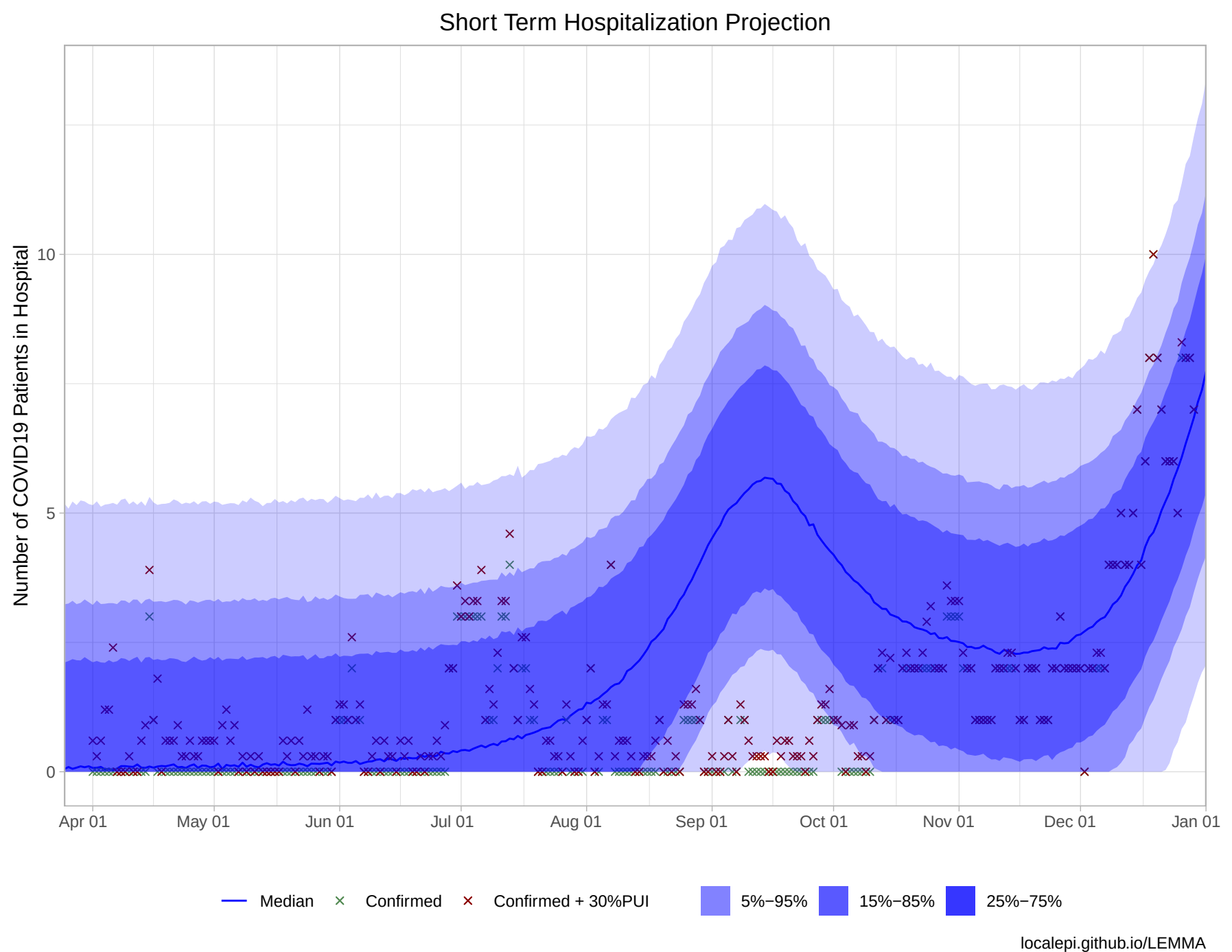
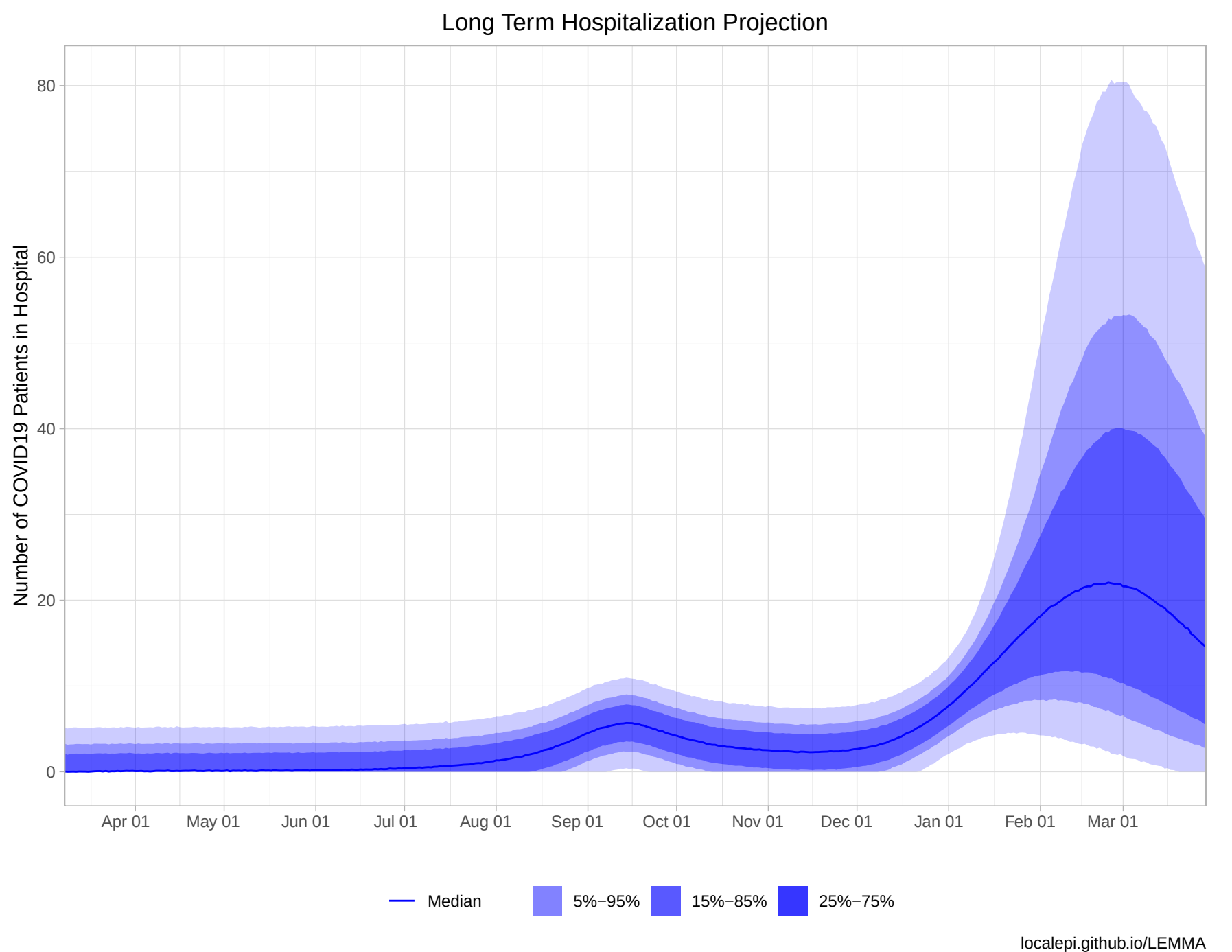
