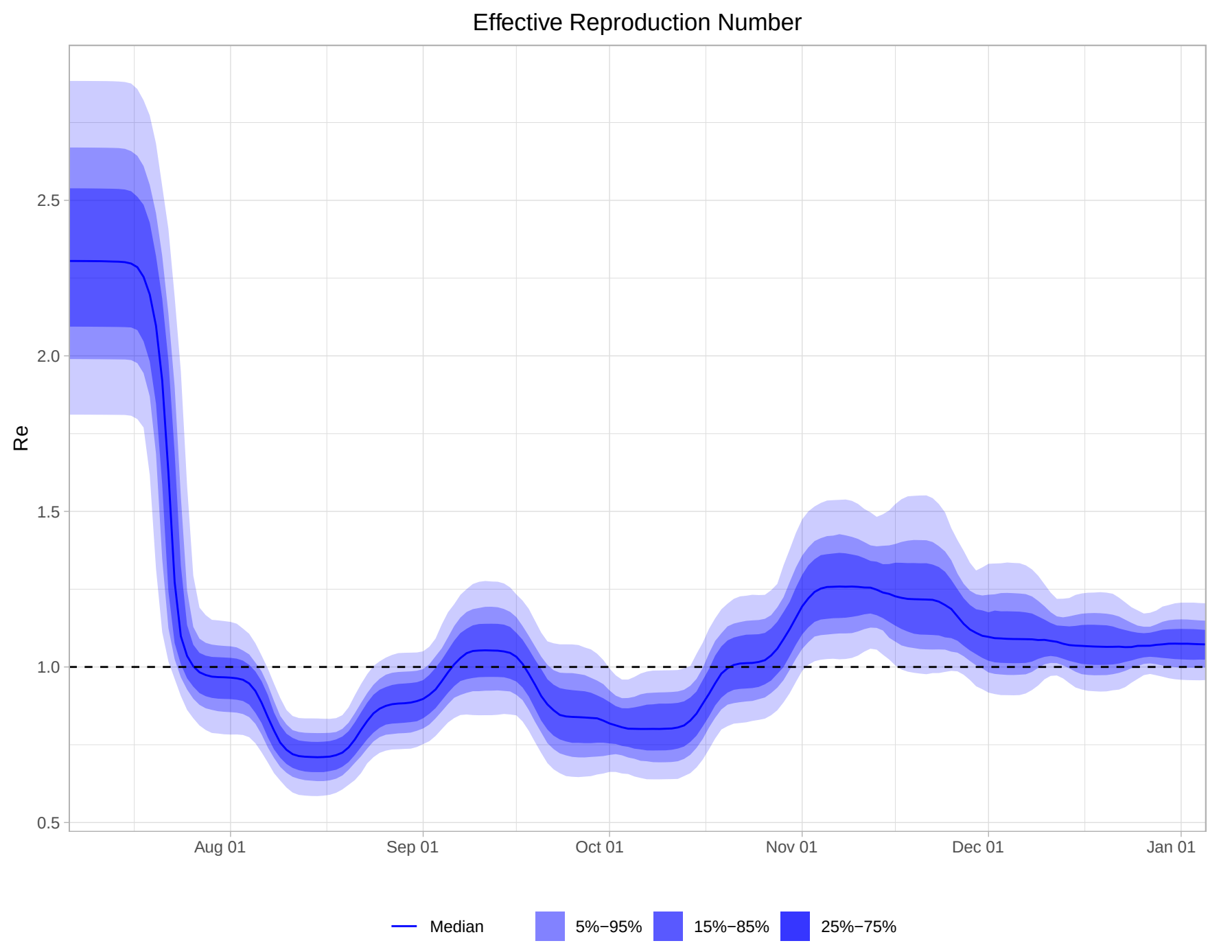

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
30
20
10
0
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


Short Term ICU Projection
Number of COVID19 Patients in ICU
0
3
6
9
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 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
12
9
6
3
0
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

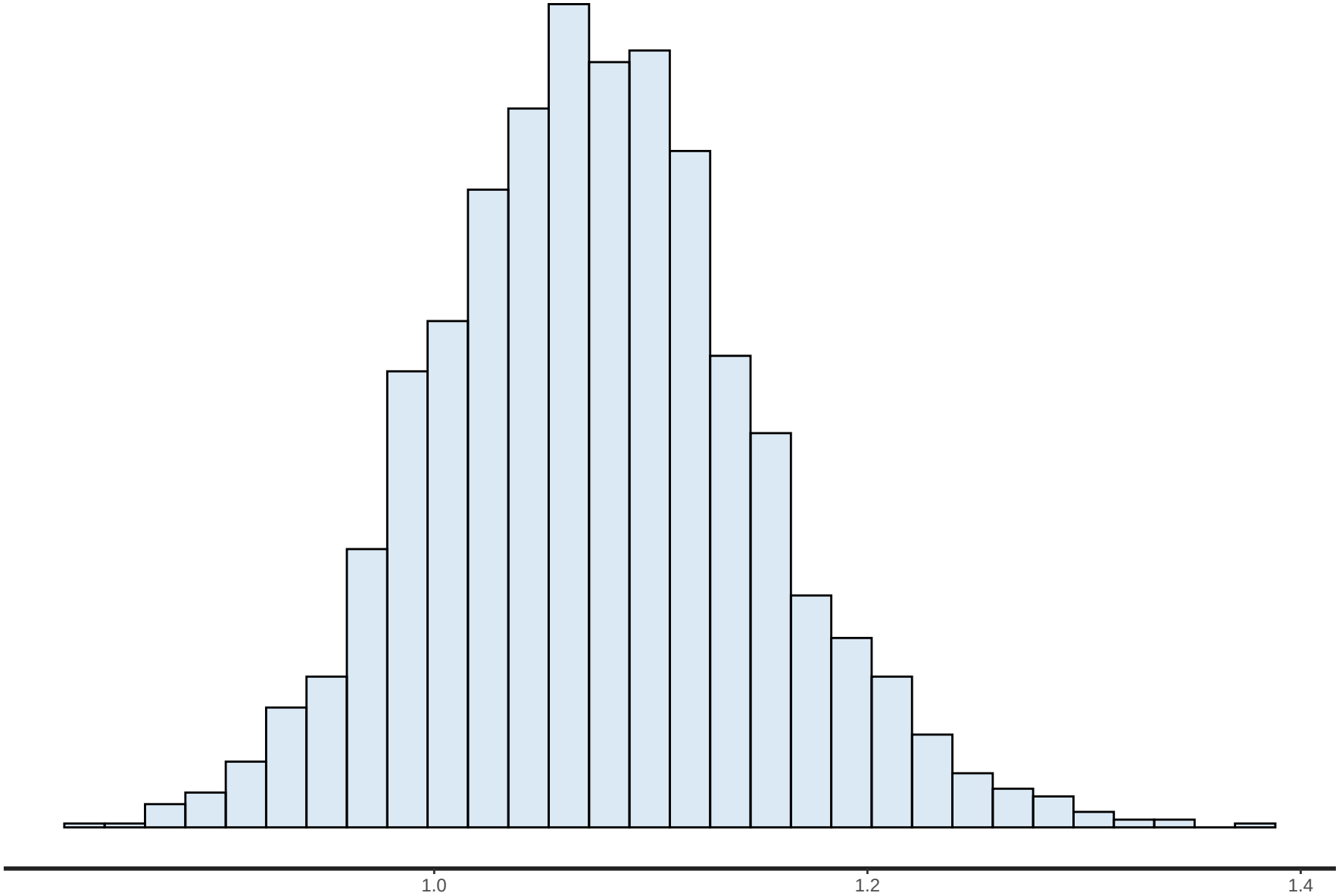

Short Term Death Projection
Number of COVID19 Deaths
0
10
20
30
40
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

