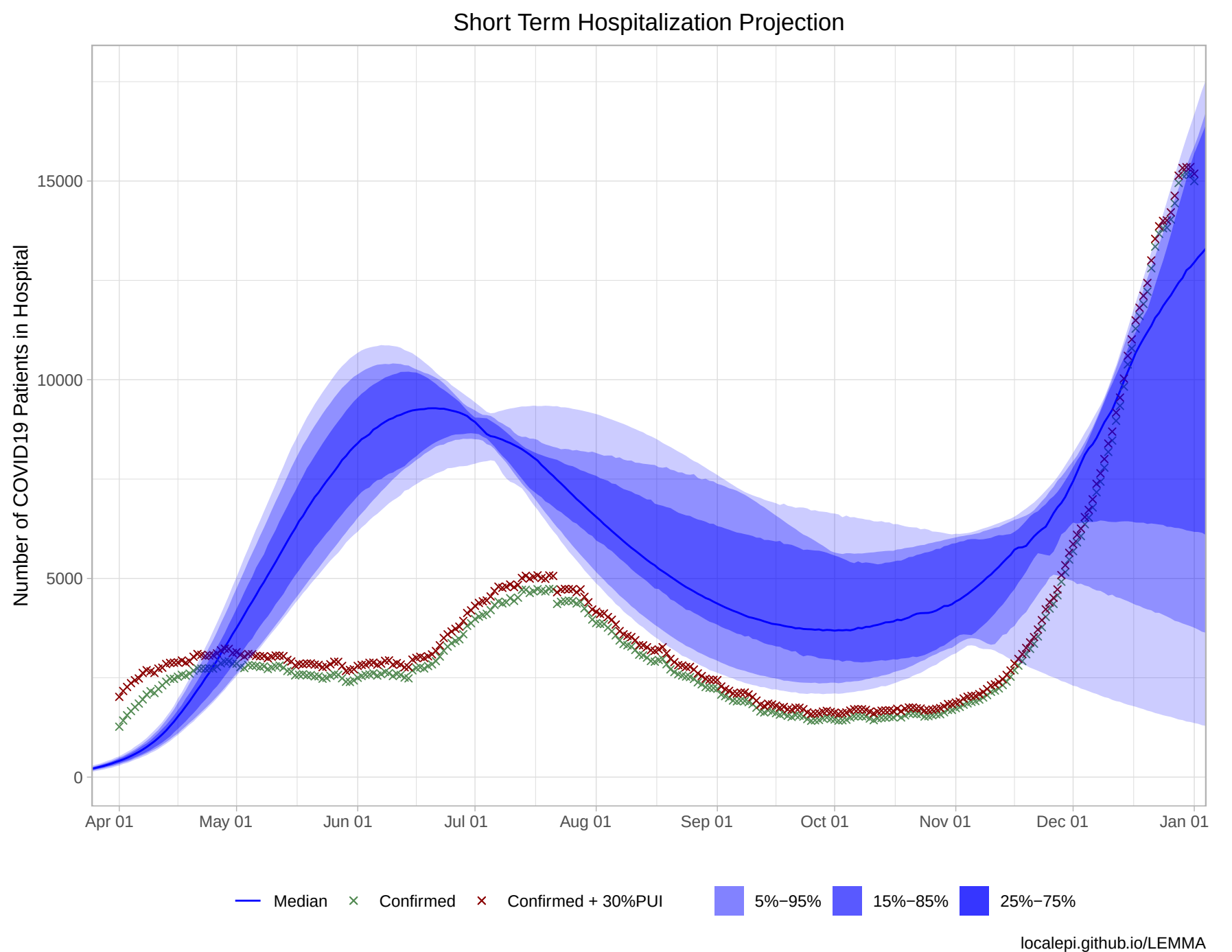
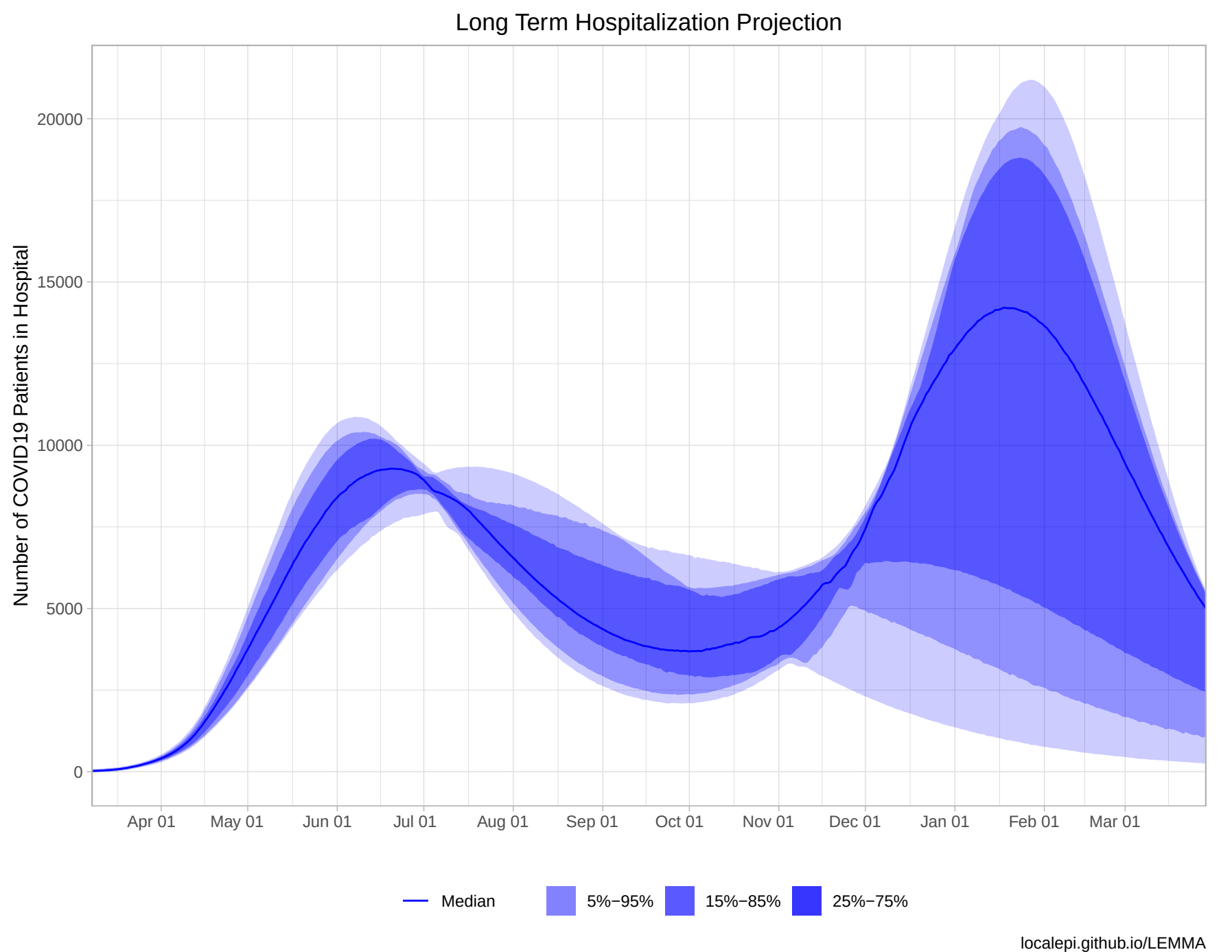
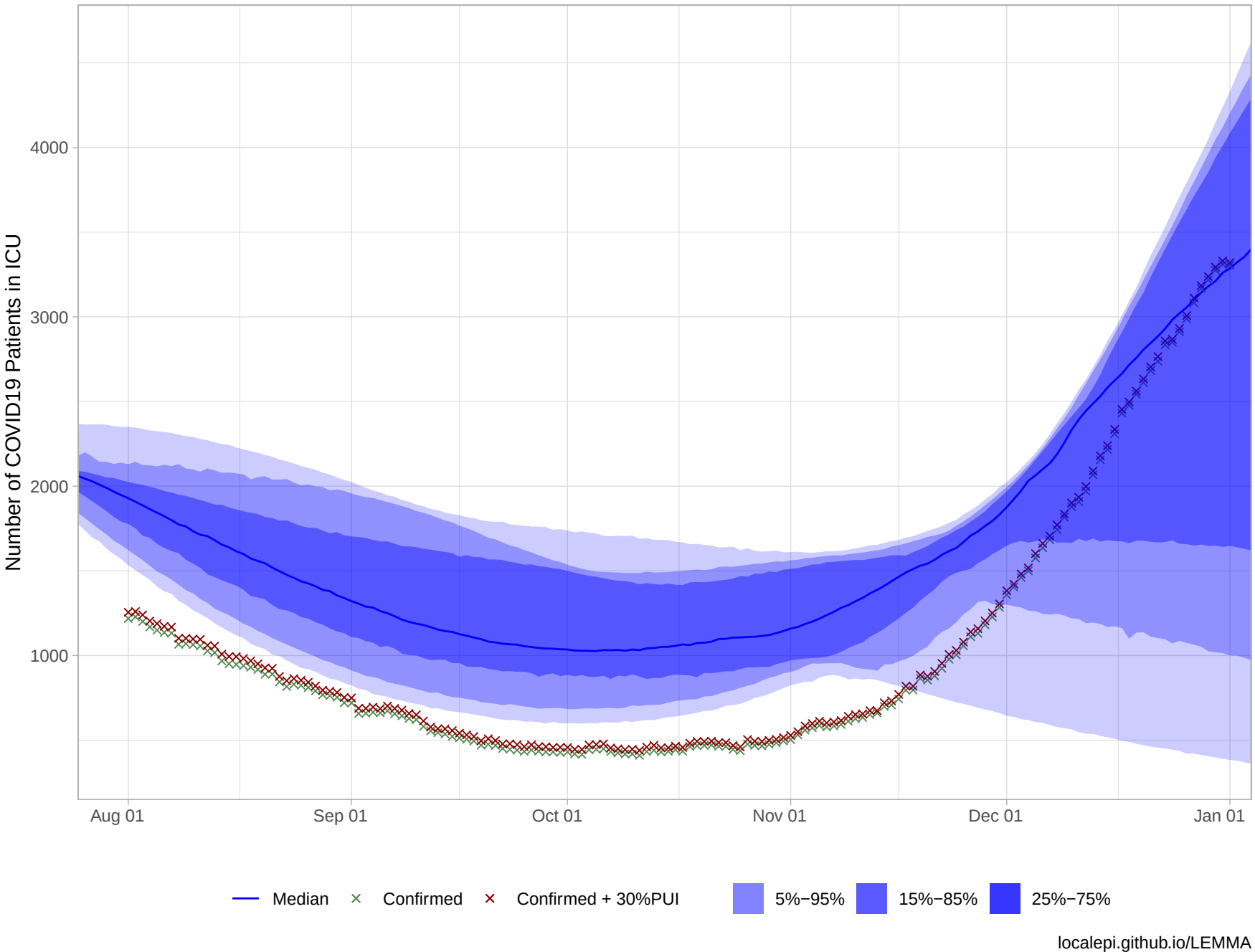
