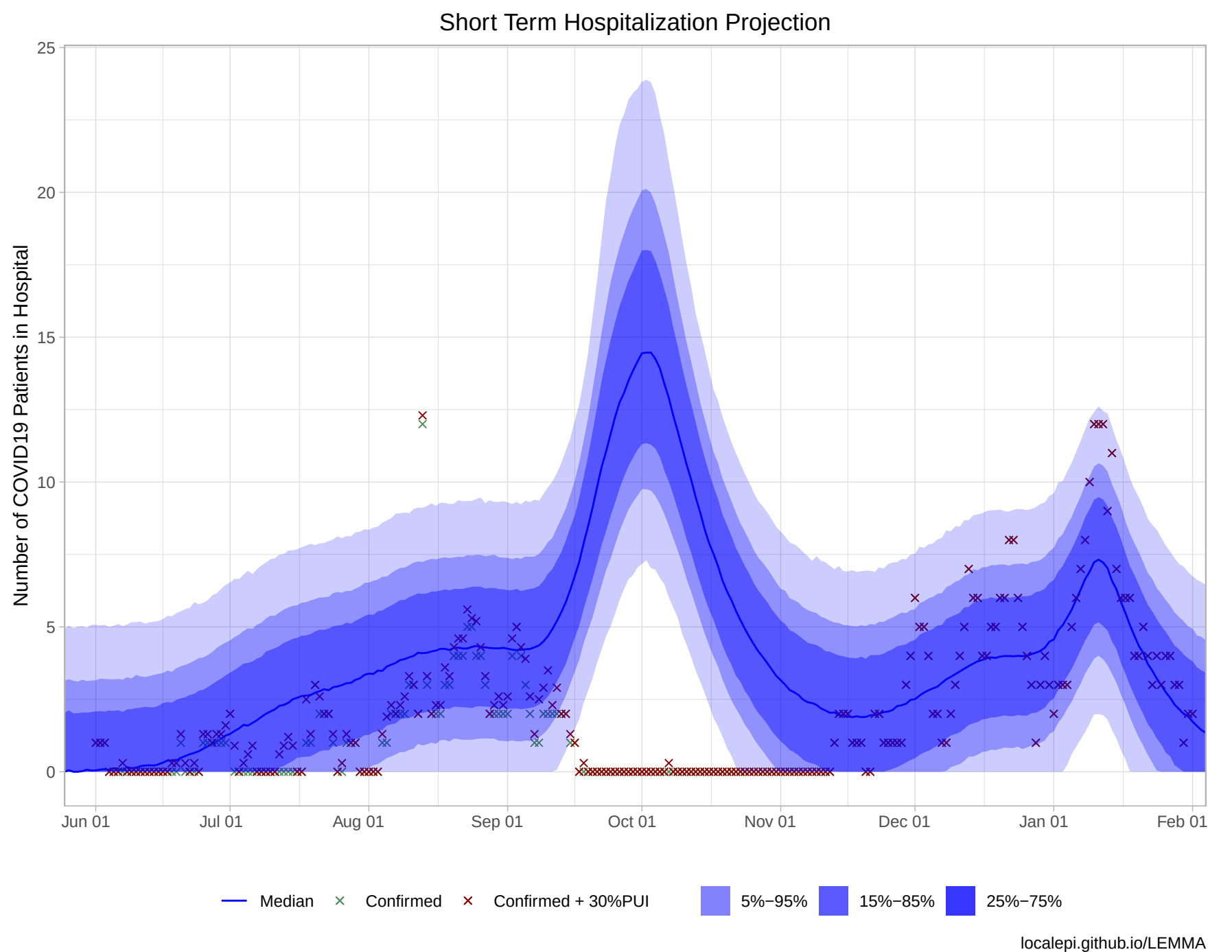
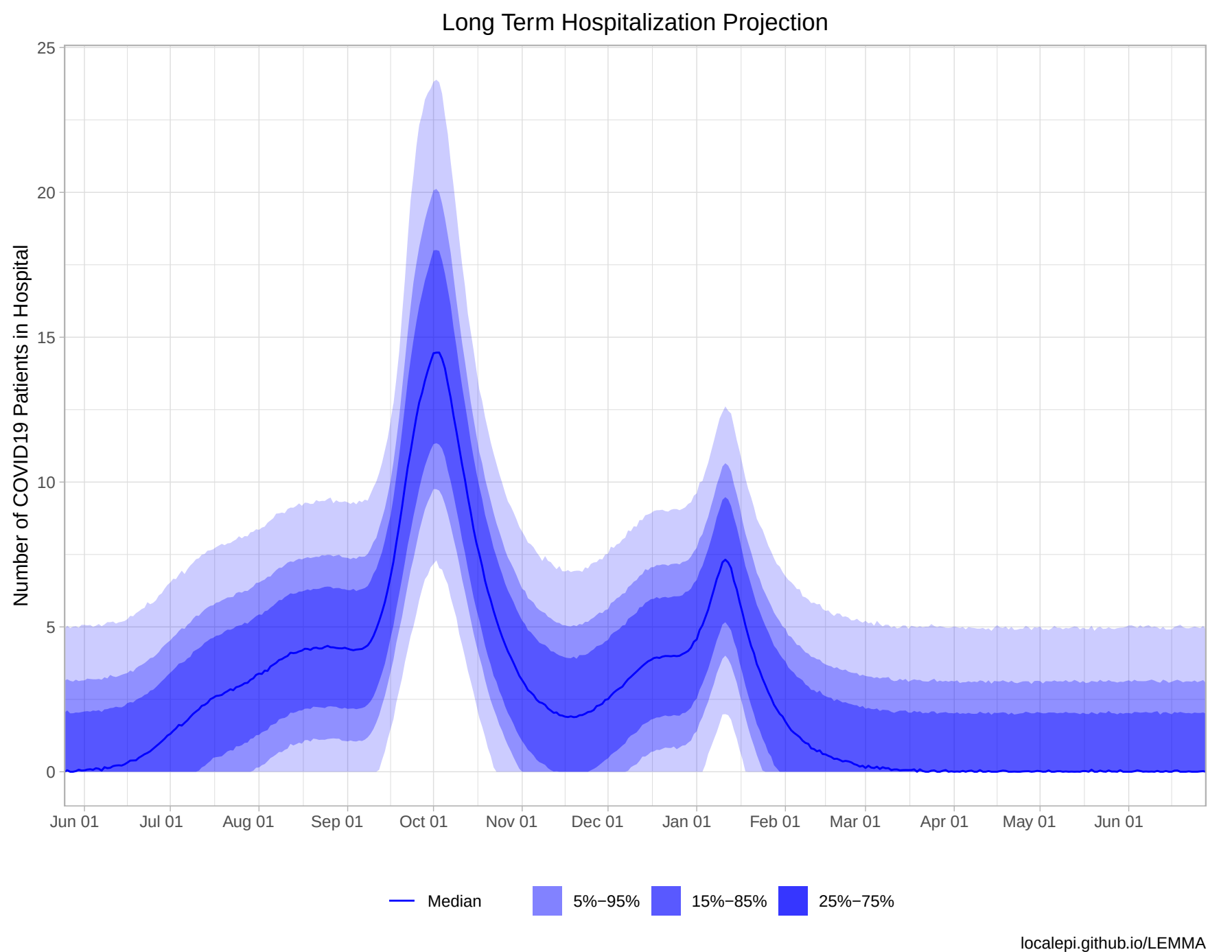
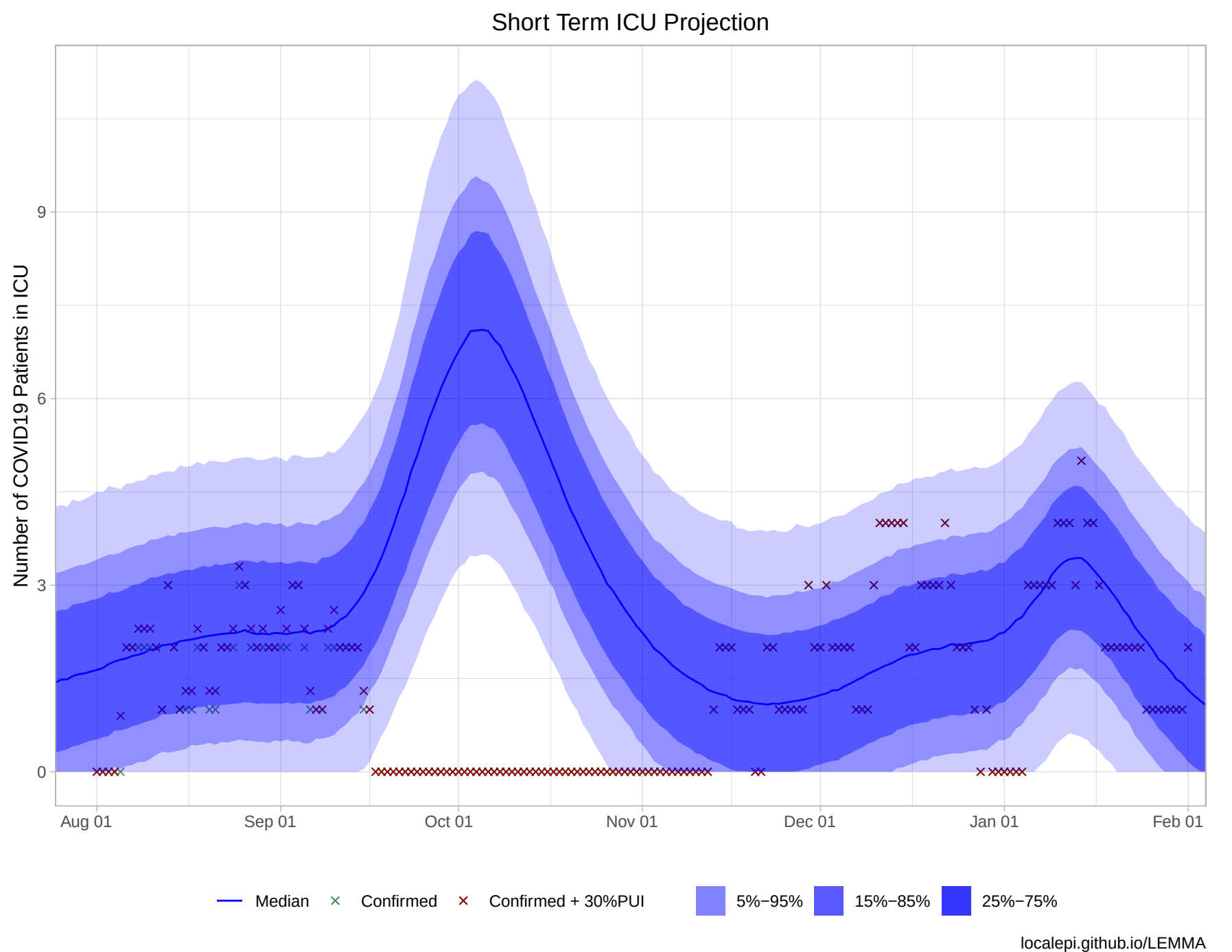