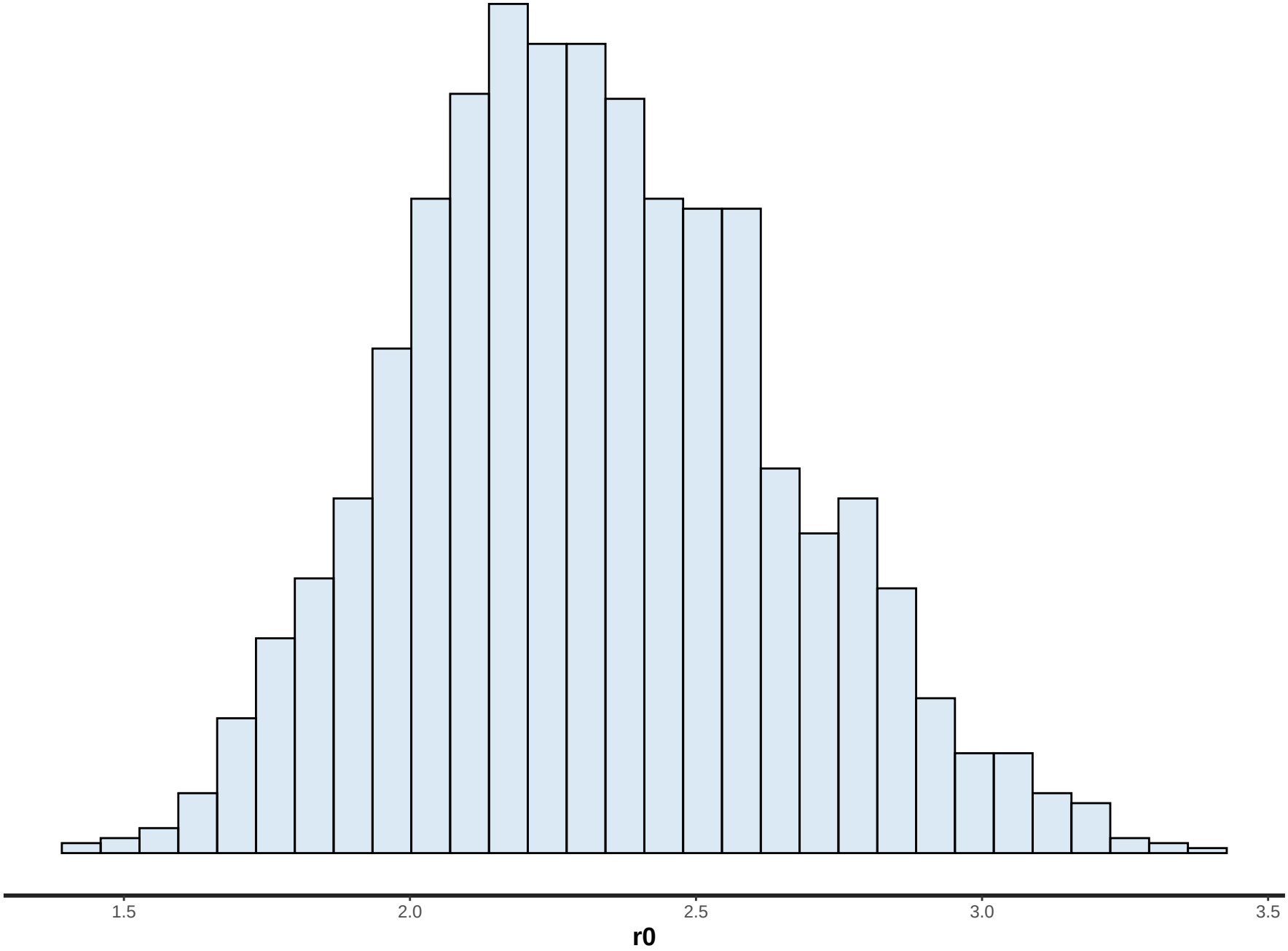

Long Term Death Projection
Number of COVID19 Deaths
0
20
40
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

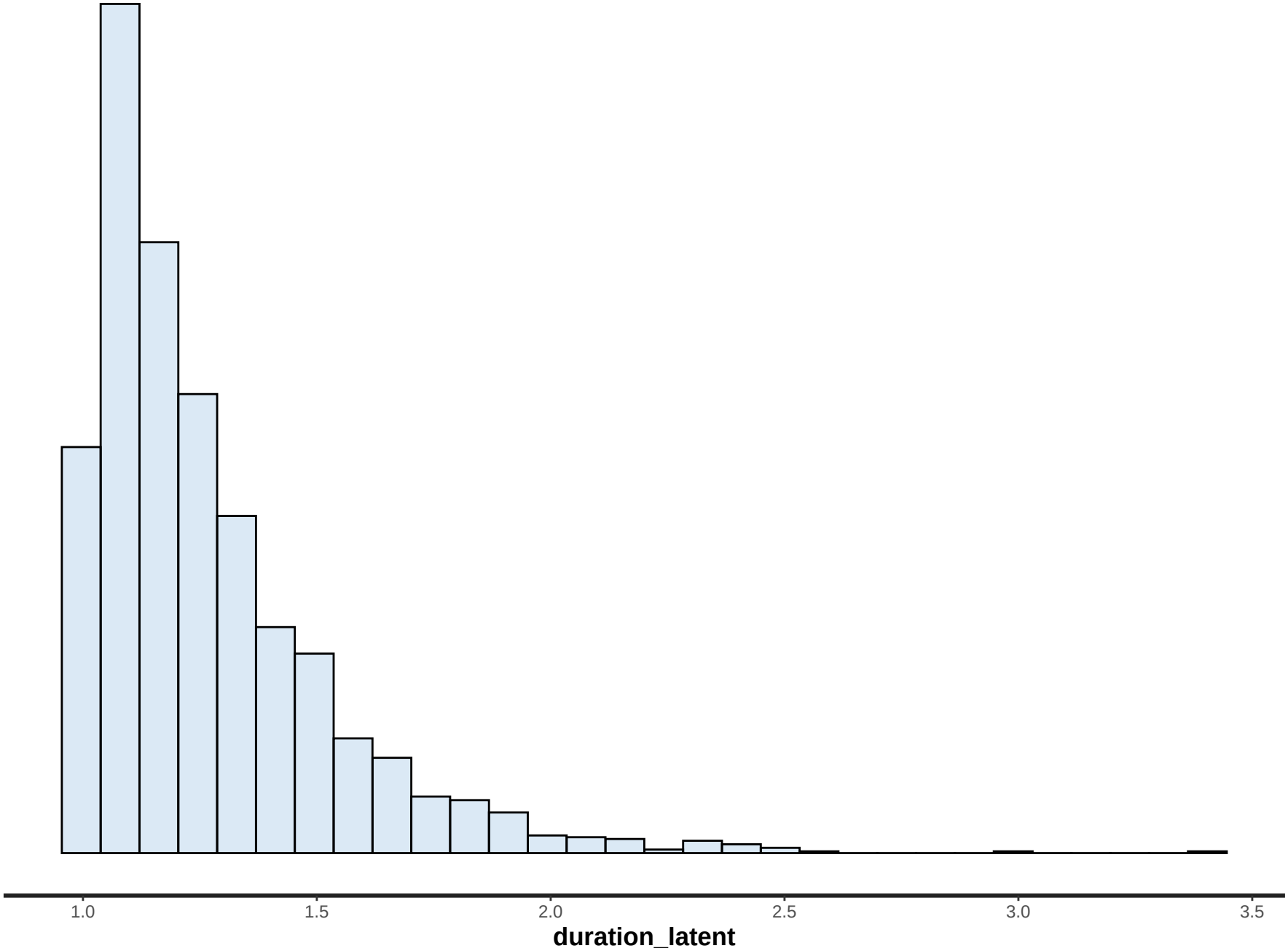

Effective Reproduction Number
Re
2.5
2.0
1.5
1.0
0.5
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Median
5%−95%
15%−85%
25%−75%