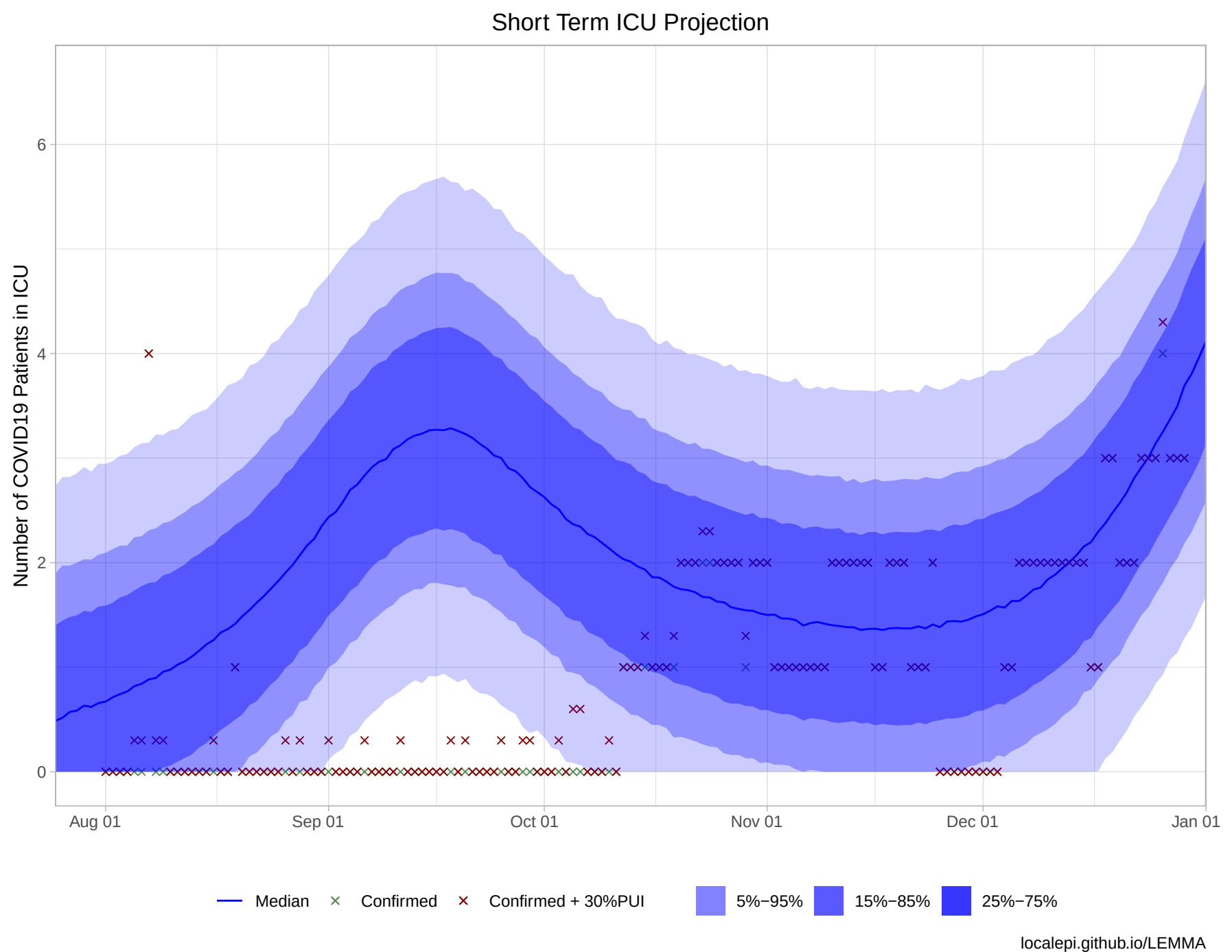
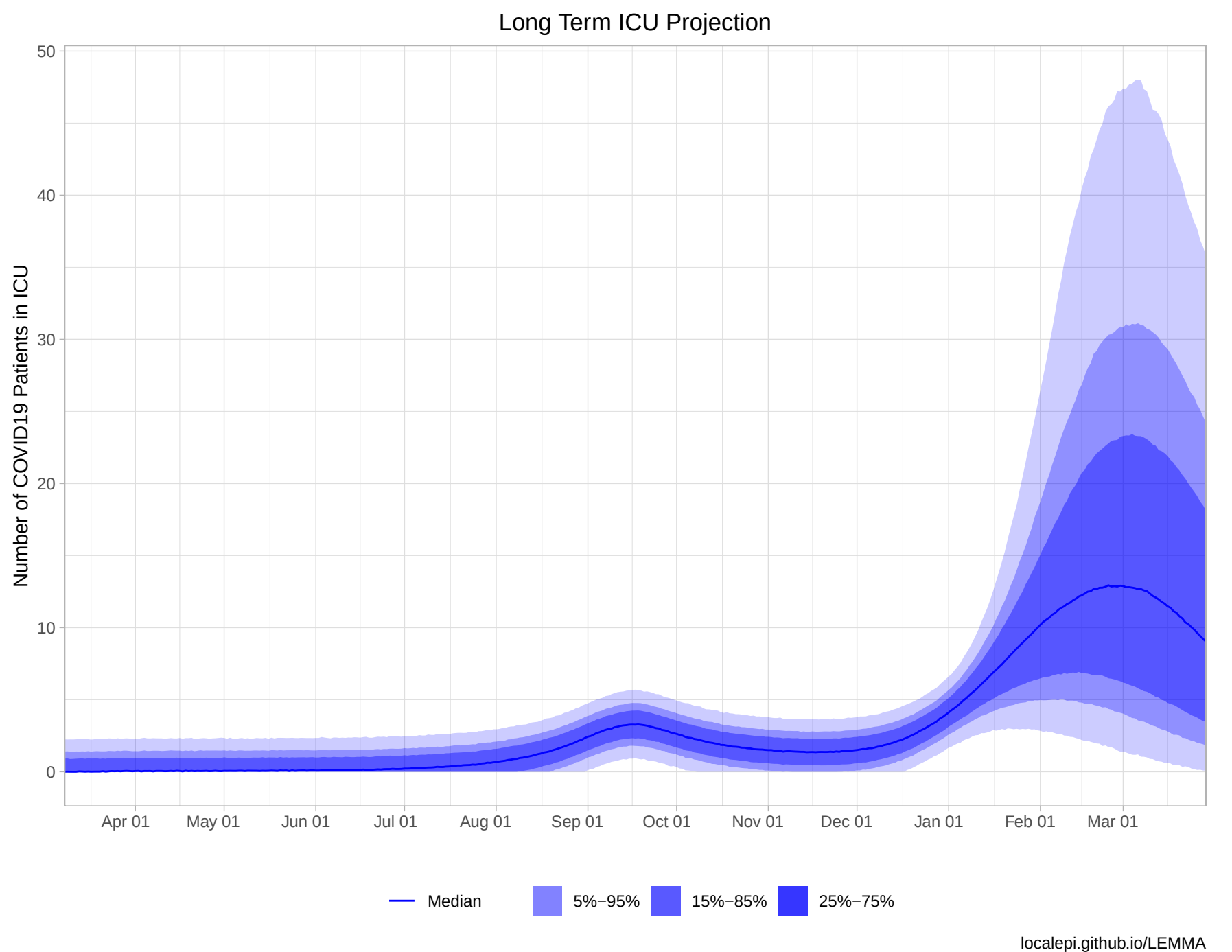
