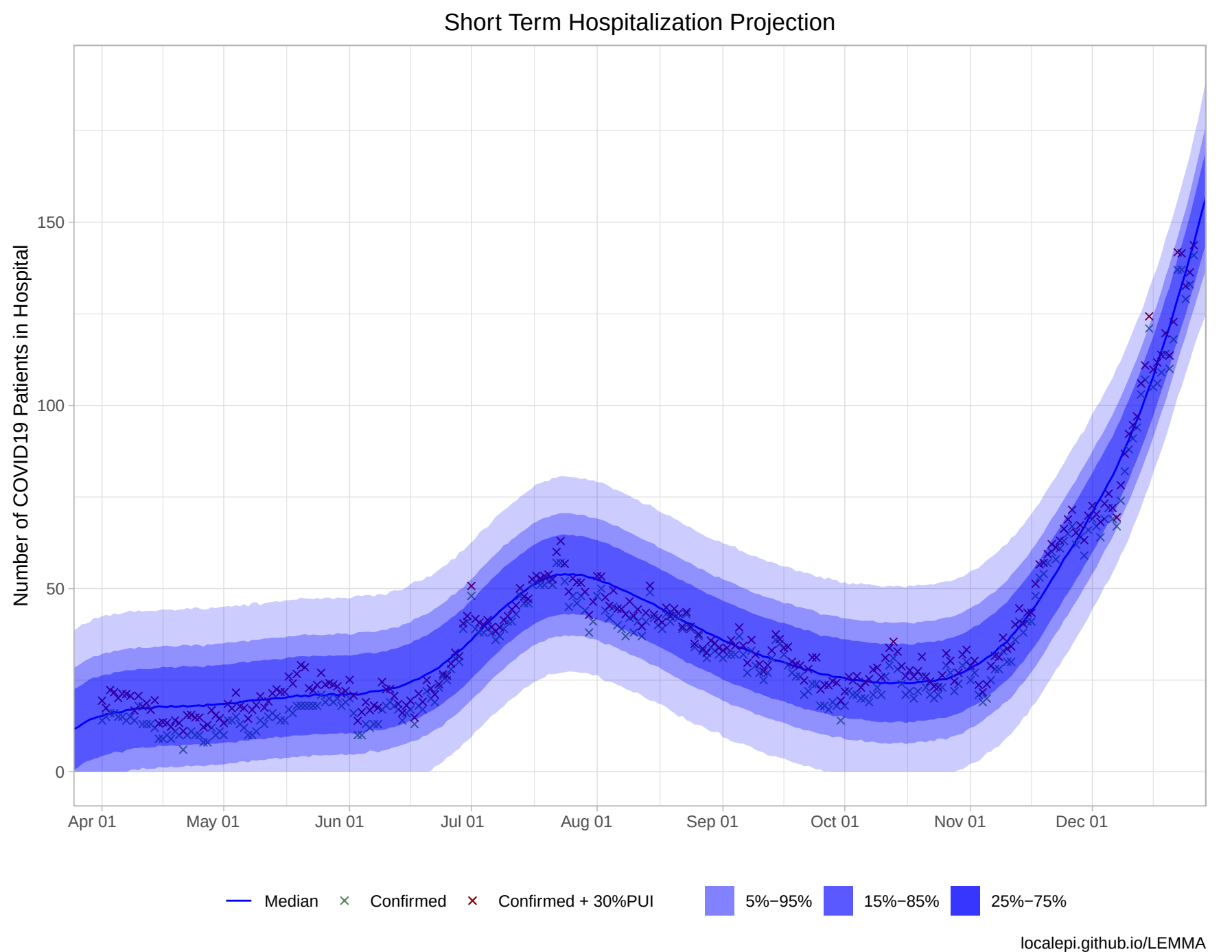
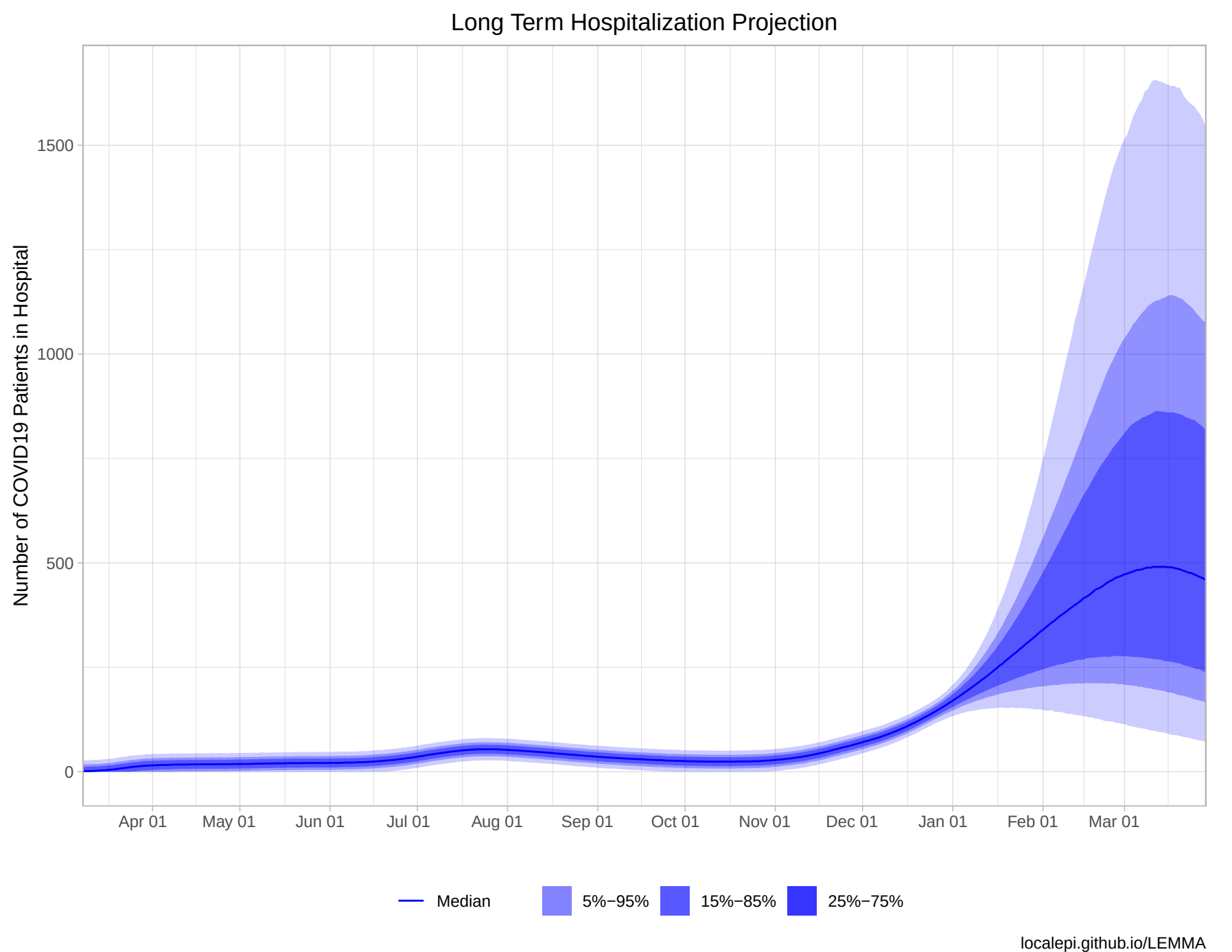
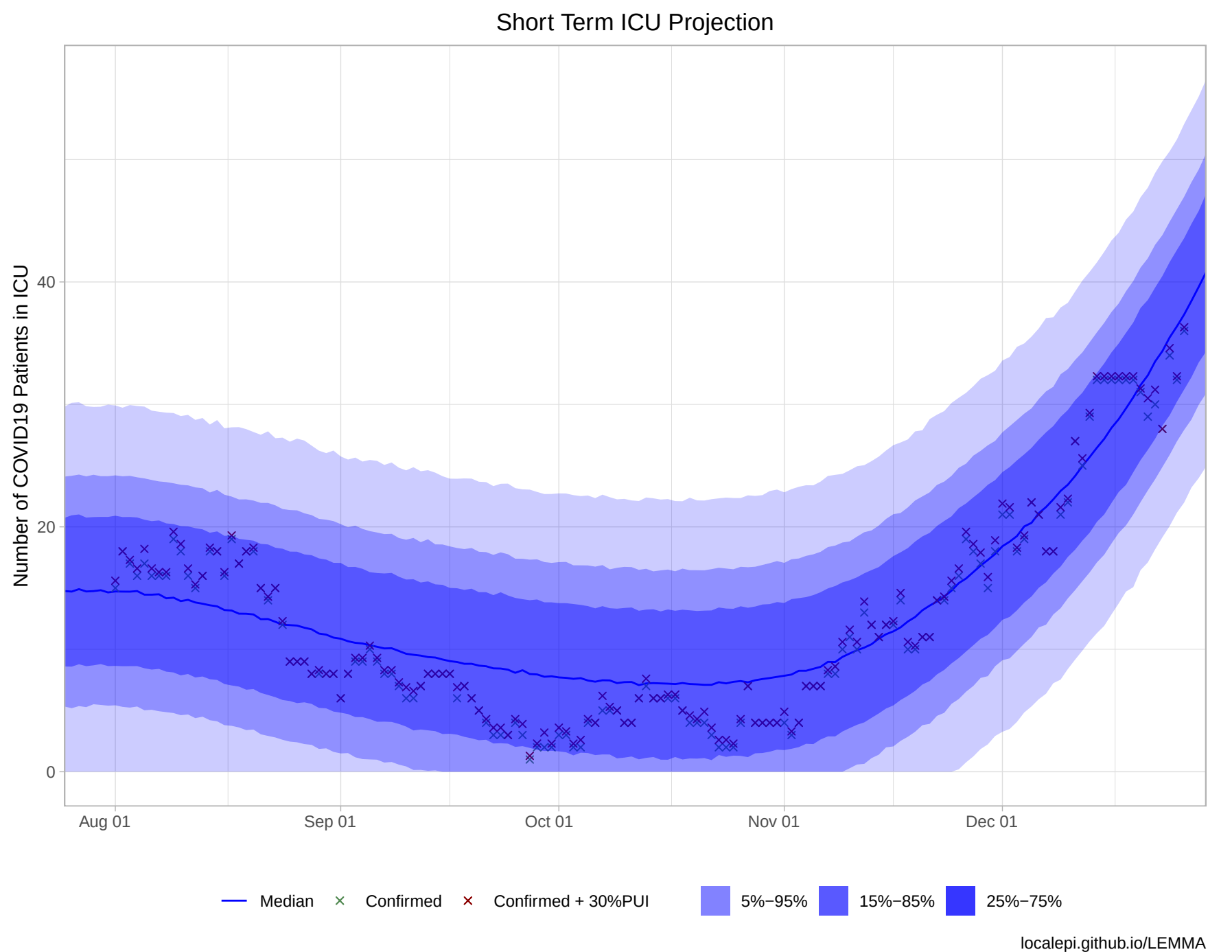