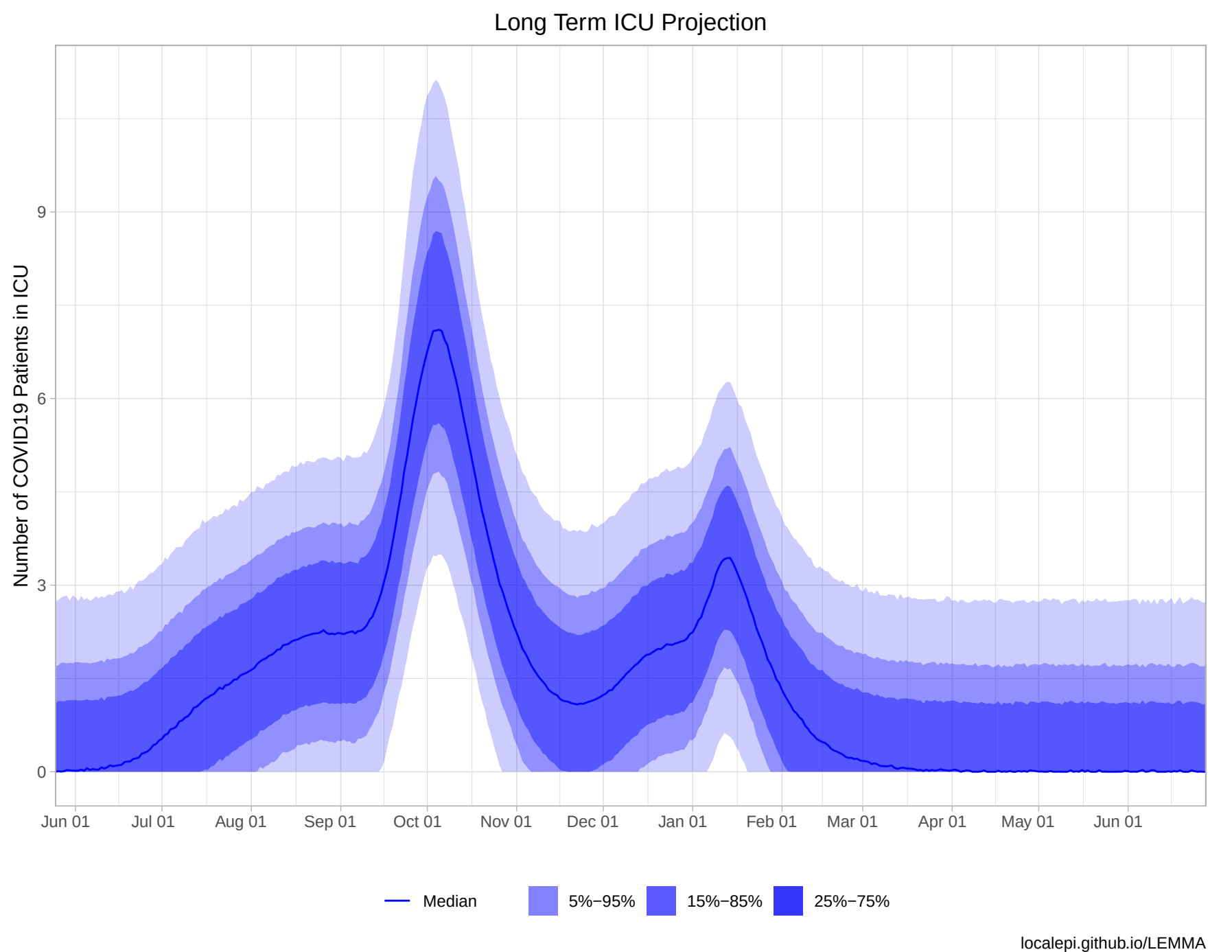
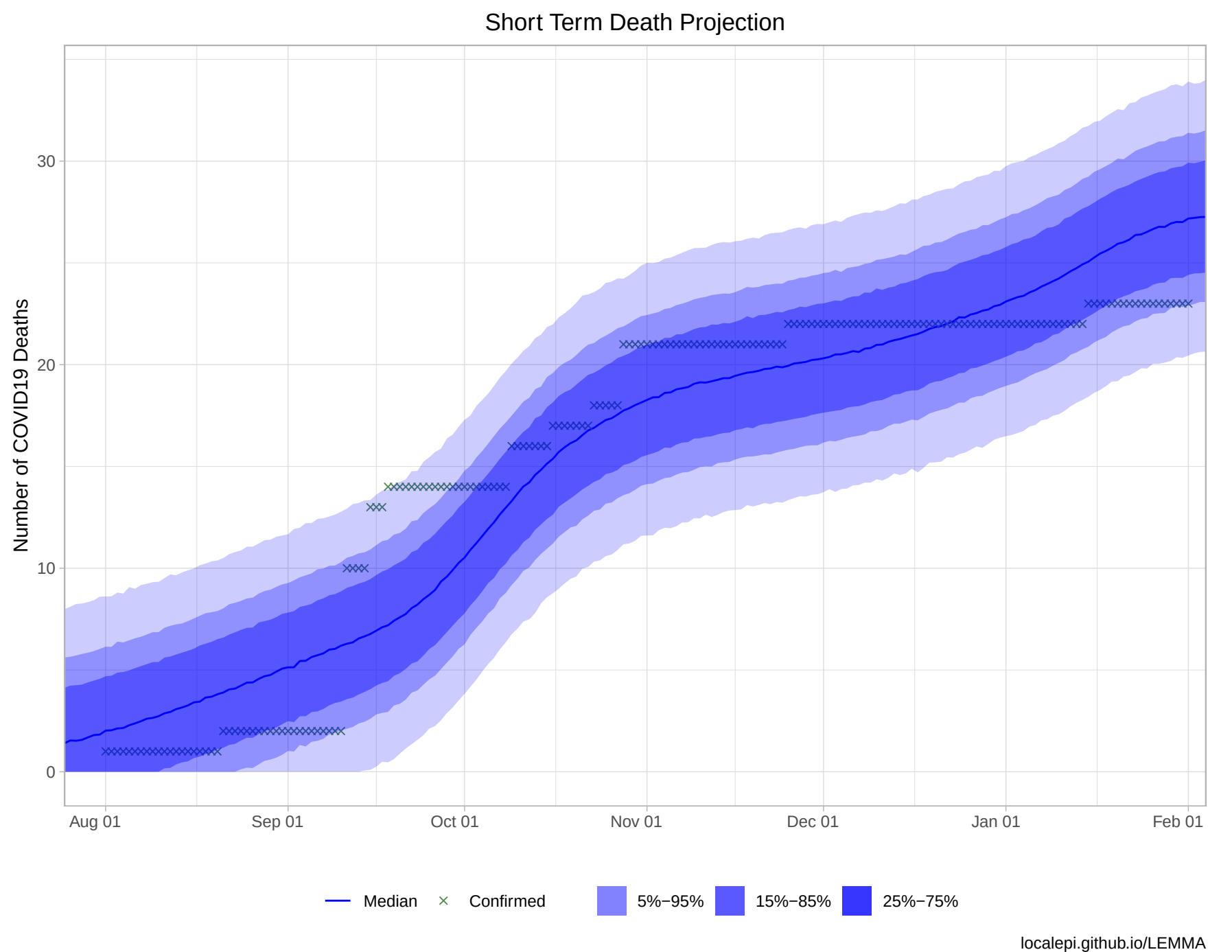
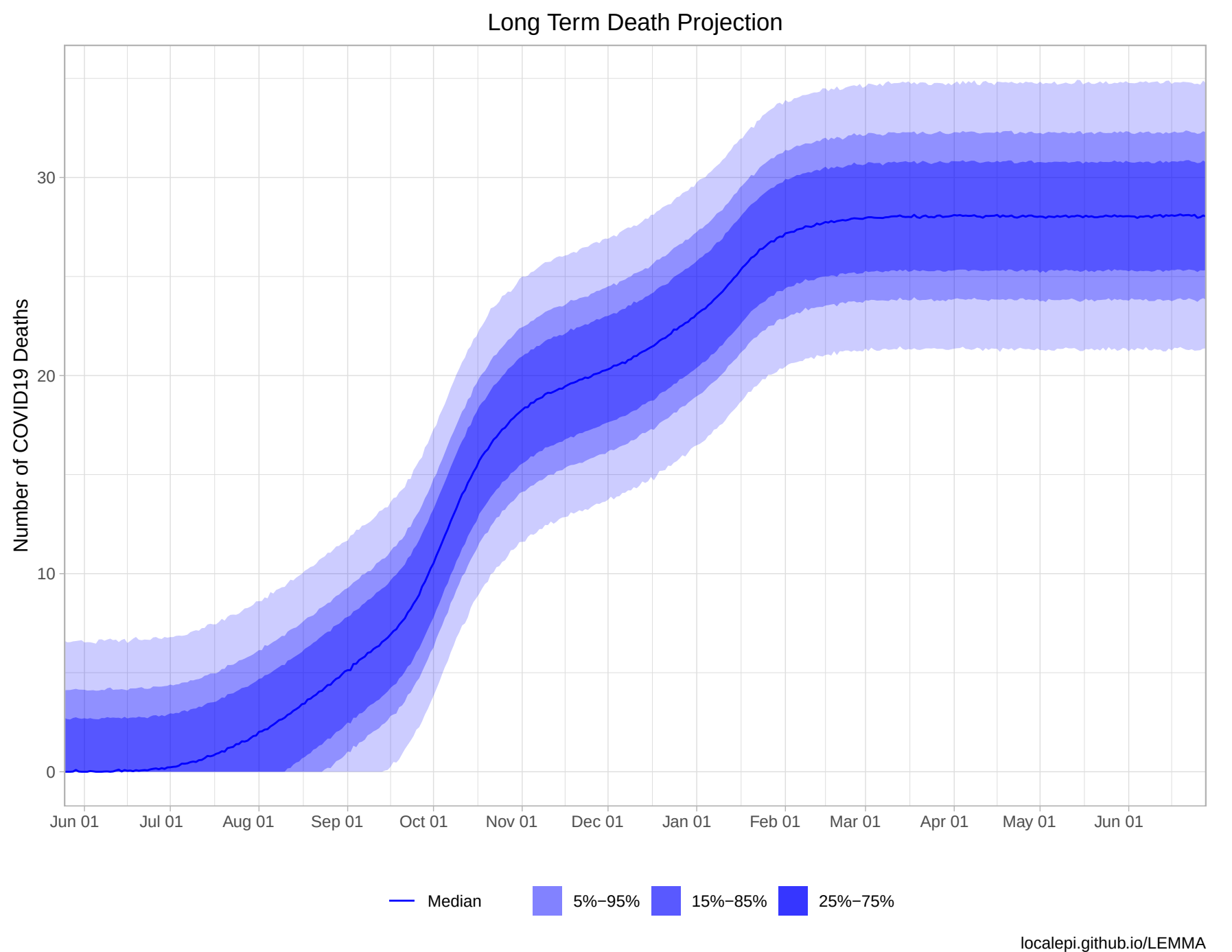

