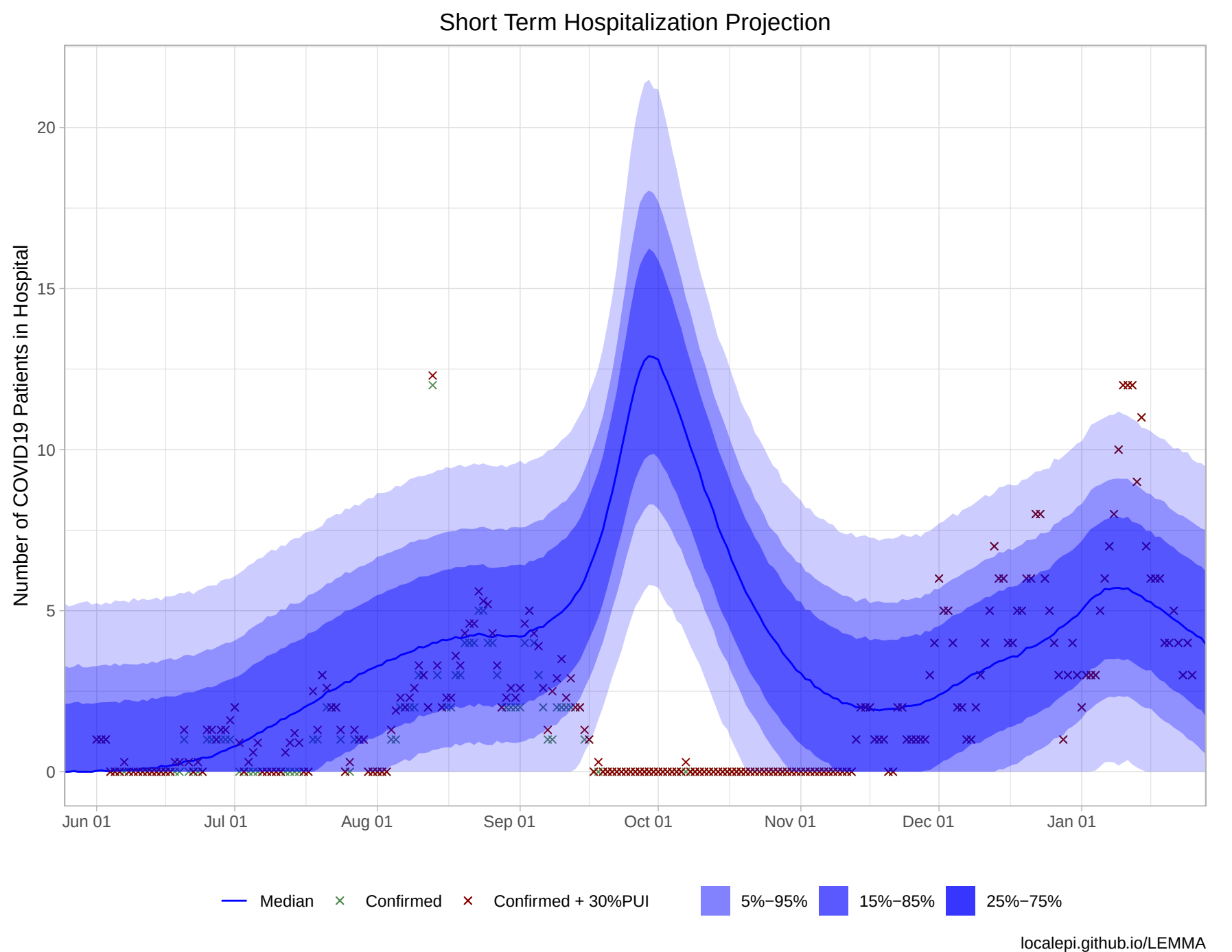
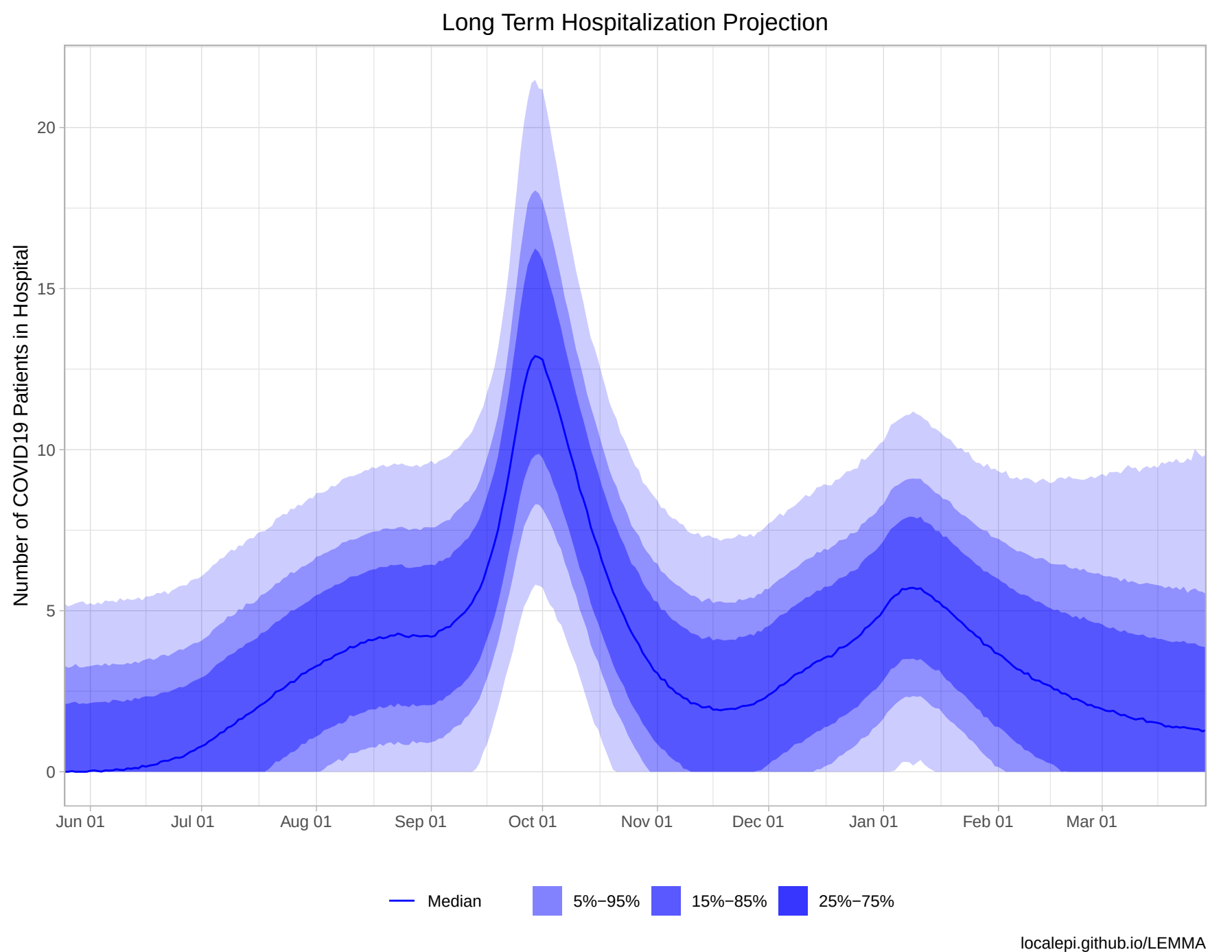
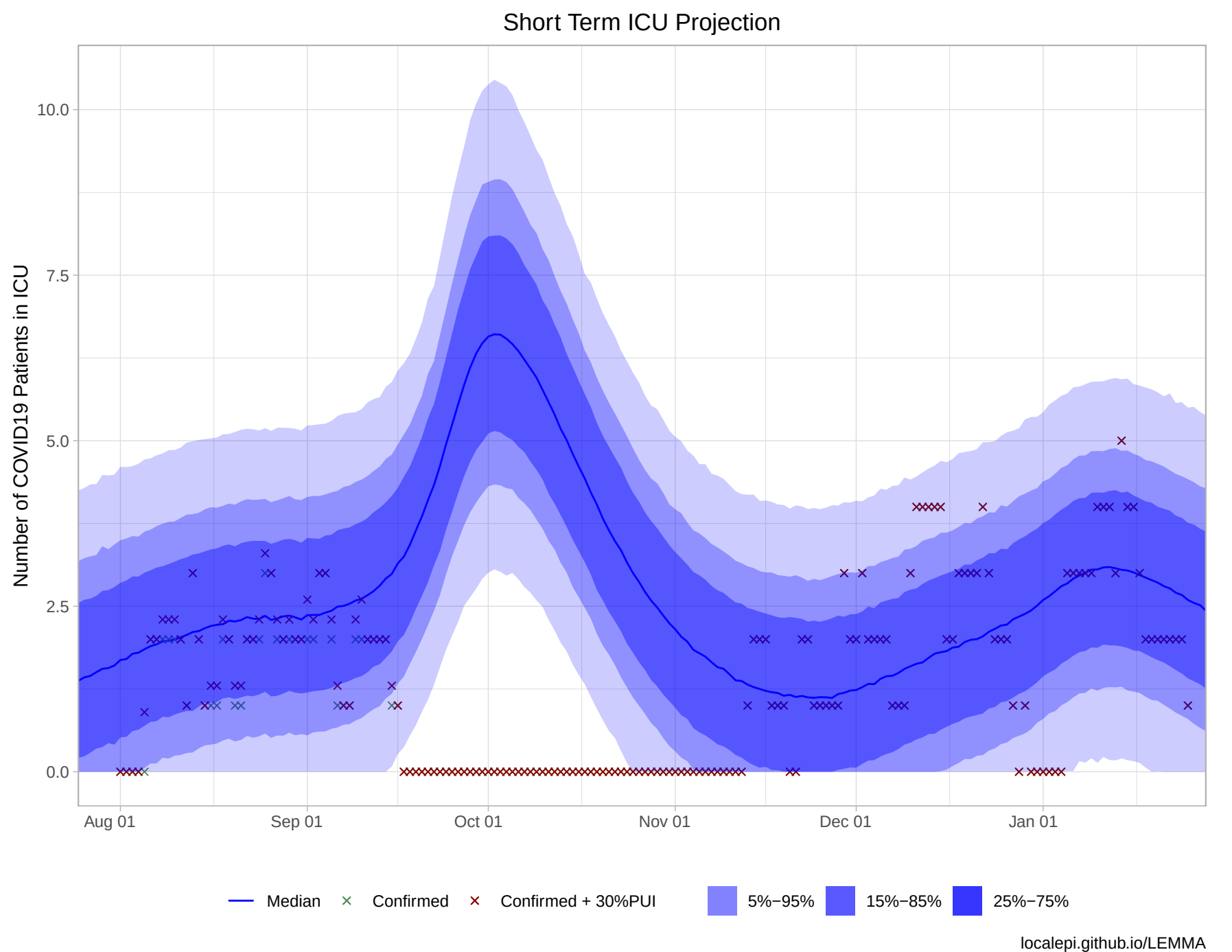