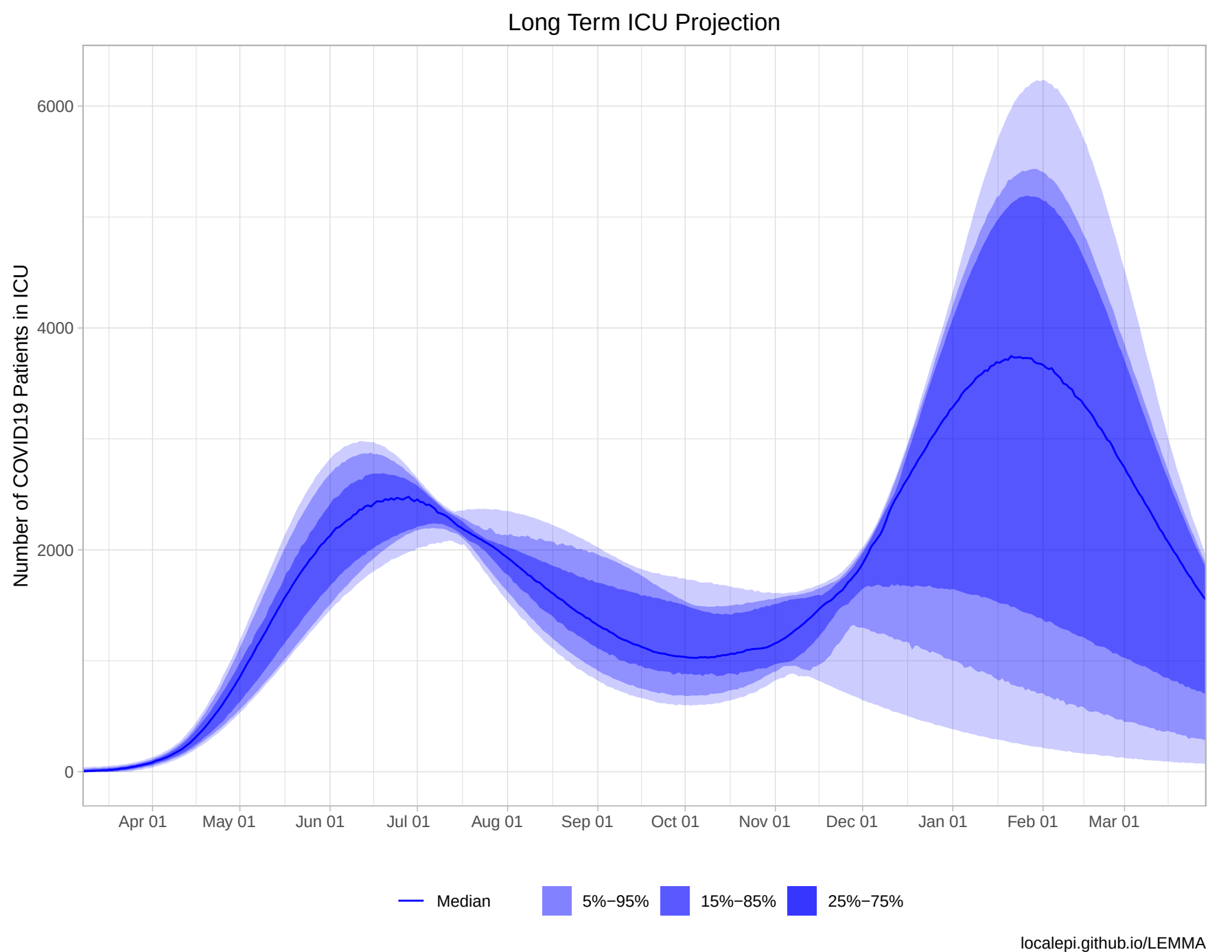
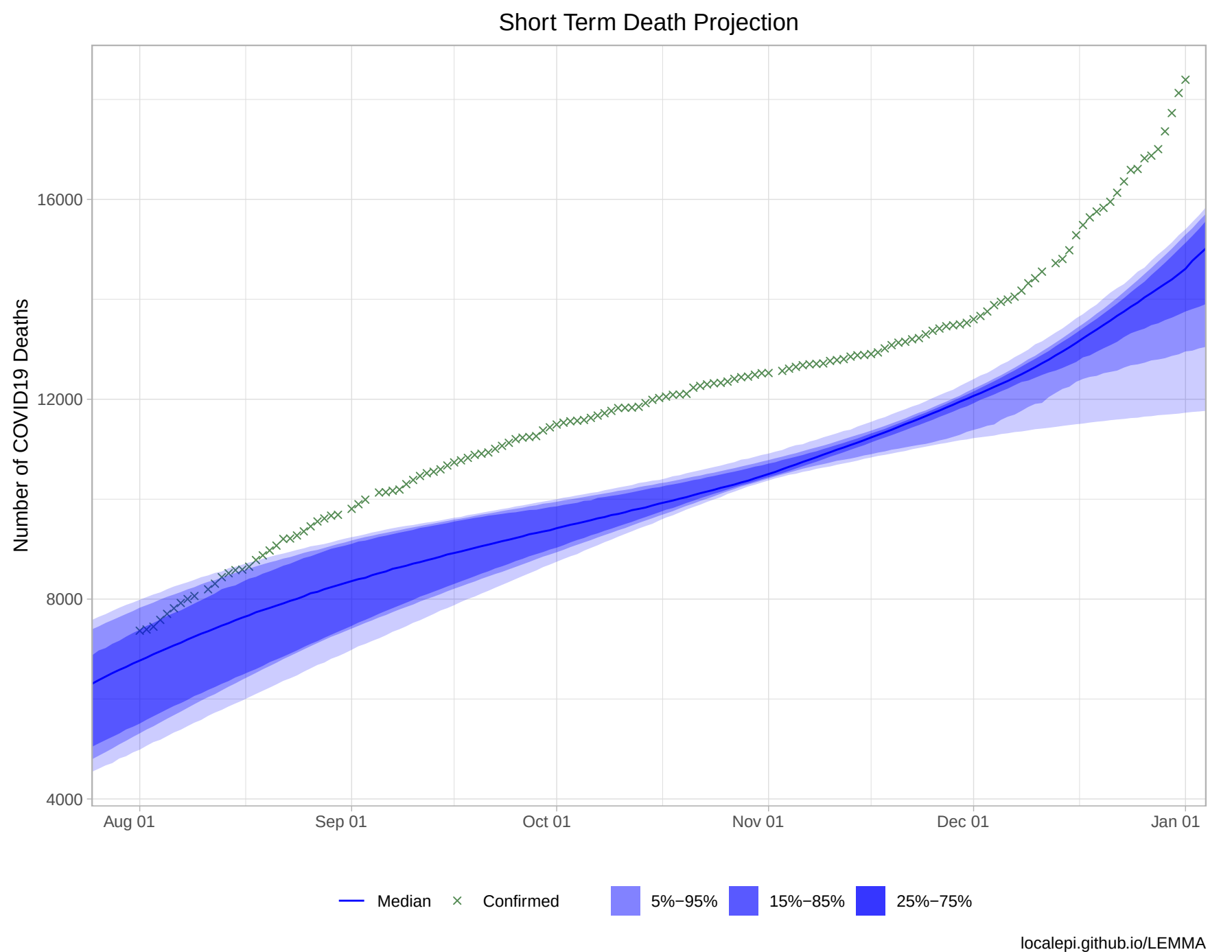
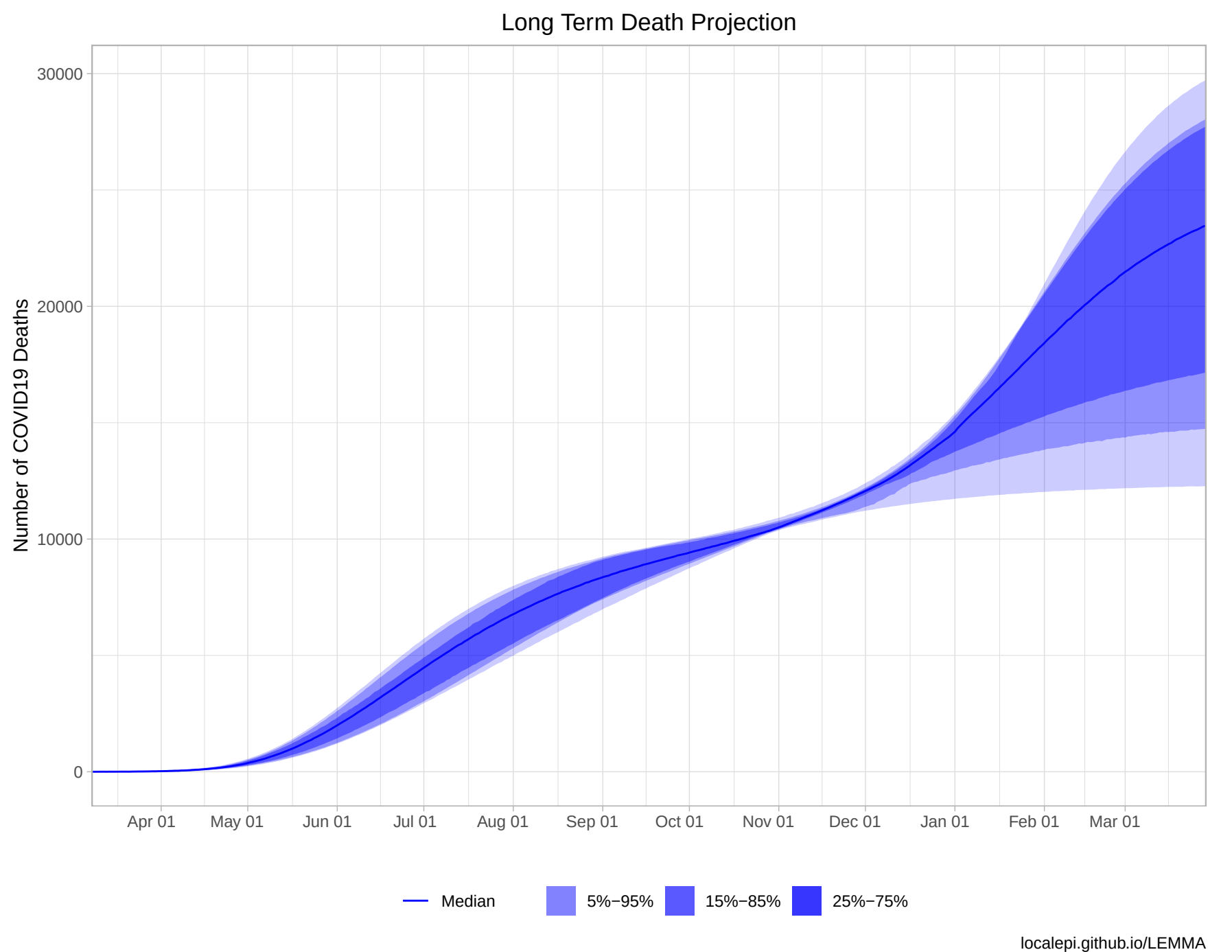