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
25
20
15
10
5
0
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

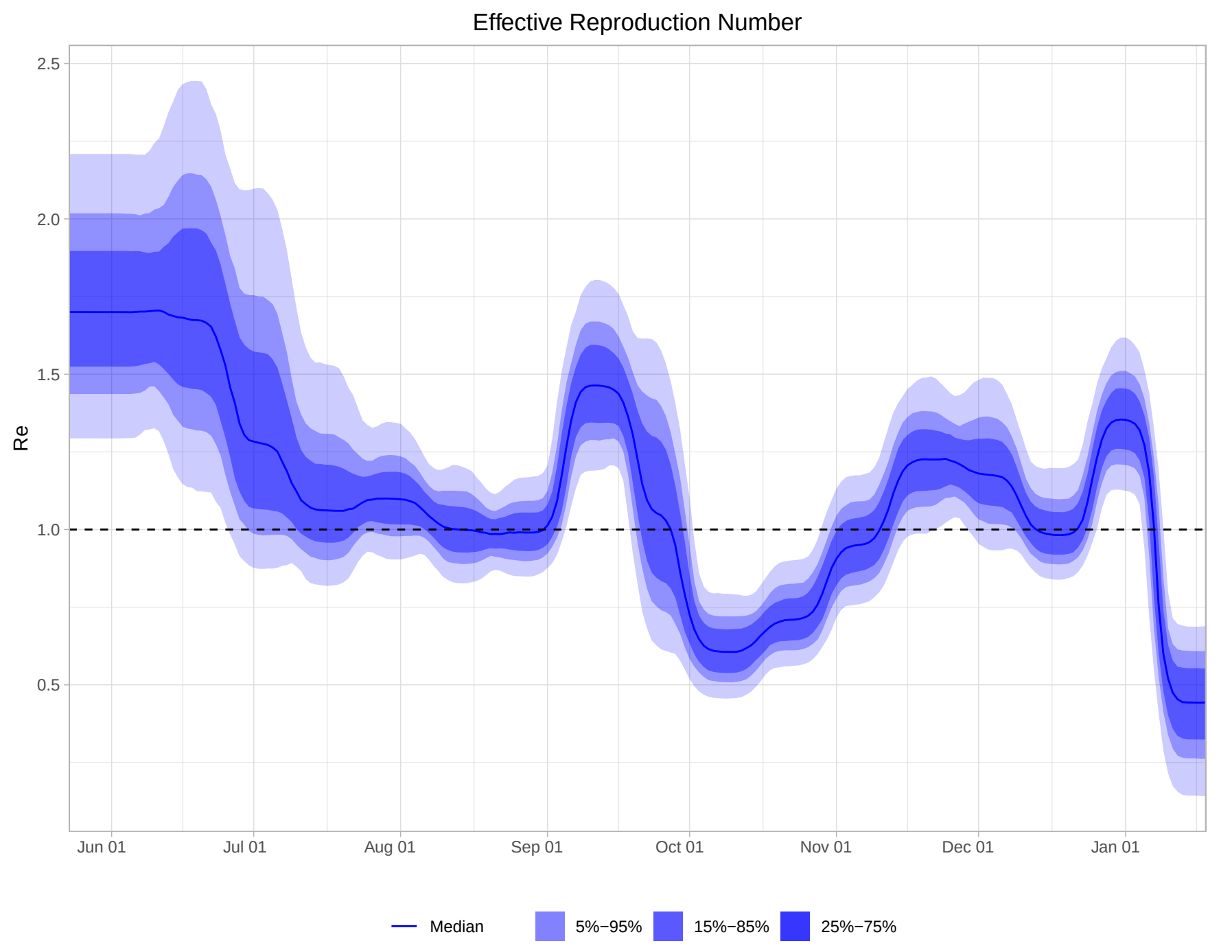

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
25
20
15
10
5
0
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Apr 01
May 01
Jun 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


Short Term ICU Projection
Number of COVID19 Patients in ICU
0
3
6
9
Aug 01
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
3
6
9
Jun 01
Jul 01
Aug 01
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

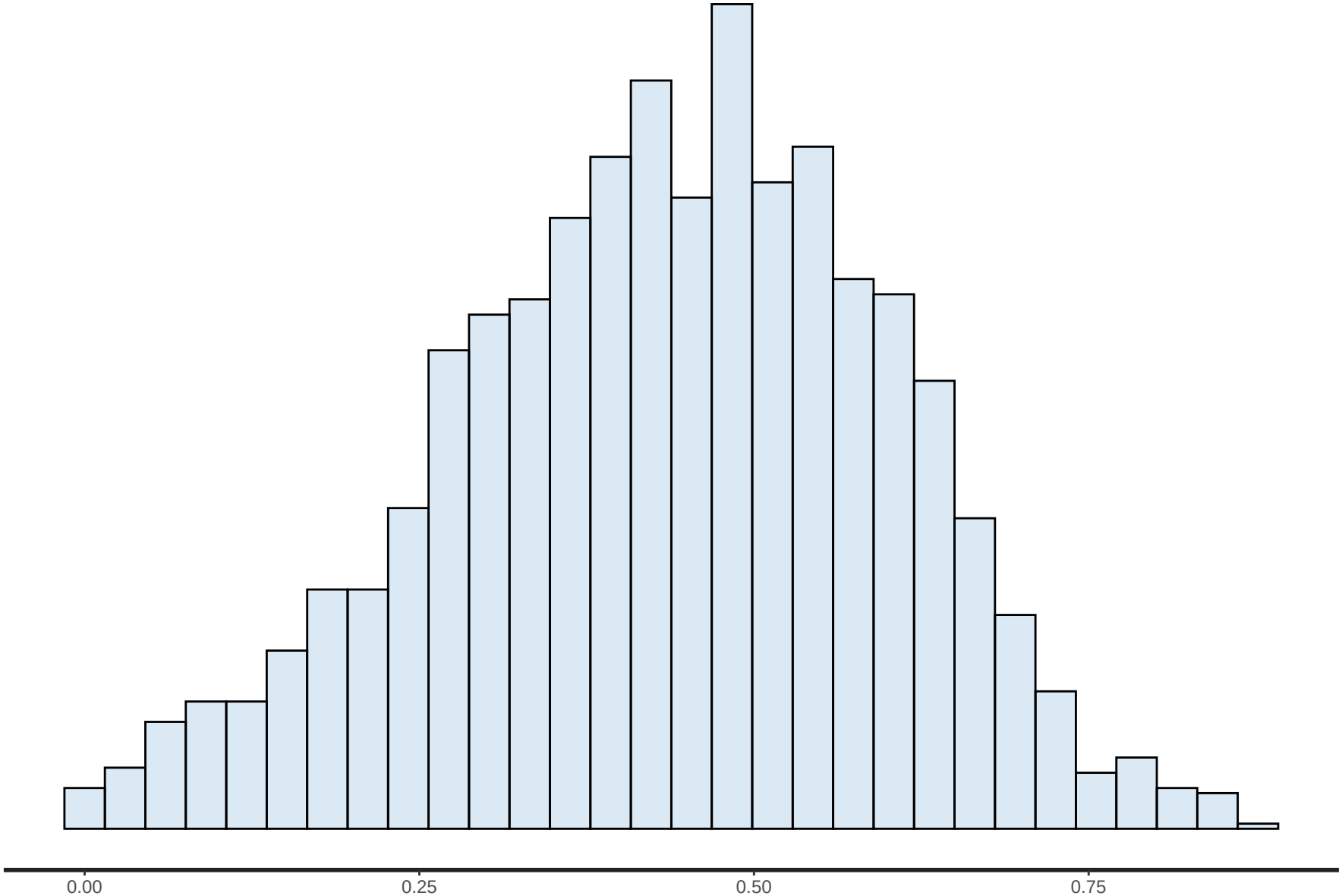

Short Term Death Projection
Number of COVID19 Deaths
0
10
20
30
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