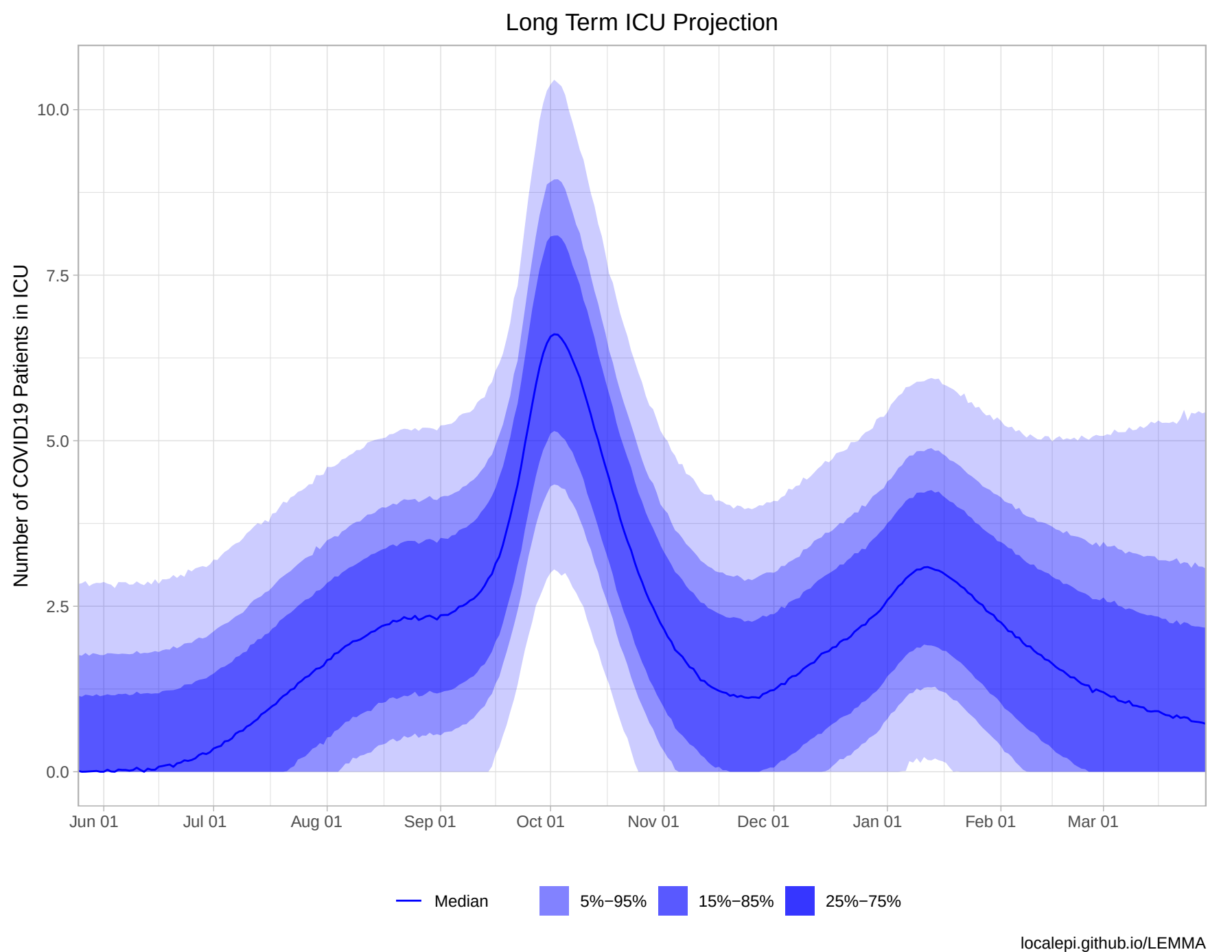
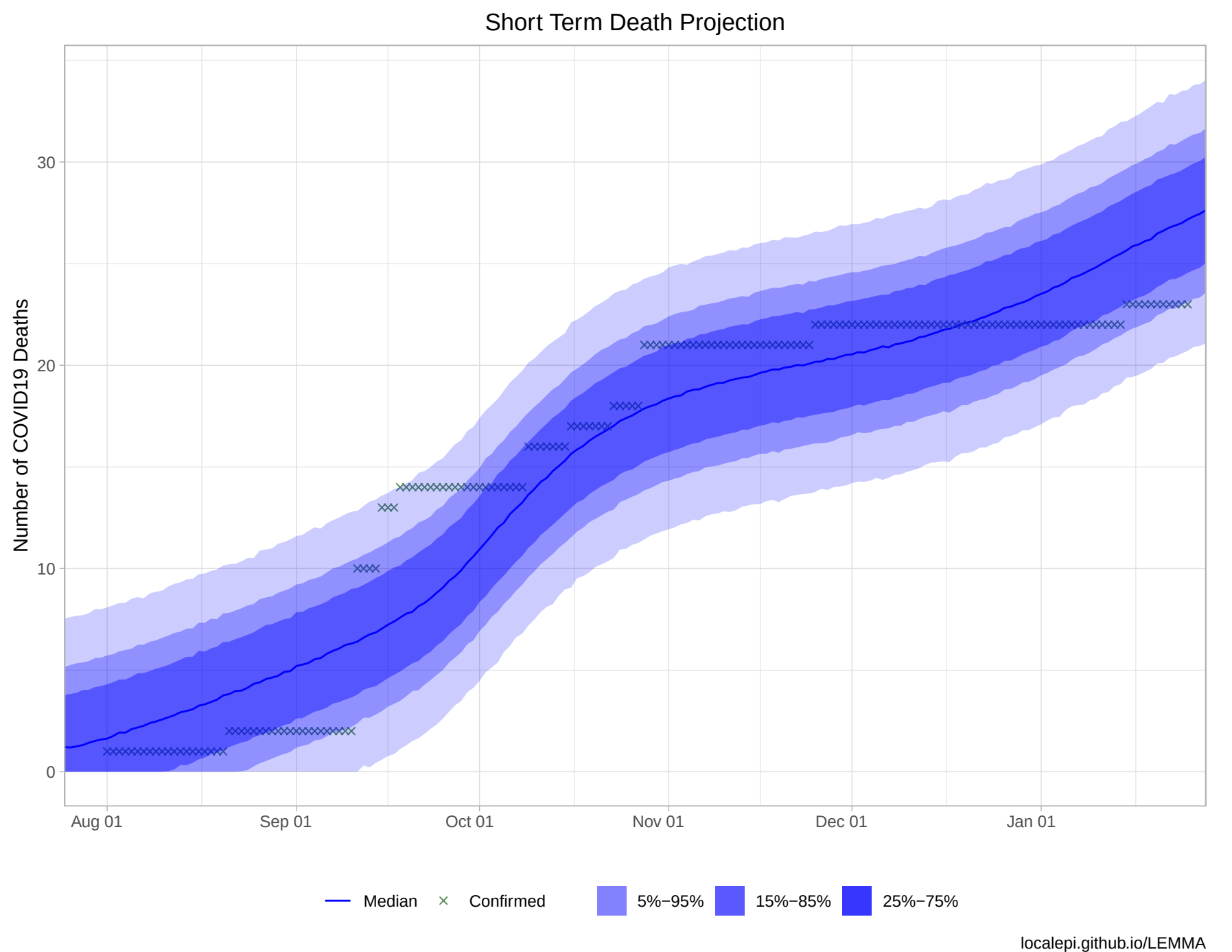
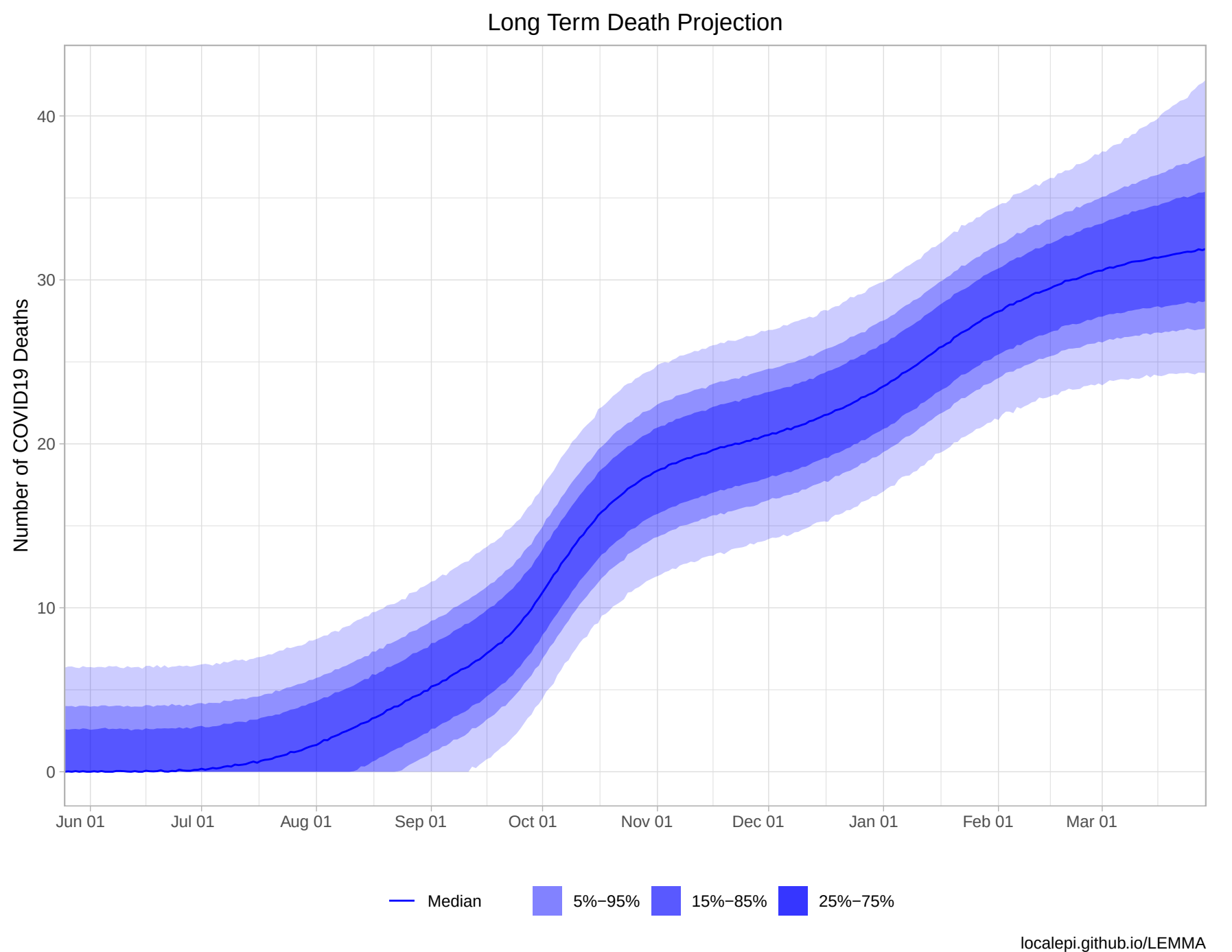