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
15000
10000
5000
0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

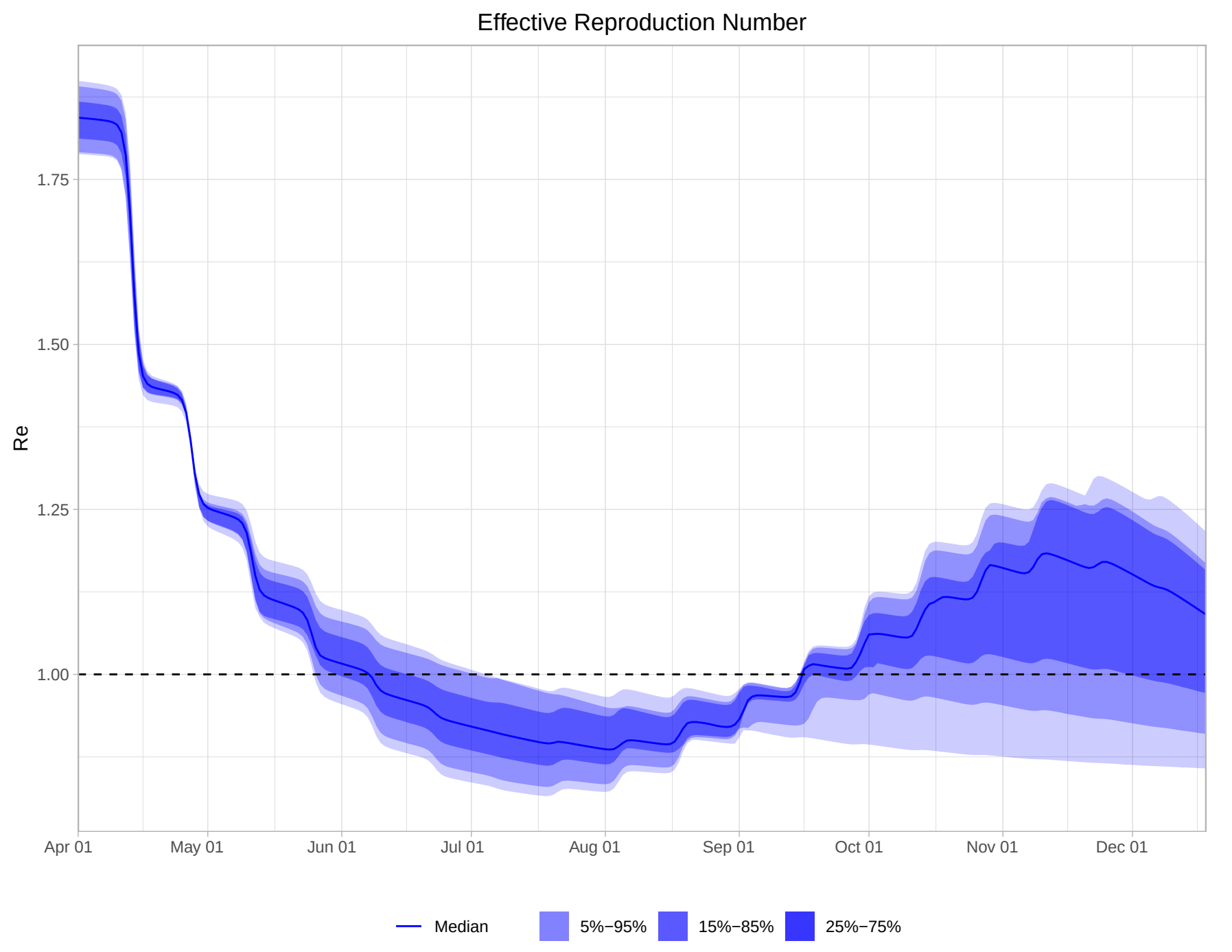

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
20000
15000
10000
5000
0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


Short Term ICU Projection
Number of COVID19 Patients in ICU
4000
3000
2000
1000
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
6000
4000
2000
0
Apr 01
May 01
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

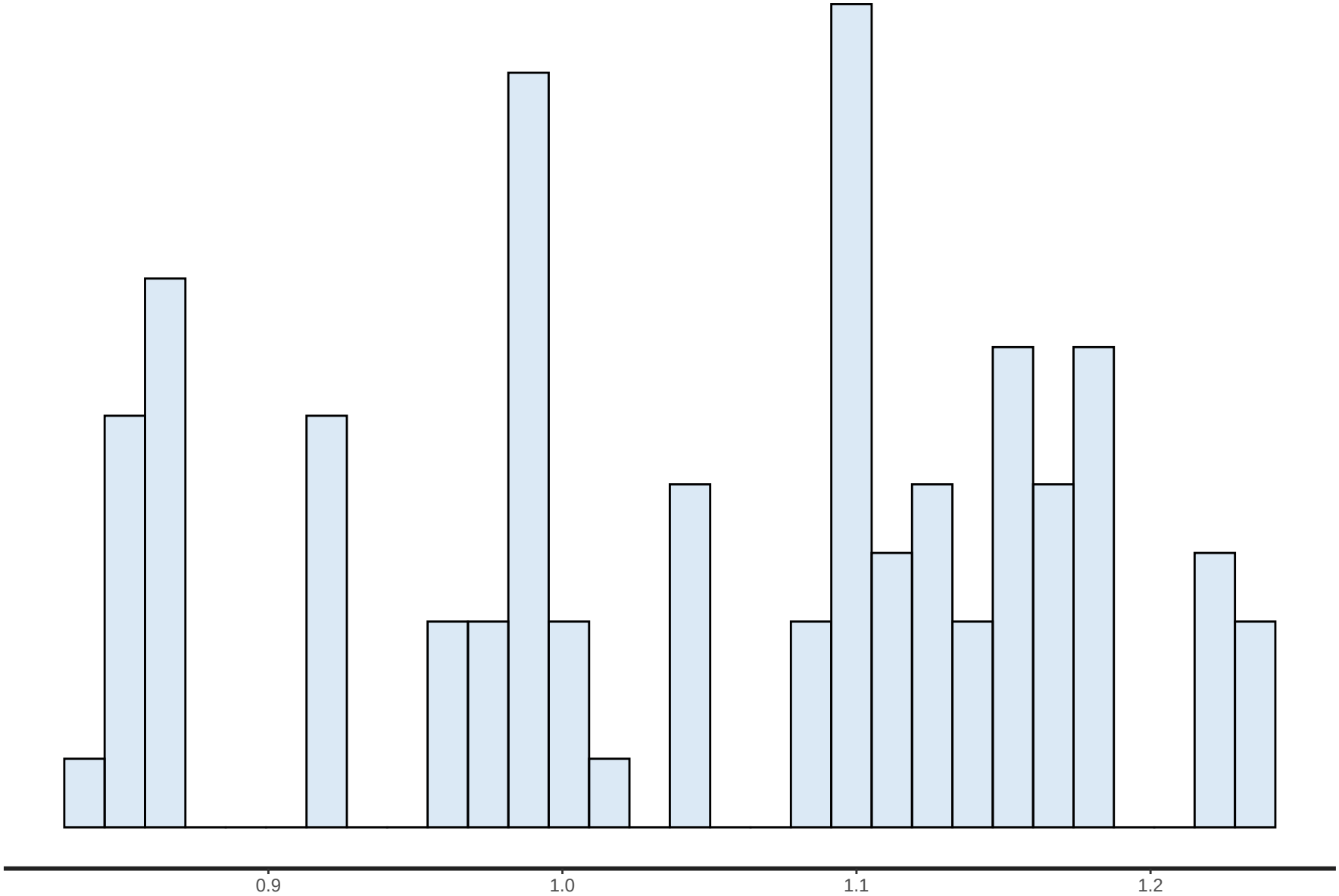

Short Term Death Projection
Number of COVID19 Deaths
16000
12000
8000
4000
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