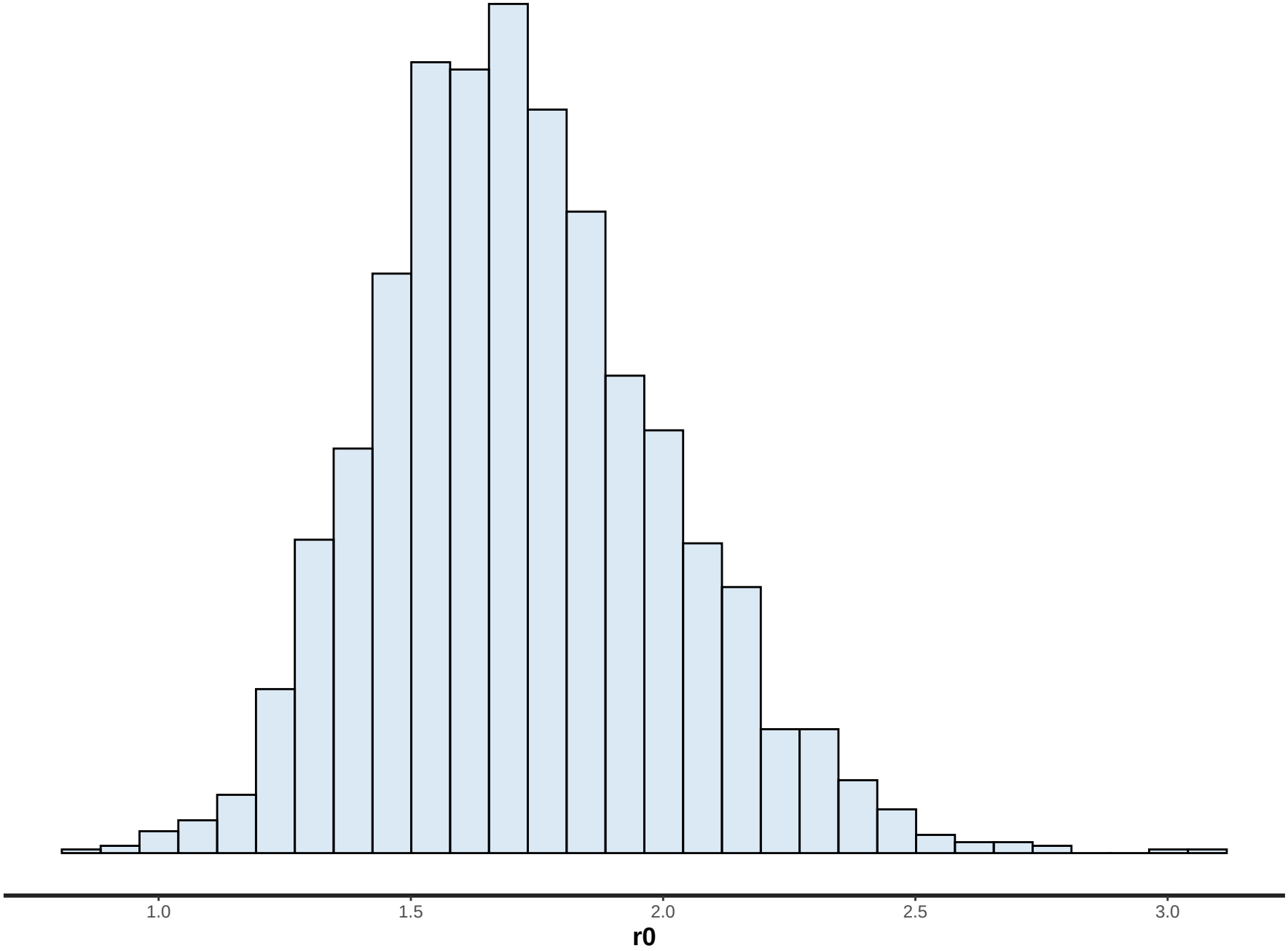

Long Term Death Projection
Number of COVID19 Deaths
0
10
20
30
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Apr 01
May 01
Jun 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

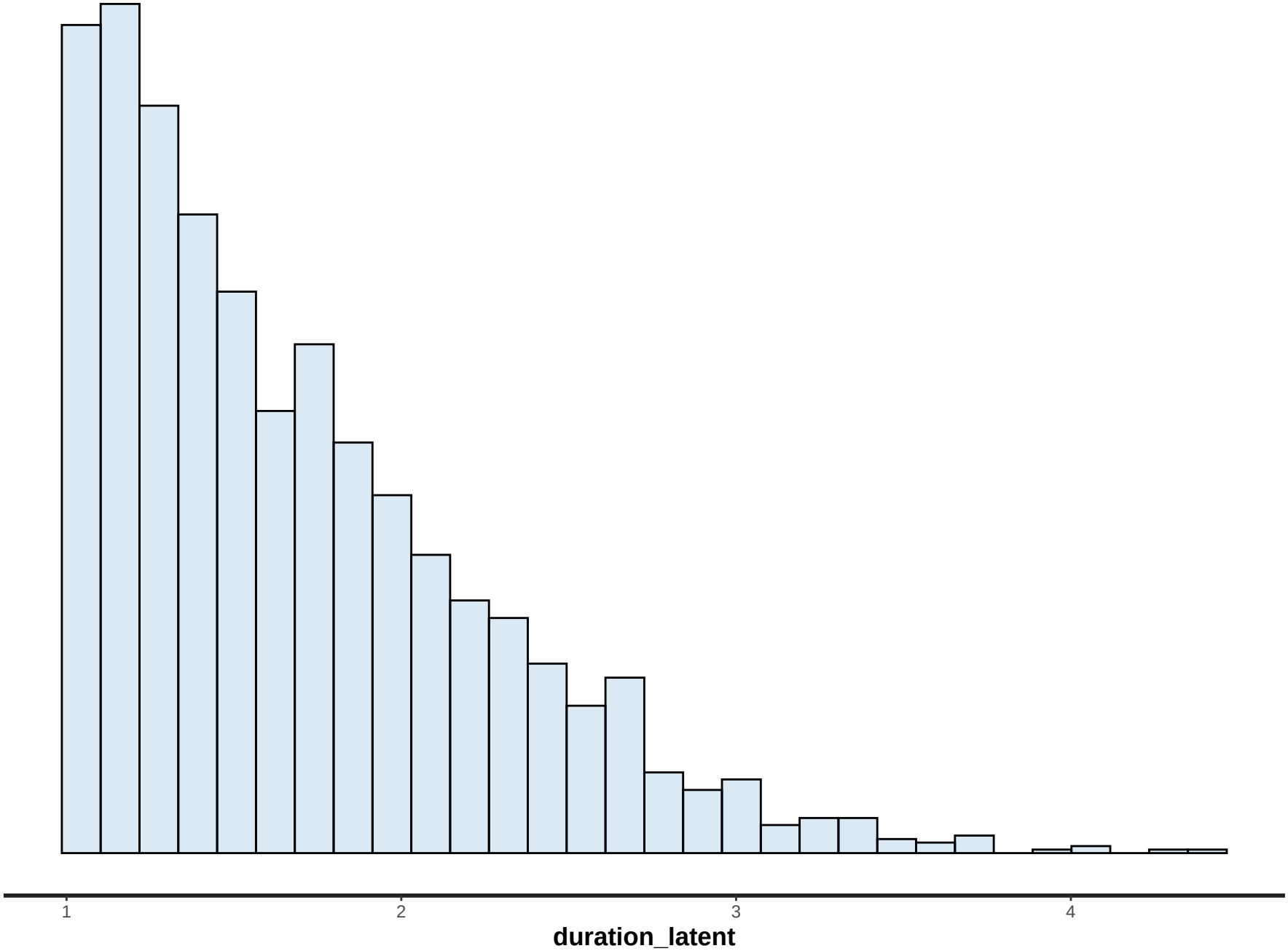

Effective Reproduction Number
Re
2.5
2.0
1.5
1.0
0.5
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Median
5%−95%
15%−85%
25%−75%