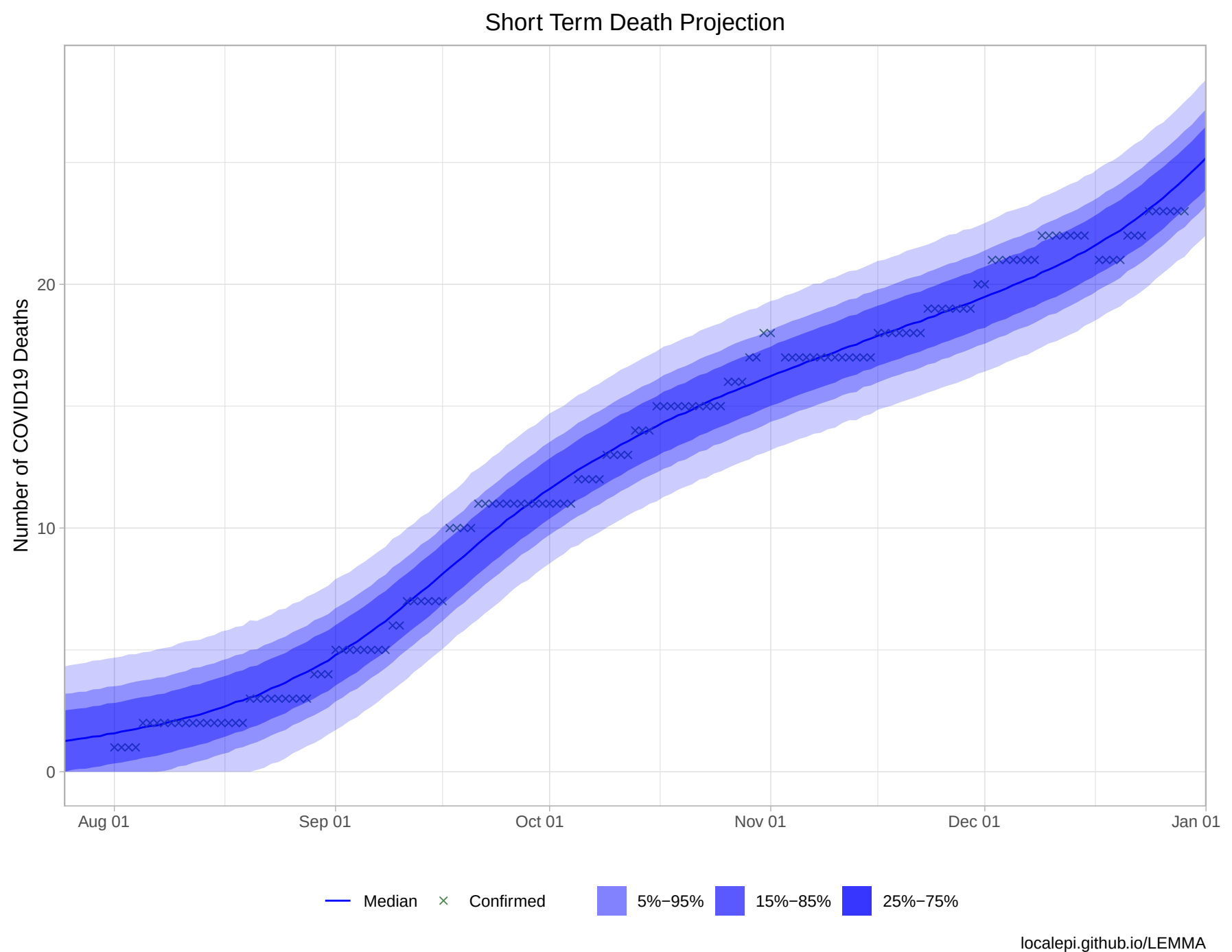
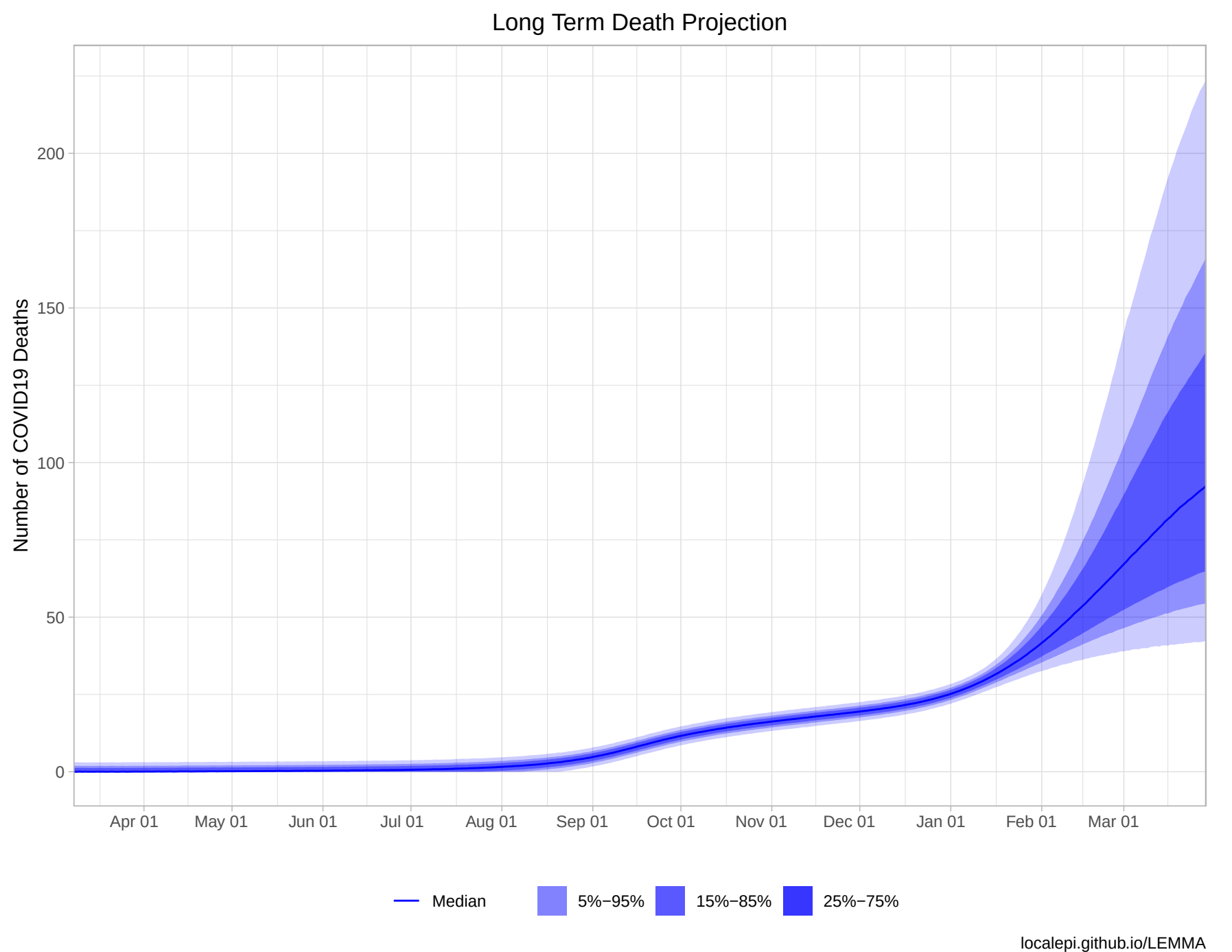