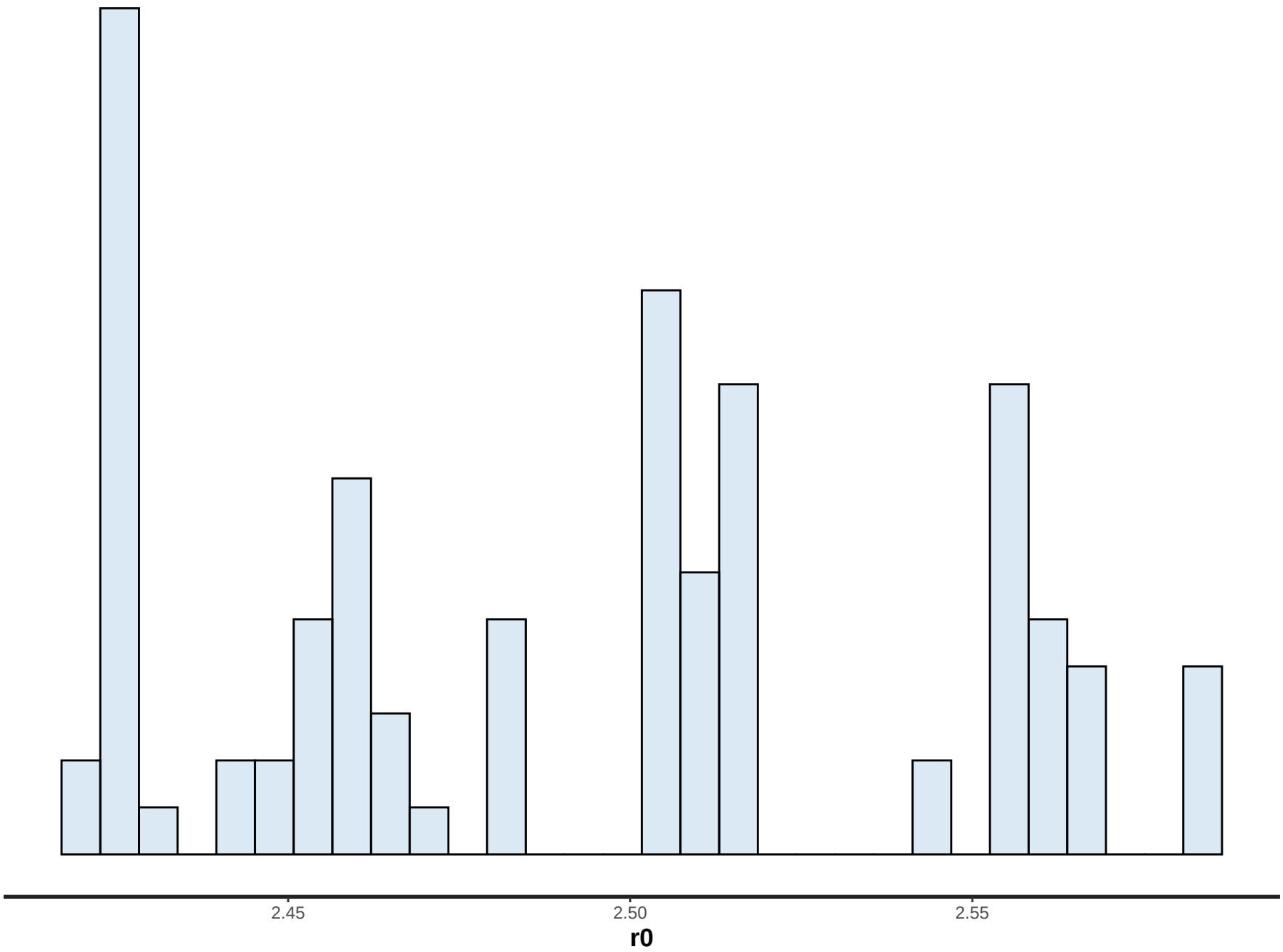

Long Term Death Projection
Number of COVID19 Deaths
30000
20000
10000
0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

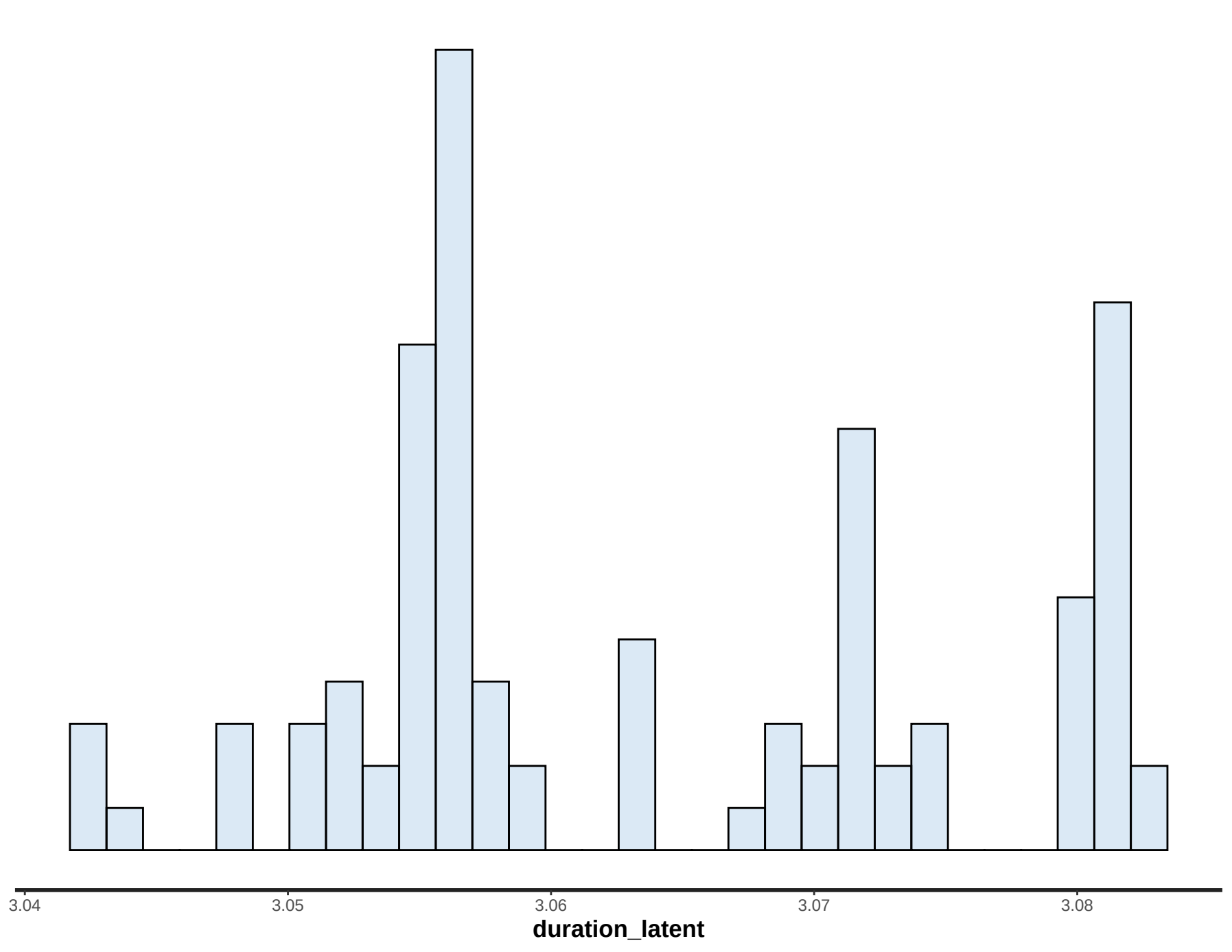

Effective Reproduction Number
Re
1.75
1.50
1.25
1.00
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
5%−95%
15%−85%
25%−75%