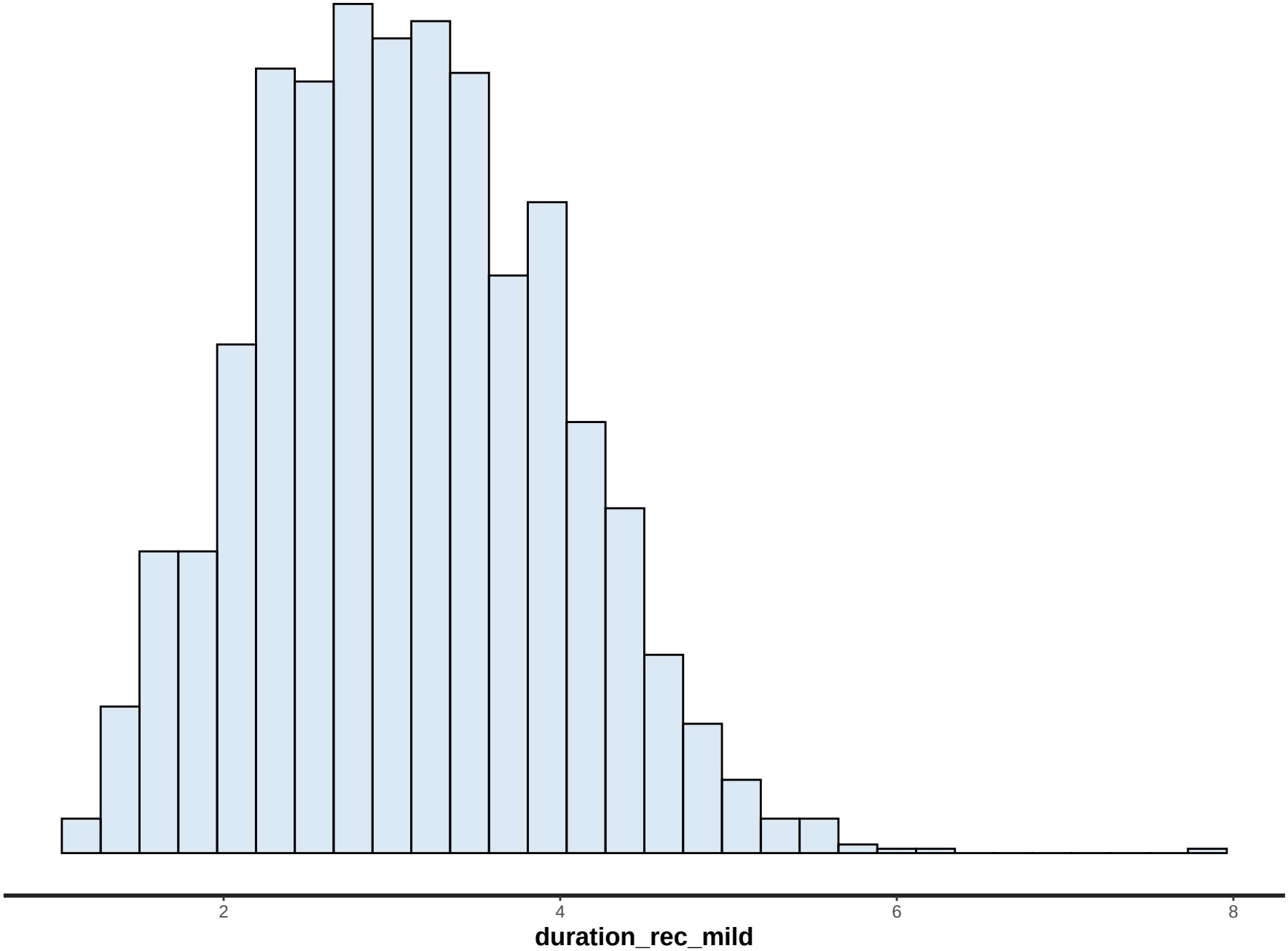
Rt as of 2021−01−05

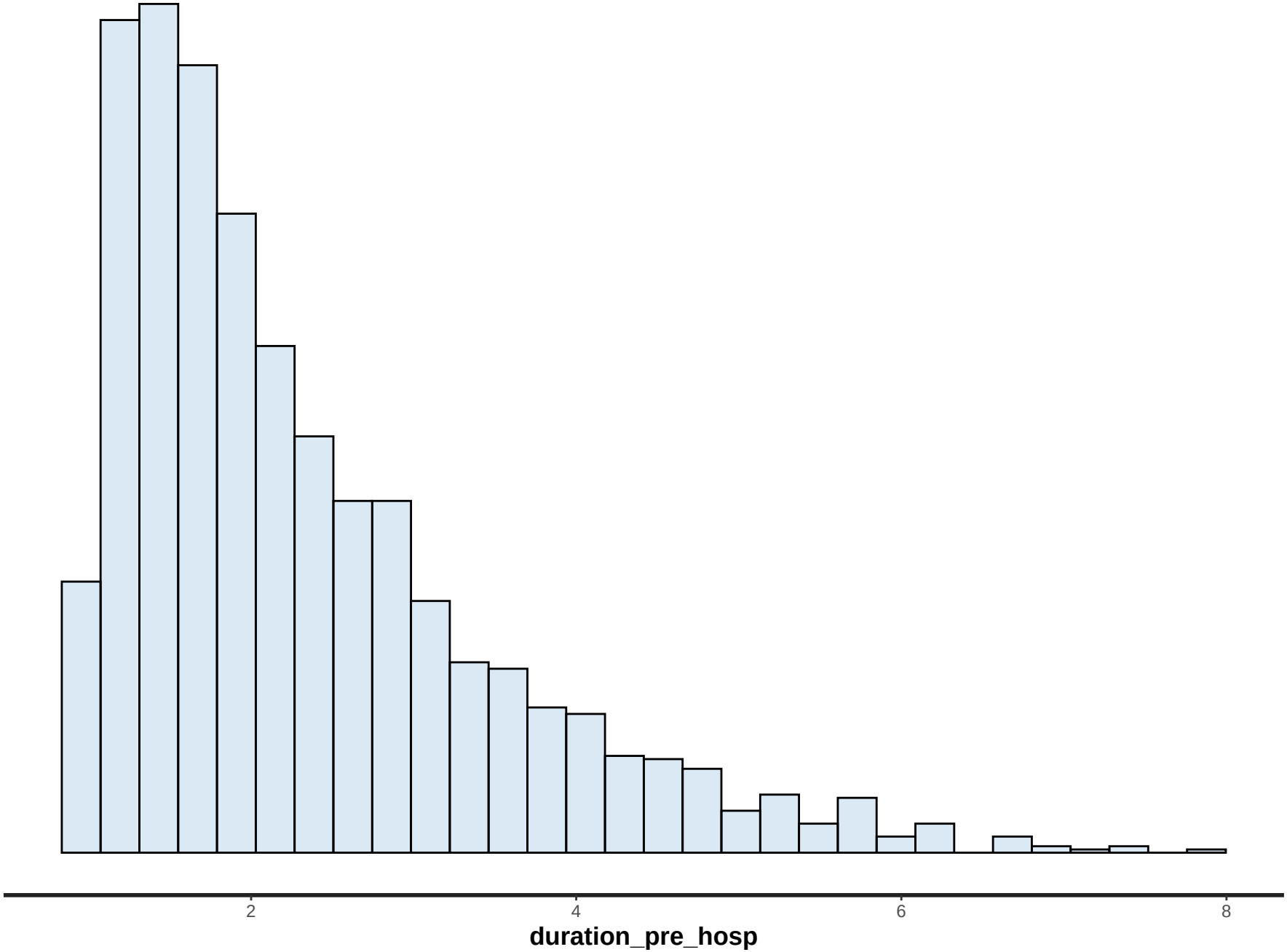
5%	10%	25%	50%	75%	90%	95%
0.96	0.98	1.02	1.07	1.12	1.17	1.20