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
5
10
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

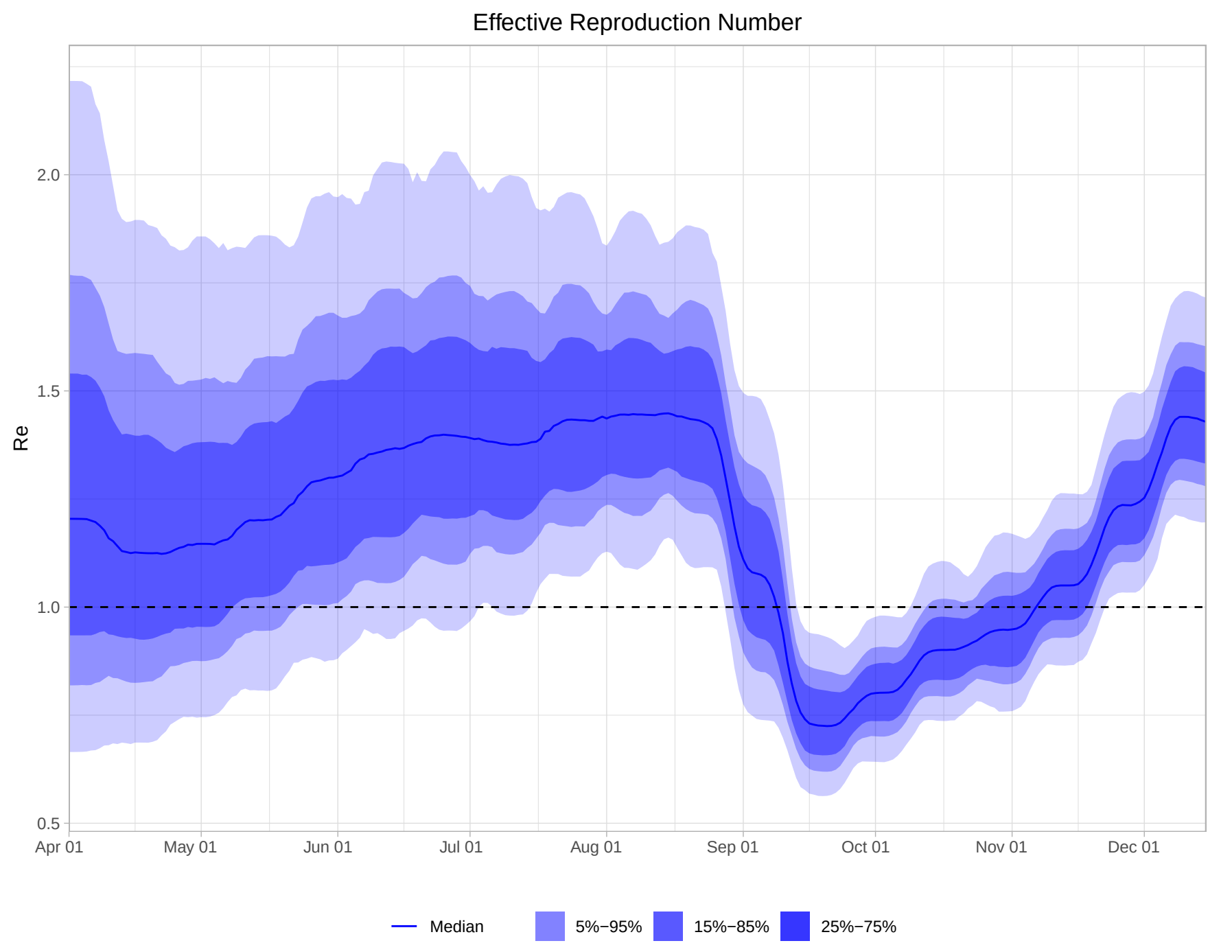

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
80
60
40
20
0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


Short Term ICU Projection
Number of COVID19 Patients in ICU
0
2
4
6
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
50
40
30
20
10
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

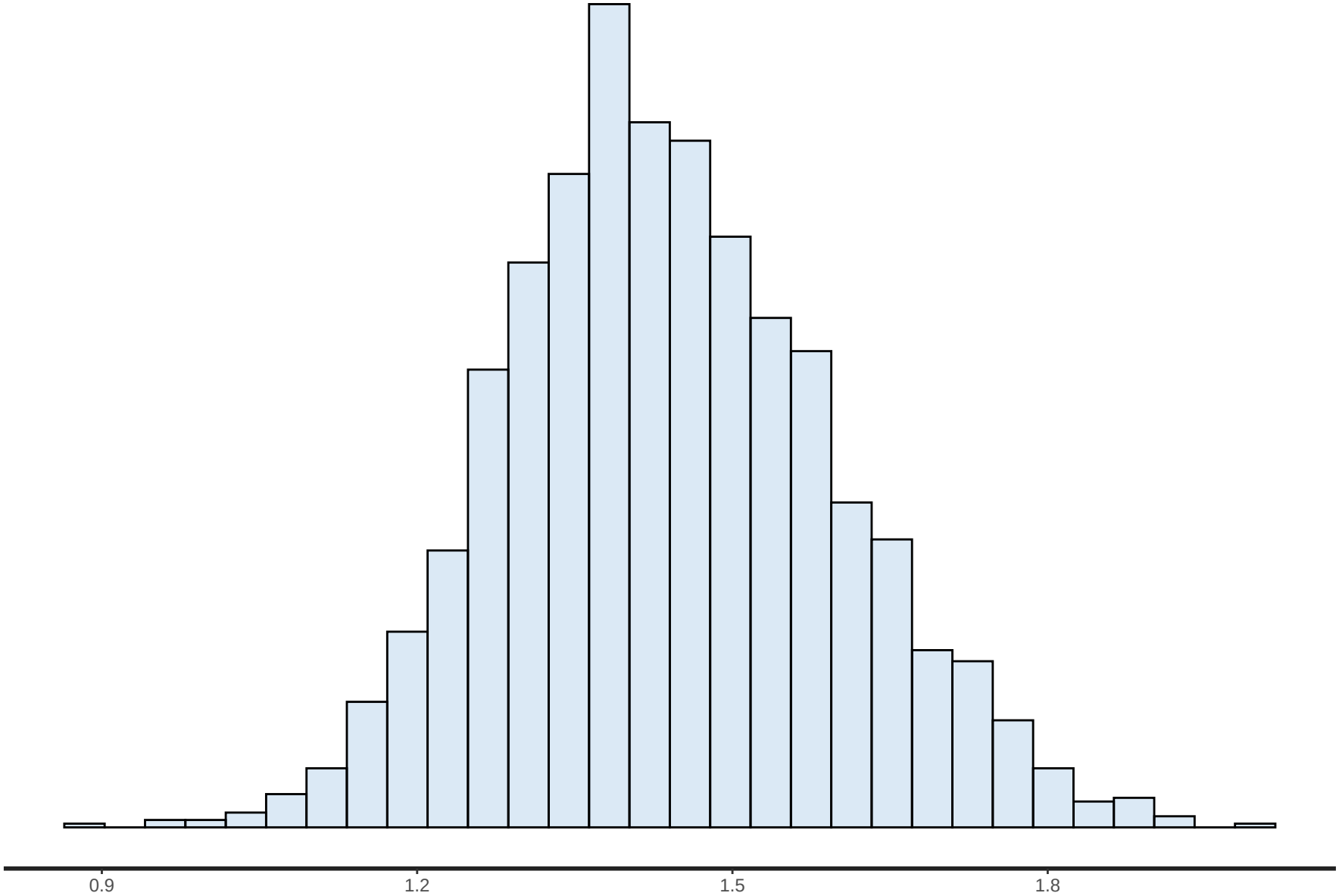

Short Term Death Projection
Number of COVID19 Deaths
0
10
20
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