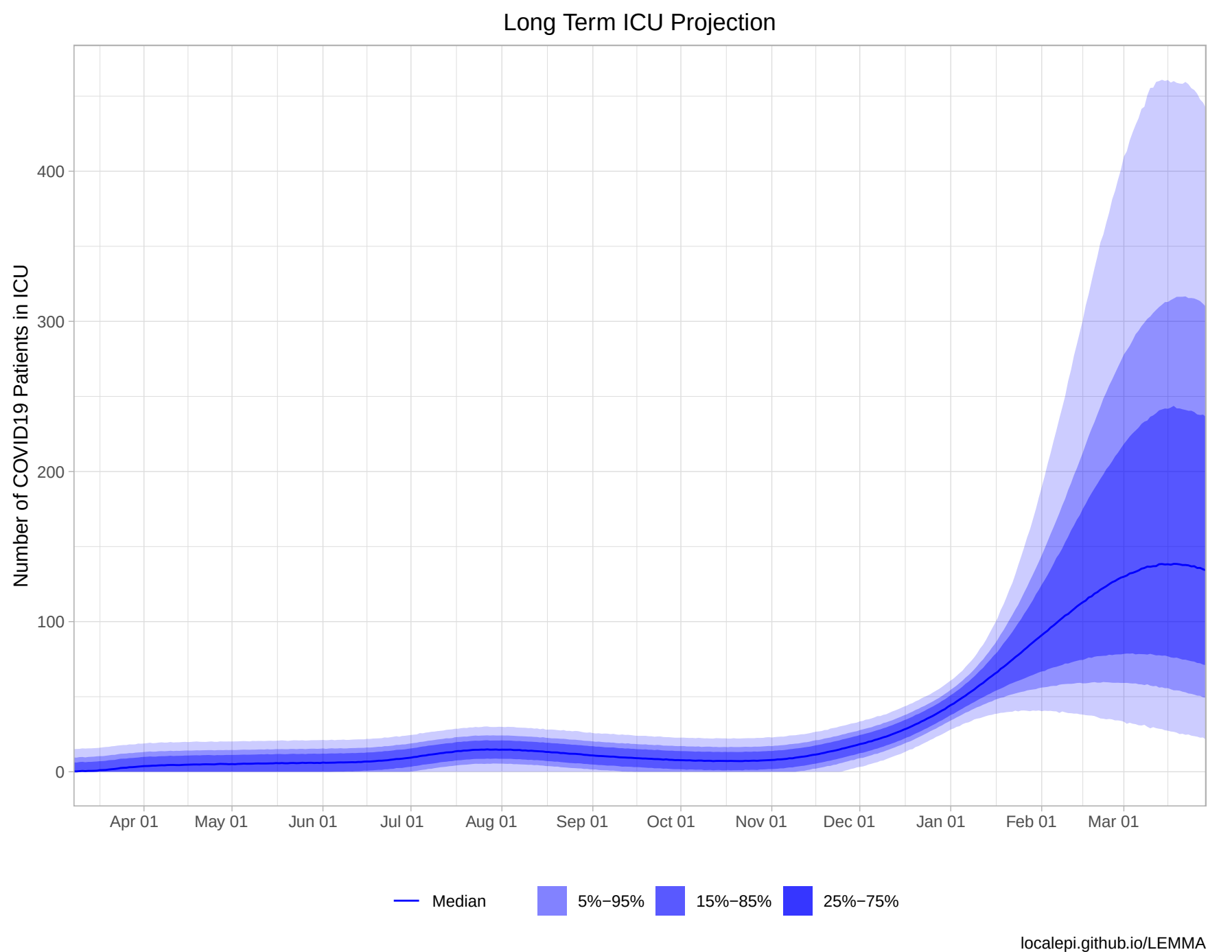
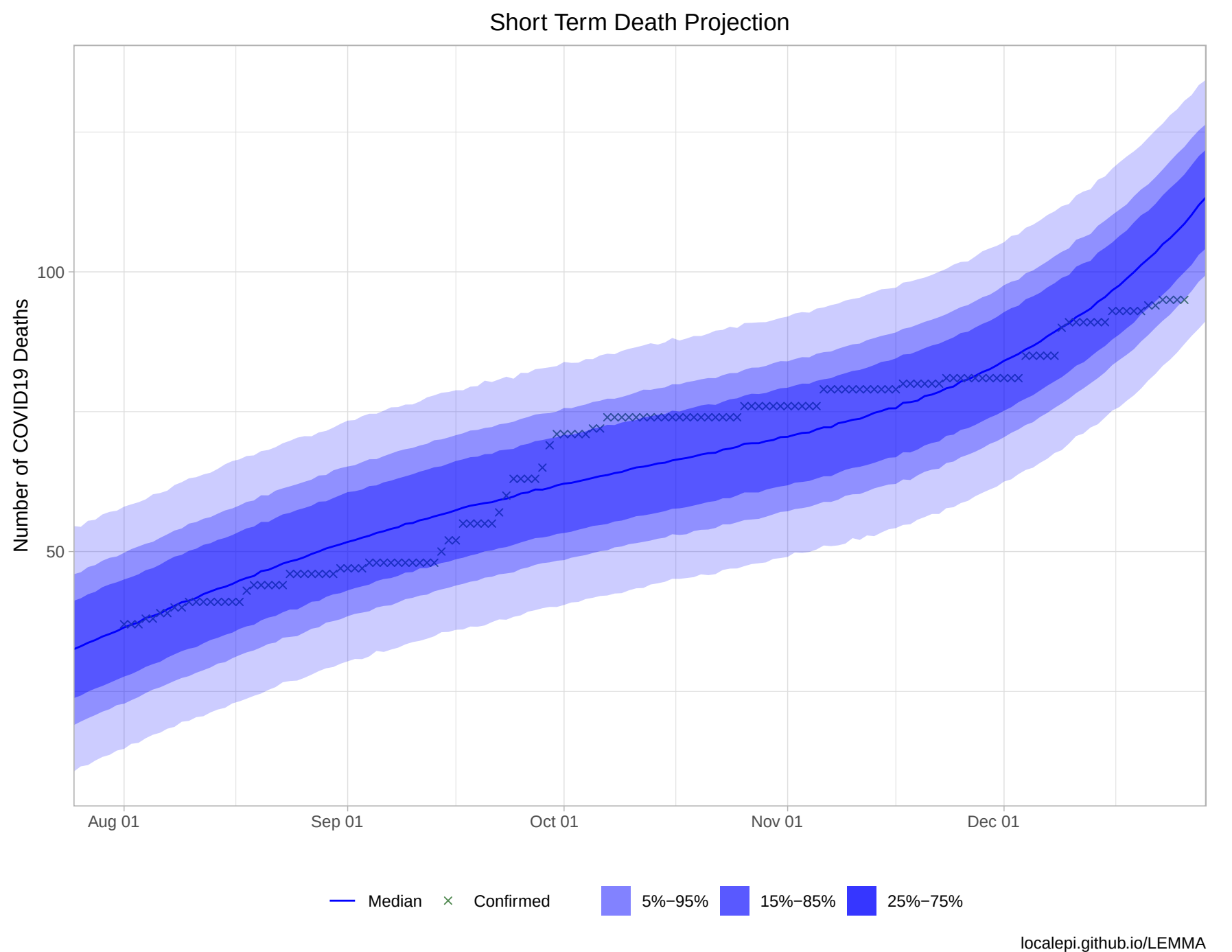
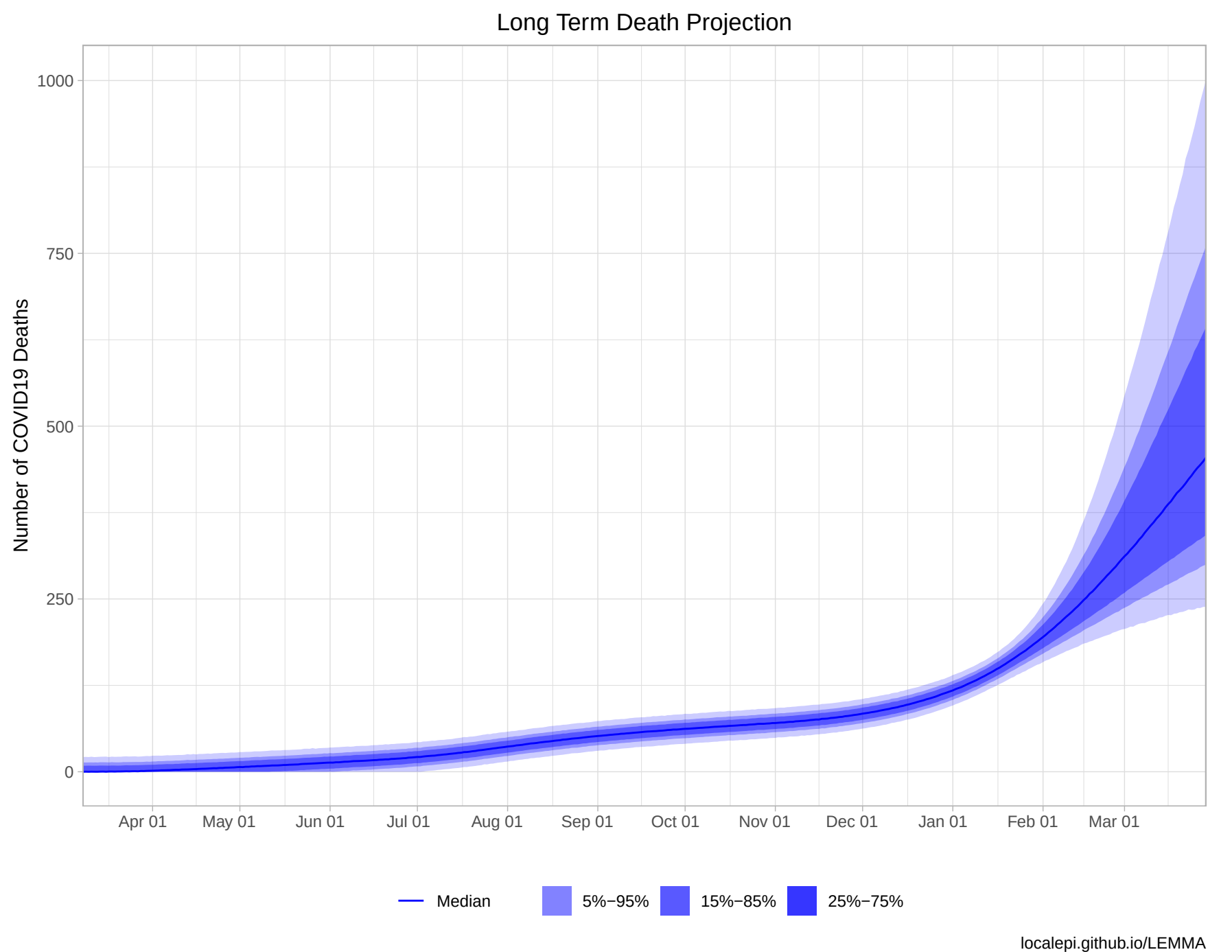