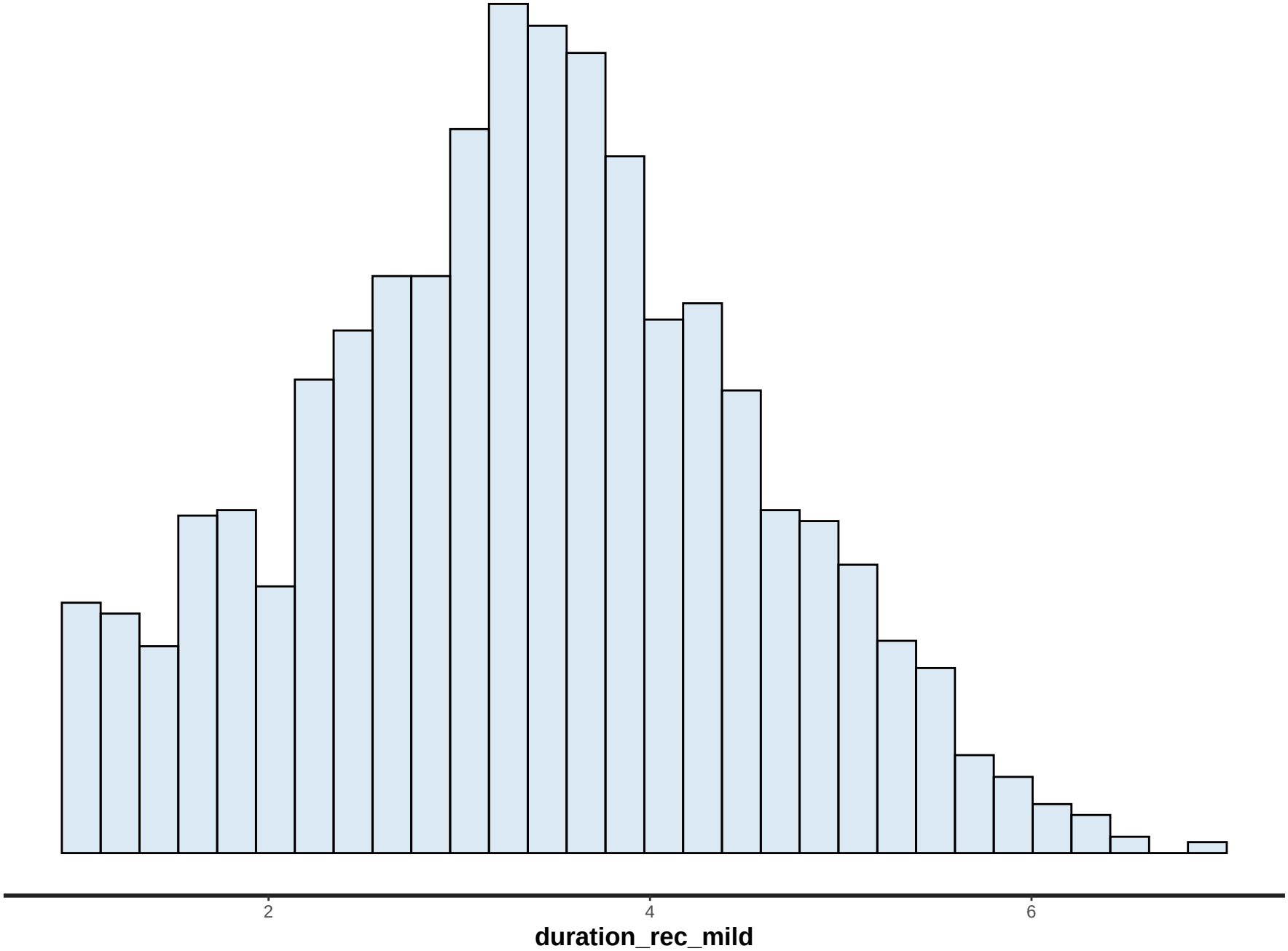
Rt as of 2021−01−18

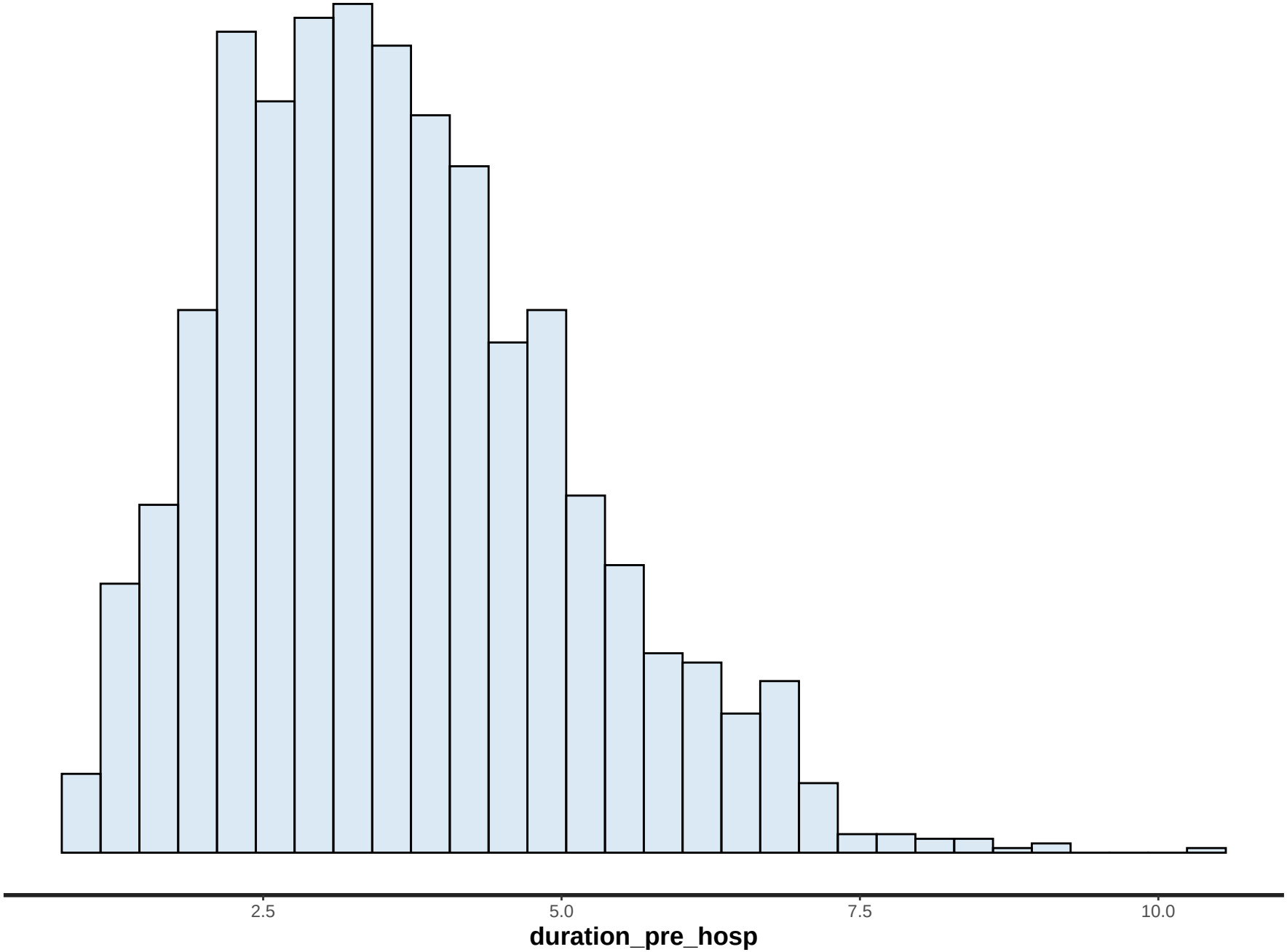
5%	10%	25%	50%	75%	90%	95%
0.14	0.21	0.32	0.44	0.55	0.64	0.69