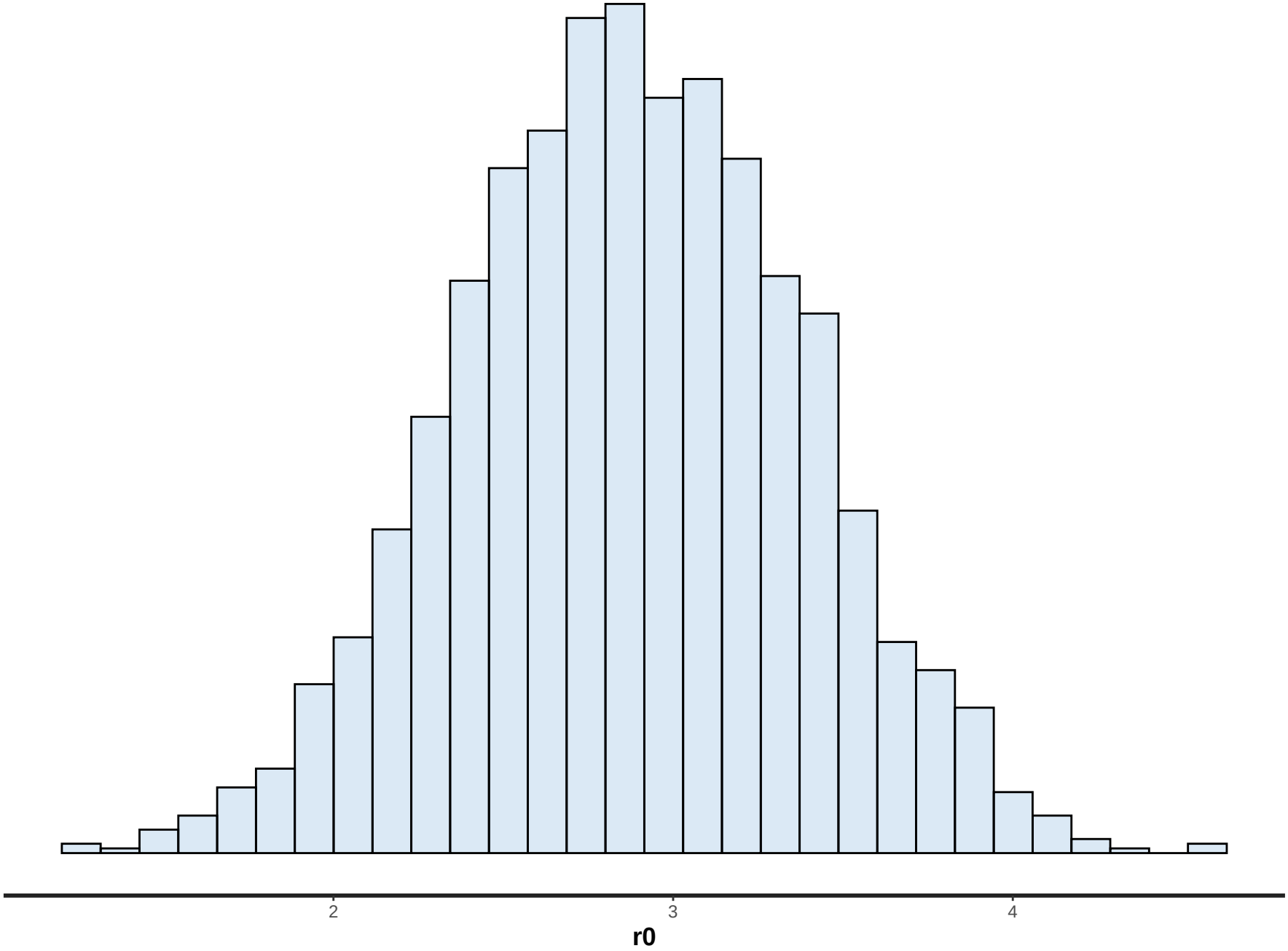

Long Term Death Projection
Number of COVID19 Deaths
200
150
100
50
0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

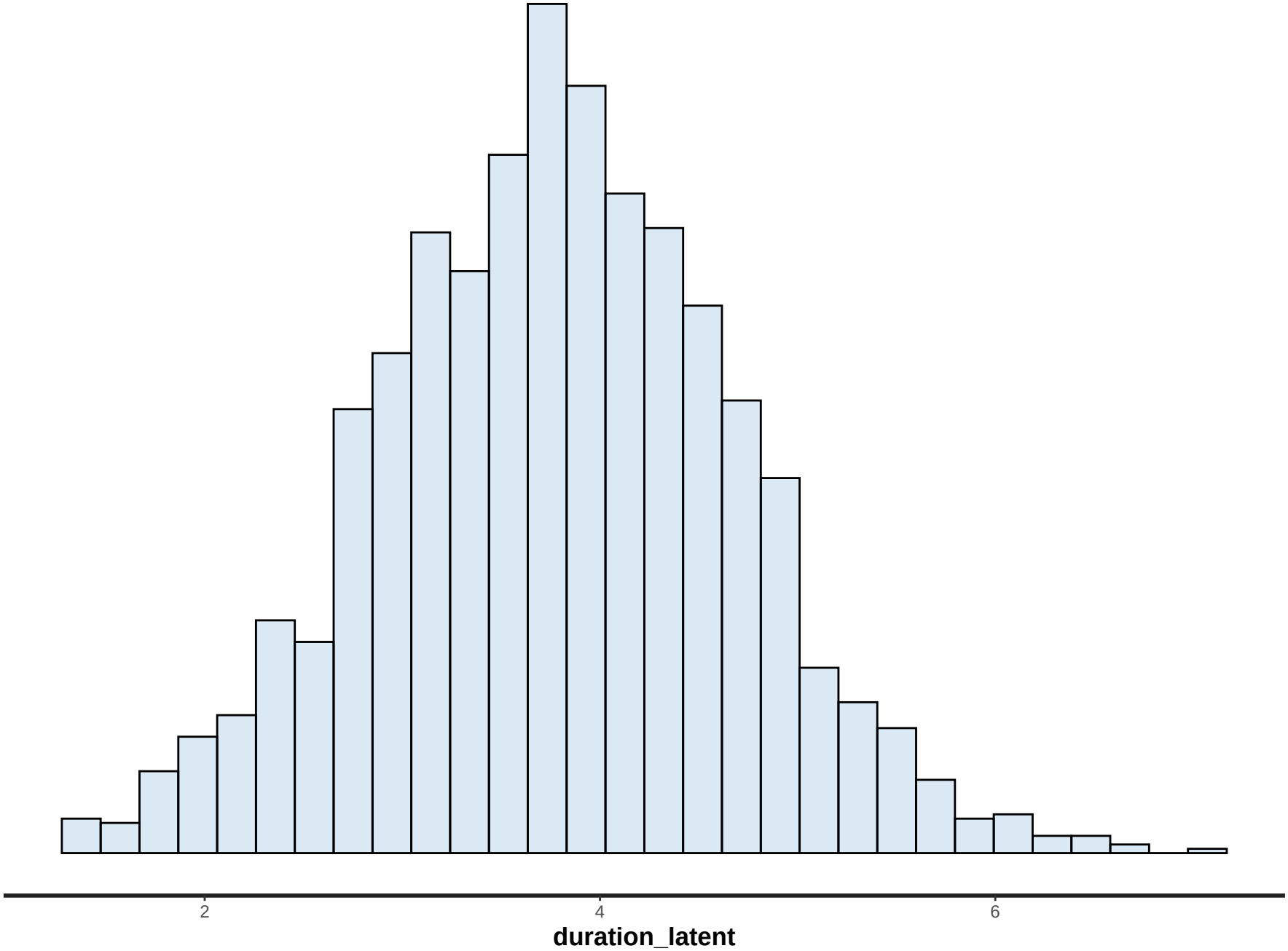

Effective Reproduction Number
Re
2.0
1.5
1.0
0.5
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
5%−95%
15%−85%
25%−75%