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
50
100
150
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

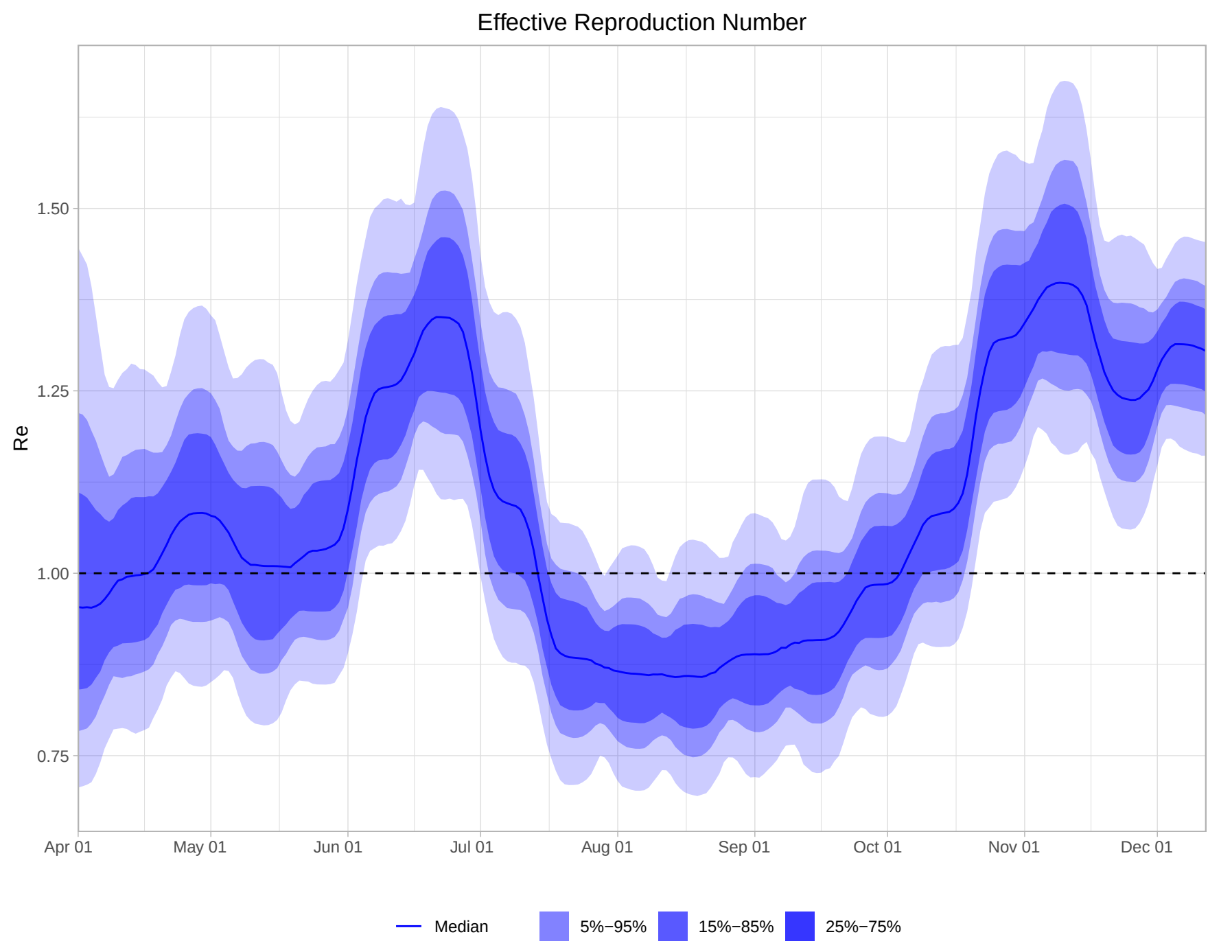

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
1500
1000
500
0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


Short Term ICU Projection
Number of COVID19 Patients in ICU
40
20
0
Aug 01
Sep 01
Oct 01
Nov 01
Dec 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
400
300
200
100
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

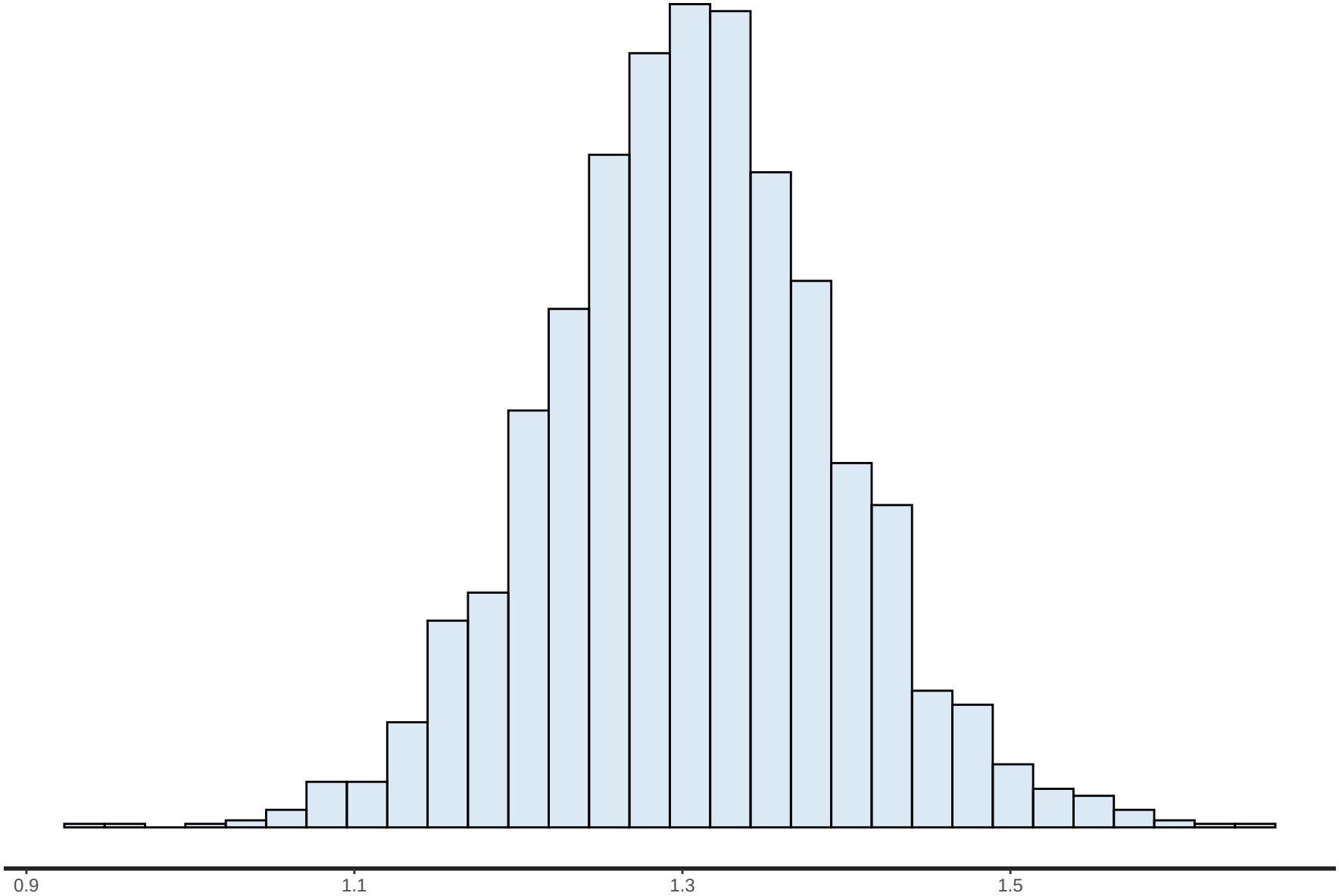

Short Term Death Projection
Number of COVID19 Deaths
100
50
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