1.0
1.5
2.0
2.5
3.0
r0


1
2
3
4
duration_latent


2
4
6
duration_rec_mild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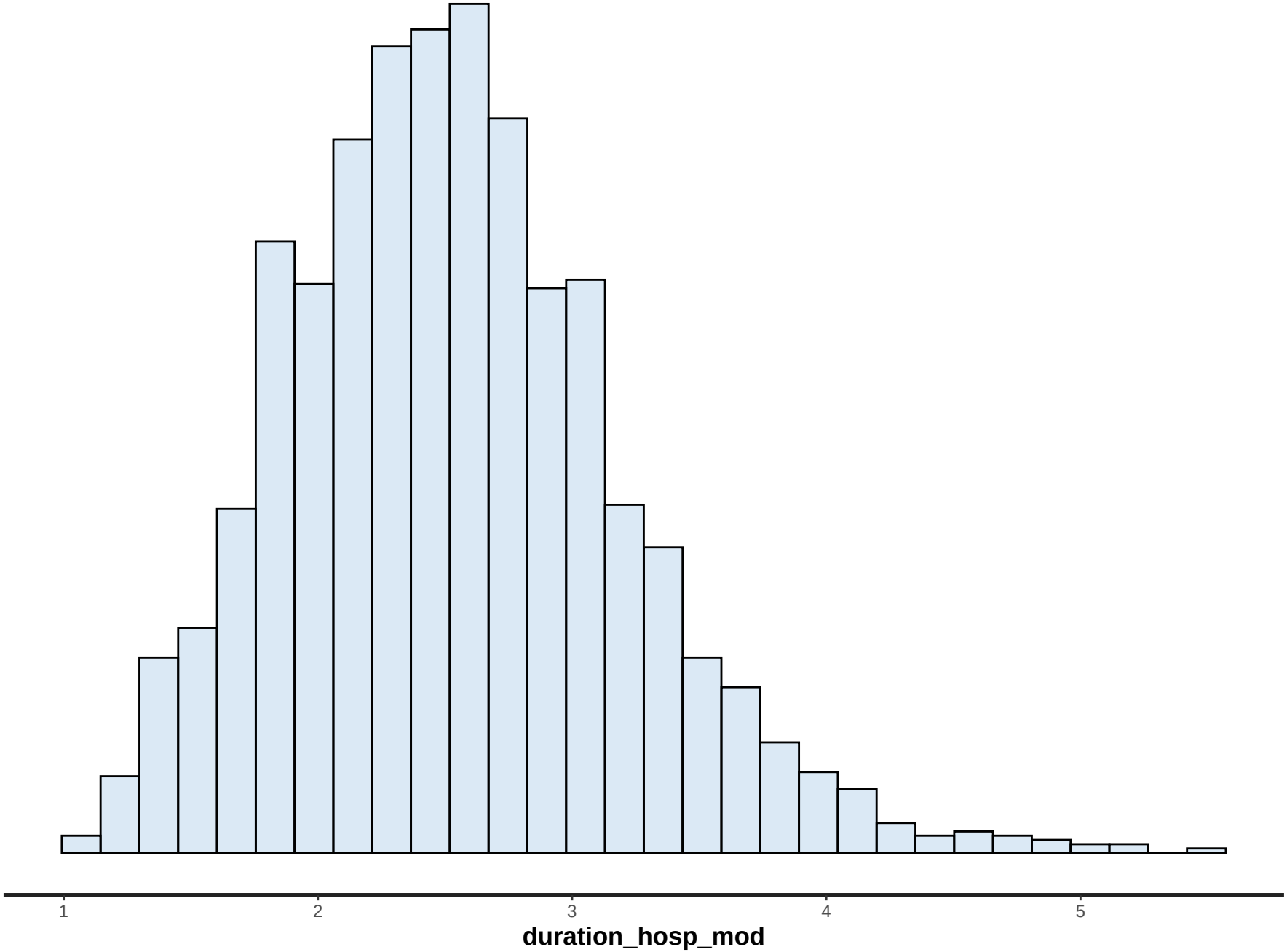
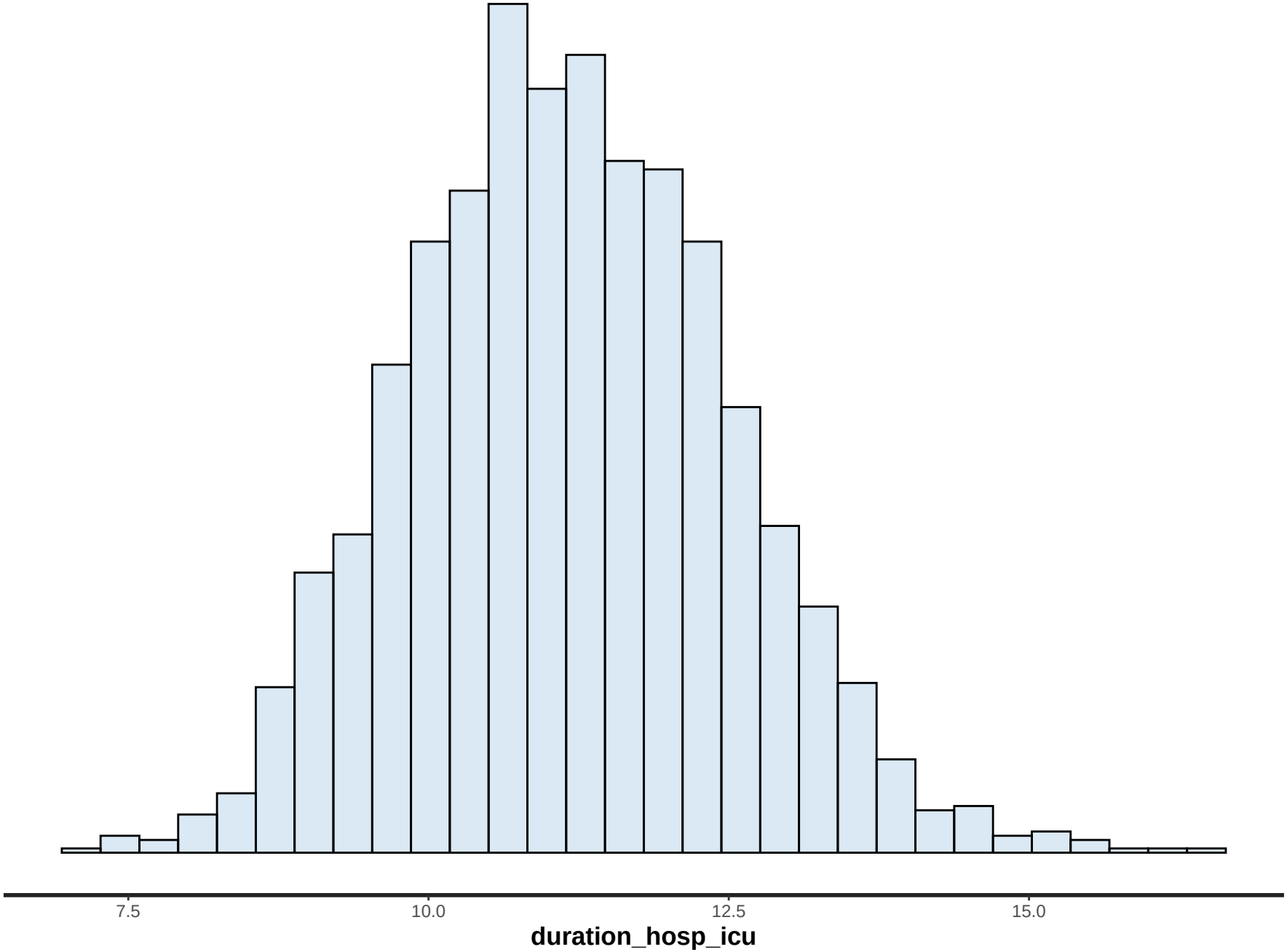
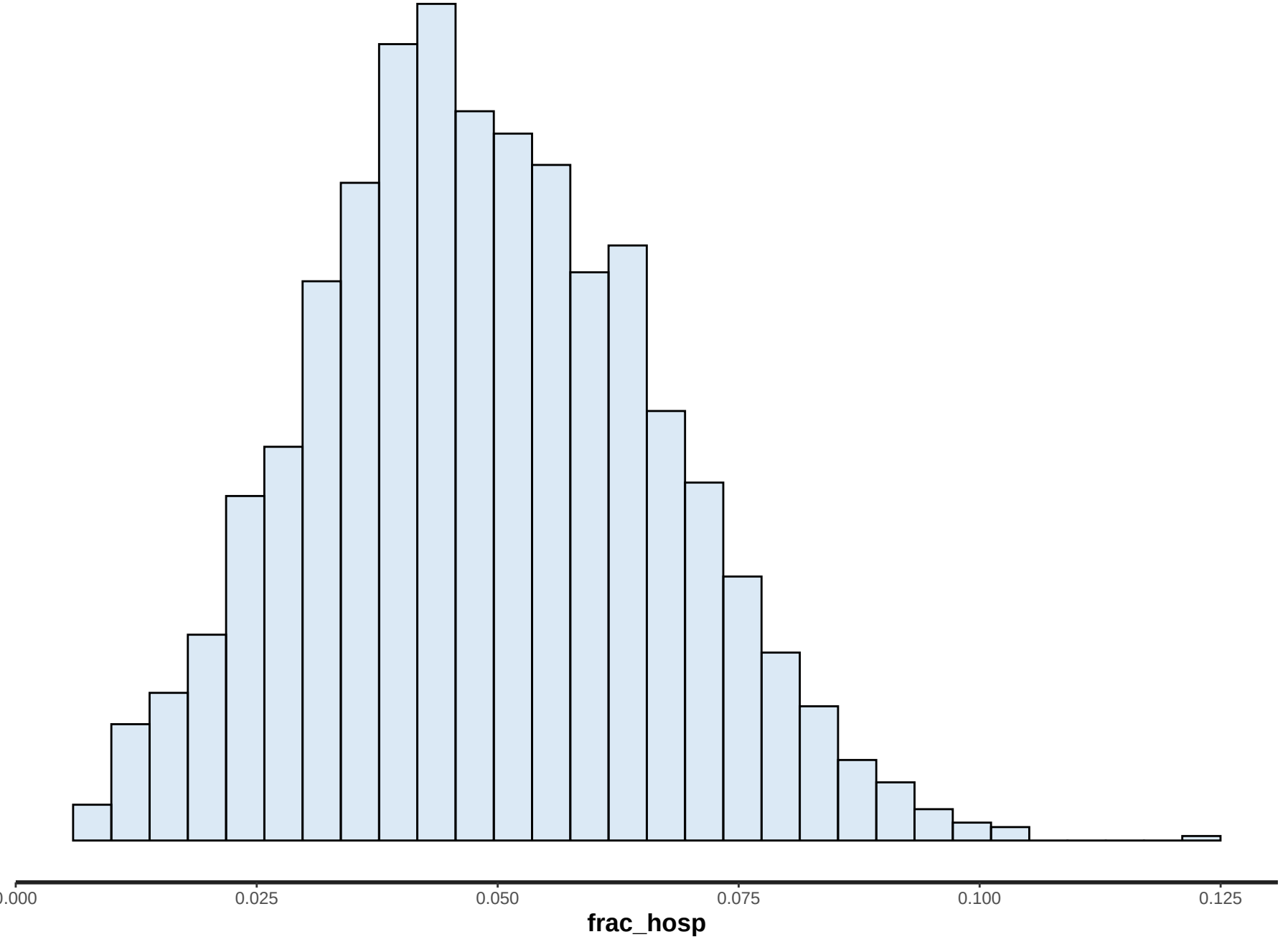
5.0
7.5
10.0
duration_pre_hosp