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
5
10
15
20
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

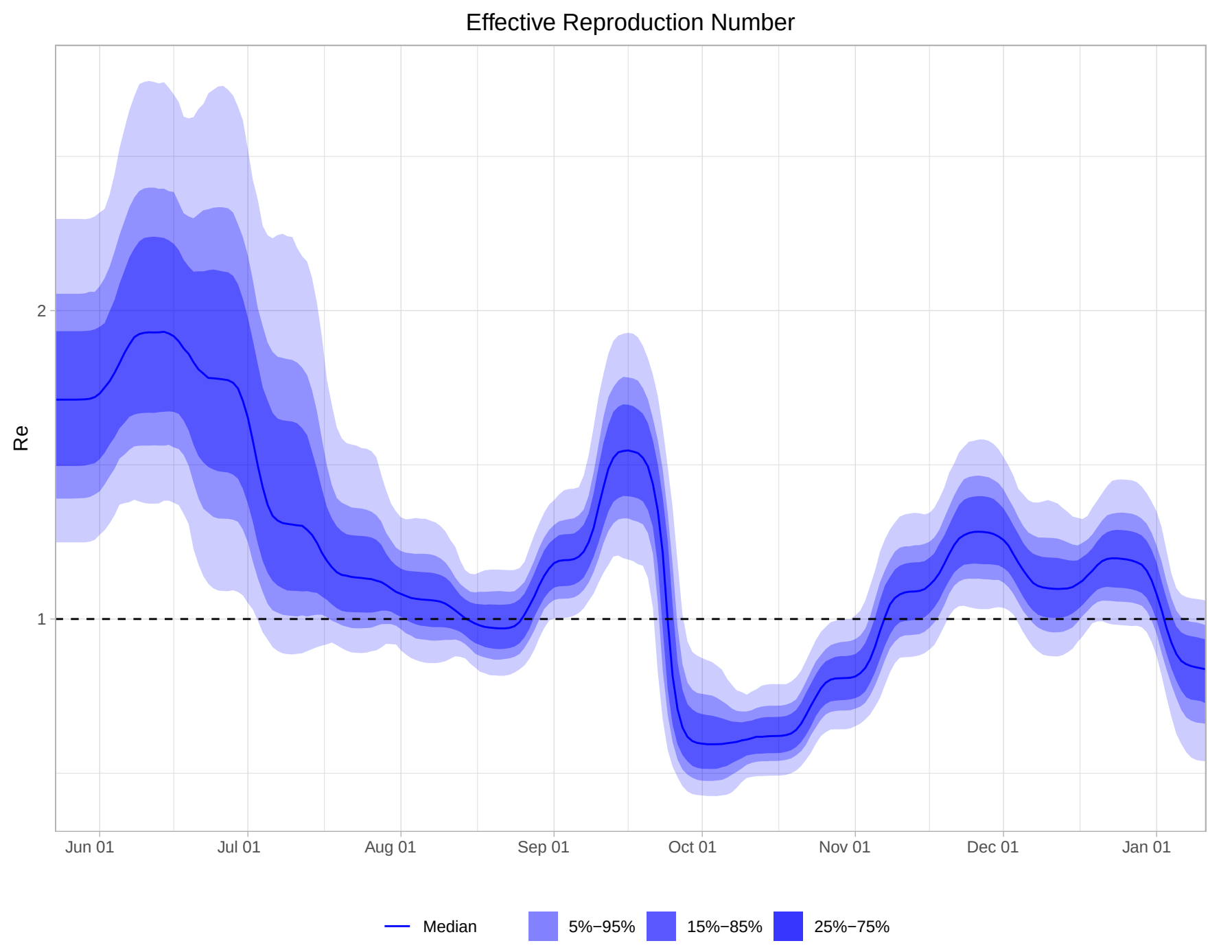

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
5
10
15
20
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


Short Term ICU Projection
Number of COVID19 Patients in ICU
10.0
7.5
5.0
2.5
0.0
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
10.0
7.5
5.0
2.5
0.0
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

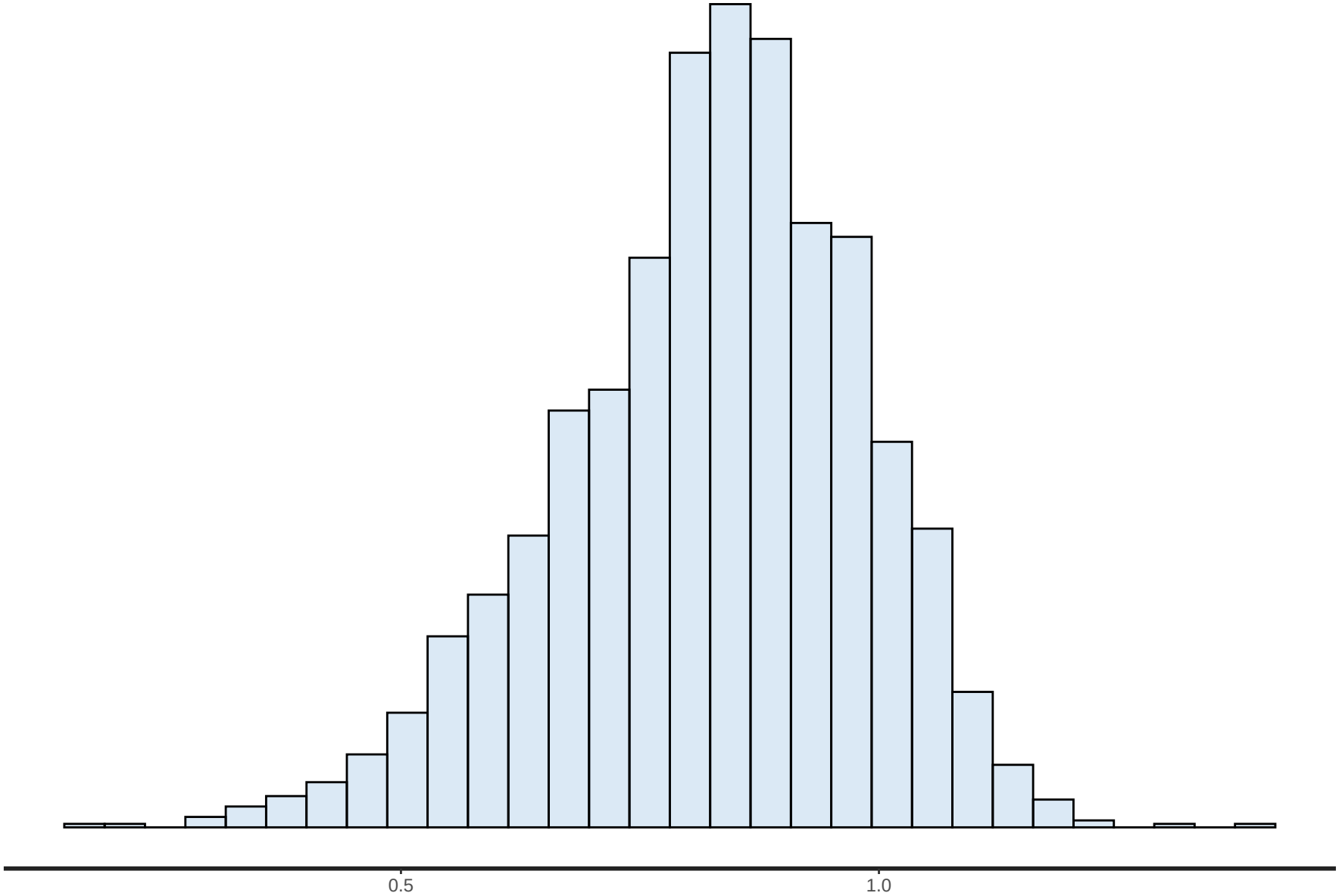

Short Term Death Projection
Number of COVID19 Deaths
0
10
20
30
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