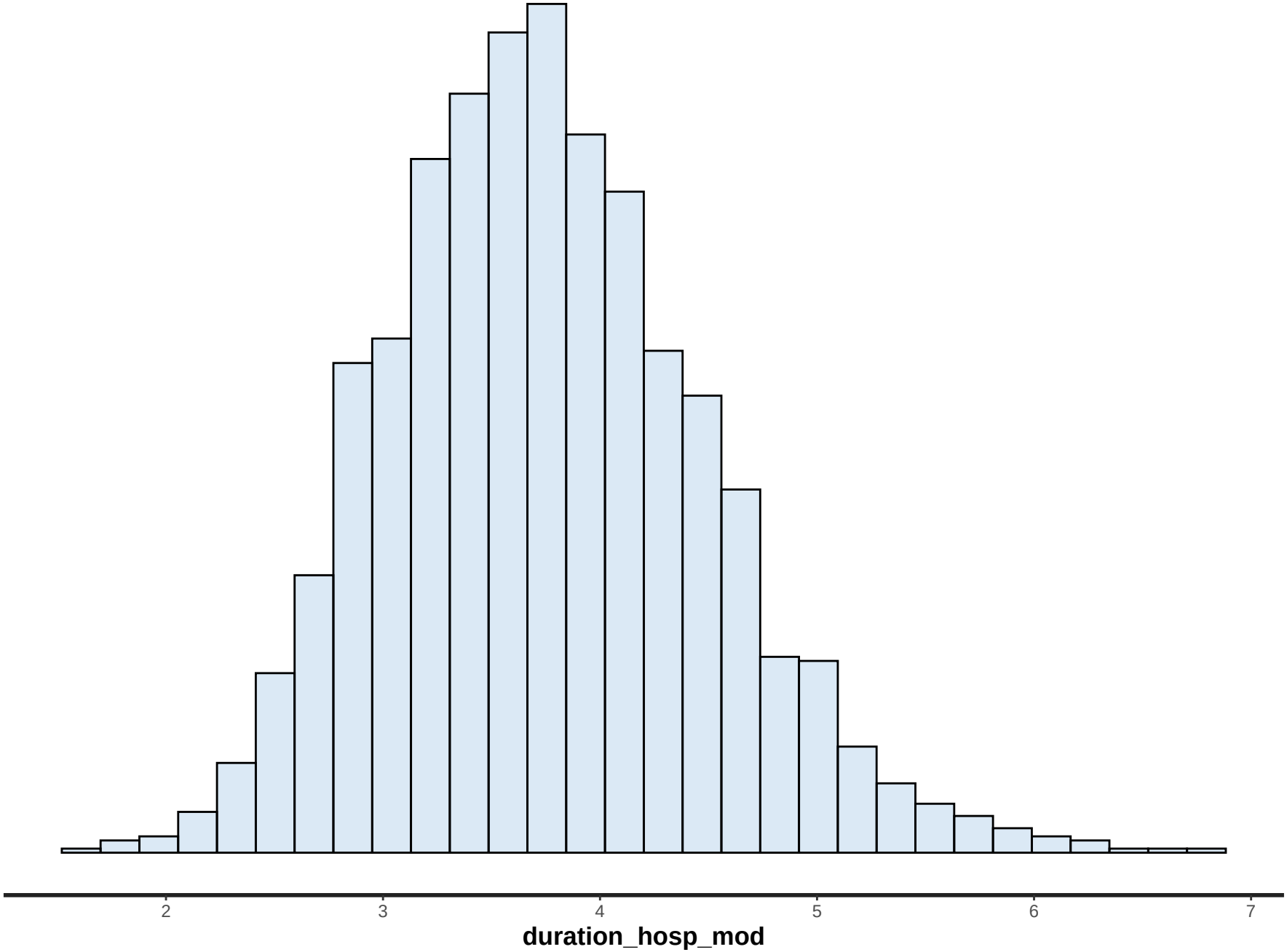


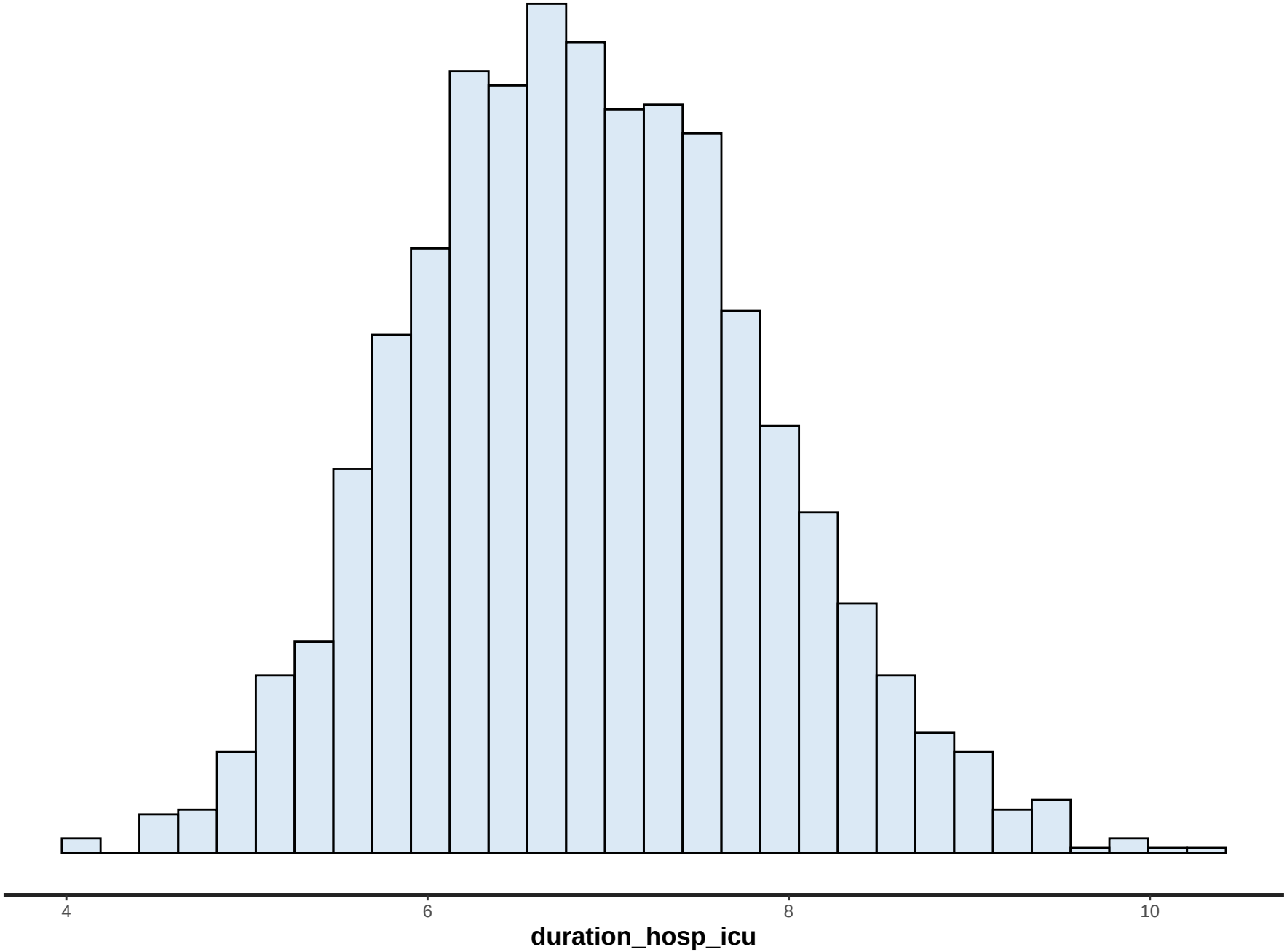

1.5
2.0
2.5
3.0
3.5
r0

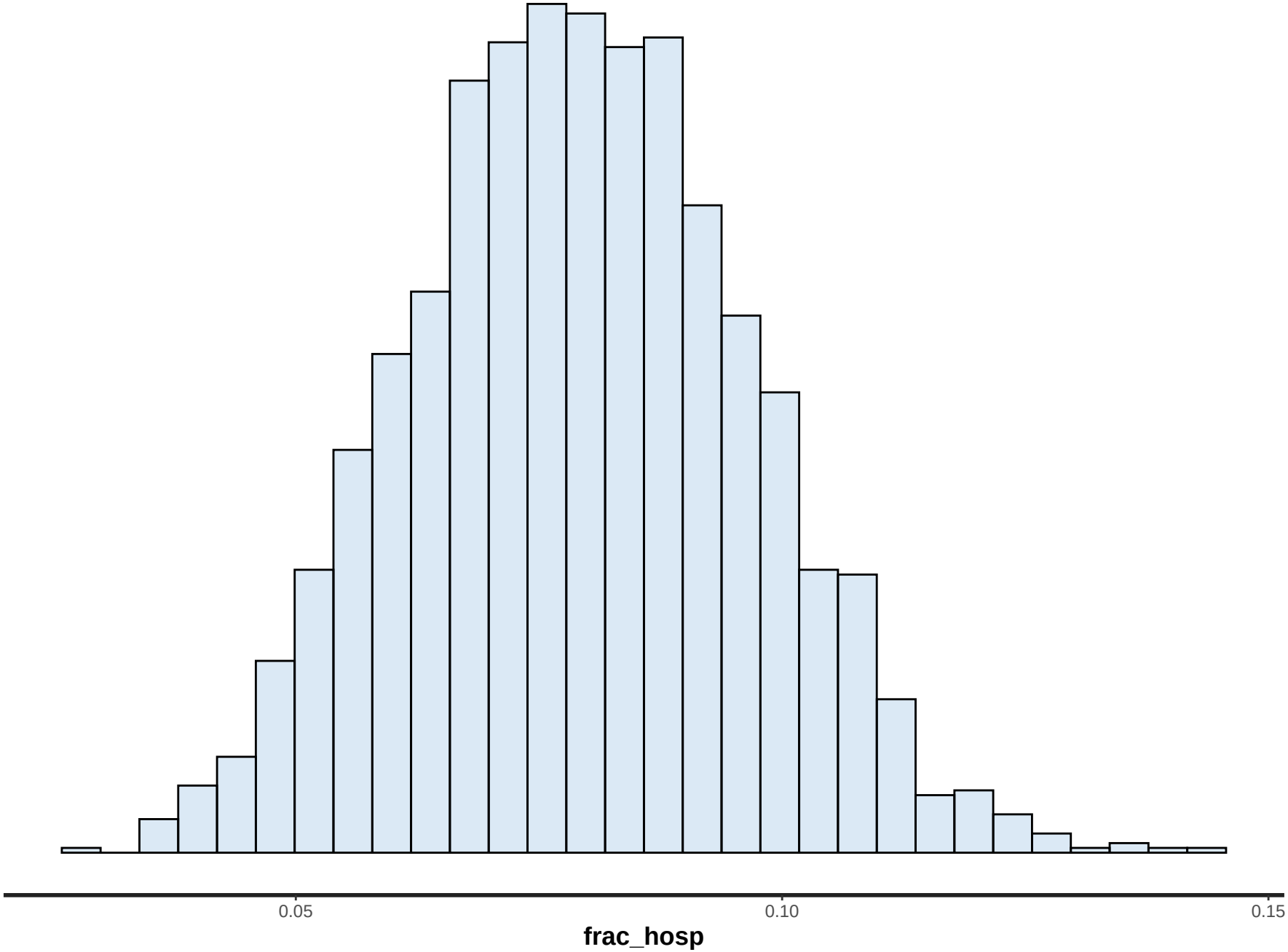

1.0
1.5
2.0
2.5
3.0
3.5
duration_latent


2
4
6
8
duration_rec_mild


2
4
6
8
duration_pre_hosp


2
3
4
5
6
7
duration_hosp_mod


4
6
8
10
duration_hosp_icu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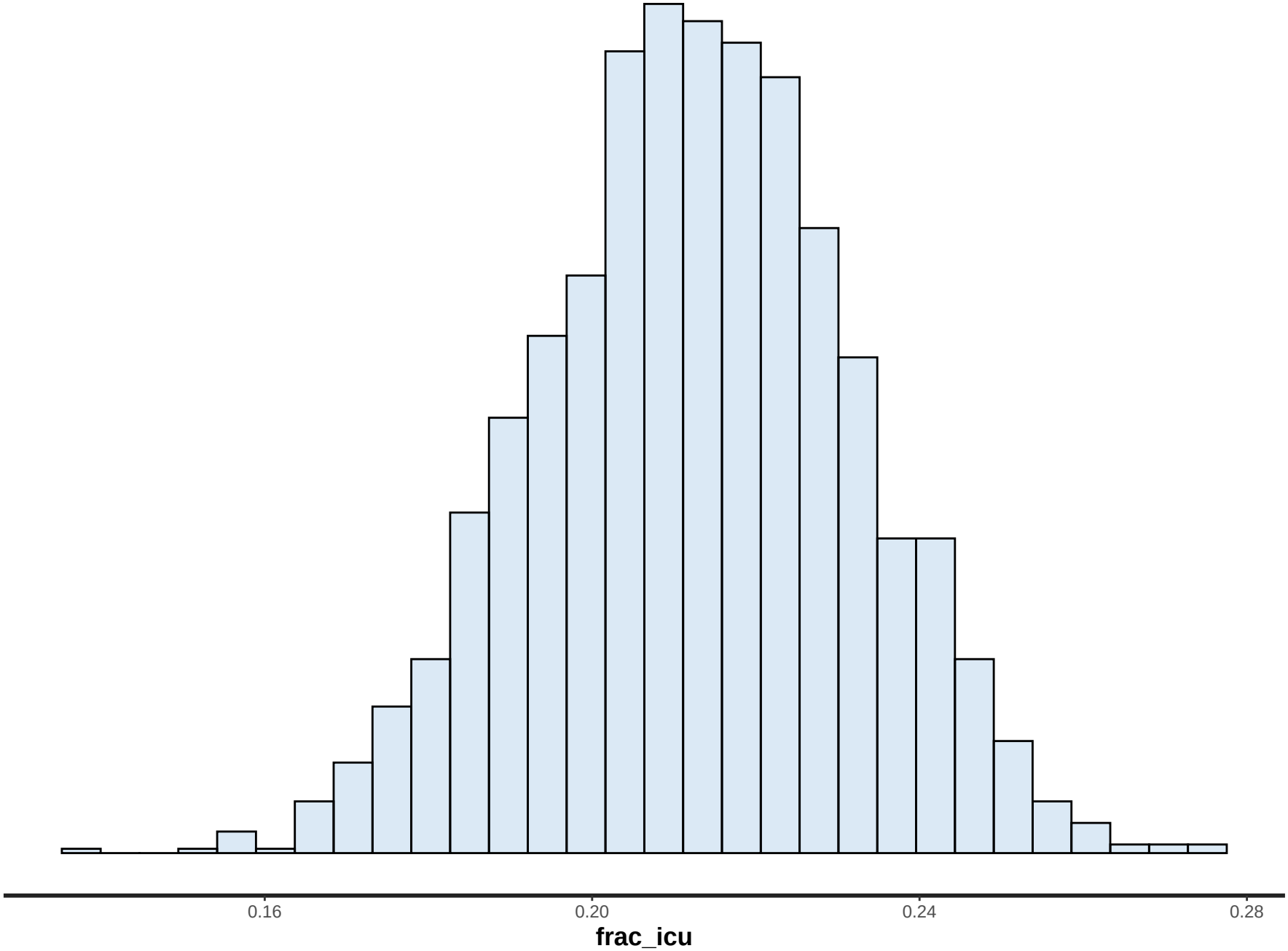
0.10
0.15