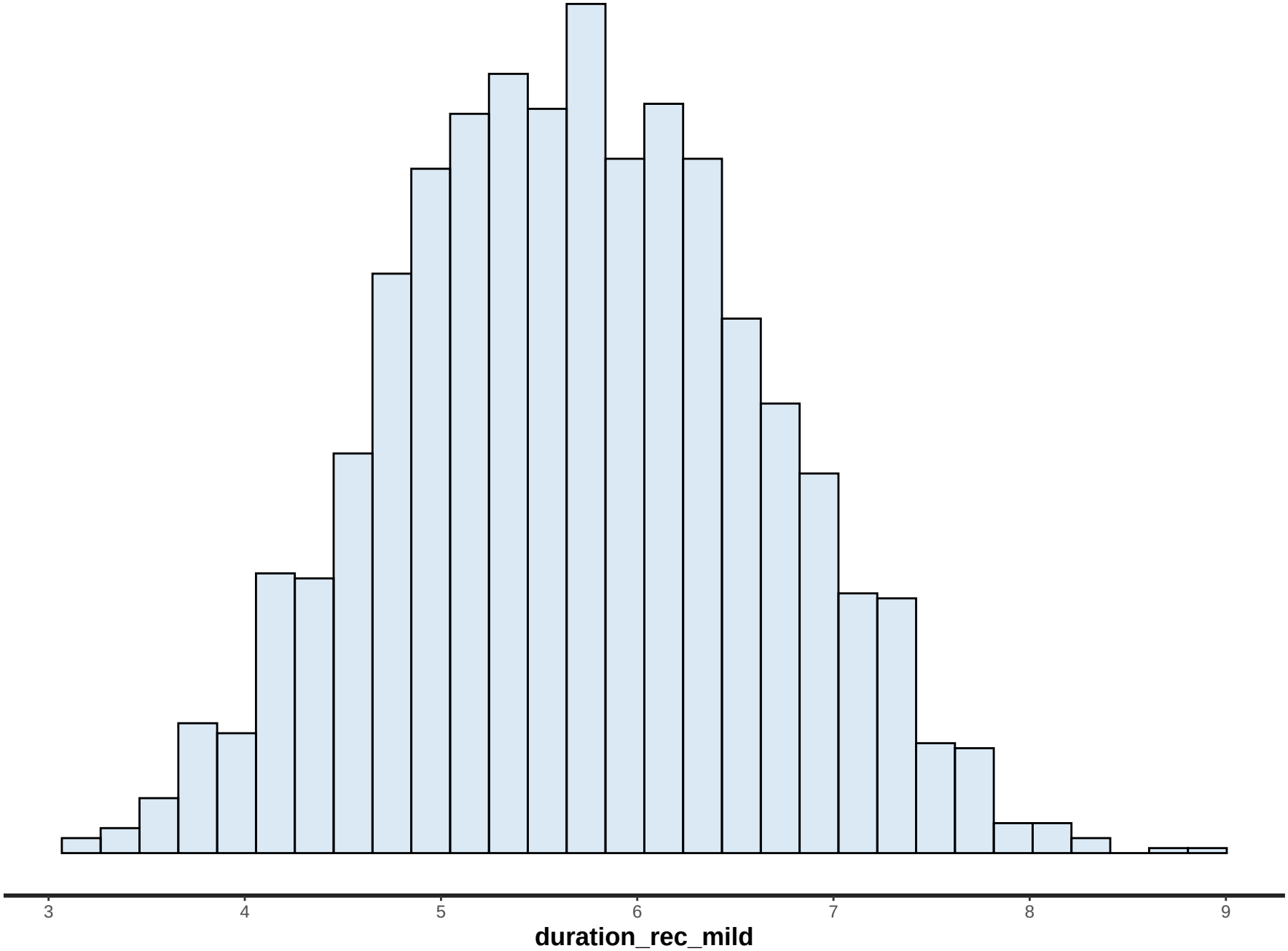
Rt as of 2020−12−15

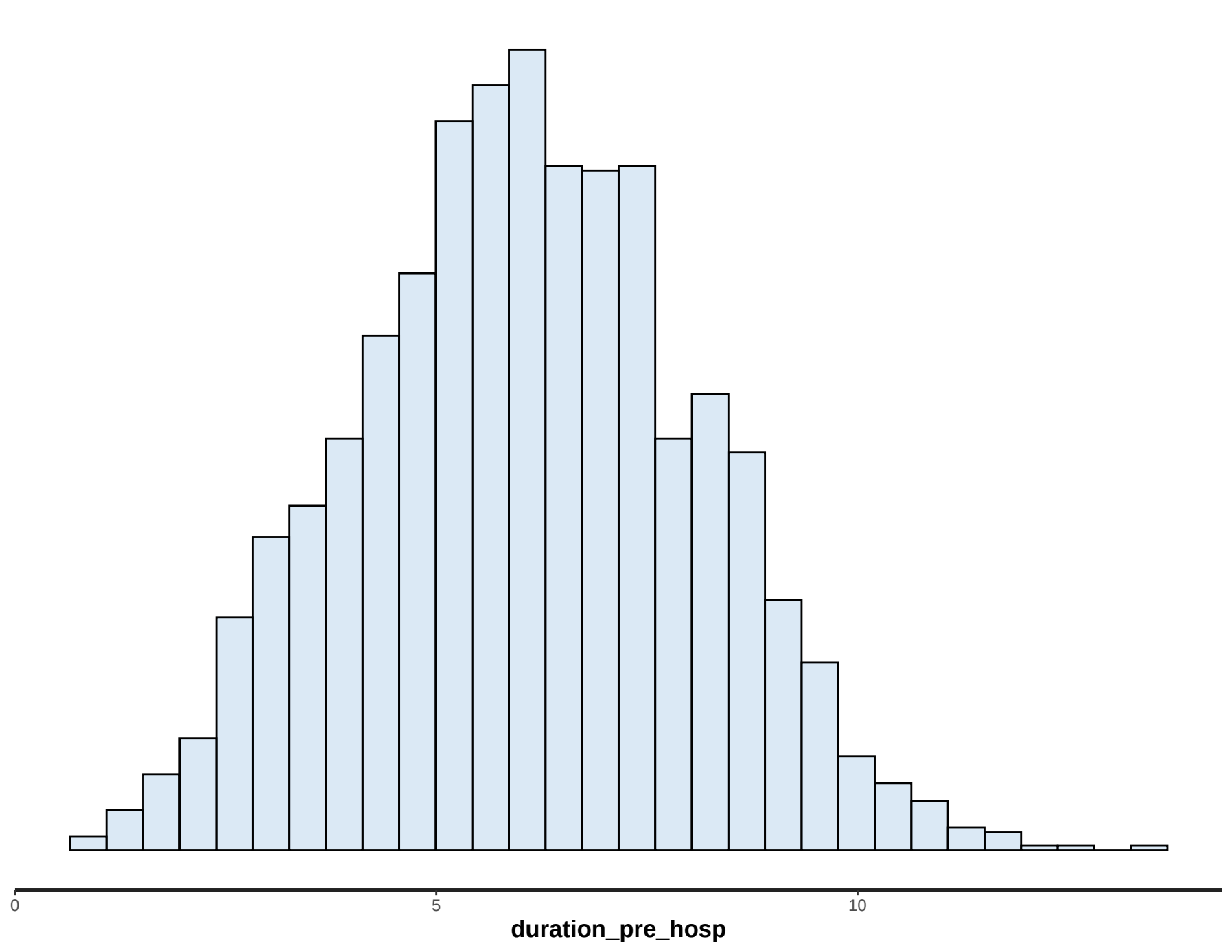
5%	10%	25%	50%	75%	90%	95%
1.20	1.25	1.33	1.43	1.54	1.65	1.72