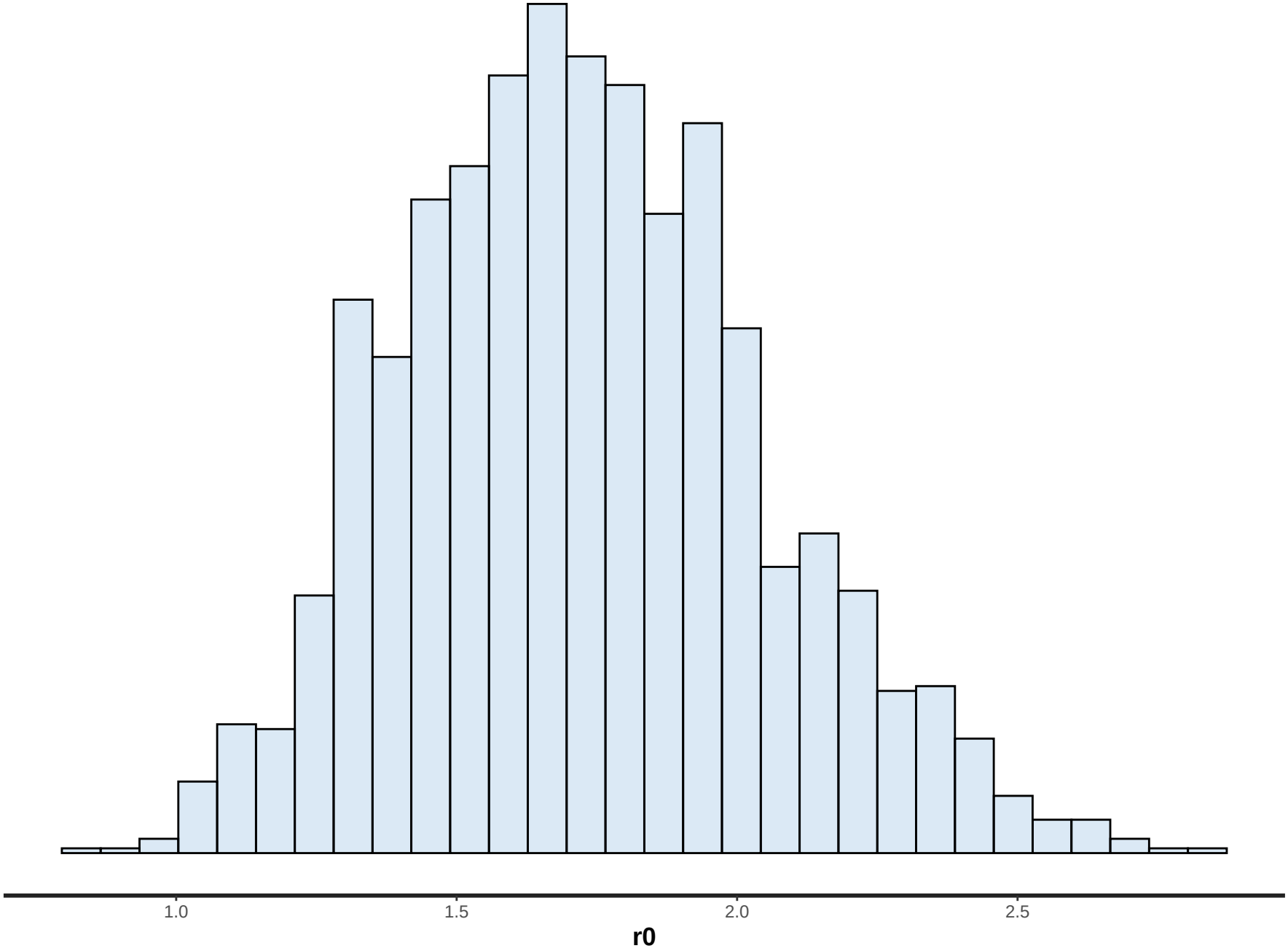

Long Term Death Projection
Number of COVID19 Deaths
0
10
20
30
40
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

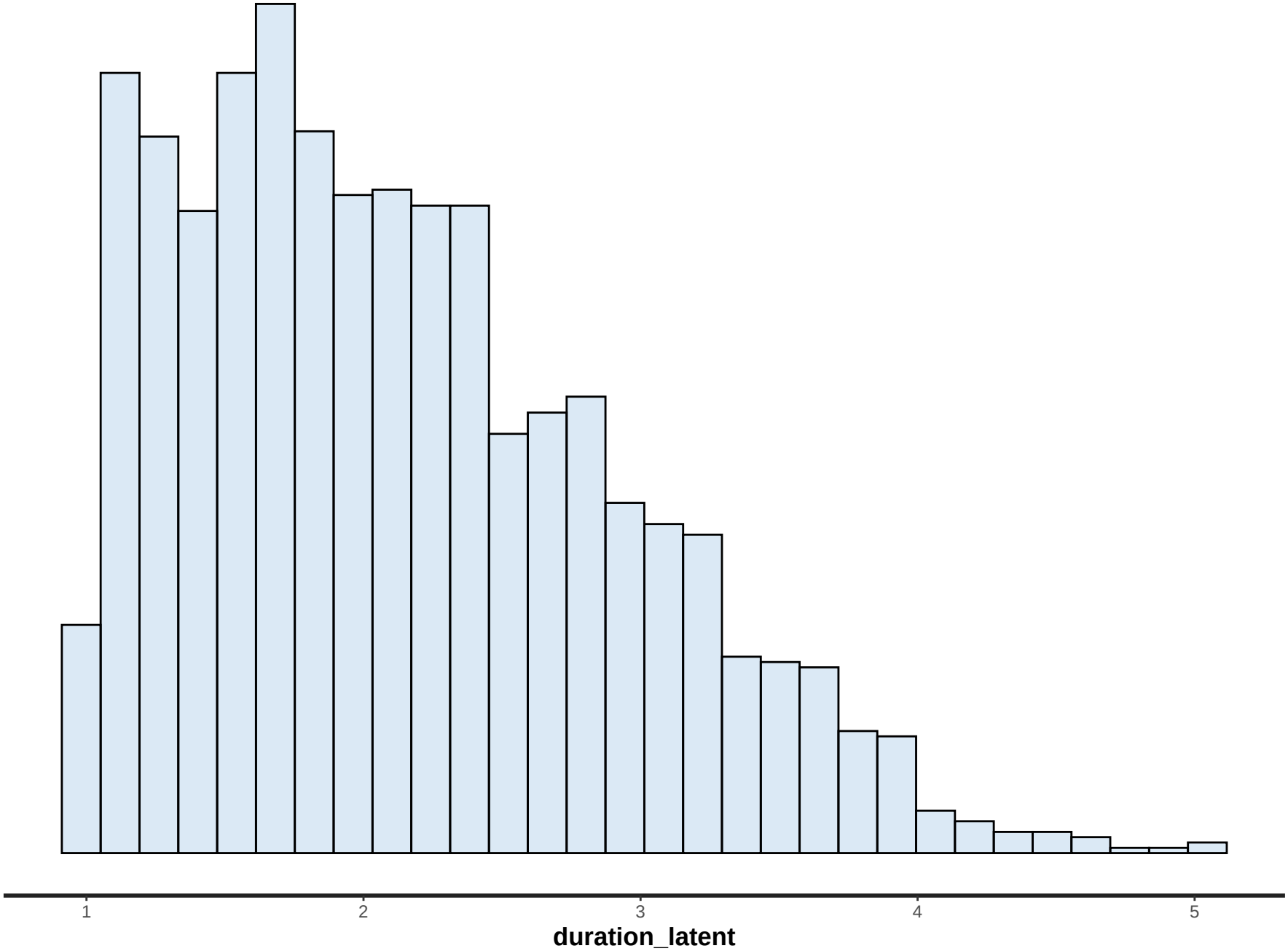

Effective Reproduction Number
Re
2
1
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Median
5%−95%
15%−85%
25%−75%