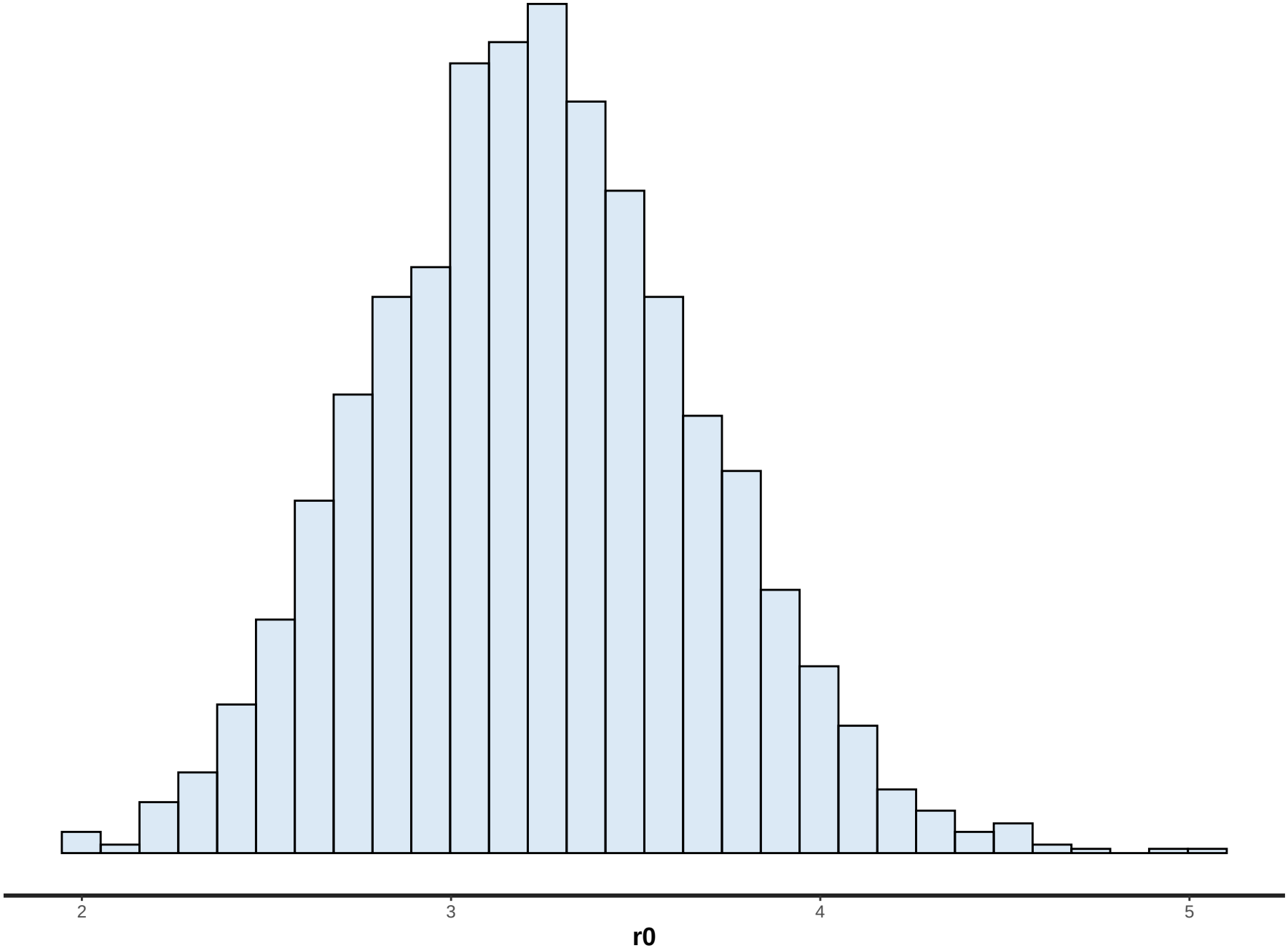

Long Term Death Projection
Number of COVID19 Deaths
1000
750
500
250
0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

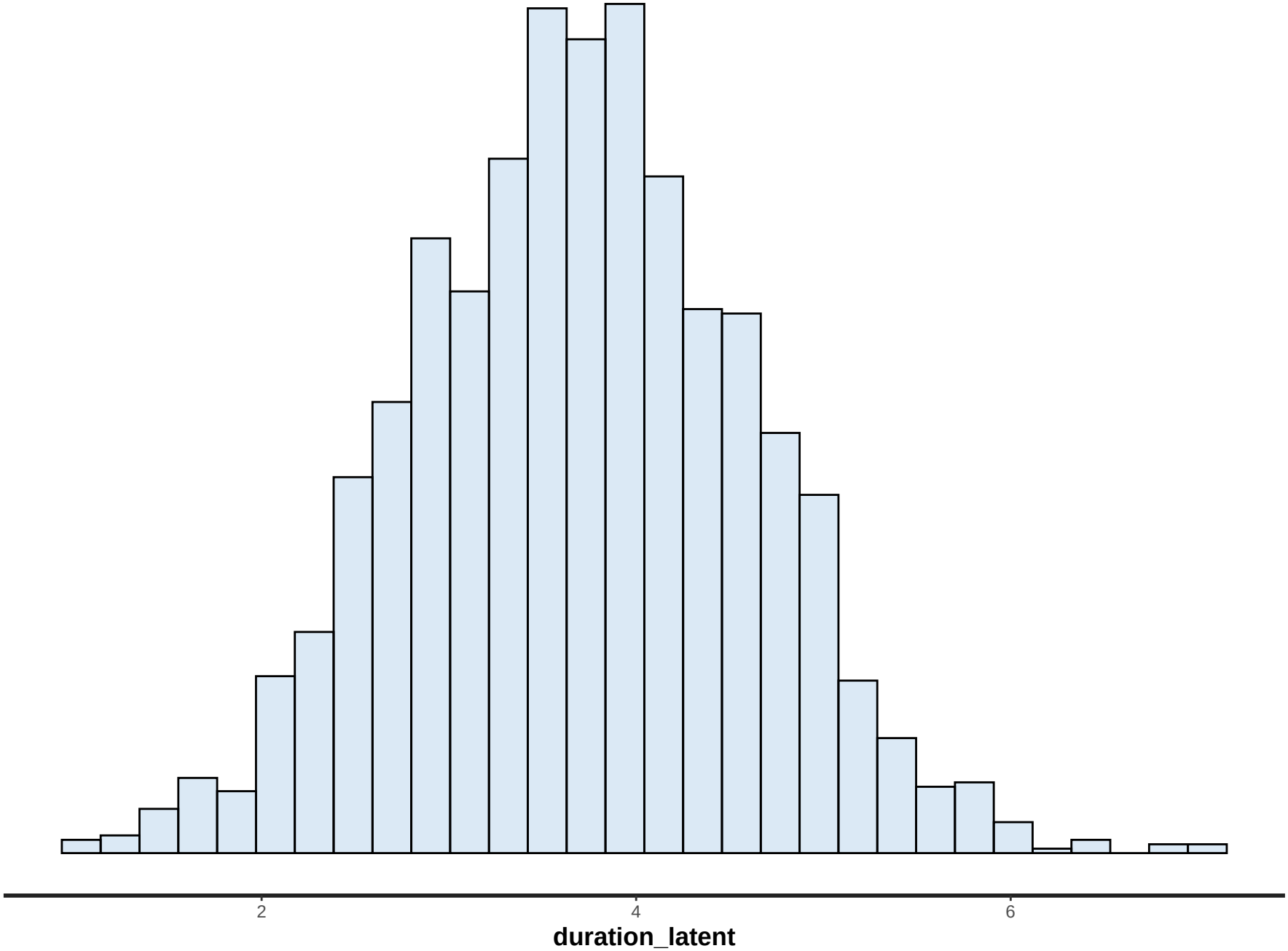

Effective Reproduction Number
Re
1.50
1.25
1.00
0.75
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
5%−95%
15%−85%
25%−75%