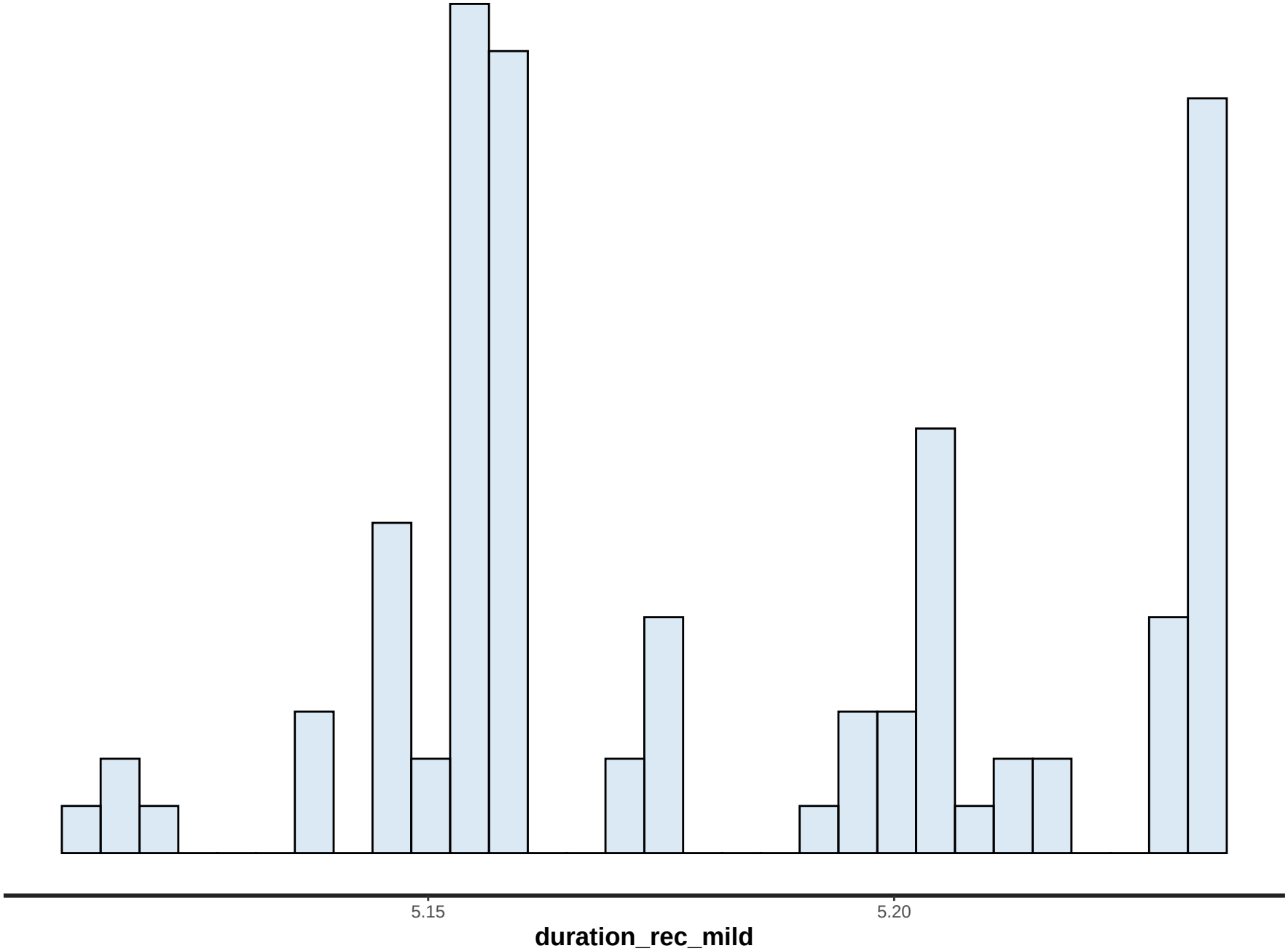
Rt as of 2020−12−18

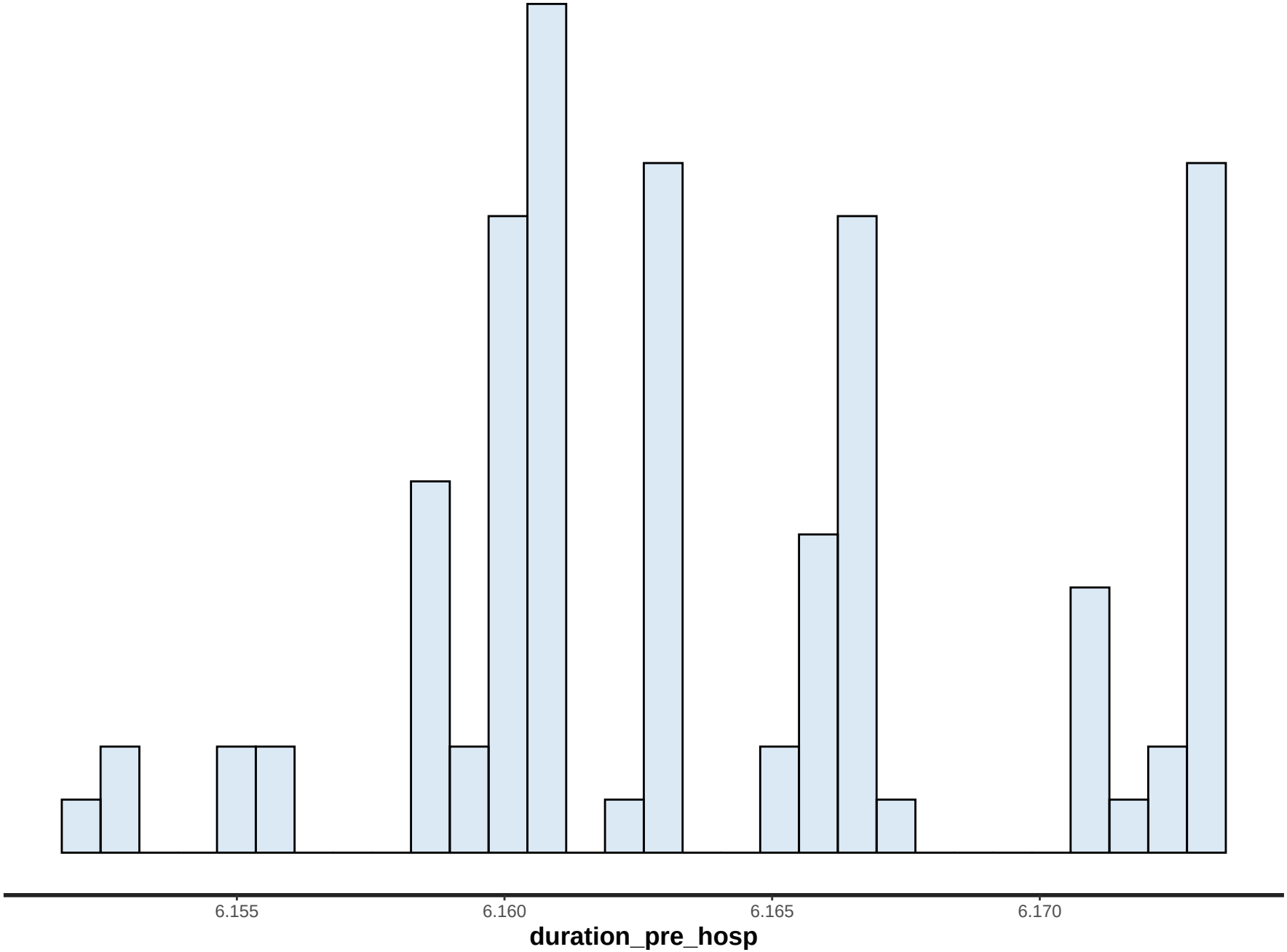
5%	10%	25%	50%	75%	90%	95%
0.86	0.86	0.97	1.09	1.16	1.18	1.22