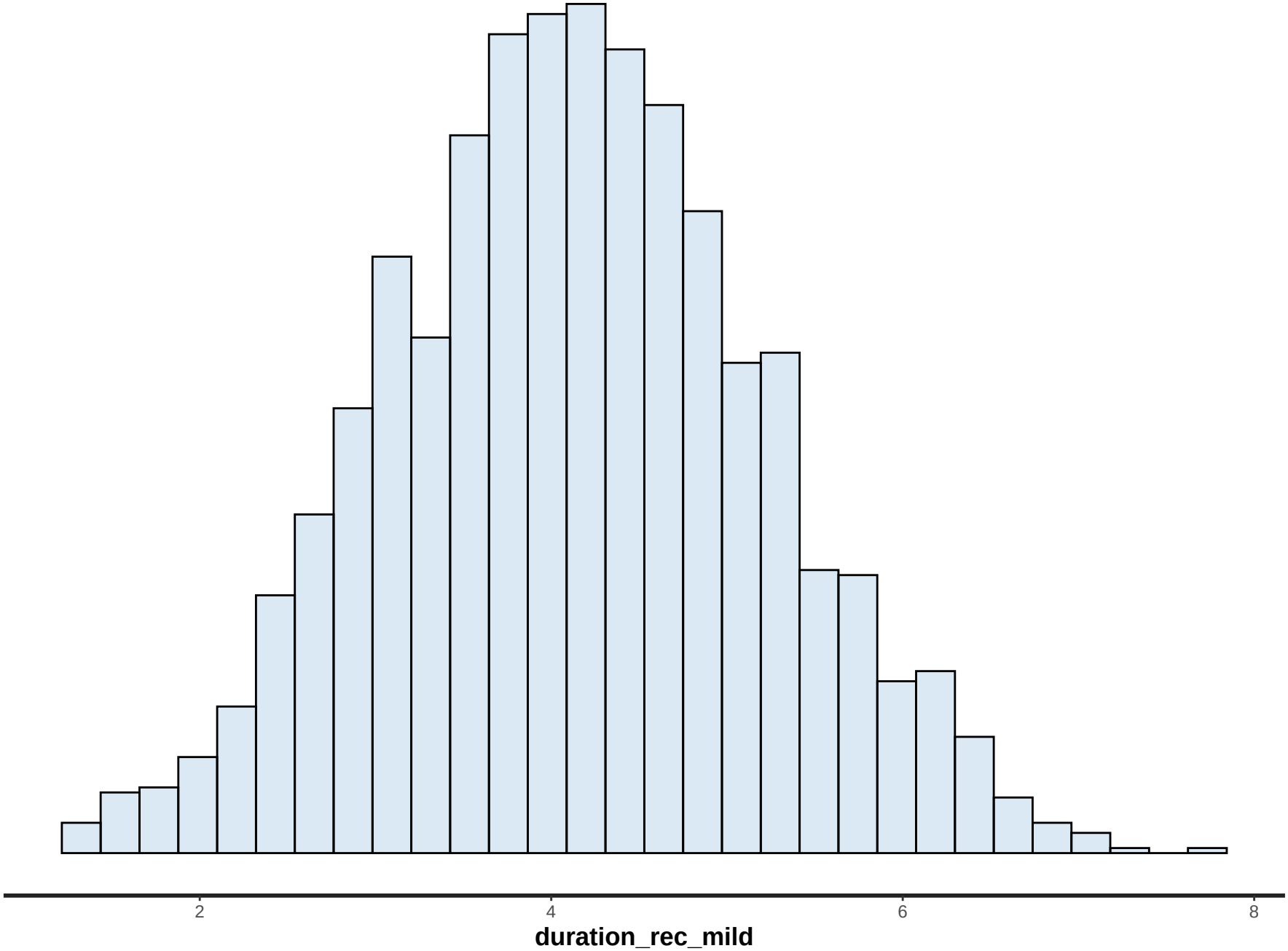
Rt as of 2021−01−11

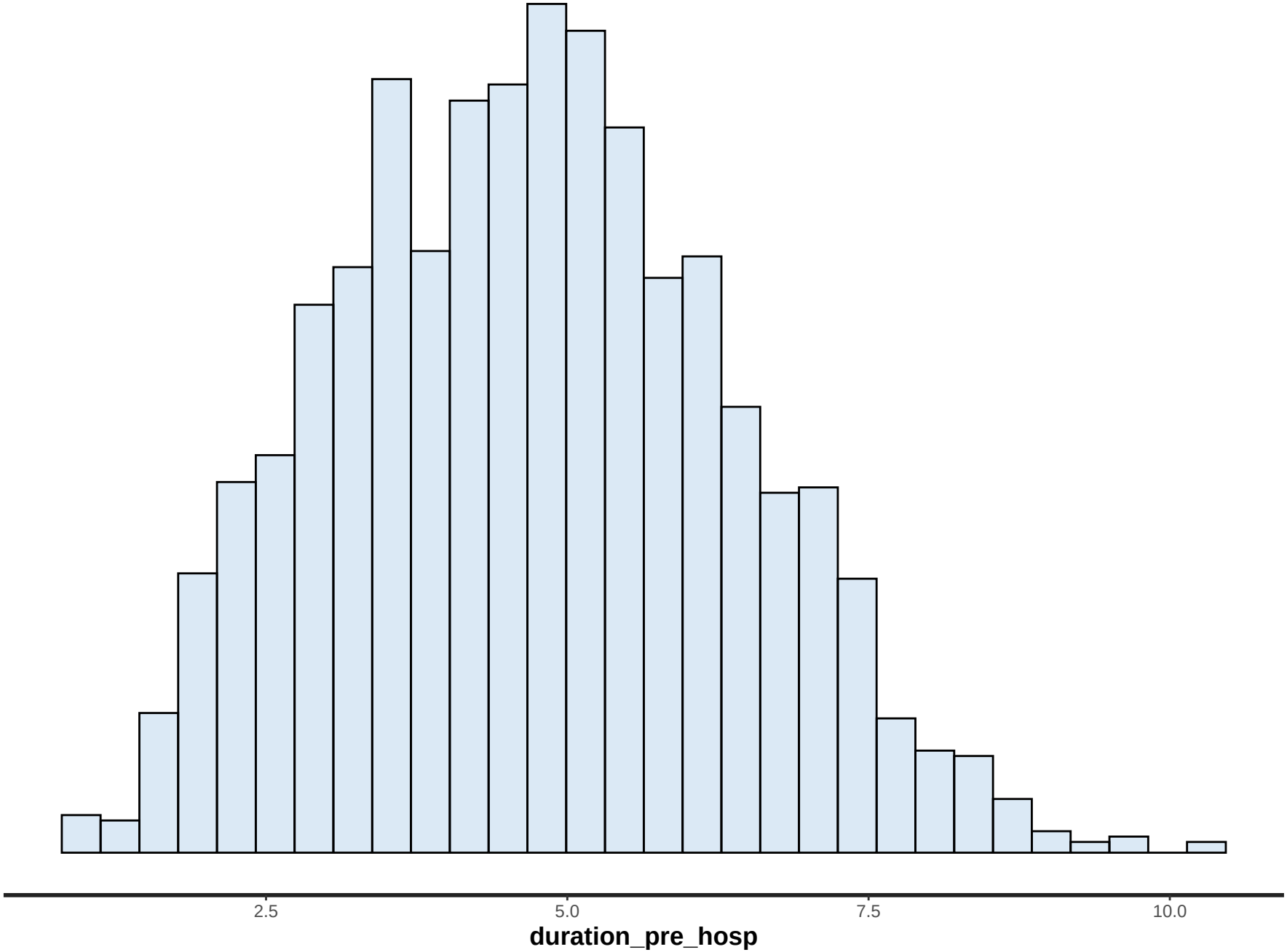
5%	10%	25%	50%	75%	90%	95%
0.54	0.61	0.73	0.84	0.93	1.02	1.06