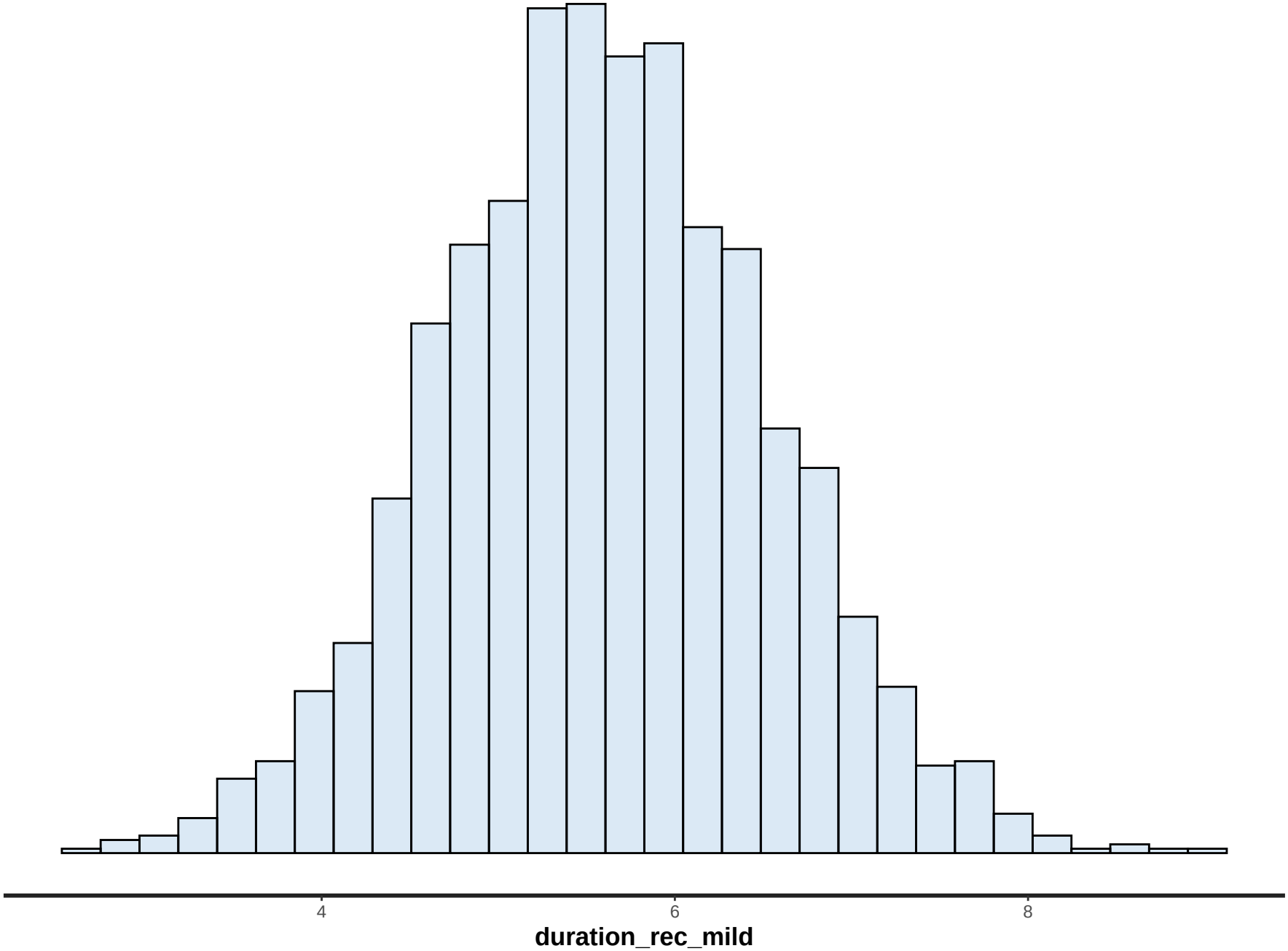
Rt as of 2020−12−12

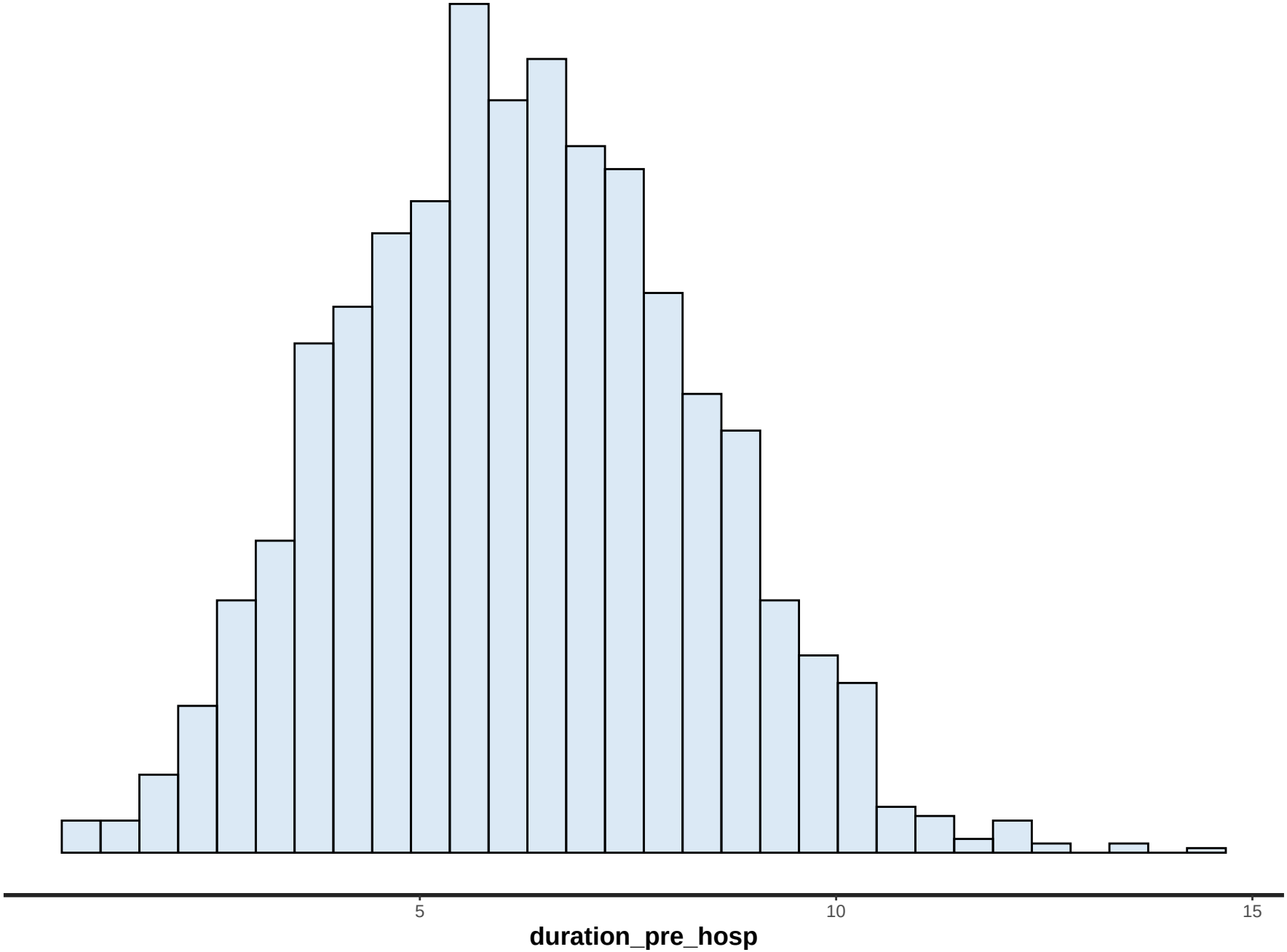
5%	10%	25%	50%	75%	90%	95%
1.16	1.20	1.25	1.30	1.36	1.42	1.45