1
2
3
4
5
duration_hosp_mod


7.5
10.0
12.5
15.0
duration_hosp_icu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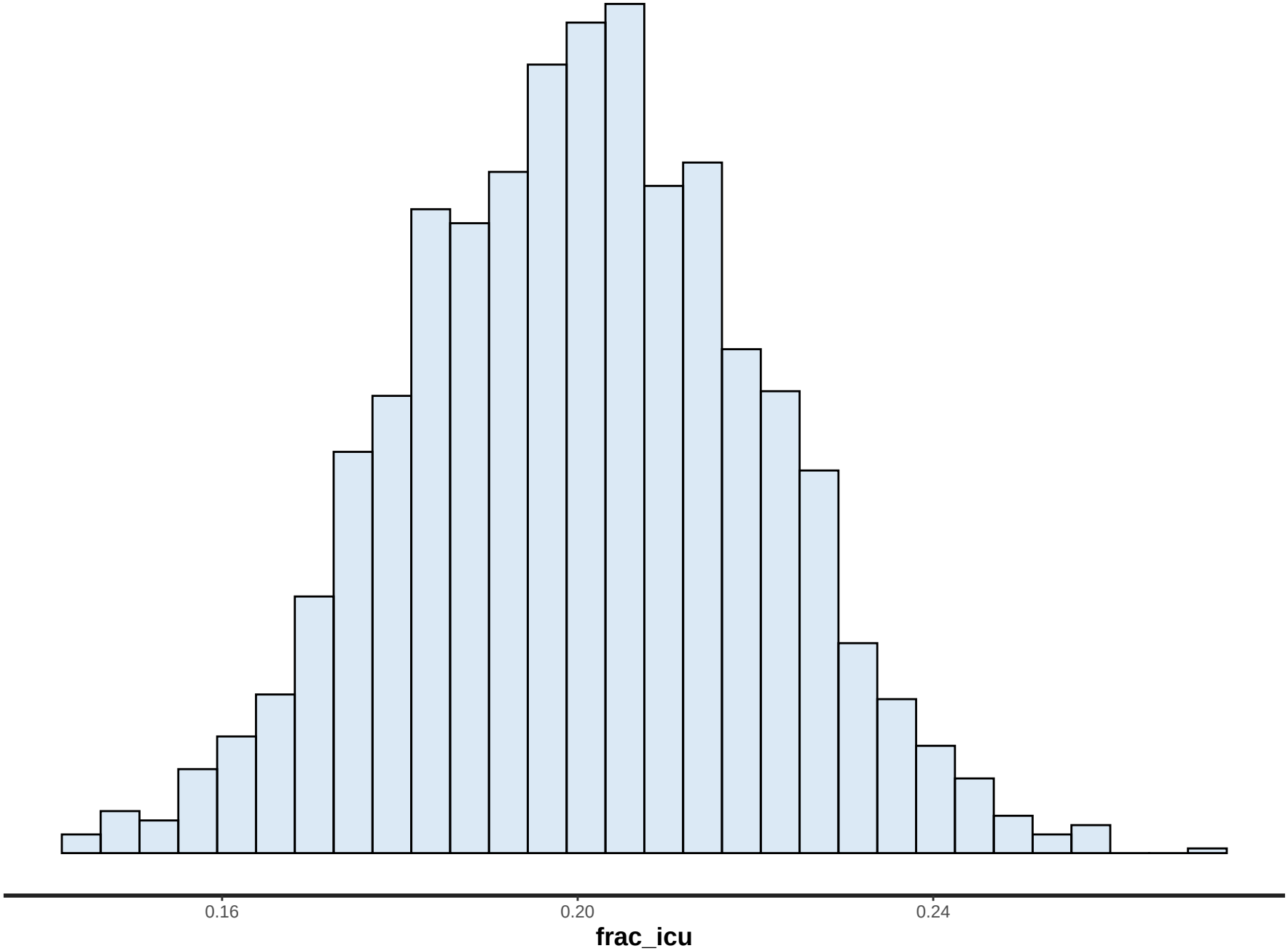
0.025
0.050
0.075
0.100
0.125
frac_hosp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0.24
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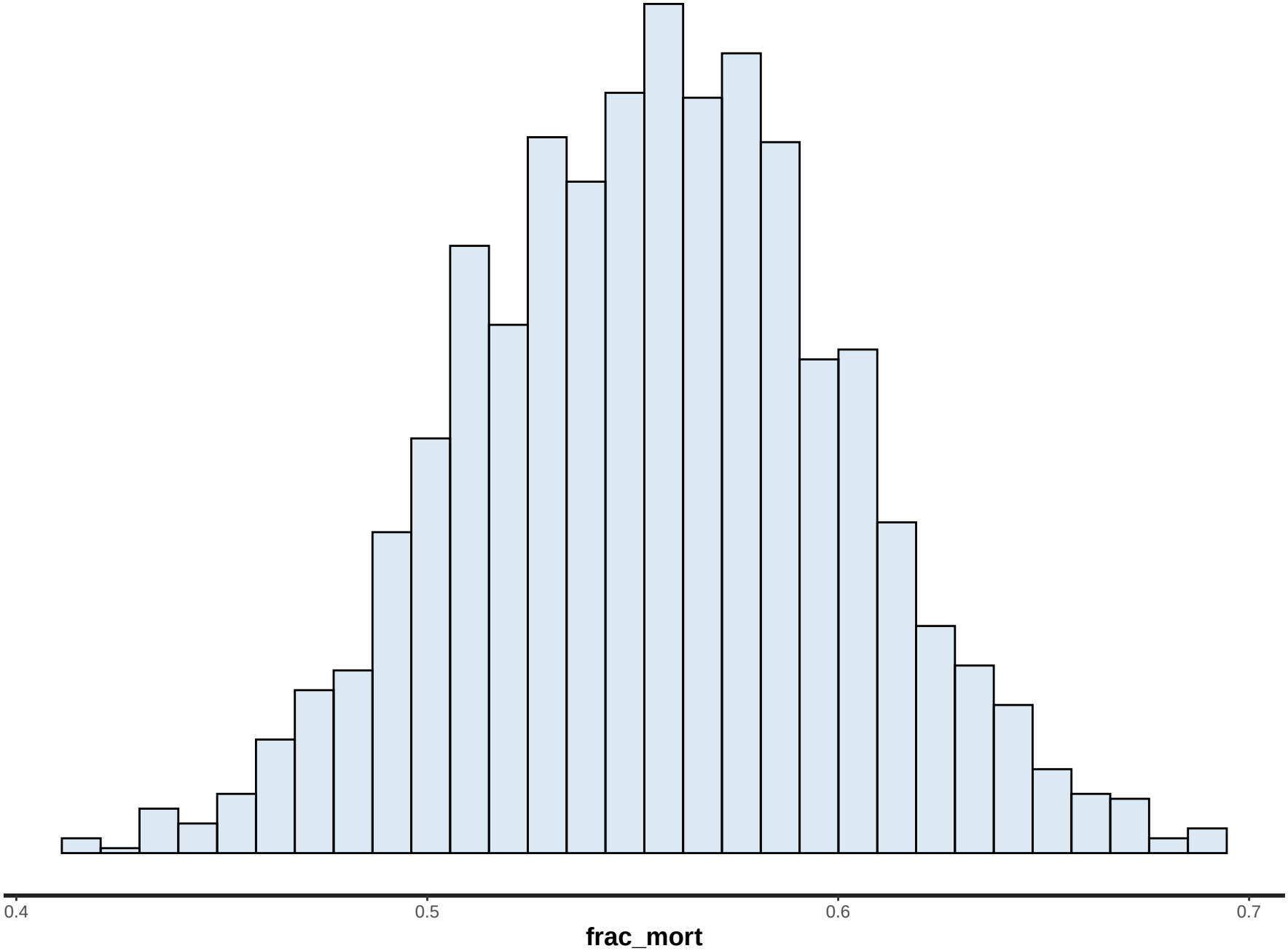
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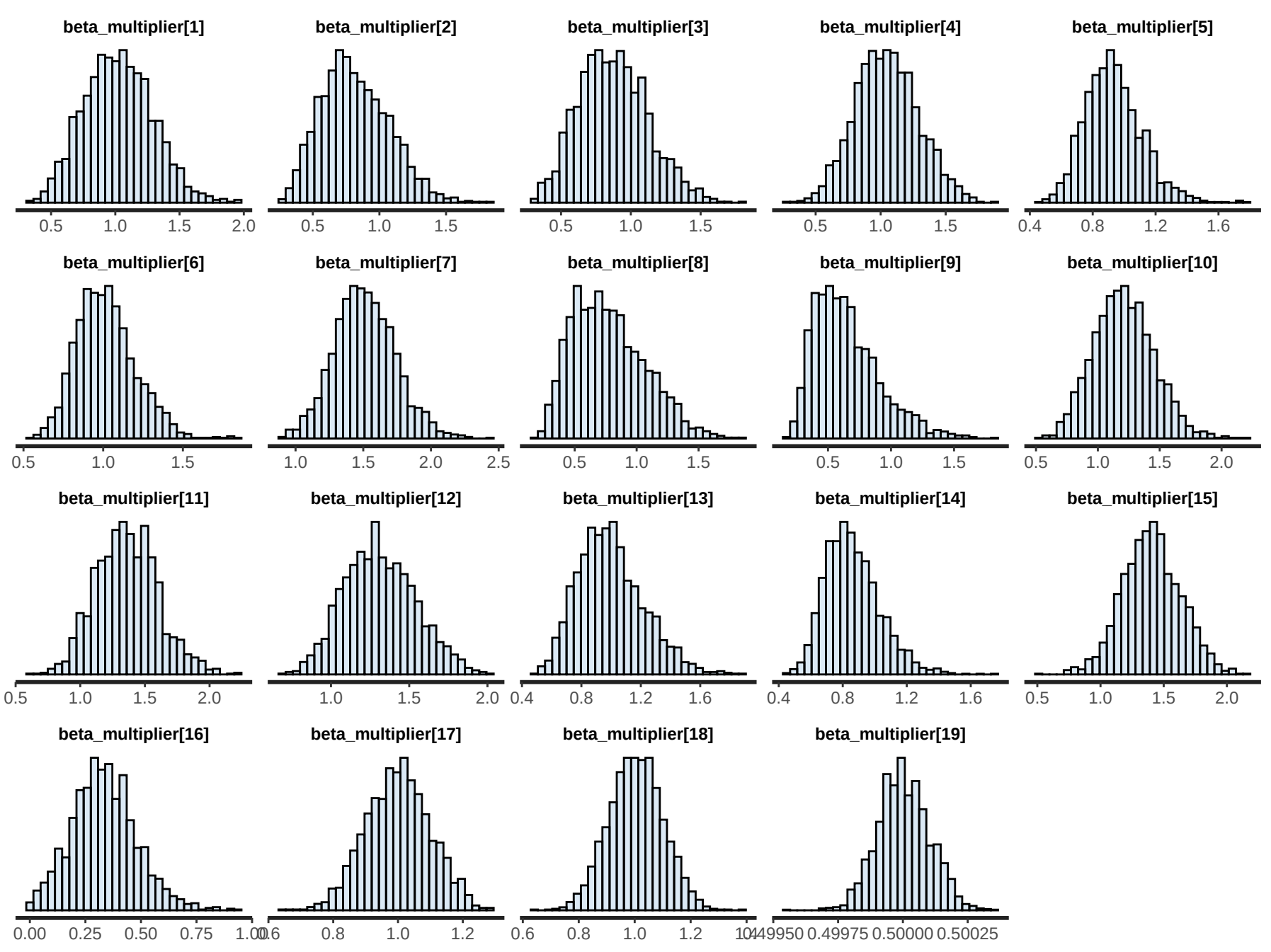
0.5
0.6
0.7
frac_mort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beta_multiplier[13]
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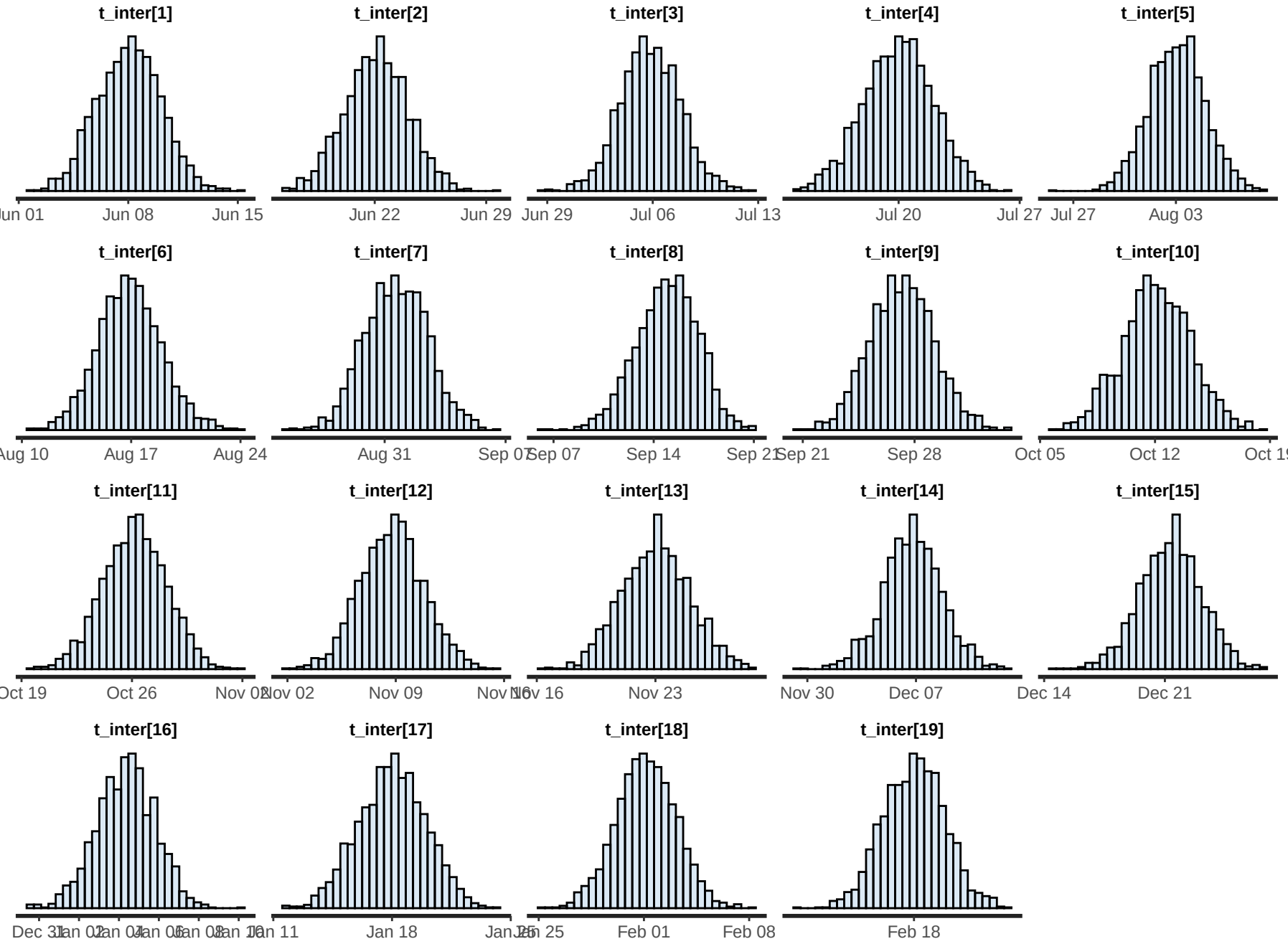
beta_multiplier[18]
beta_multiplier[19]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Jun 01
Jun 08
Jun 15
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Jun 29
Jul 06
Jul 13
t_inter[4]