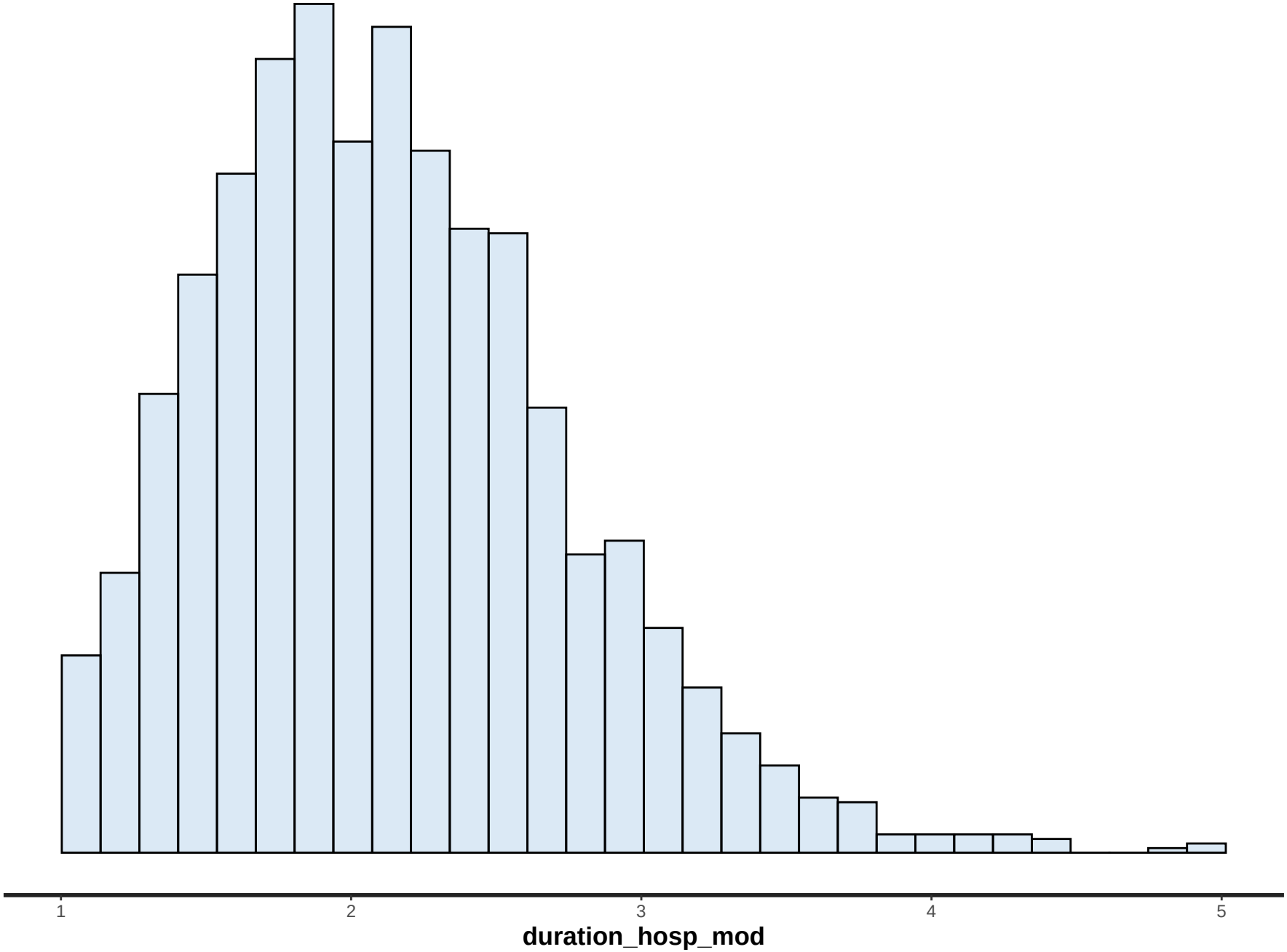


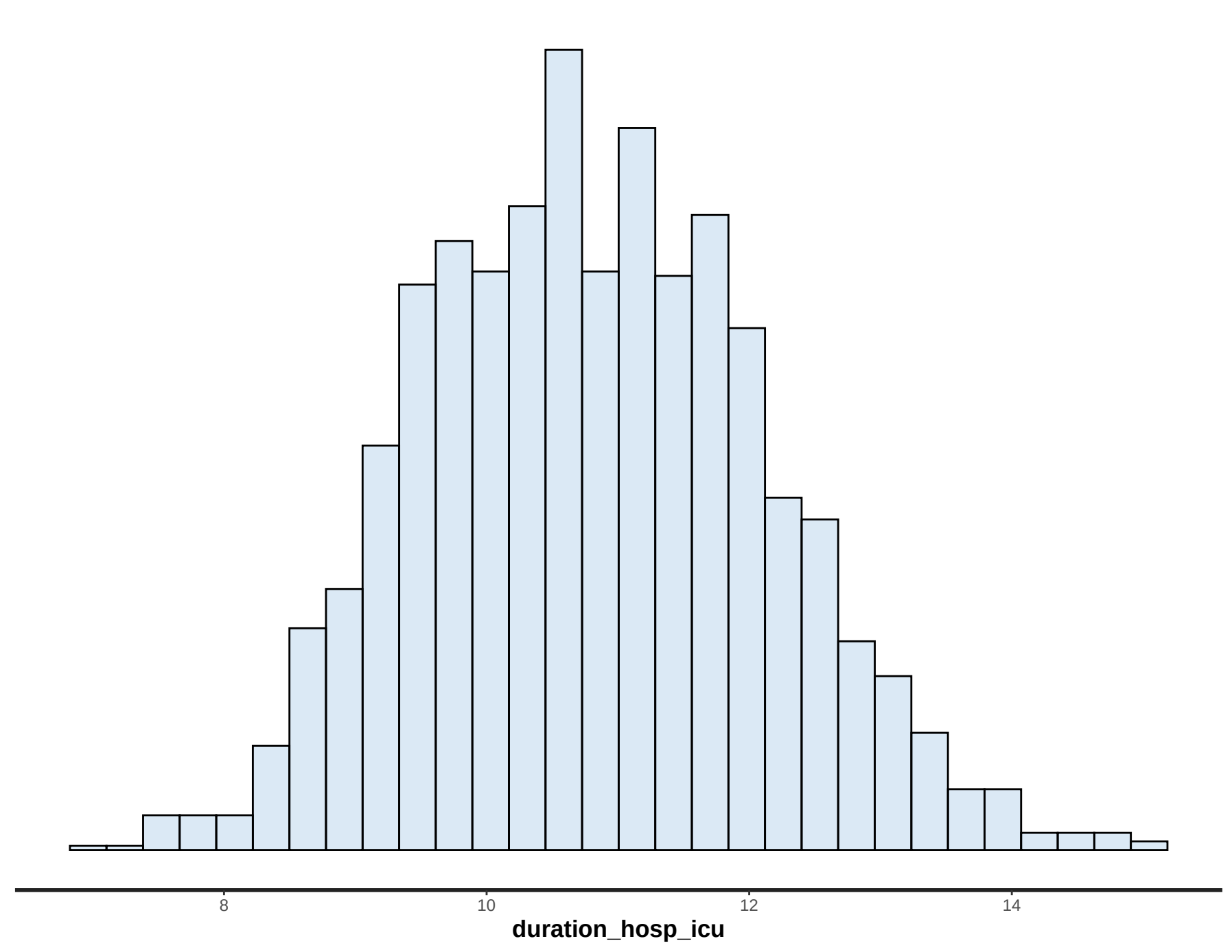

1.0
1.5
2.0
2.5
r0

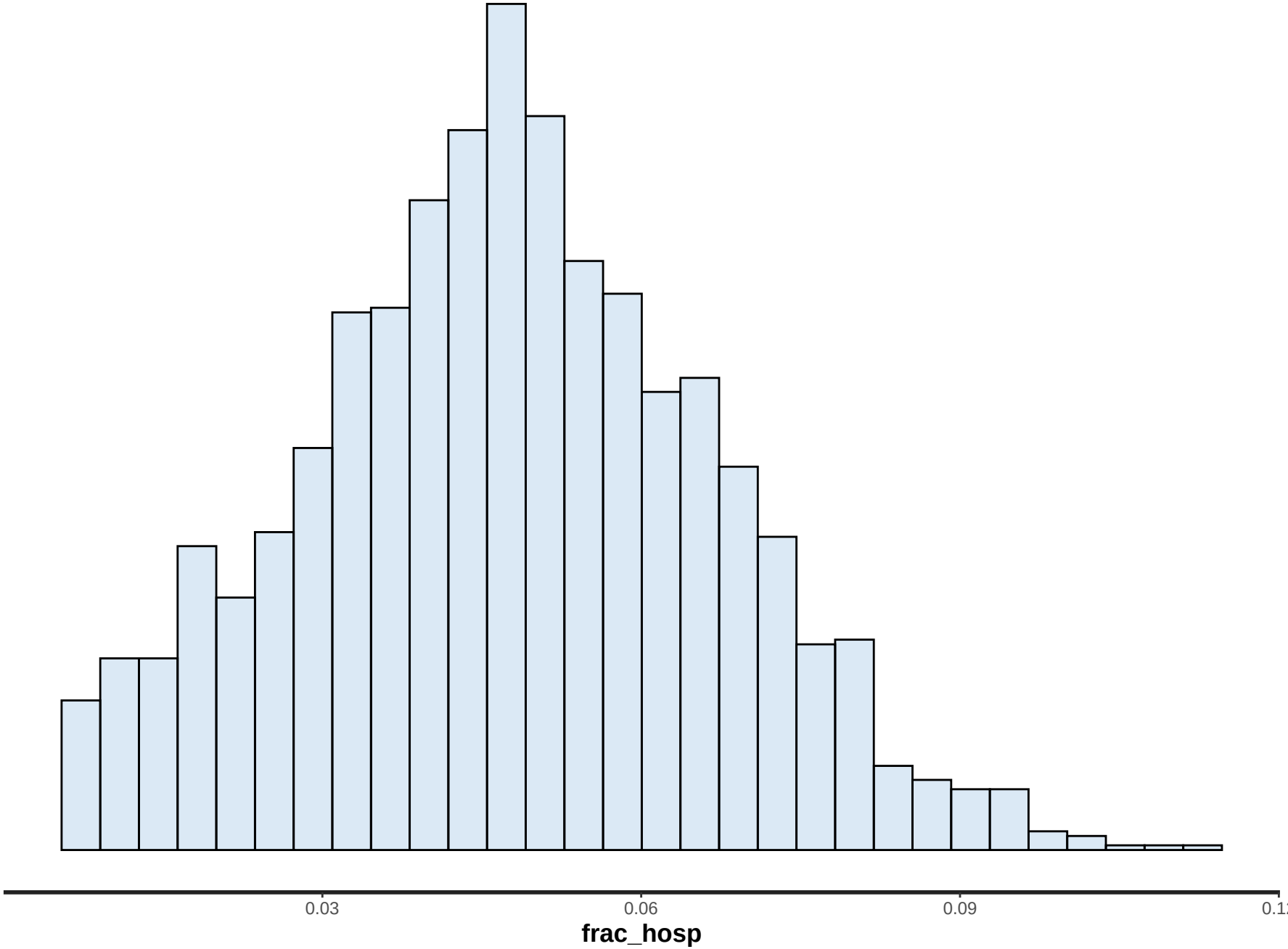

1
2
3
4
5
duration_latent

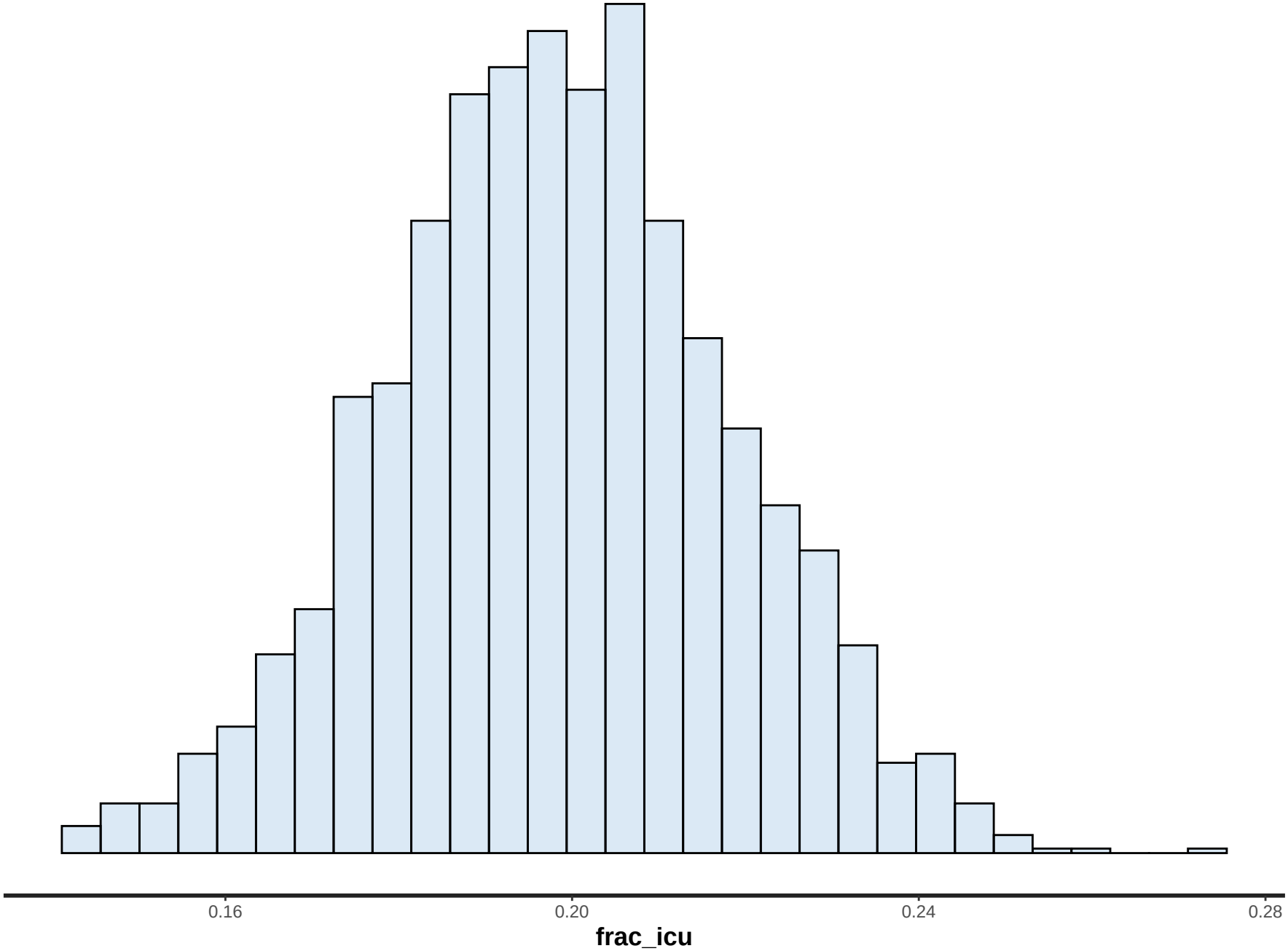

2
4
6
8
duration_rec_mild

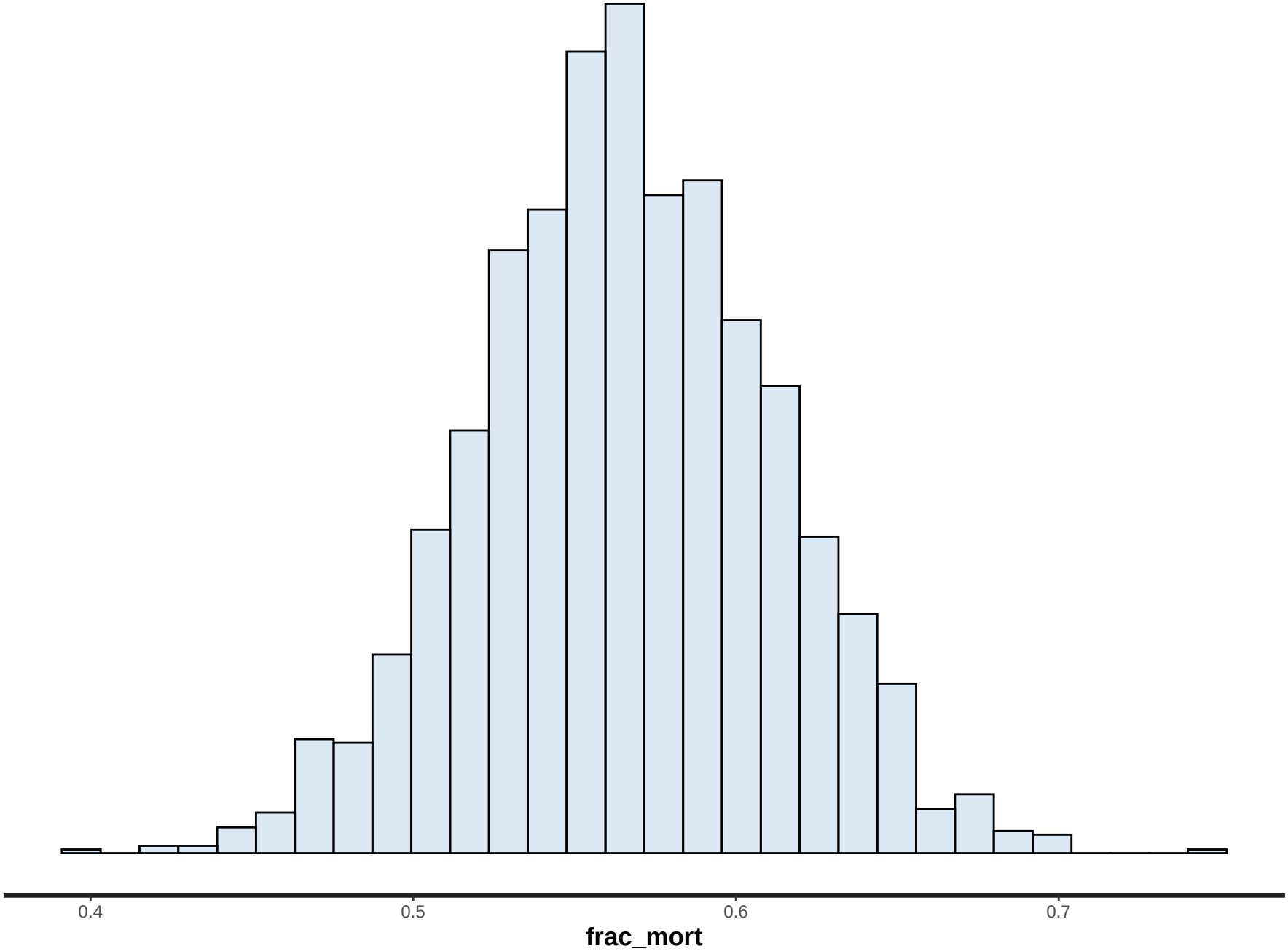

2.5
5.0
7.5
10.0
duration_pre_hosp

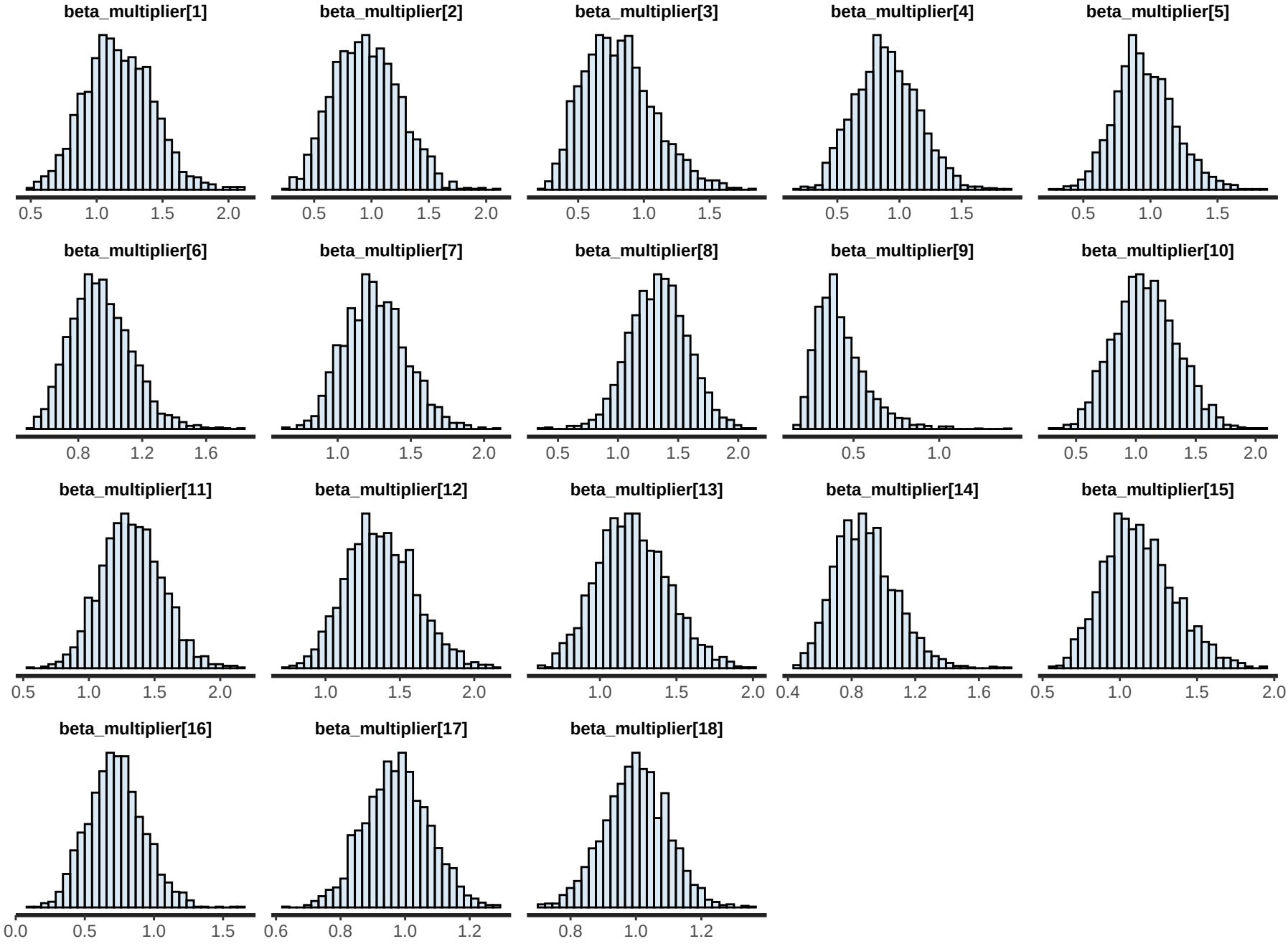

1
2
3
4
5
duration_hosp_mod


8
10
12
14
duration_hosp_icu


0.03
0.06
0.09
0.12
frac_hosp


0.16
0.20
0.24
0.28
frac_icu


0.4
0.5
0.6
0.7
frac_mort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beta_multiplier[3]
beta_multiplier[4]
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beta_multiplier[12]