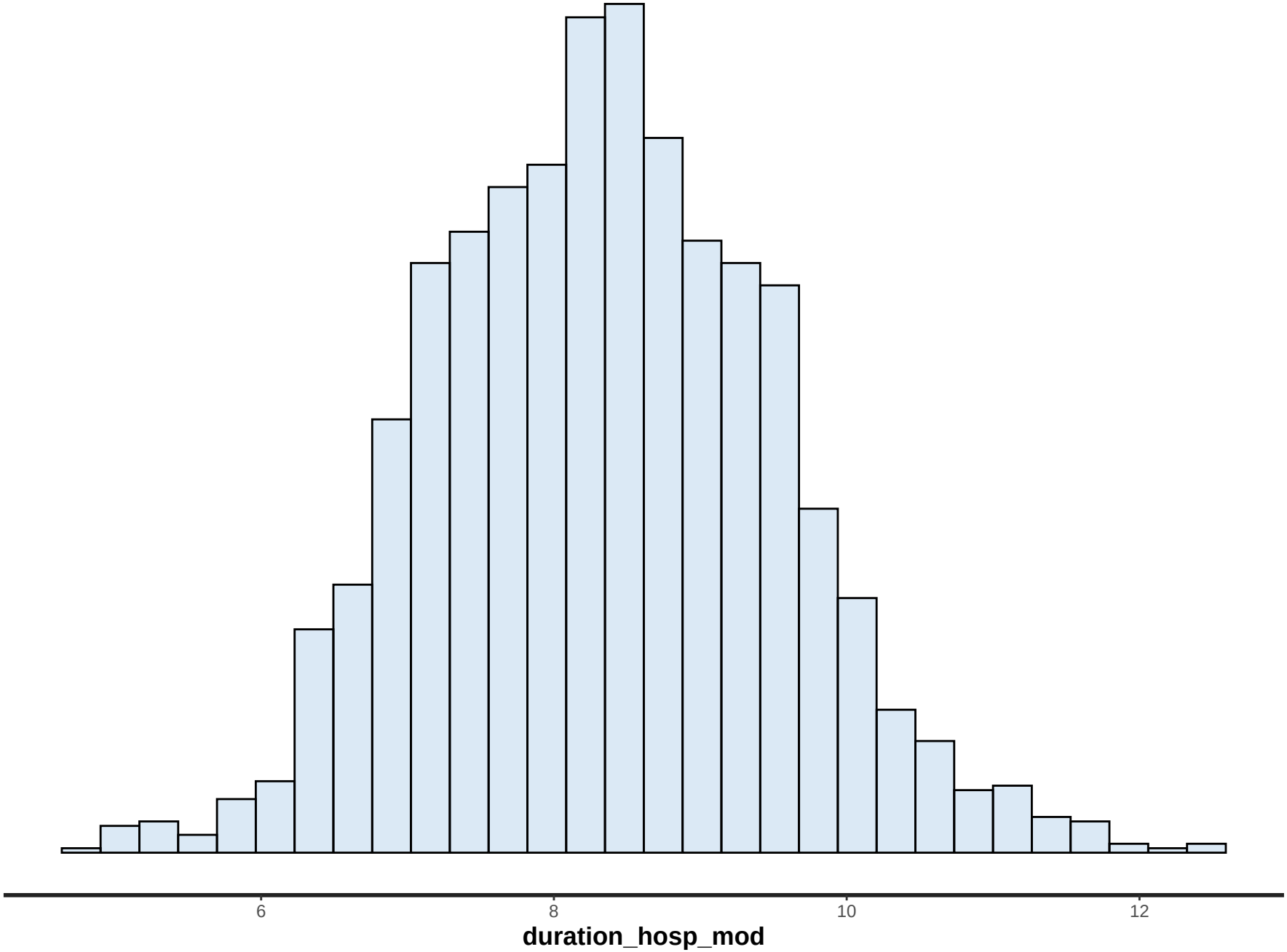


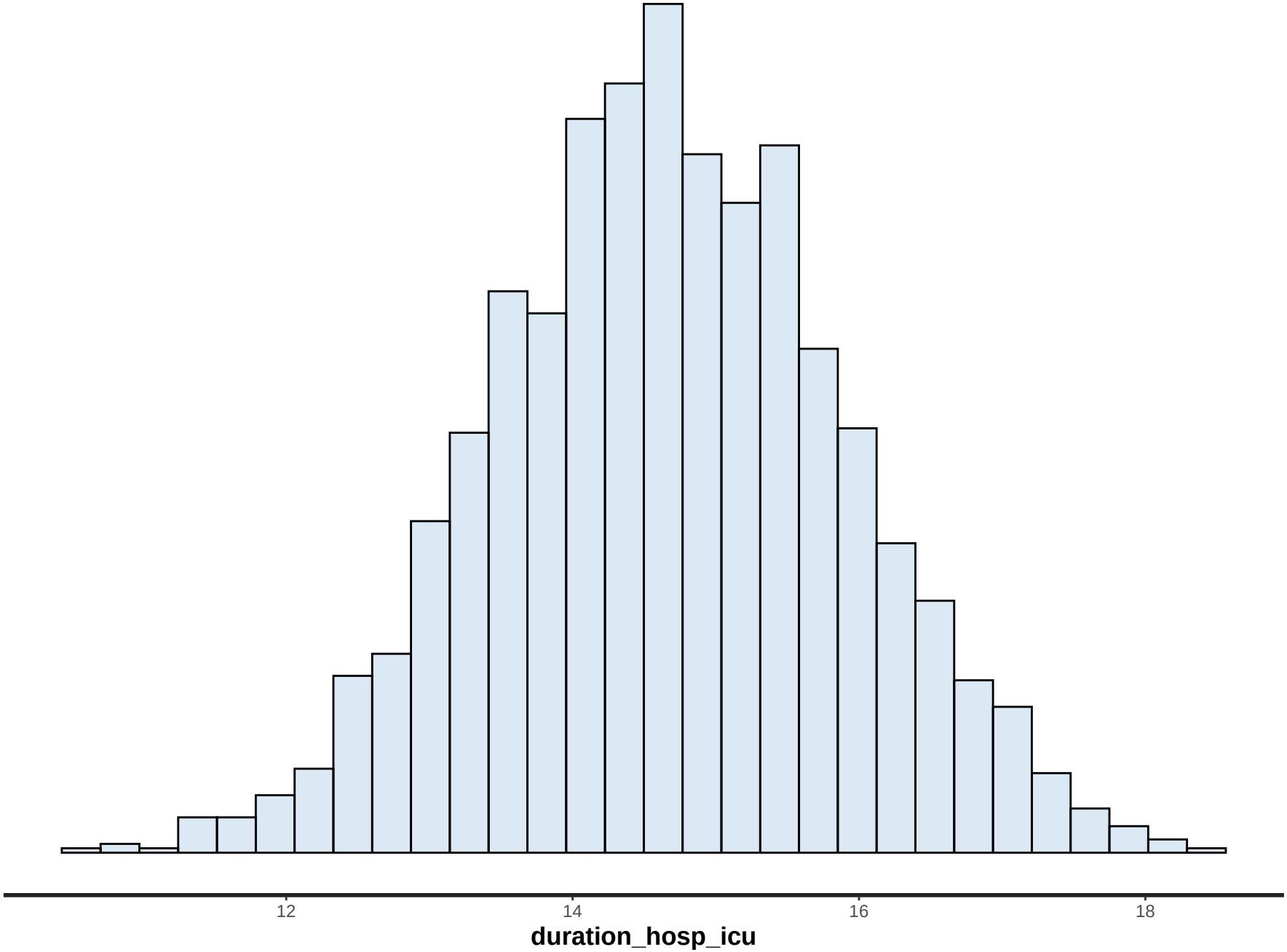

2
3
4
5
r0

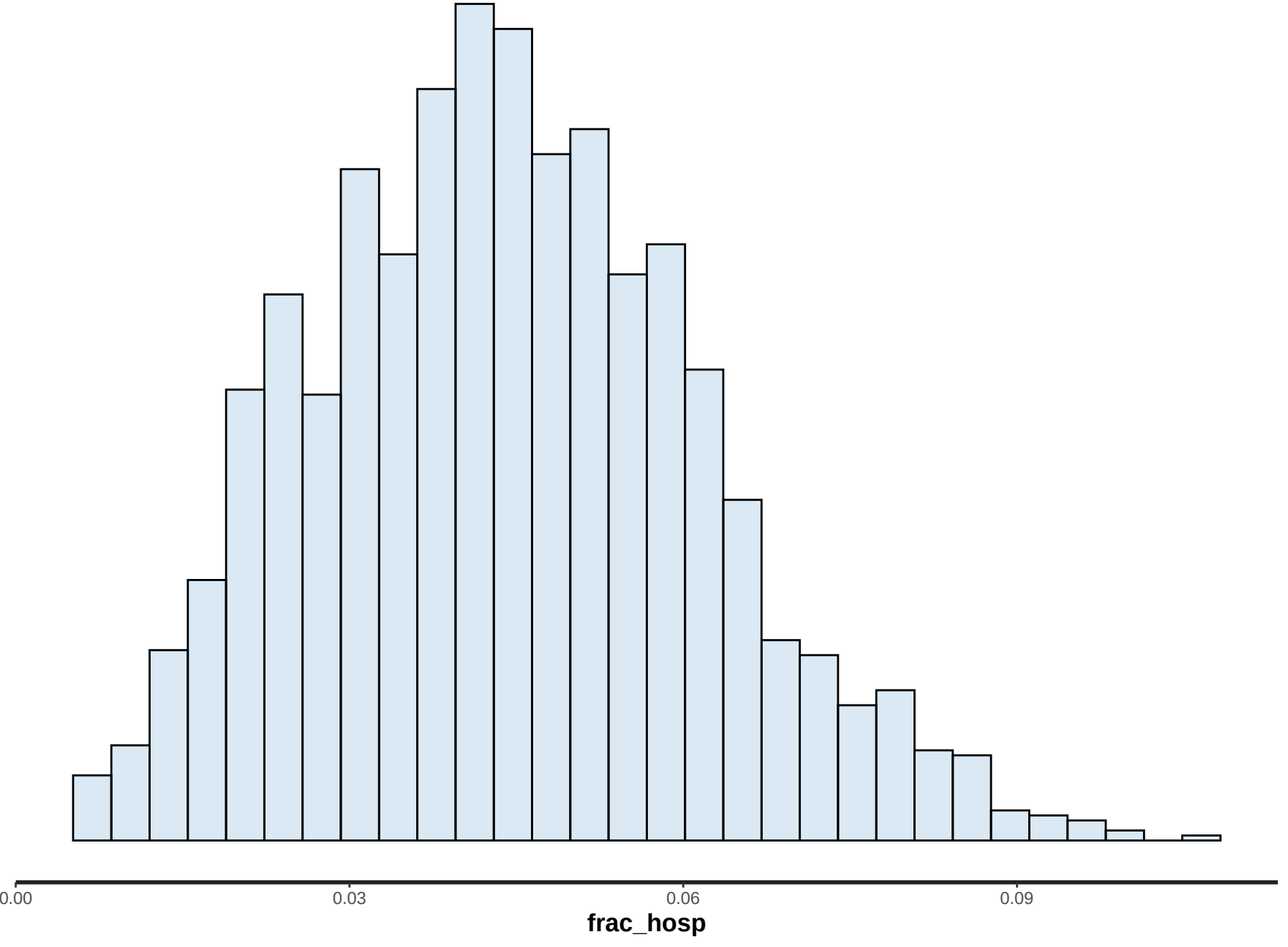

2
4
6
duration_latent

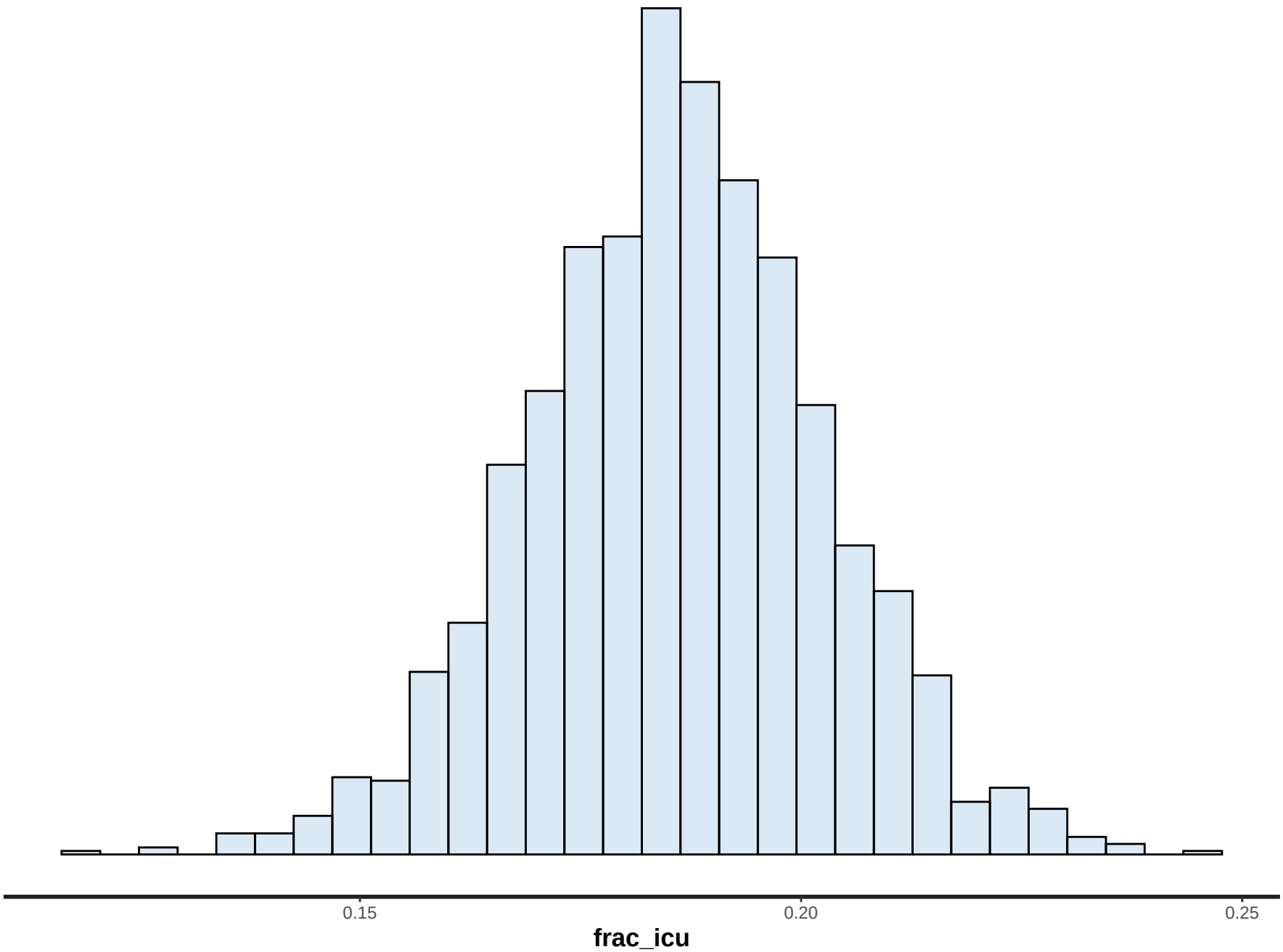

4
6
8
duration_rec_mild


5
10
15
duration_pre_hosp