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Jul 27
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Aug 03
t_inter[6]
Aug 10
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Aug 24
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Dec 21
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Dec 31
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Jan 11
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Jan 18
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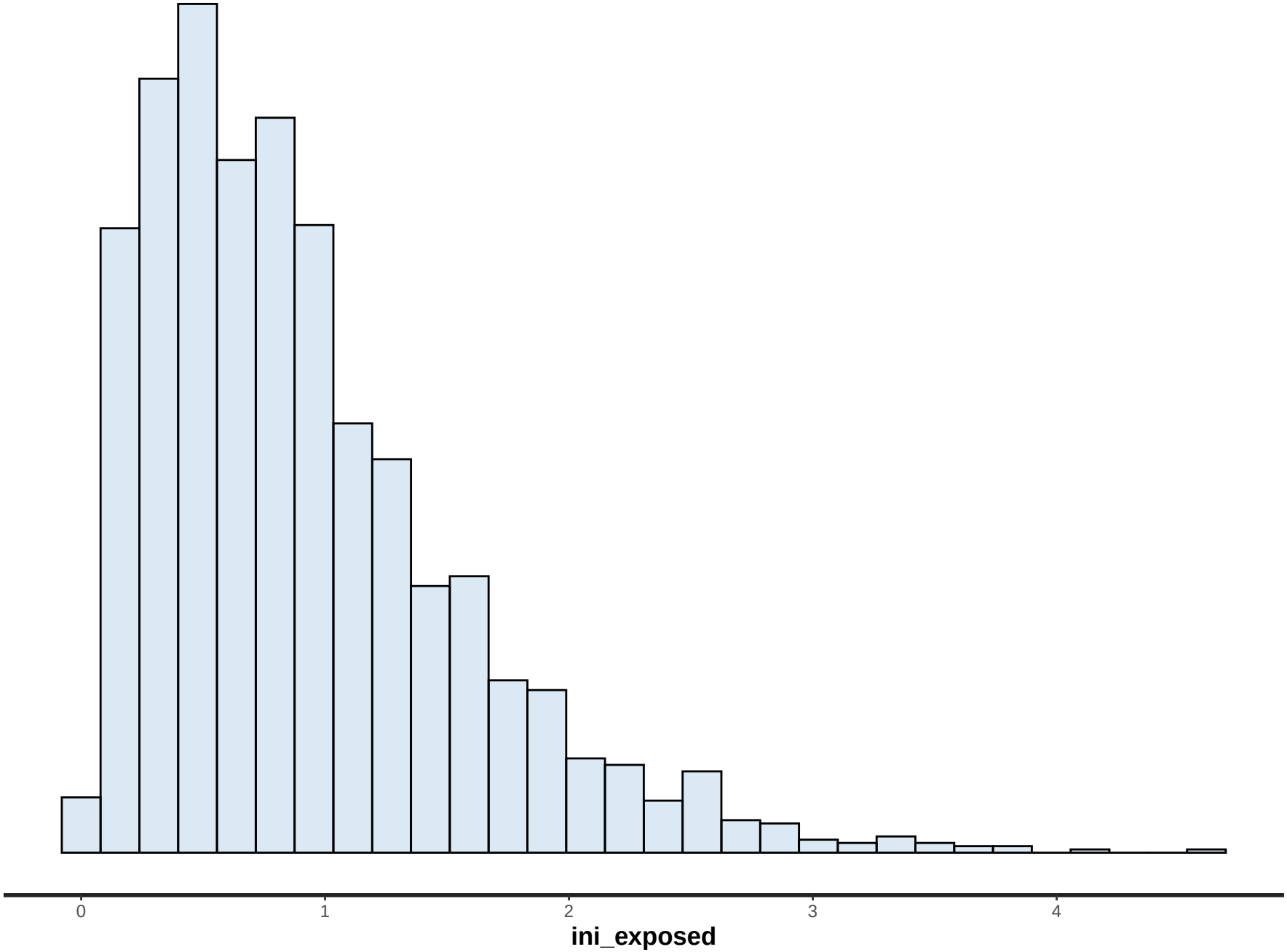
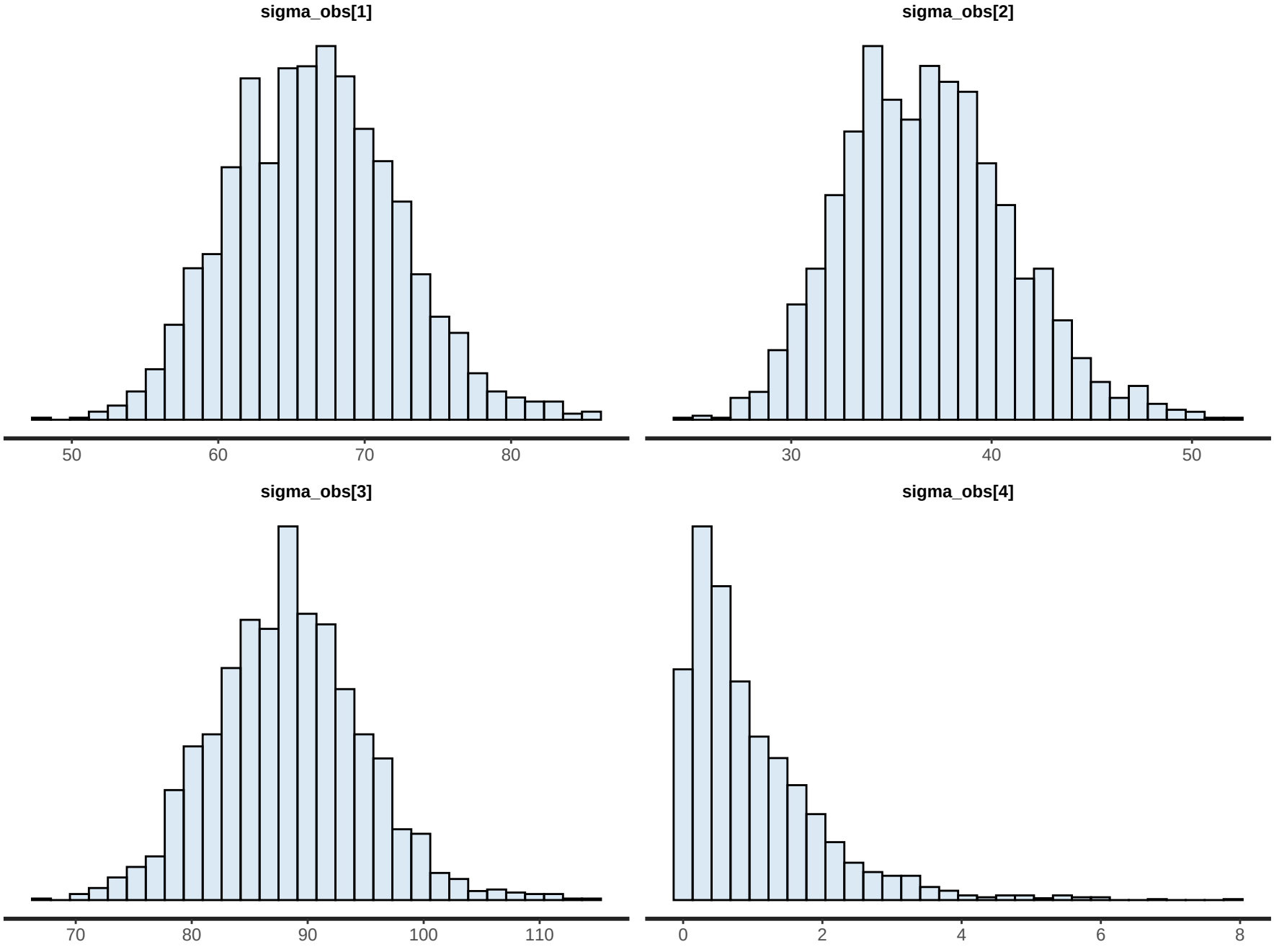
Jan 25
Feb 01
Feb 08
t_inter[19]
Feb 18


0
1
2
3
4
ini_exposed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80
90
100
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sigma_obs[4]
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4
6
8