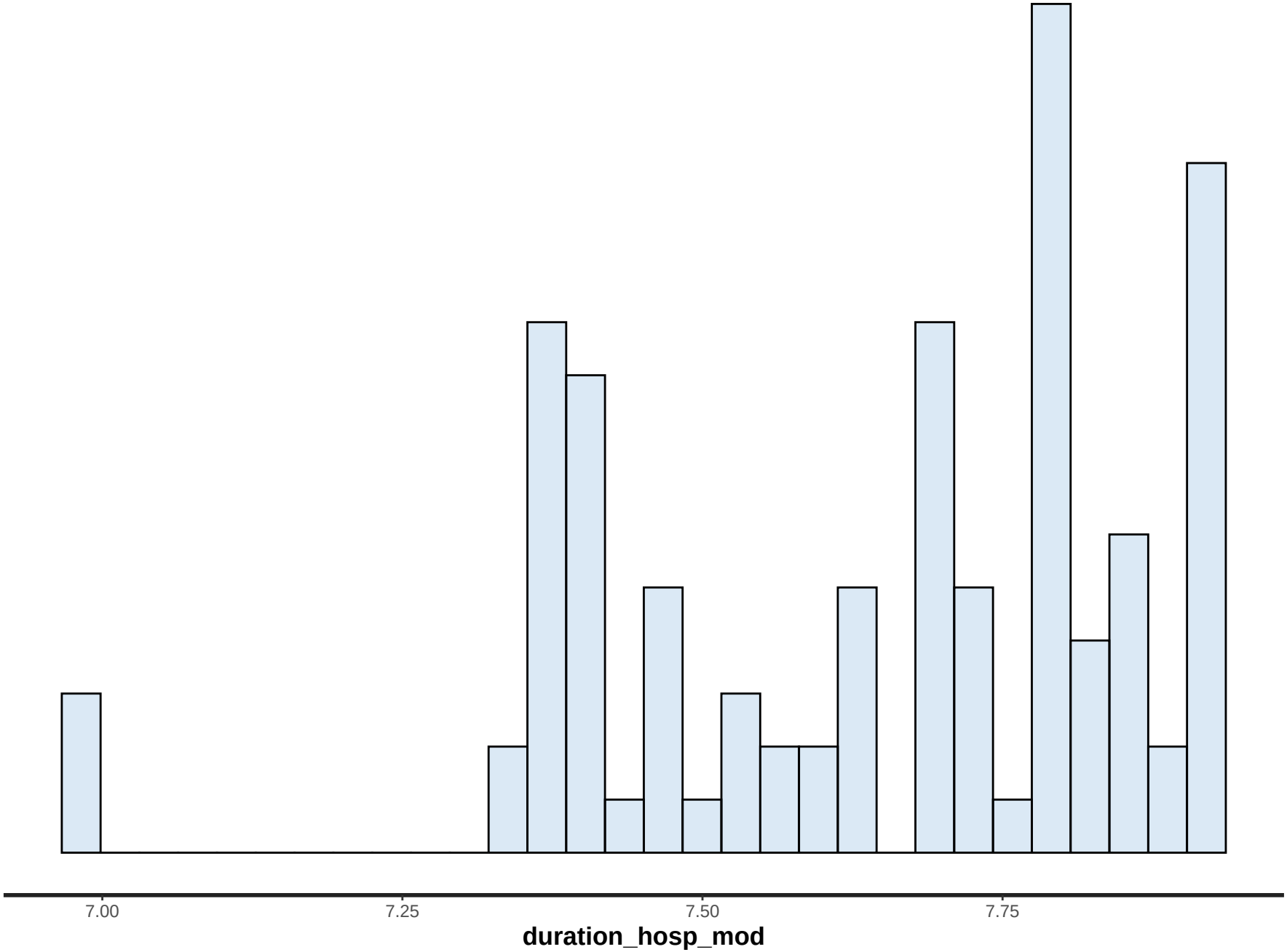


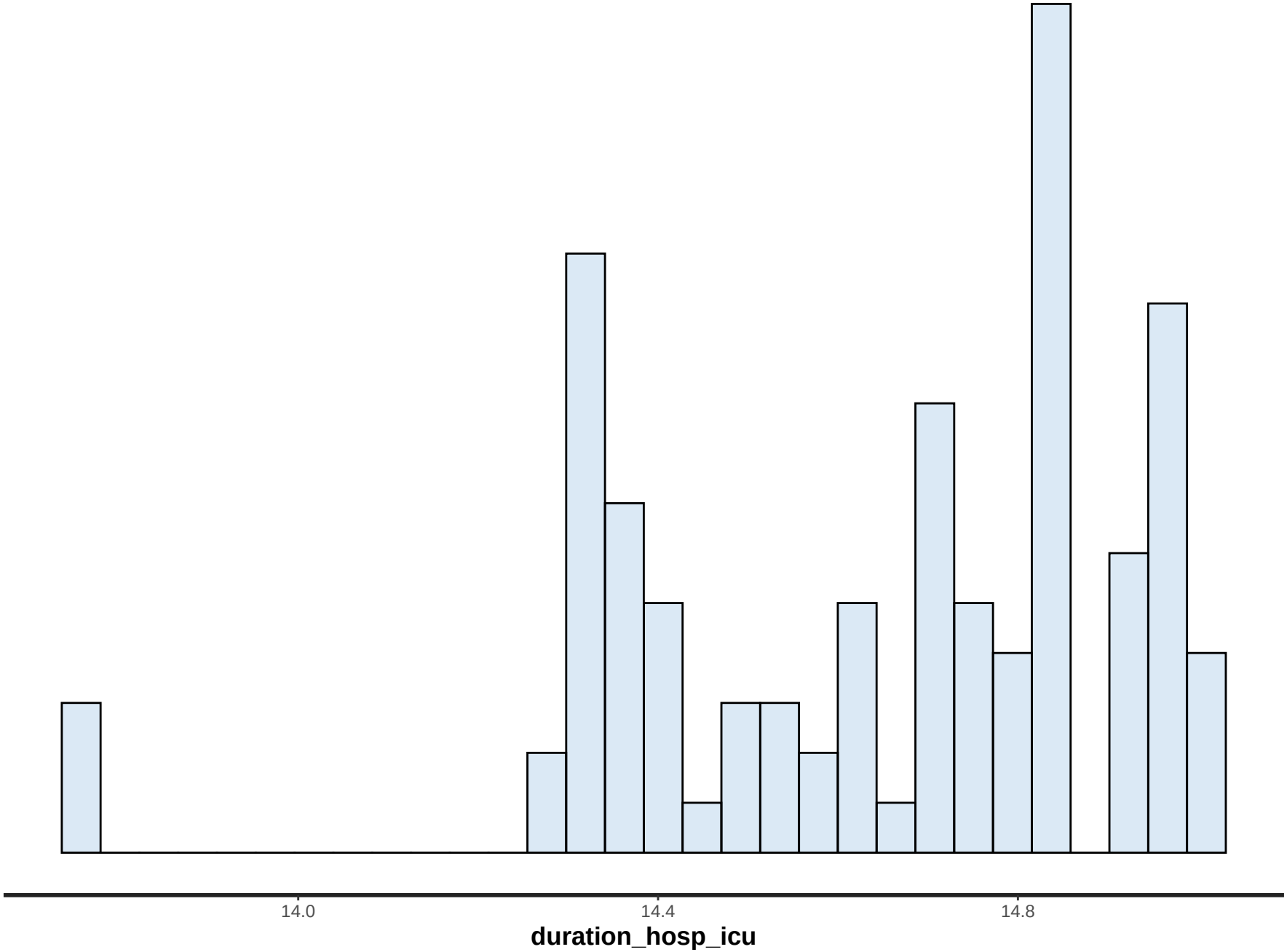

2.45
2.50
2.55
r0

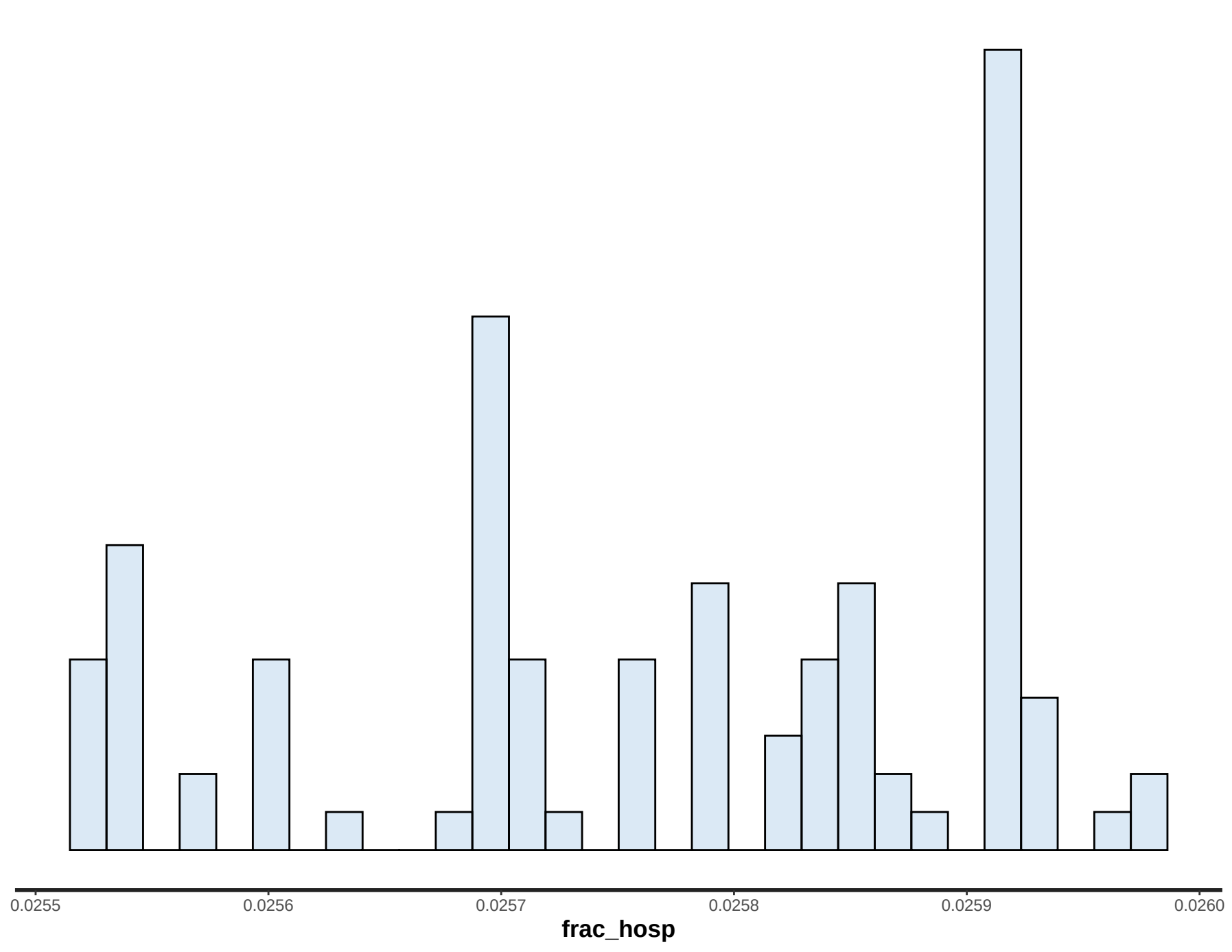

3.04
3.05
3.06
3.07
3.08
duration_latent


5.15
5.20
duration_rec_mild


6.155
6.160
6.165
6.170
duration_pre_hosp


7.00
7.25
7.50
7.75
duration_hosp_mod


14.0
14.4
14.8
duration_hosp_icu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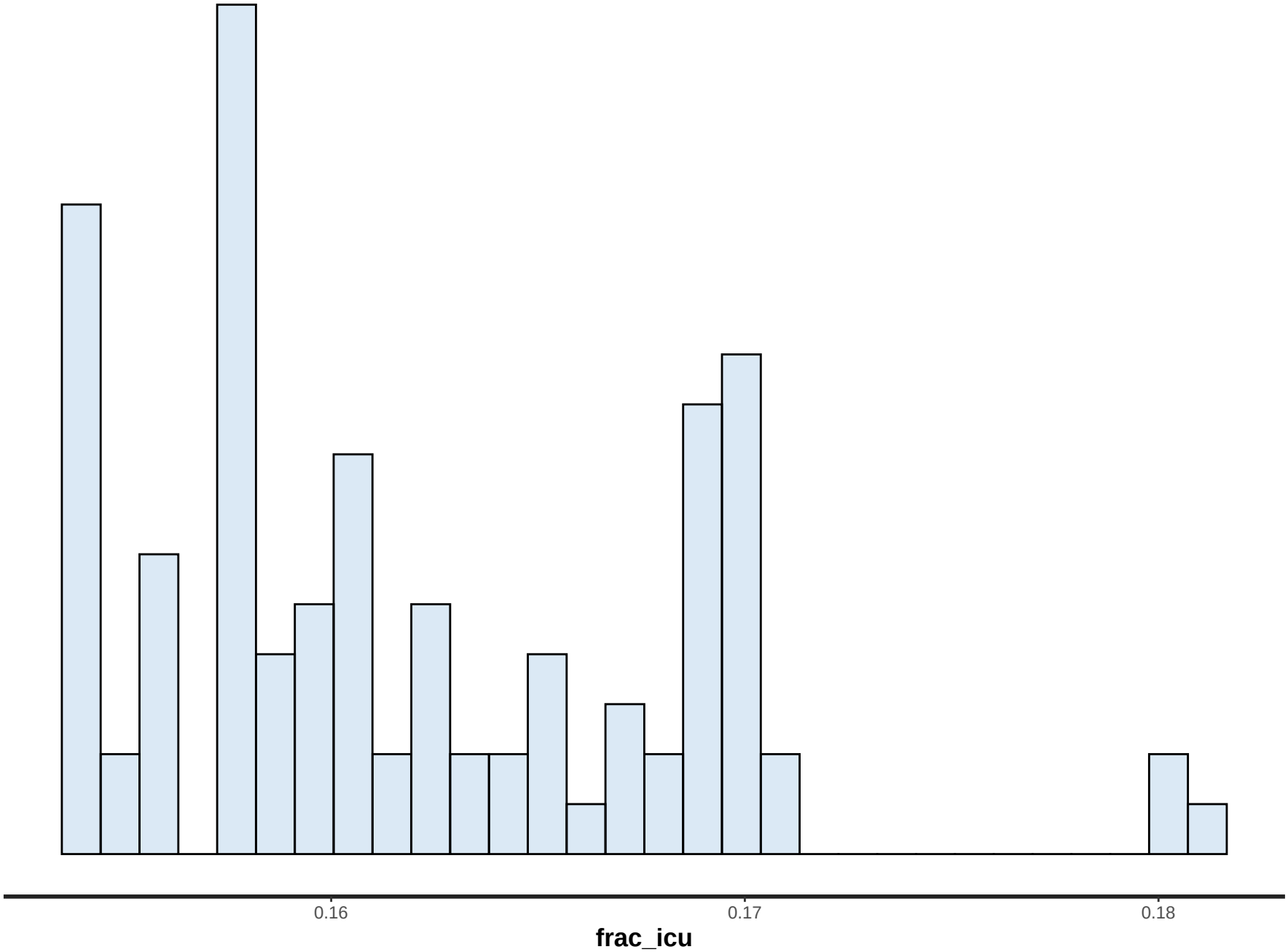
0.0256
0.0257
0.0258
0.0259
0.0260
frac_hosp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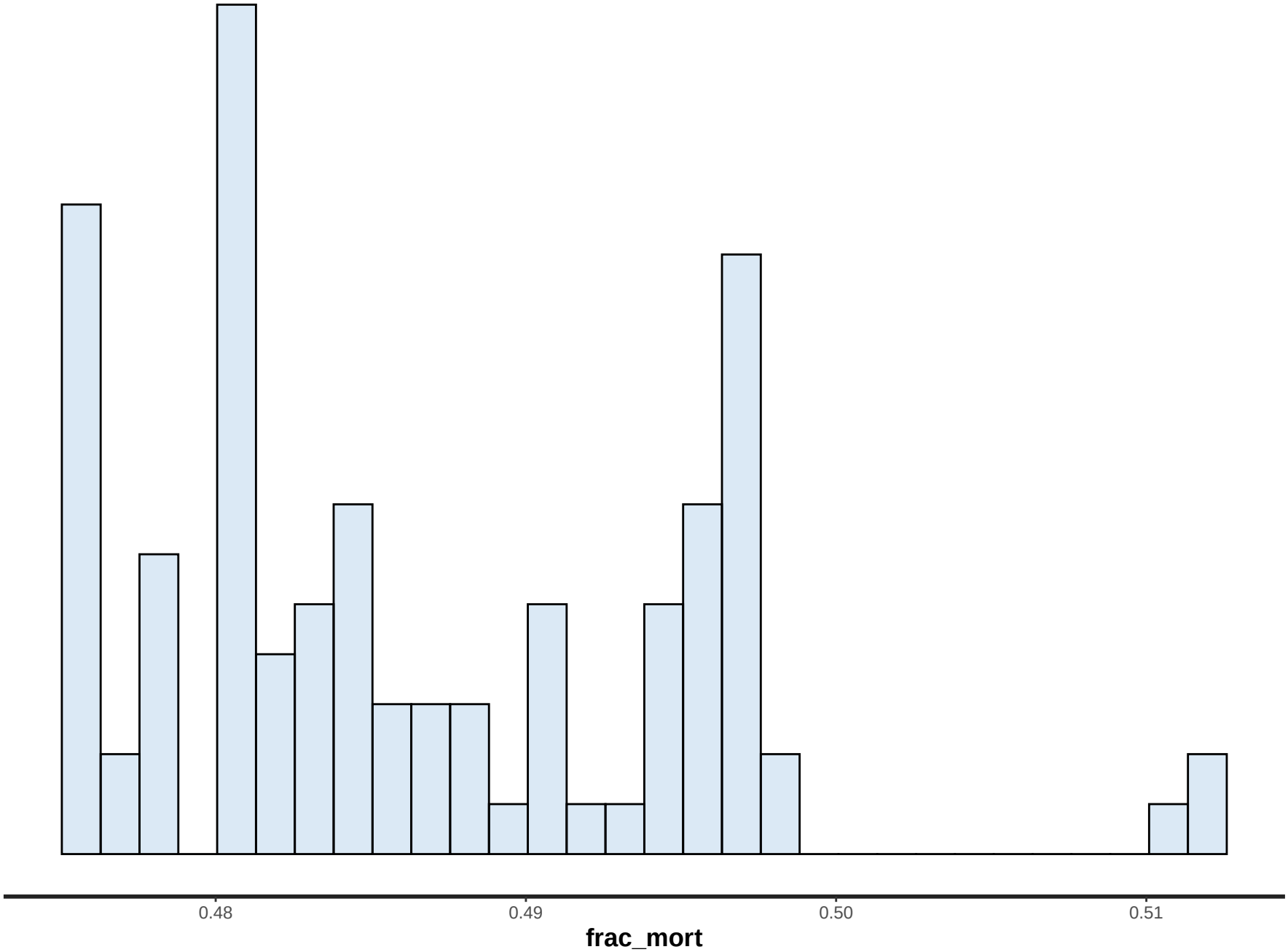
0.17
0.18
frac_icu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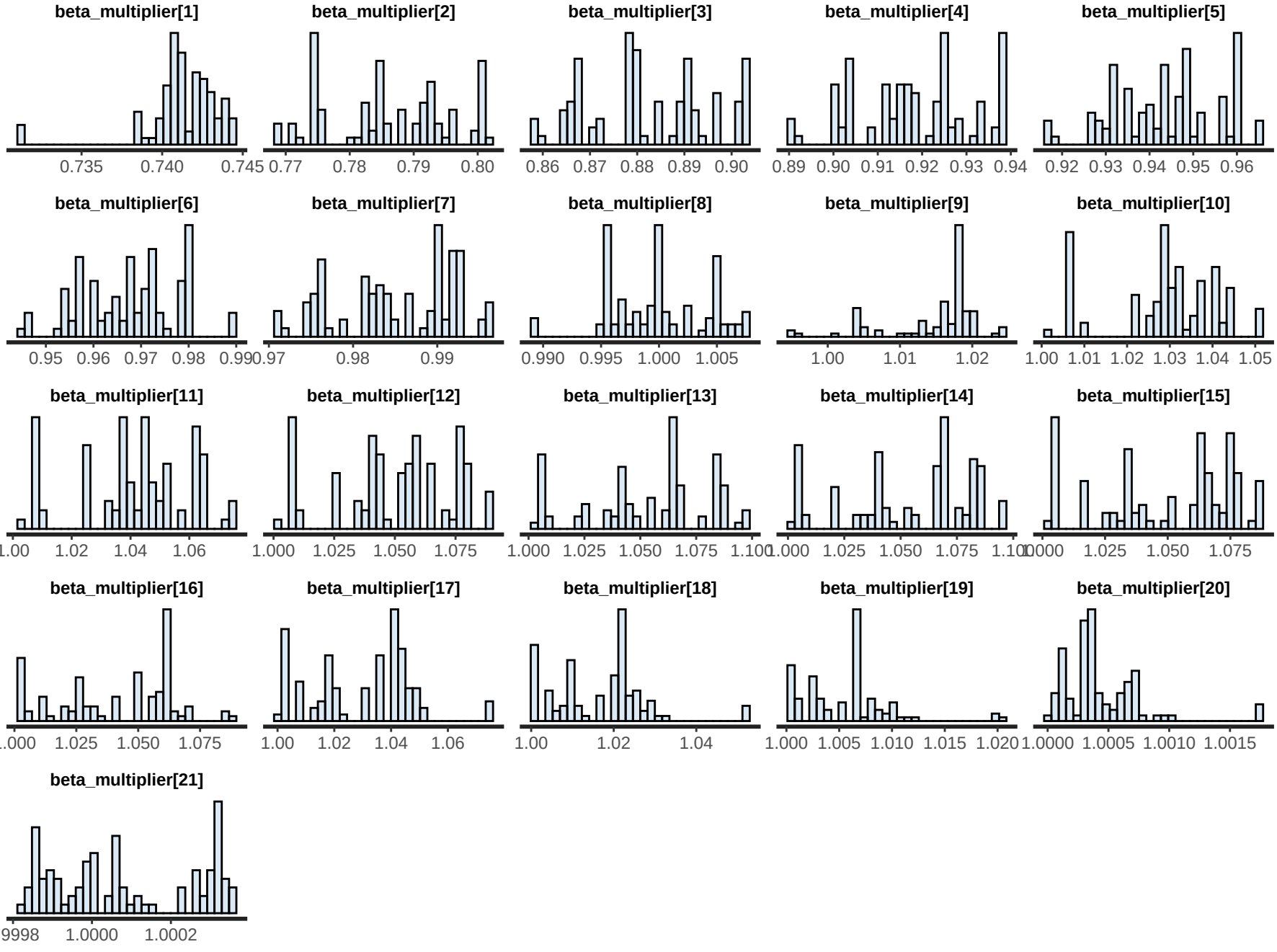
0.49
0.50
0.51
frac_mort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beta_multiplier[2]
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beta_multiplier[3]
0.86 0.87 0.88 0.89 0.90
beta_multiplier[4]
0.89 0.90 0.91 0.92 0.93 0.94
beta_multiplier[5]
0.92 0.93 0.94 0.95 0.96