frac_hosp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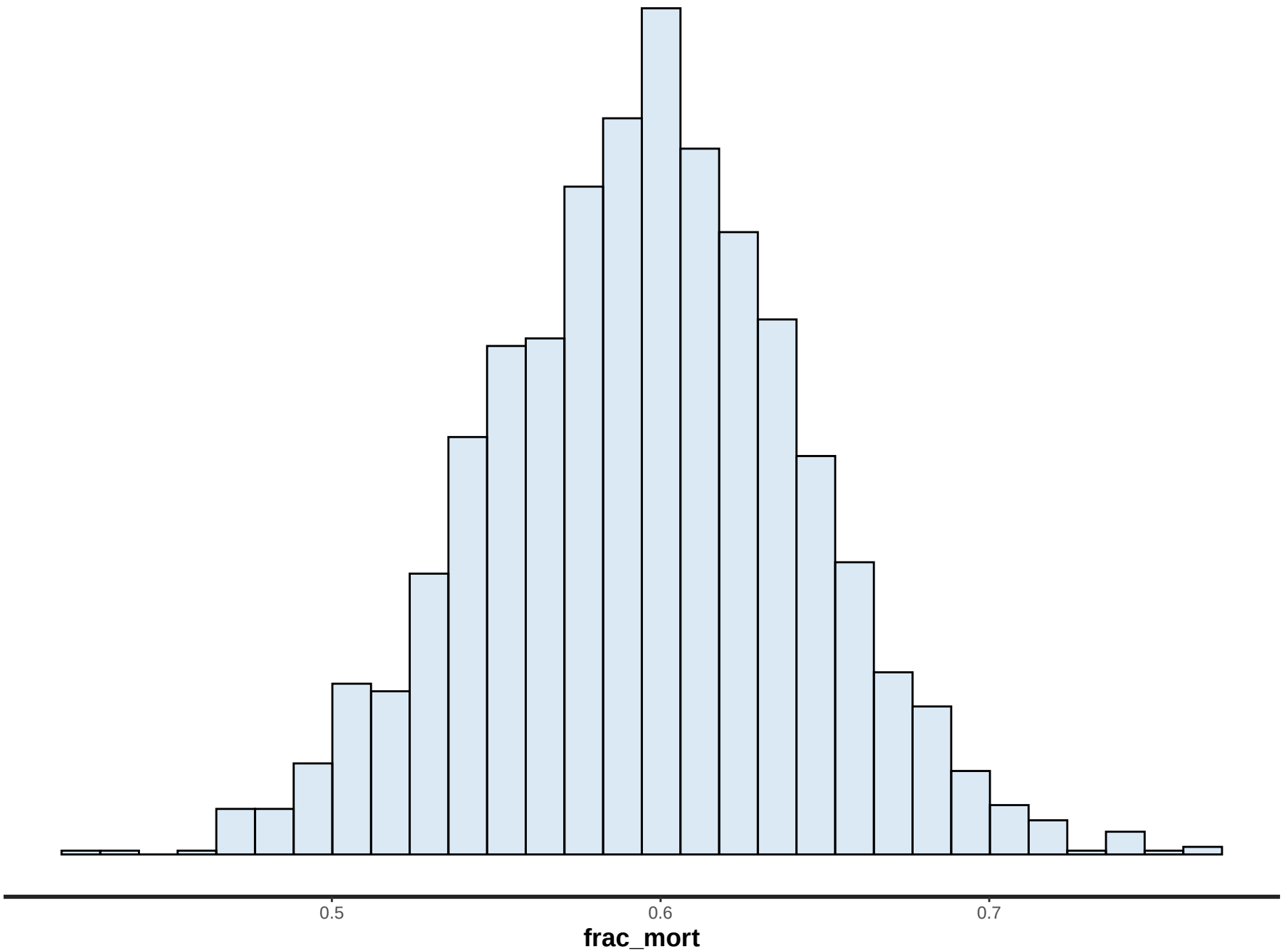
0.20
0.24
0.28
frac_icu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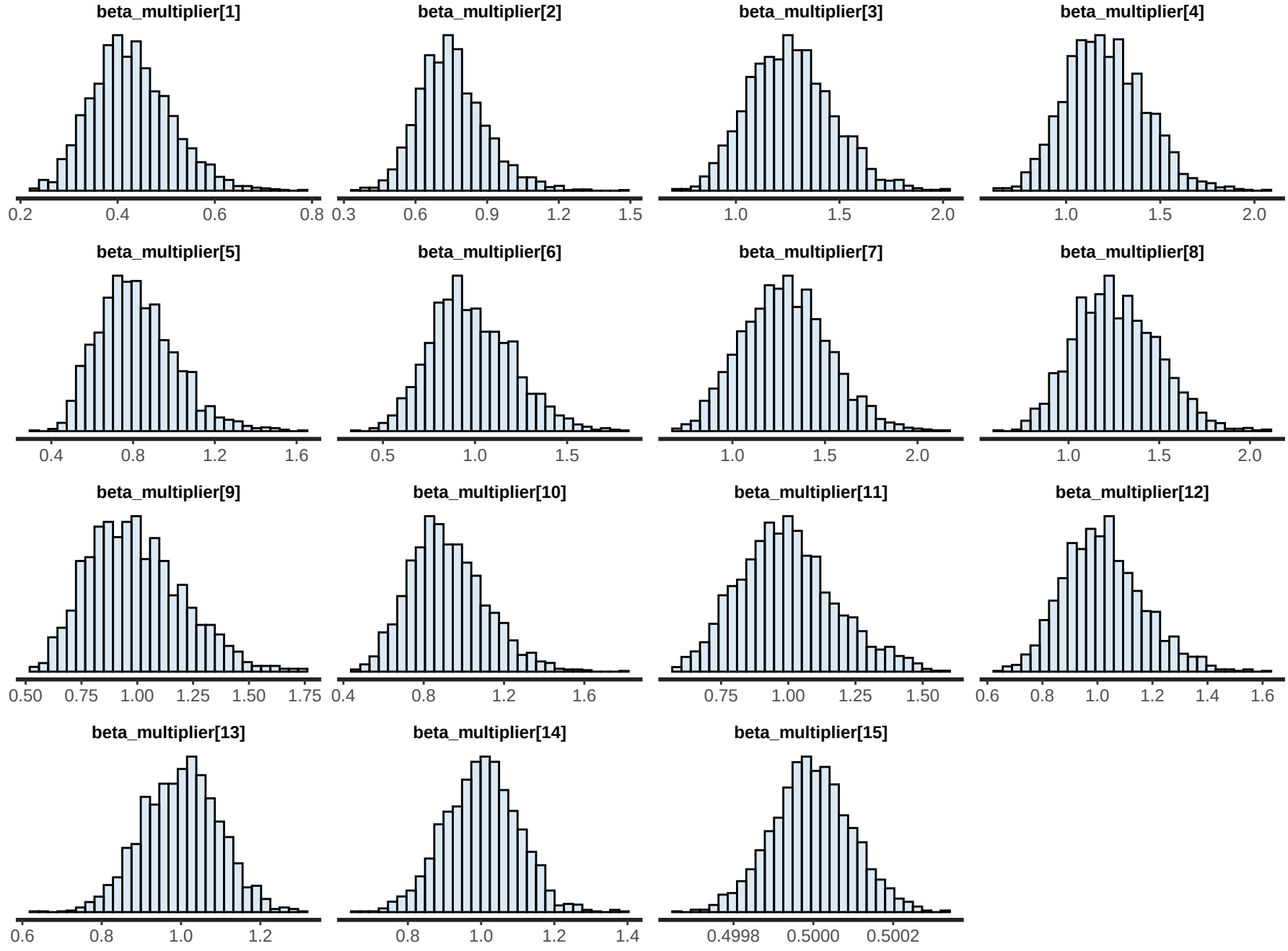
0.6
0.7
frac_mort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0.6
0.8
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0.6
0.9
1.2
1.5
beta_multiplier[3]
1.0
1.5
2.0
beta_multiplier[4]
1.0
1.5
2.0
beta_multiplier[5]
0.4
0.8
1.2
1.6
beta_multiplier[6]