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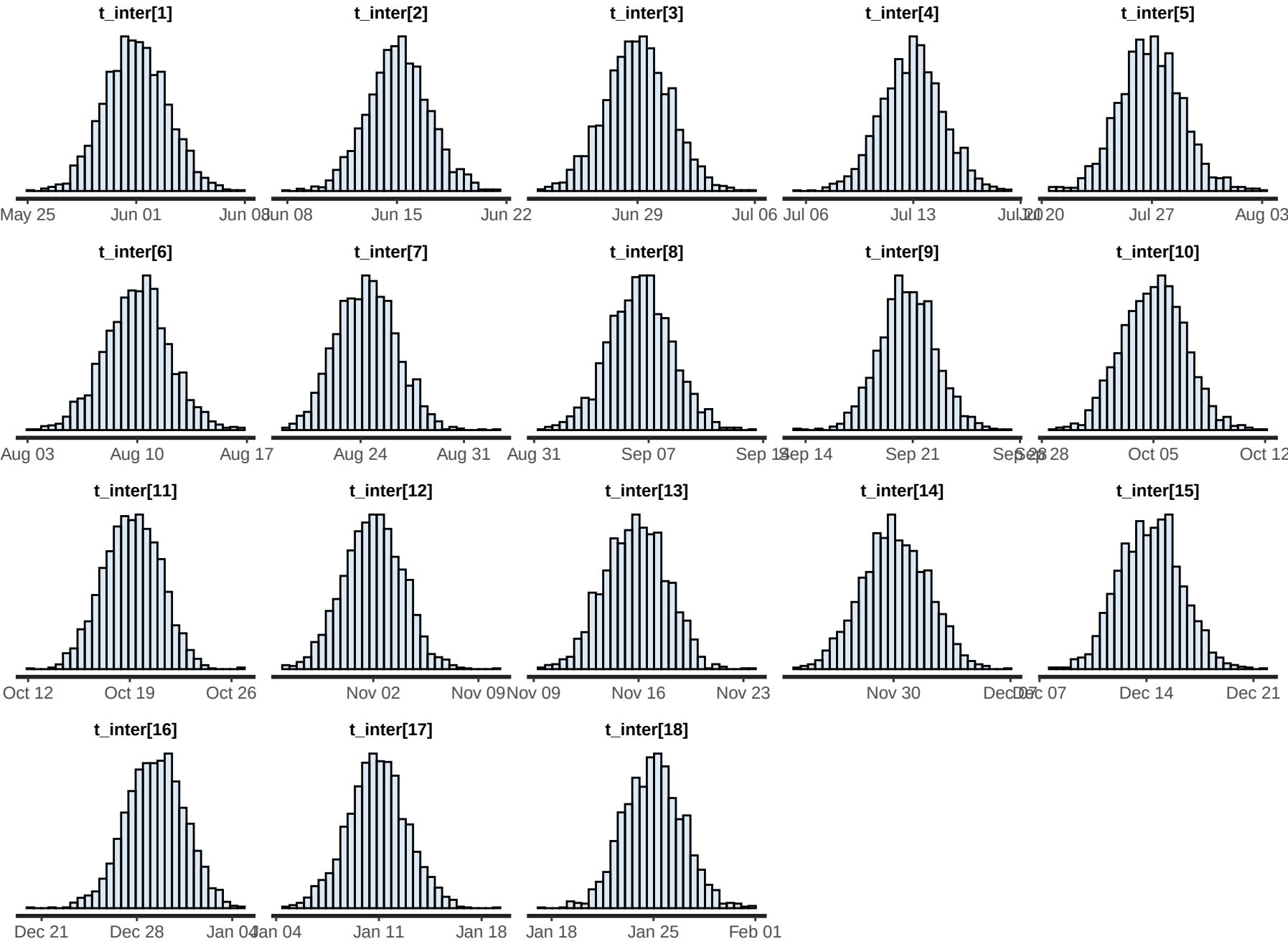
beta_multiplier[15]
beta_multiplier[16]
beta_multiplier[17]
beta_multiplier[18]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May 25
Jun 01
Jun 08
t_inter[2]
Jun 08
Jun 15
Jun 22
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Jun 29
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t_inter[4]
Jul 06
Jul 13
Jul 20
t_inter[5]
Jul 20
Jul 27
Aug 03
t_inter[6]
Aug 03
Aug 10
Aug 17
t_inter[7]
Aug 24
Aug 31
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Sep 07
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Nov 09