6
8
10
12
duration_hosp_mod


12
14
16
18
duration_hosp_icu


0.00
0.03
0.06
0.09
frac_hosp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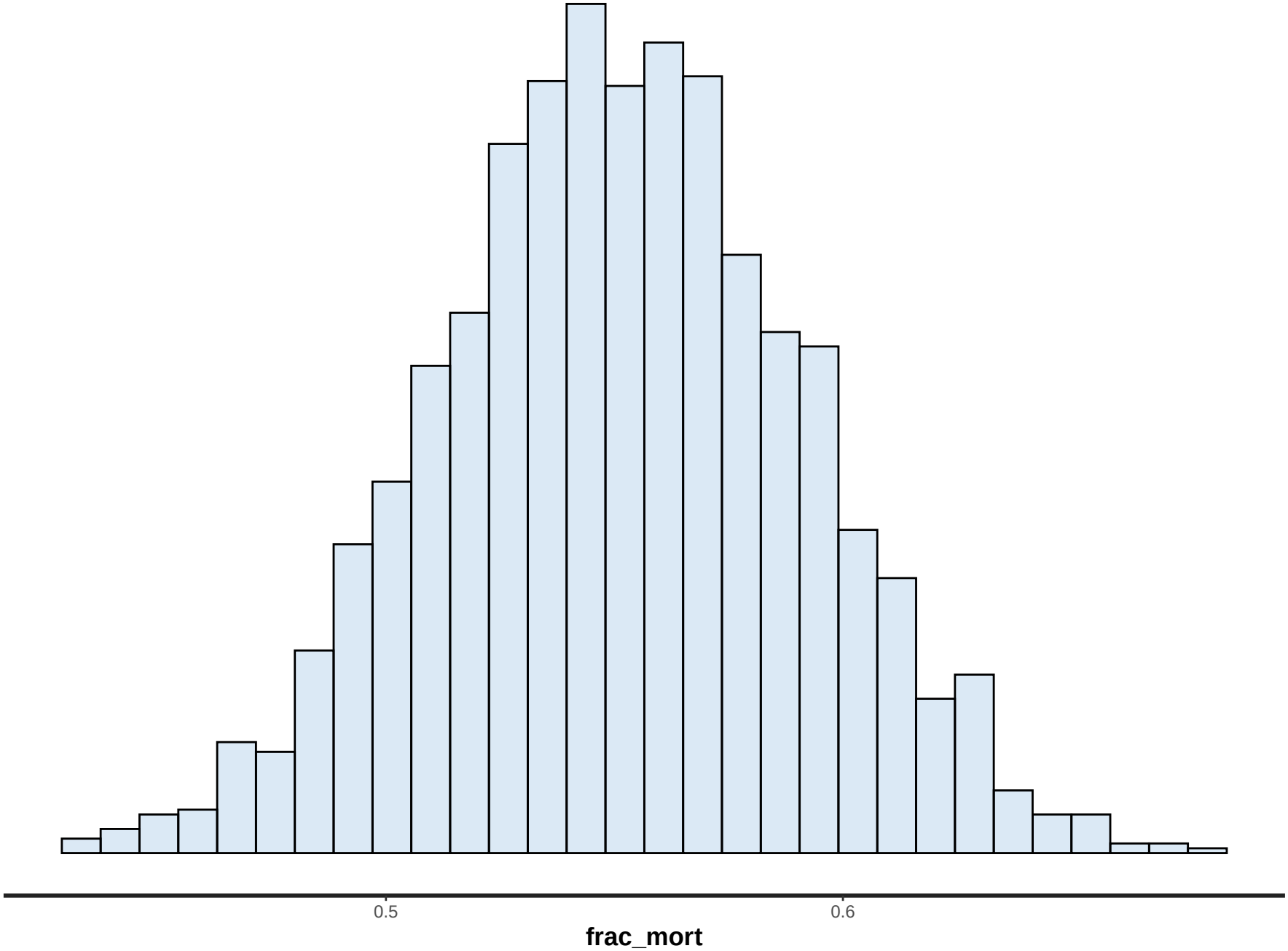
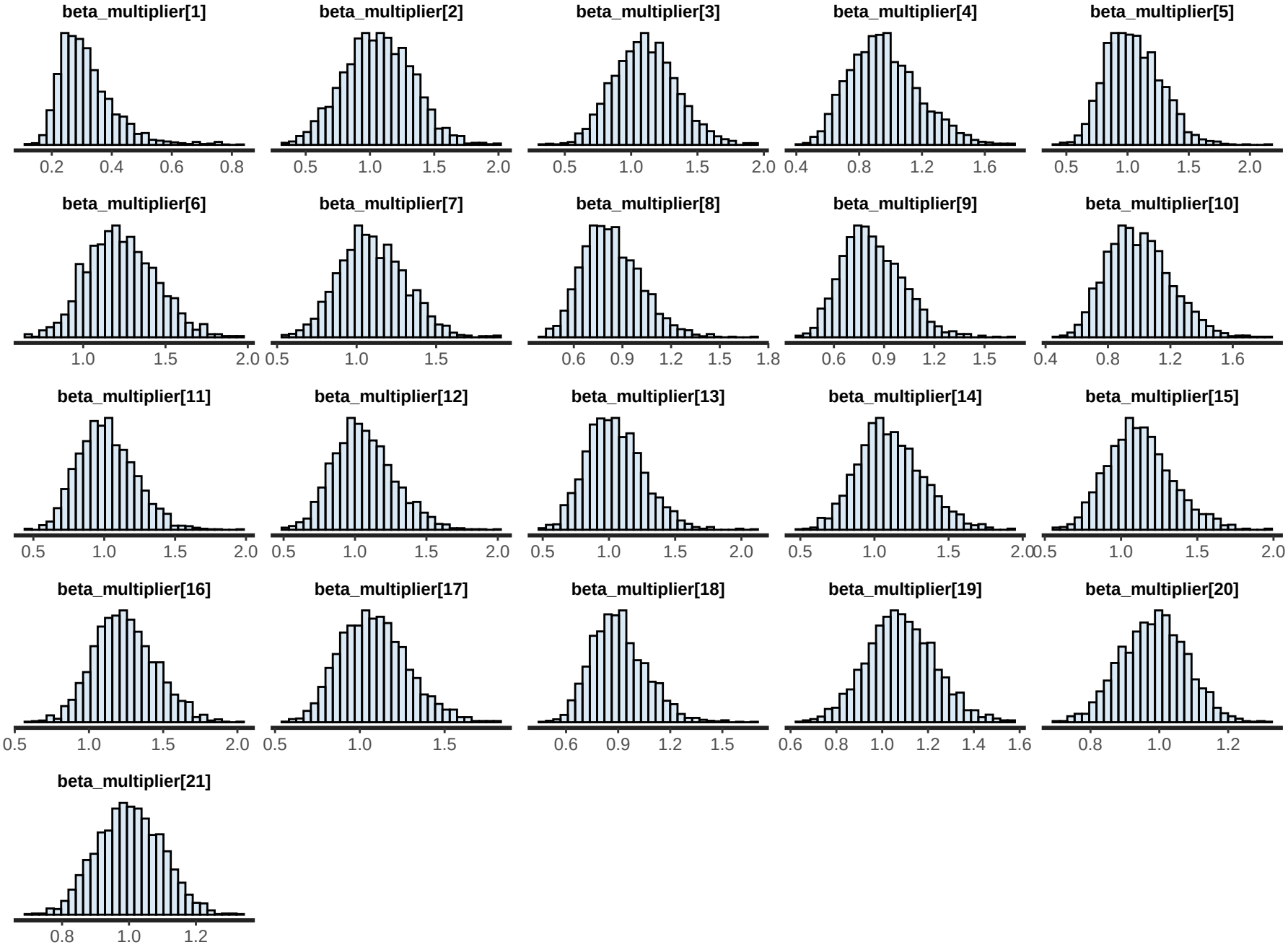
0.20
0.25
frac_icu