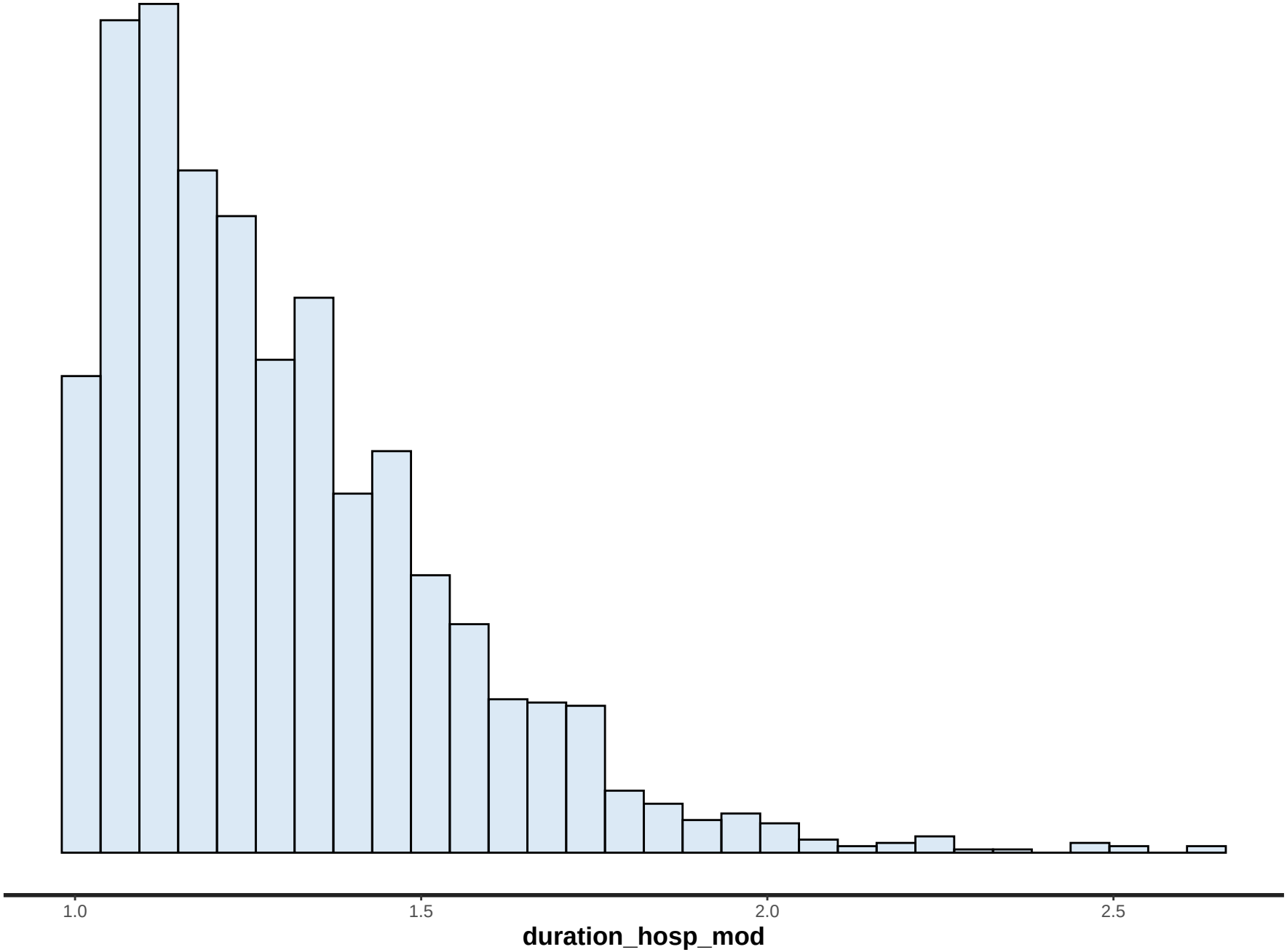


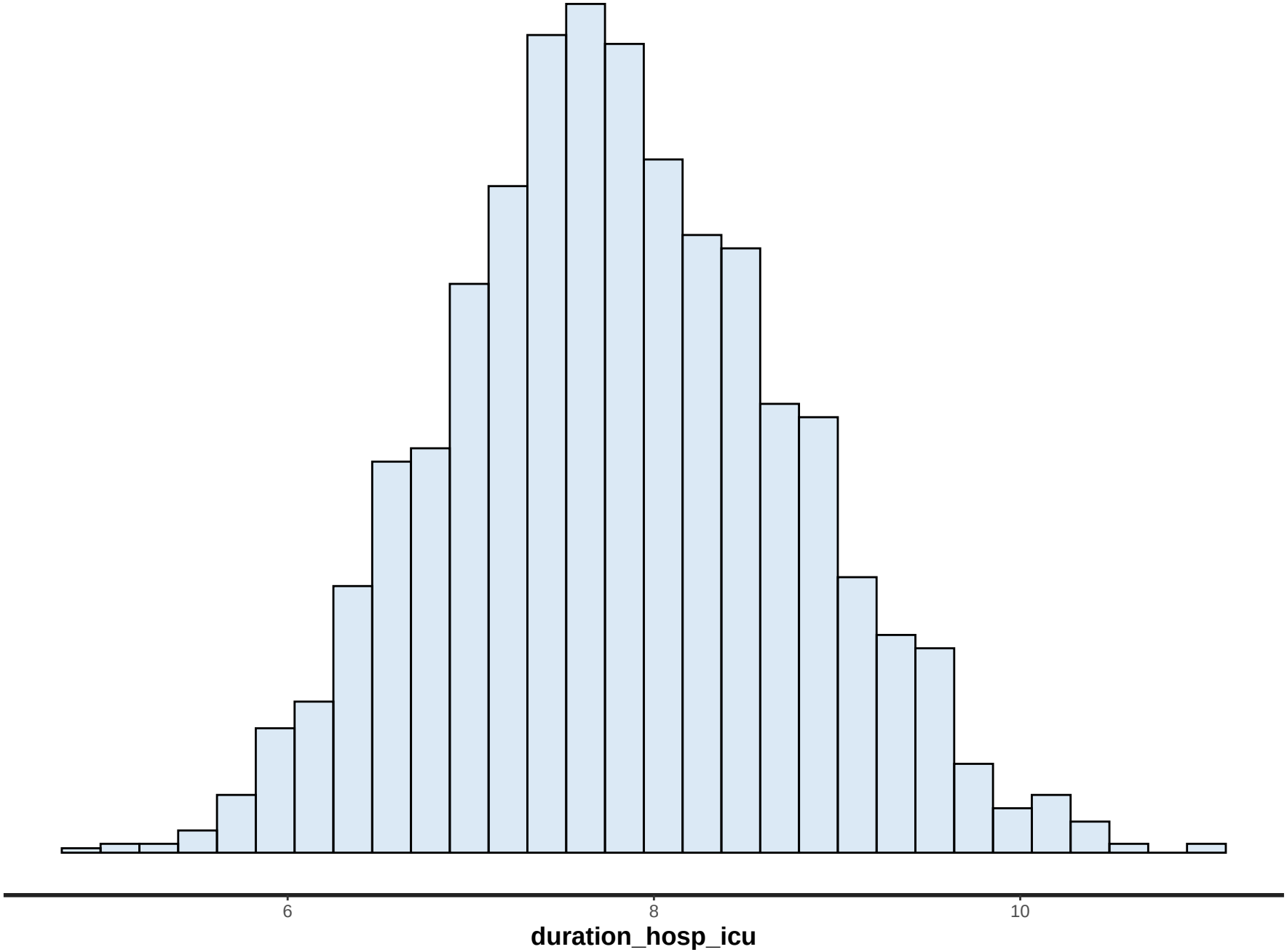

2
3
4
r0

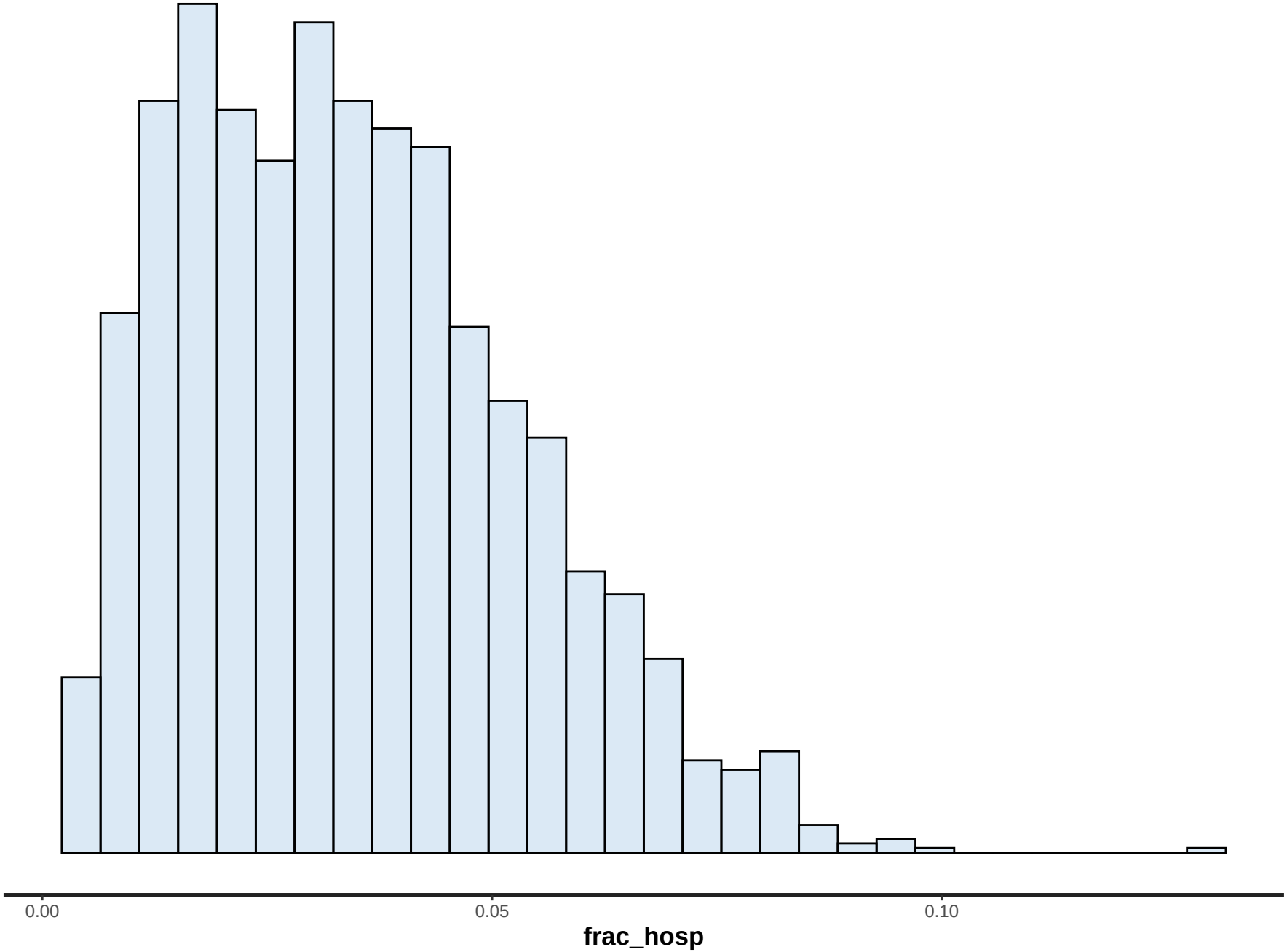