0.5
1.0
1.5
beta_multiplier[7]
1.0
1.5
2.0
beta_multiplier[8]
1.0
1.5
2.0
beta_multiplier[9]
0.50
0.75
1.00
1.25
1.50
1.75
beta_multiplier[10]
0.4
0.8
1.2
1.6
beta_multiplier[11]
0.75
1.00
1.25
1.50
beta_multiplier[12]
0.6
0.8
1.0
1.2
1.4
1.6
beta_multiplier[13]
0.6
0.8
1.0
1.2
beta_multiplier[14]
0.8
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1.2
1.4
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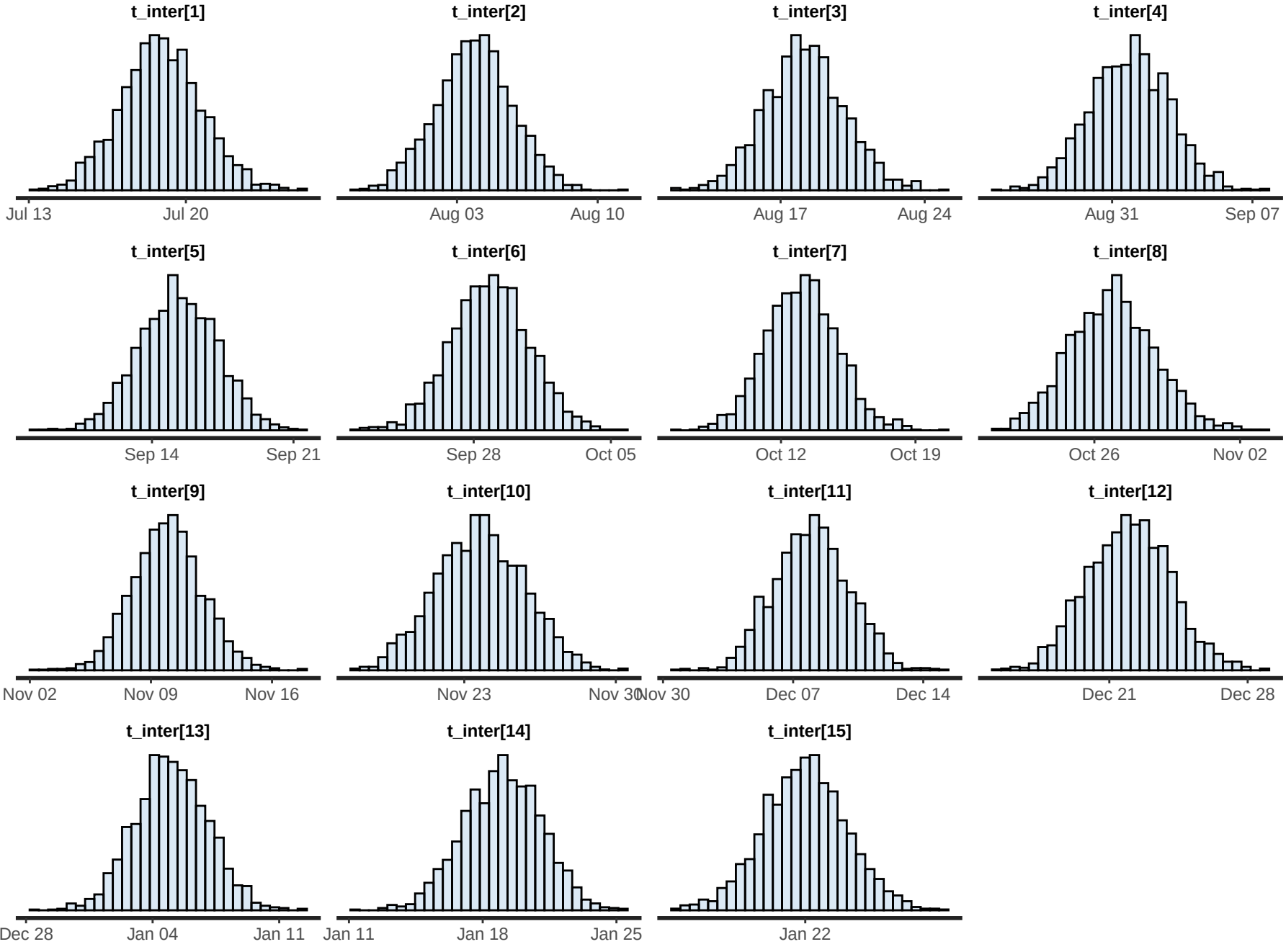