0.5
0.6
frac_mort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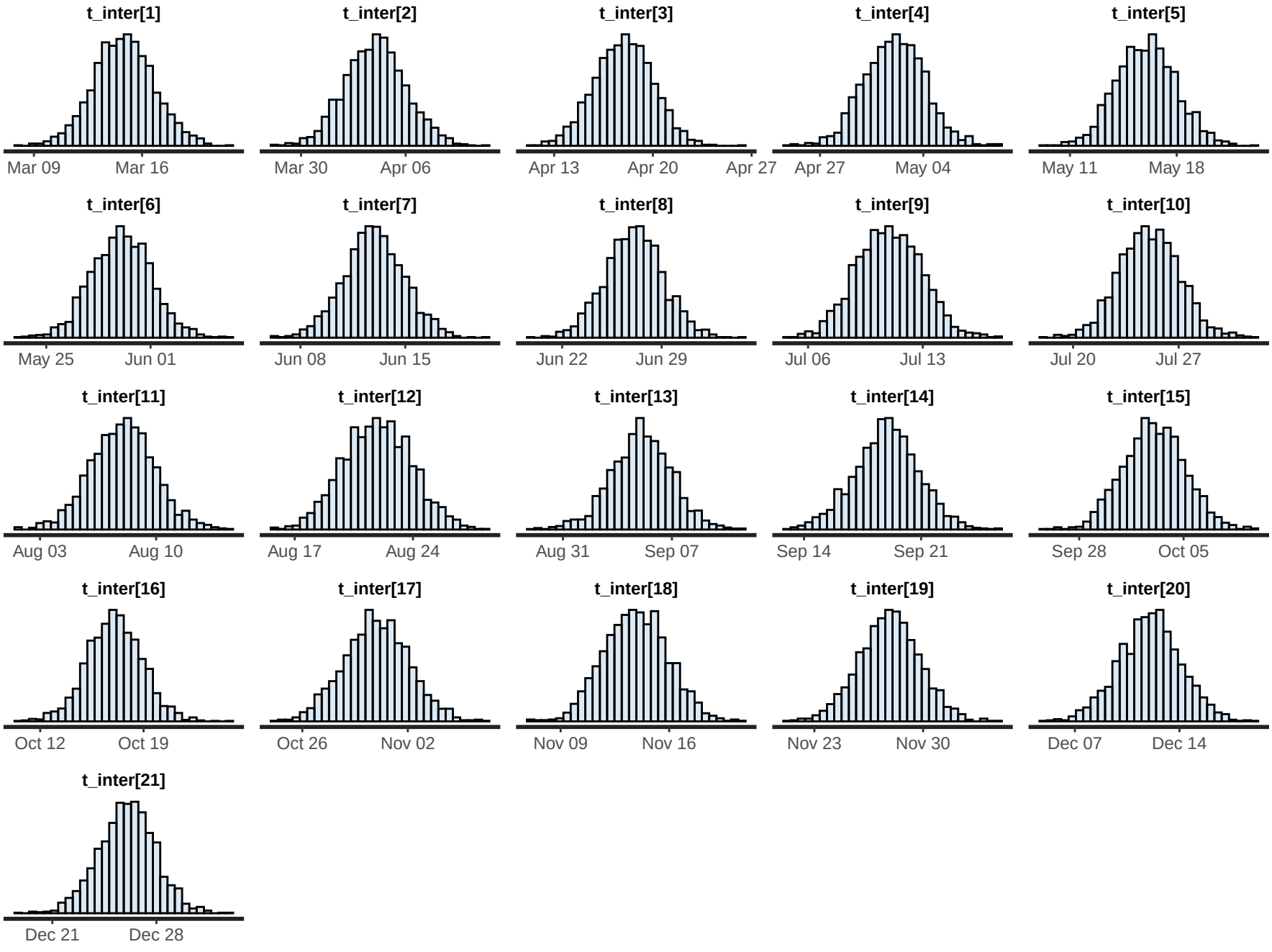
beta_multiplier[19]
beta_multiplier[20]
beta_multiplier[21]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Apr 27
May 04
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May 11
May 18
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May 25
Jun 01
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Jun 08
Jun 15
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Jun 29
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Jul 06
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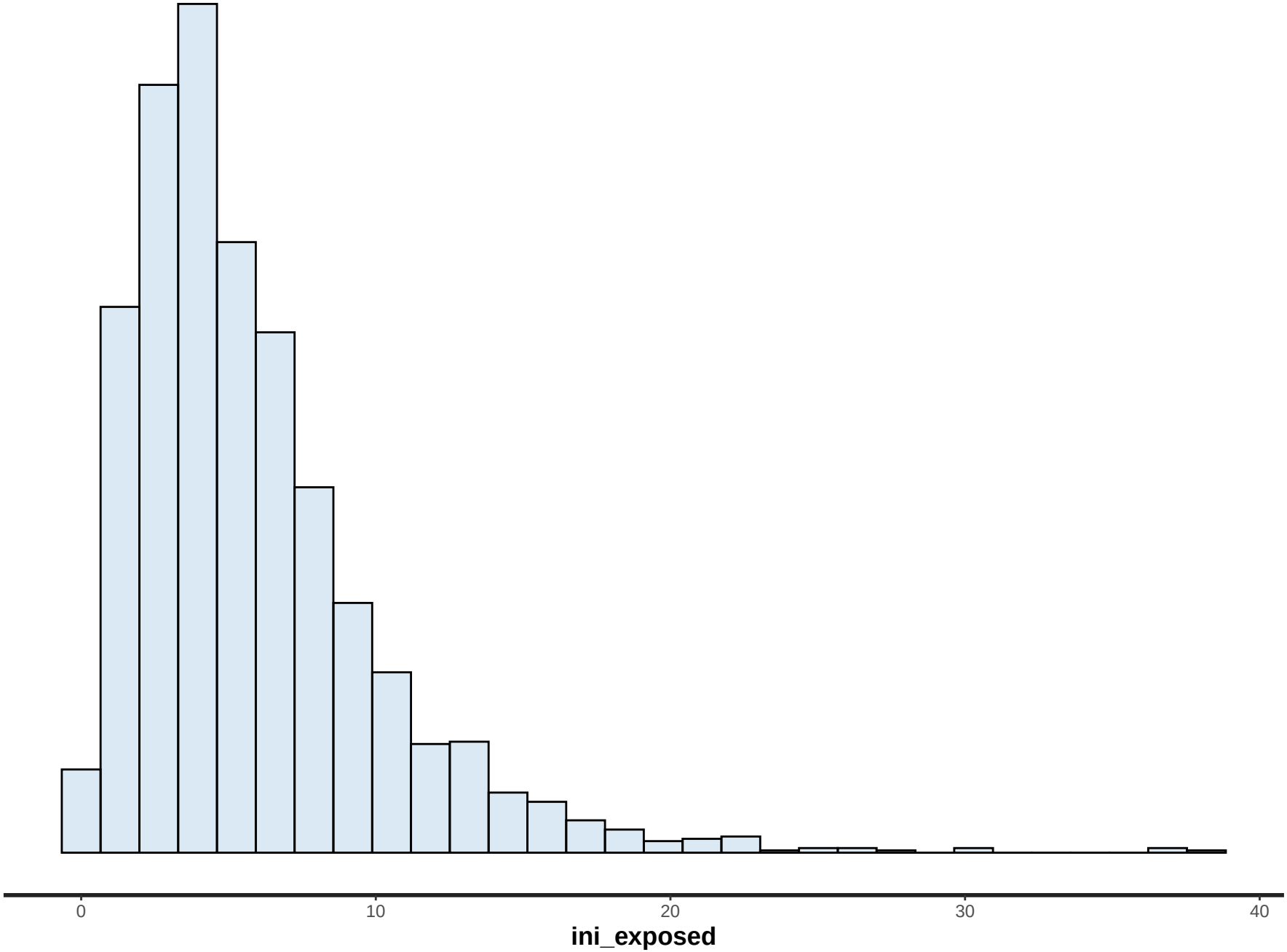
Dec 21
Dec 28


0
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20
30
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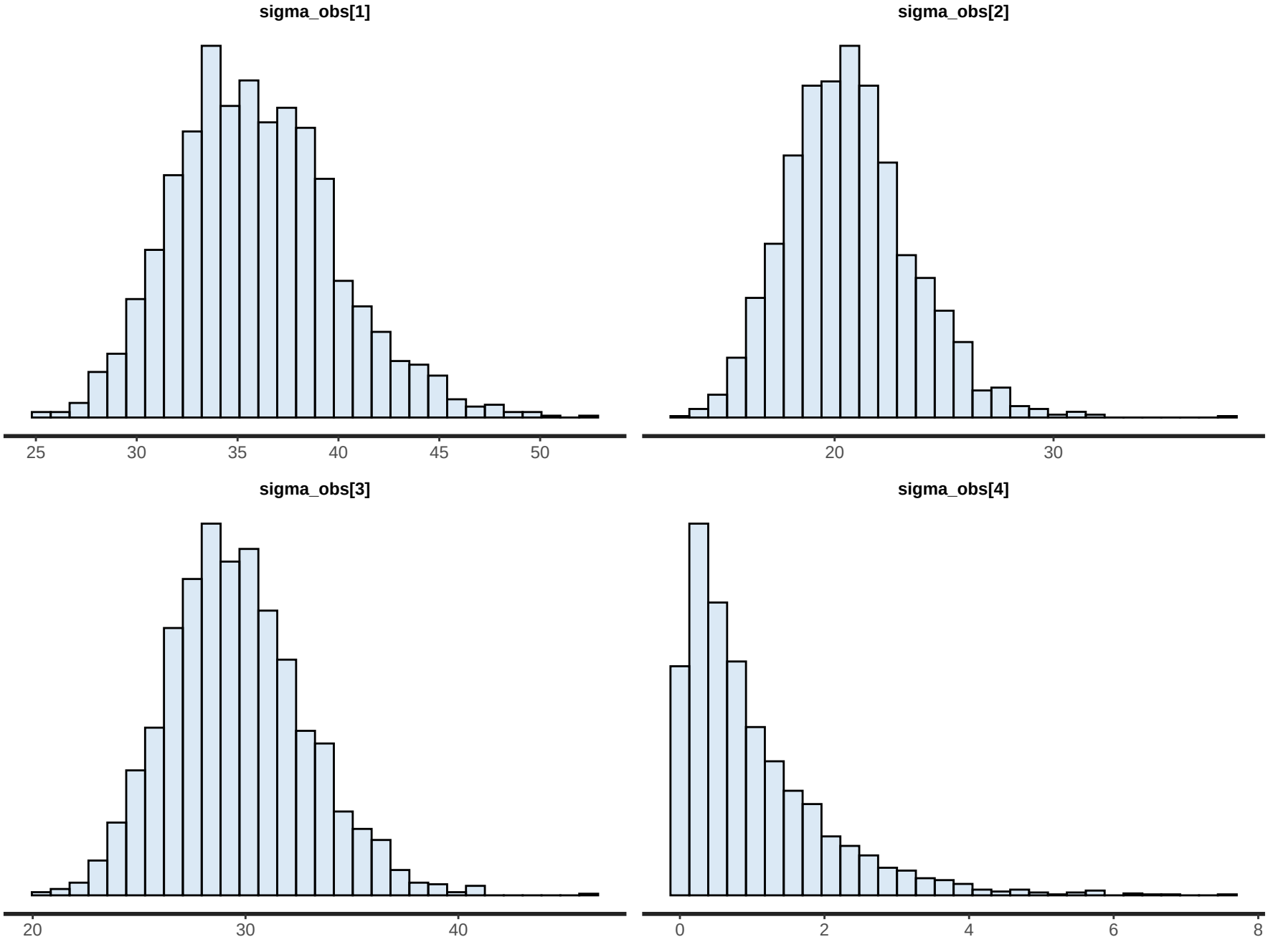
sigma_obs[1]
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sigma_obs[3]
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30
40
sigma_obs[4]
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4
6
8