beta_multiplier[6]
0.95 0.96 0.97 0.98 0.99
beta_multiplier[7]
0.97 0.98 0.99
beta_multiplier[8]
0.990 0.995 1.000 1.005
beta_multiplier[9]
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beta_multiplier[10]
1.00 1.01 1.02 1.03 1.04 1.05
beta_multiplier[11]
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beta_multiplier[12]
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beta_multiplier[13]
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beta_multiplier[15]
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beta_multiplier[16]
1.000 1.025 1.050 1.075
beta_multiplier[17]
1.00 1.02 1.04 1.06
beta_multiplier[18]
1.00 1.02 1.04
beta_multiplier[19]
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beta_multiplier[21]
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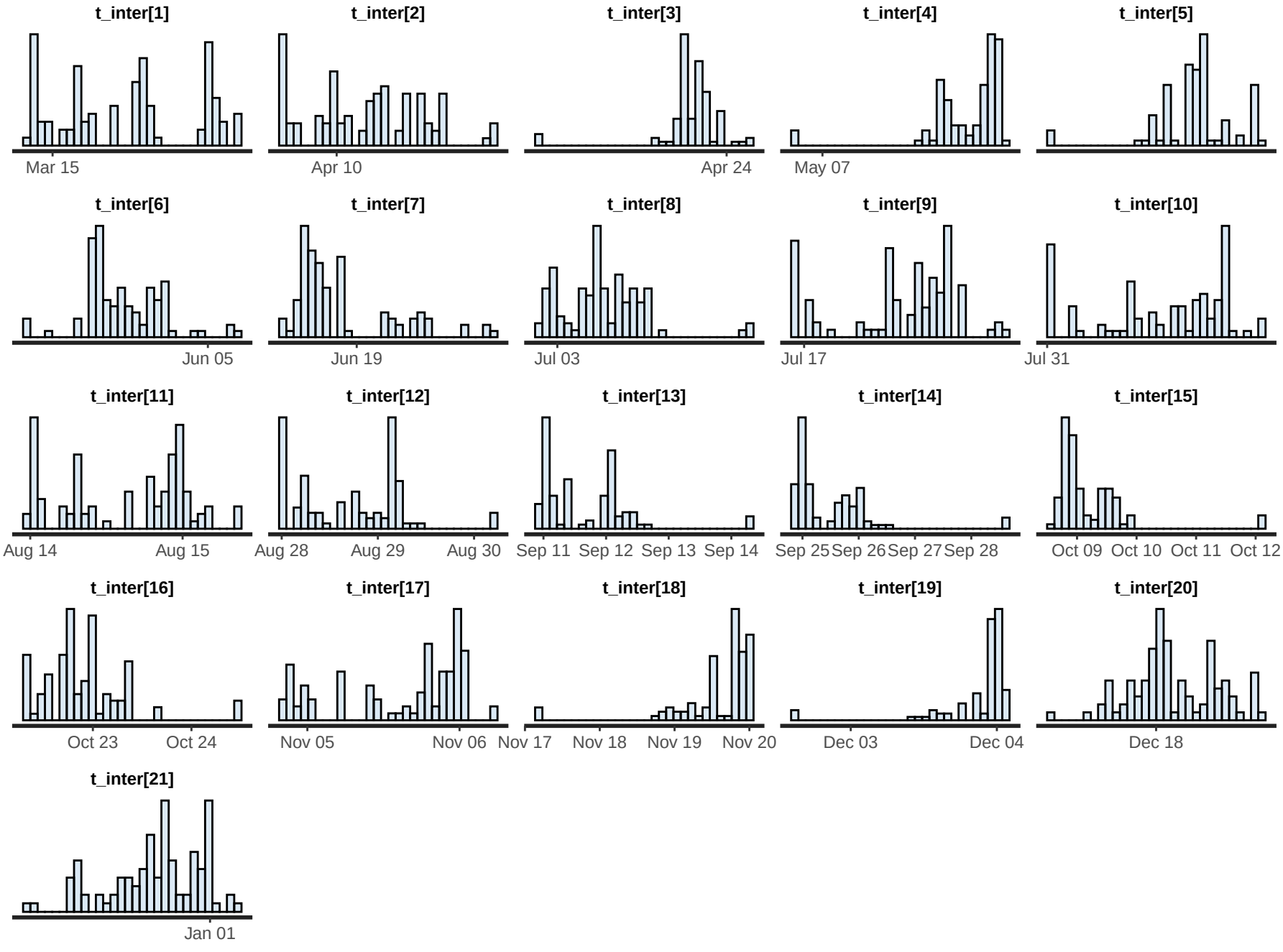
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Mar 15
t_inter[2]
Apr 10
t_inter[3]
Apr 24