0.5000
0.5002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Jul 13
Jul 20
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Aug 24
t_inter[4]
Aug 31
Sep 07
t_inter[5]
Sep 14
Sep 21
t_inter[6]
Sep 28
Oct 05
t_inter[7]
Oct 12
Oct 19
t_inter[8]
Oct 26
Nov 02
t_inter[9]
Nov 02
Nov 09
Nov 16
t_inter[10]
Nov 23
Nov 30
t_inter[11]
Nov 30
Dec 07
Dec 14
t_inter[12]
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Dec 28
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Dec 28
Jan 04
Jan 11
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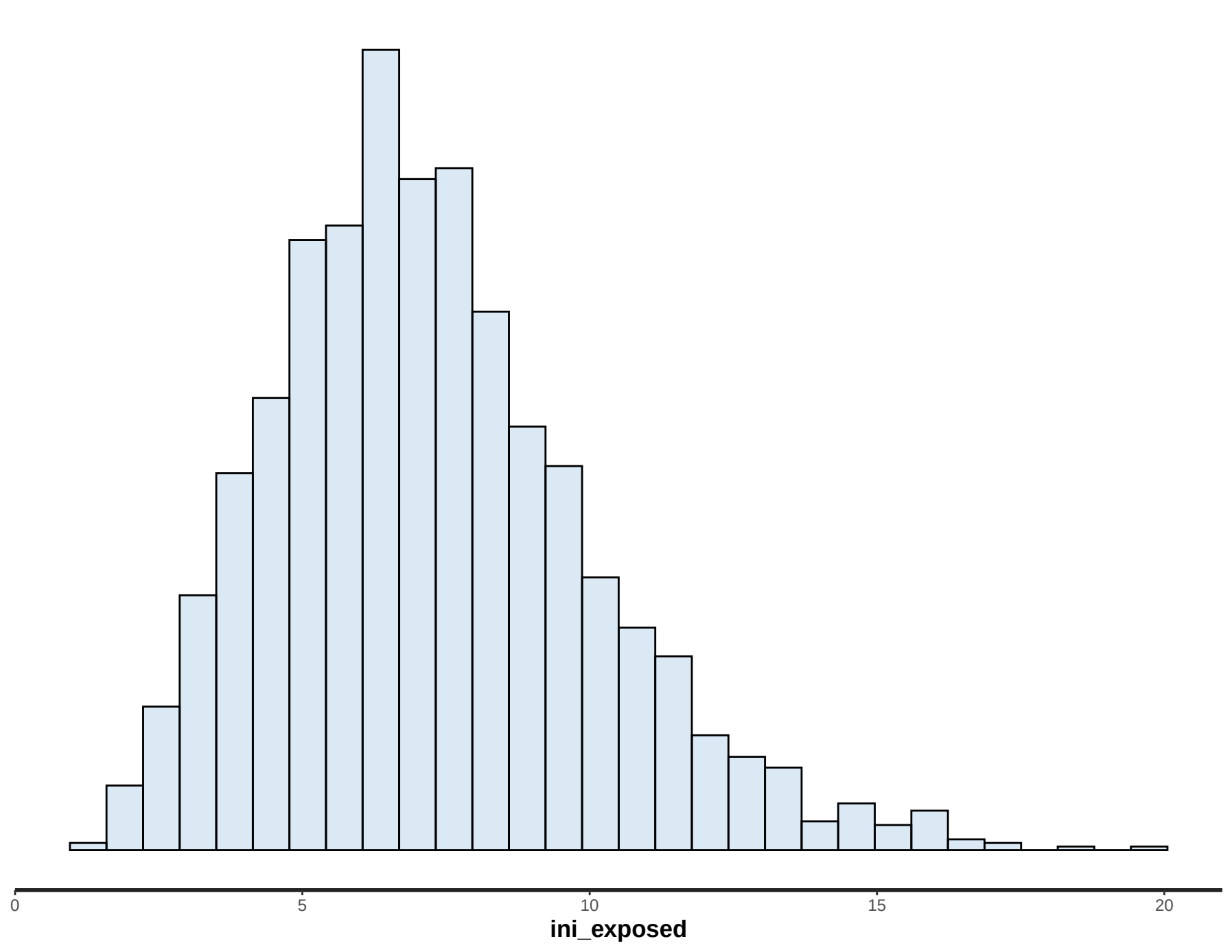
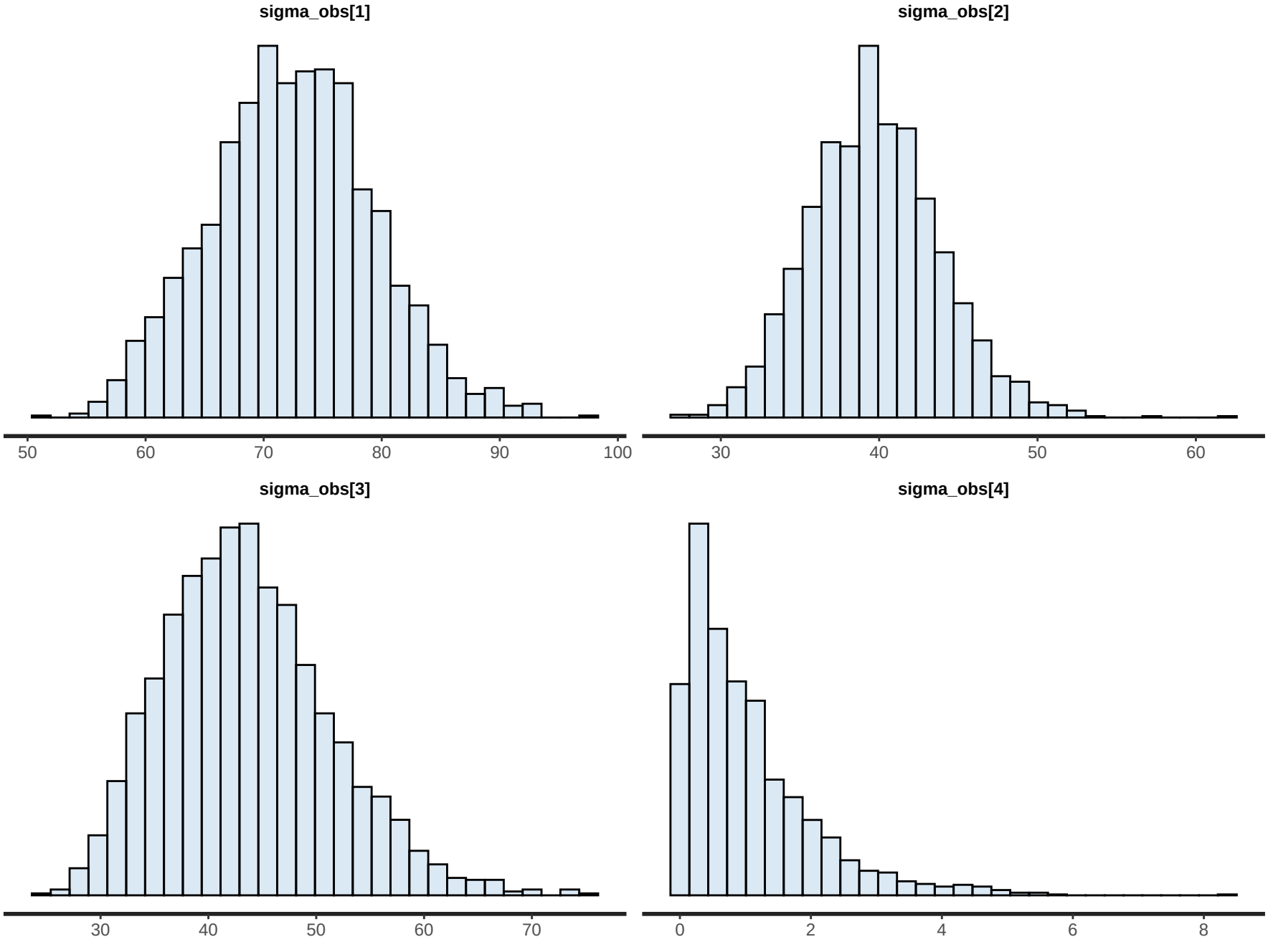
Jan 11
Jan 18
Jan 25
t_inter[15]
Jan 22


0
5
10
15
20
ini_exposed


sigma_obs[1]
50
60
70
80
90
100
sigma_obs[2]
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40
50
60
sigma_obs[3]
30
40
50
60
70
sigma_obs[4]
0
2
4
6
8