Nov 16
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Jan 04
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Jan 04
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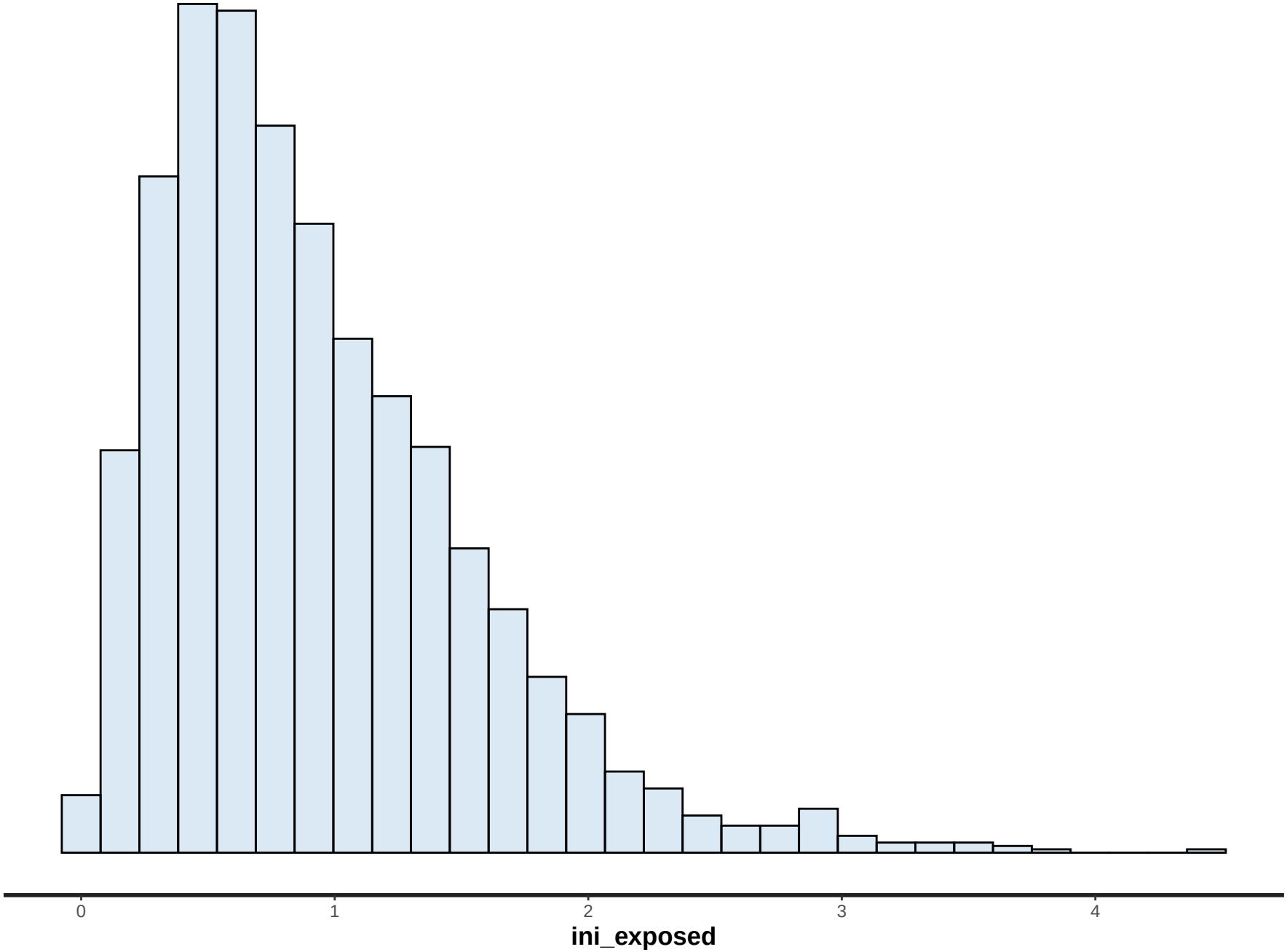
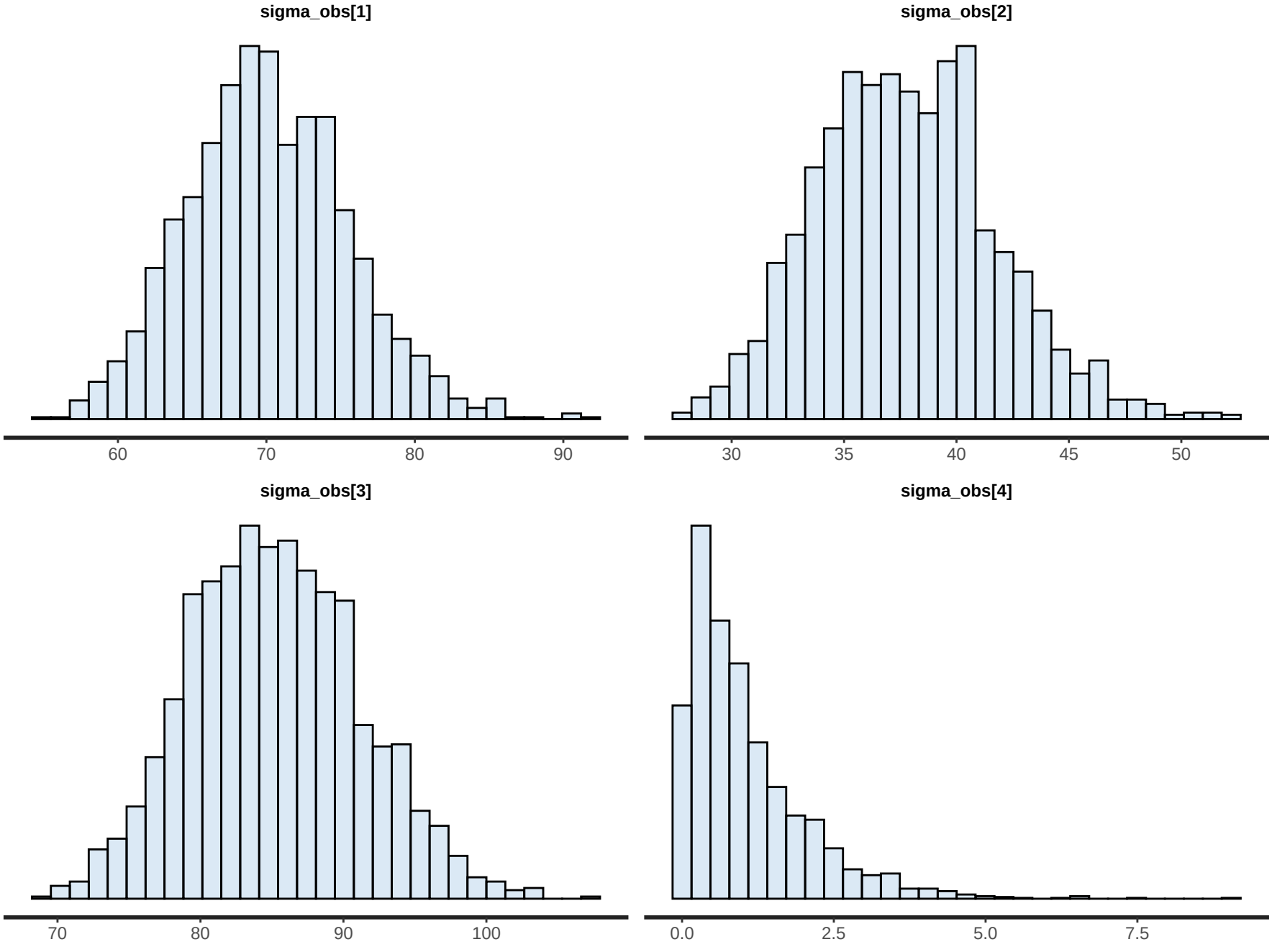
Jan 18
t_inter[18]
Jan 18
Jan 25
Feb 01


0
1
2
3
4
ini_exposed


sigma_obs[1]
60
70
80
90
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30
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sigma_obs[3]
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80
90
100
sigma_obs[4]
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2.5
5.0
7.5