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May 07
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t_inter[6]
Jun 05
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Jun 19
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Jul 03
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Jul 31
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Aug 14
Aug 15
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Nov 06
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Nov 20
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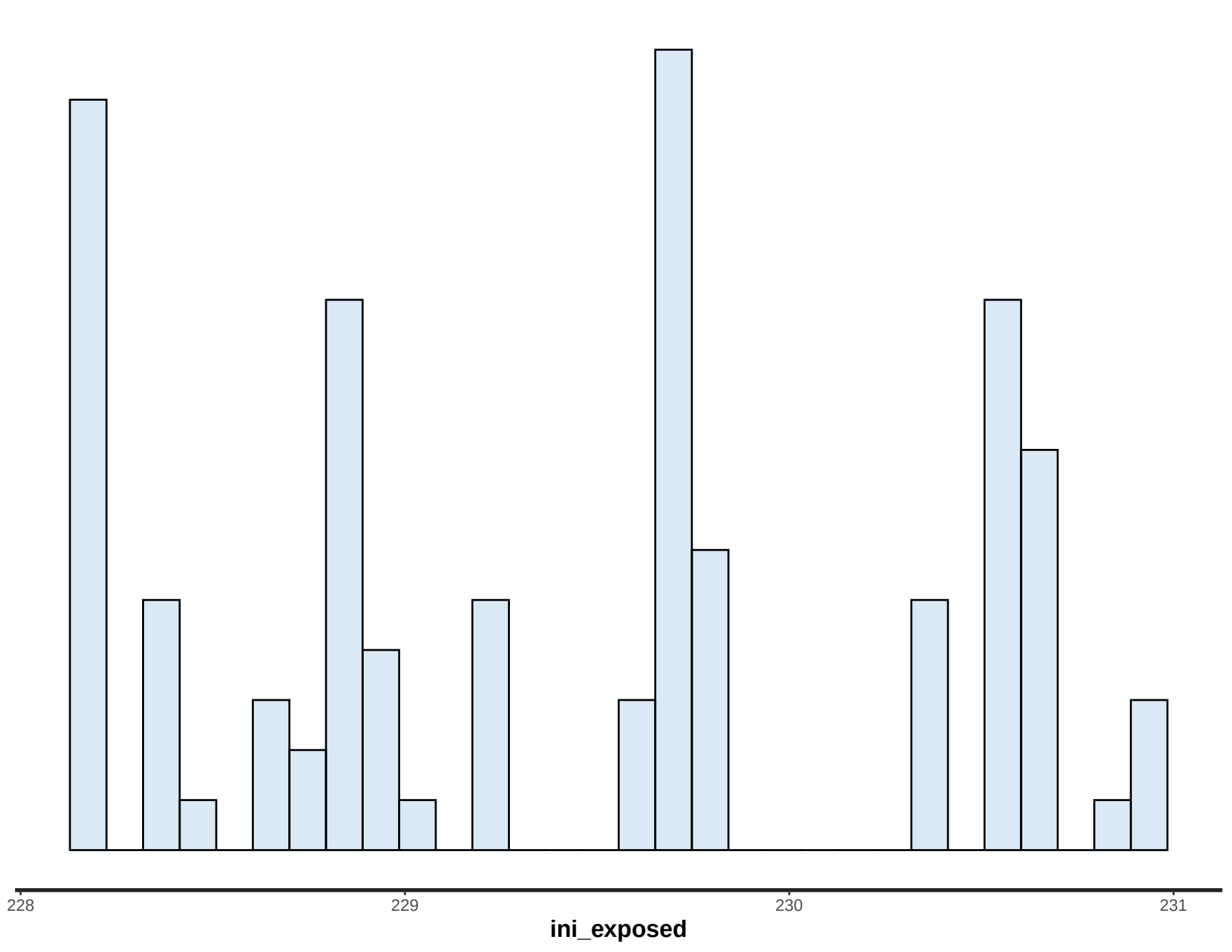
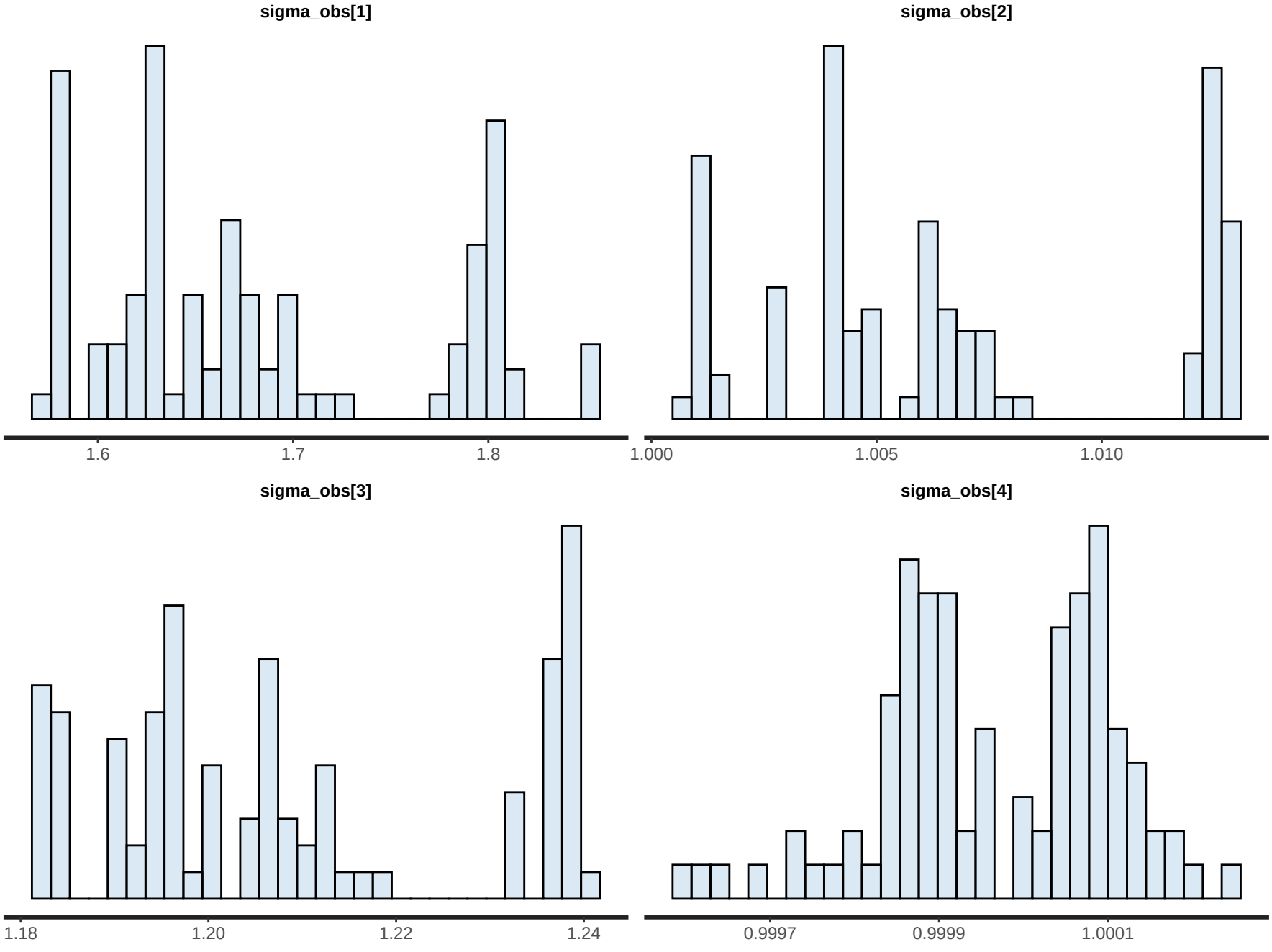
Dec 03
Dec 04
t_inter[20]
Dec 18
t_inter[21]
Jan 01


228
229
230
231
ini_exposed


sigma_obs[1]
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1.7
1.8
sigma_obs[2]
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1.005
1.010
sigma_obs[3]
1.18
1.20
1.22
1.24
sigma_obs[4]
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0.9999
1.0001