2
4
6
duration_latent

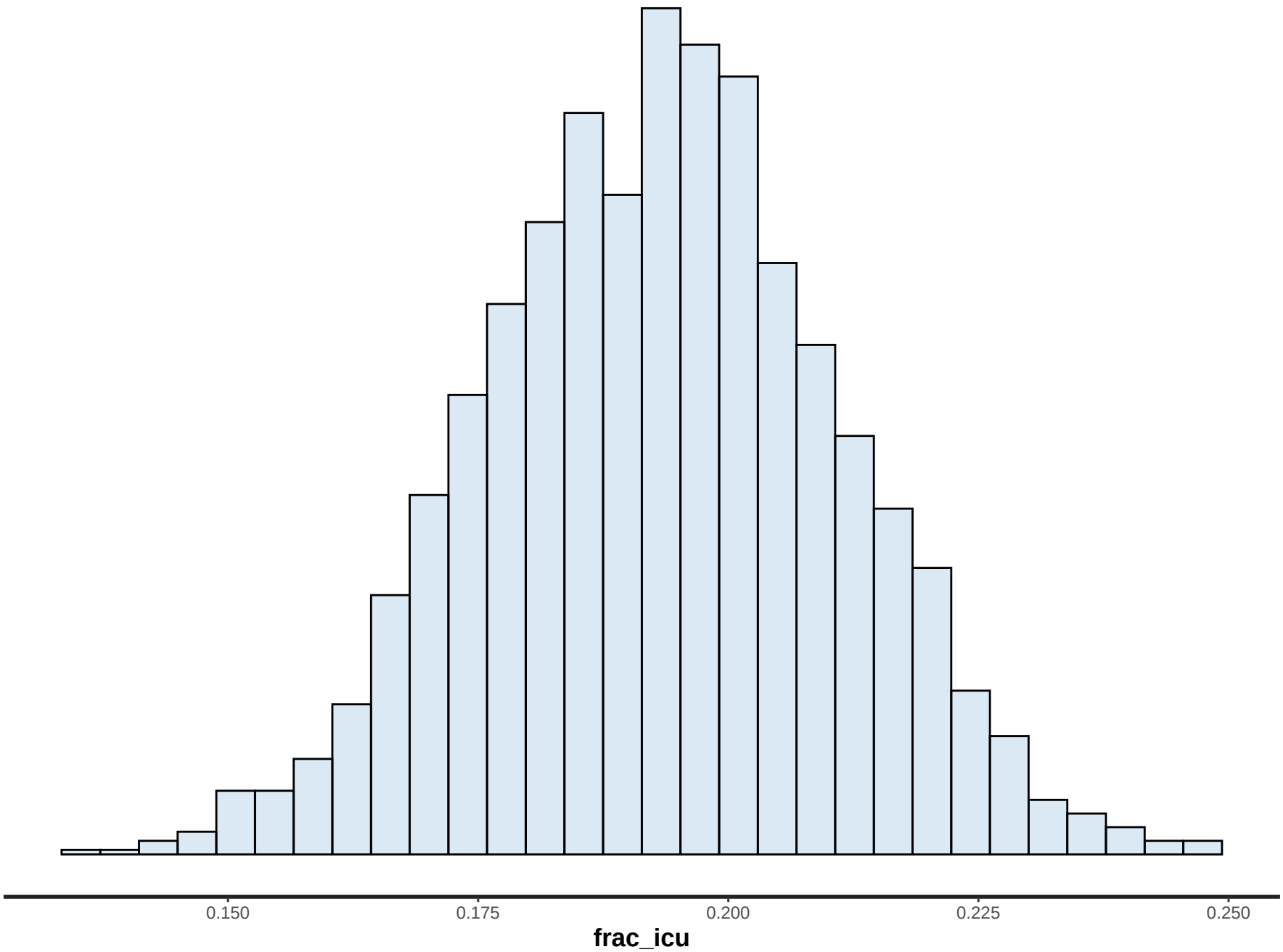

3
4
5
6
7
8
9
duration_rec_mild

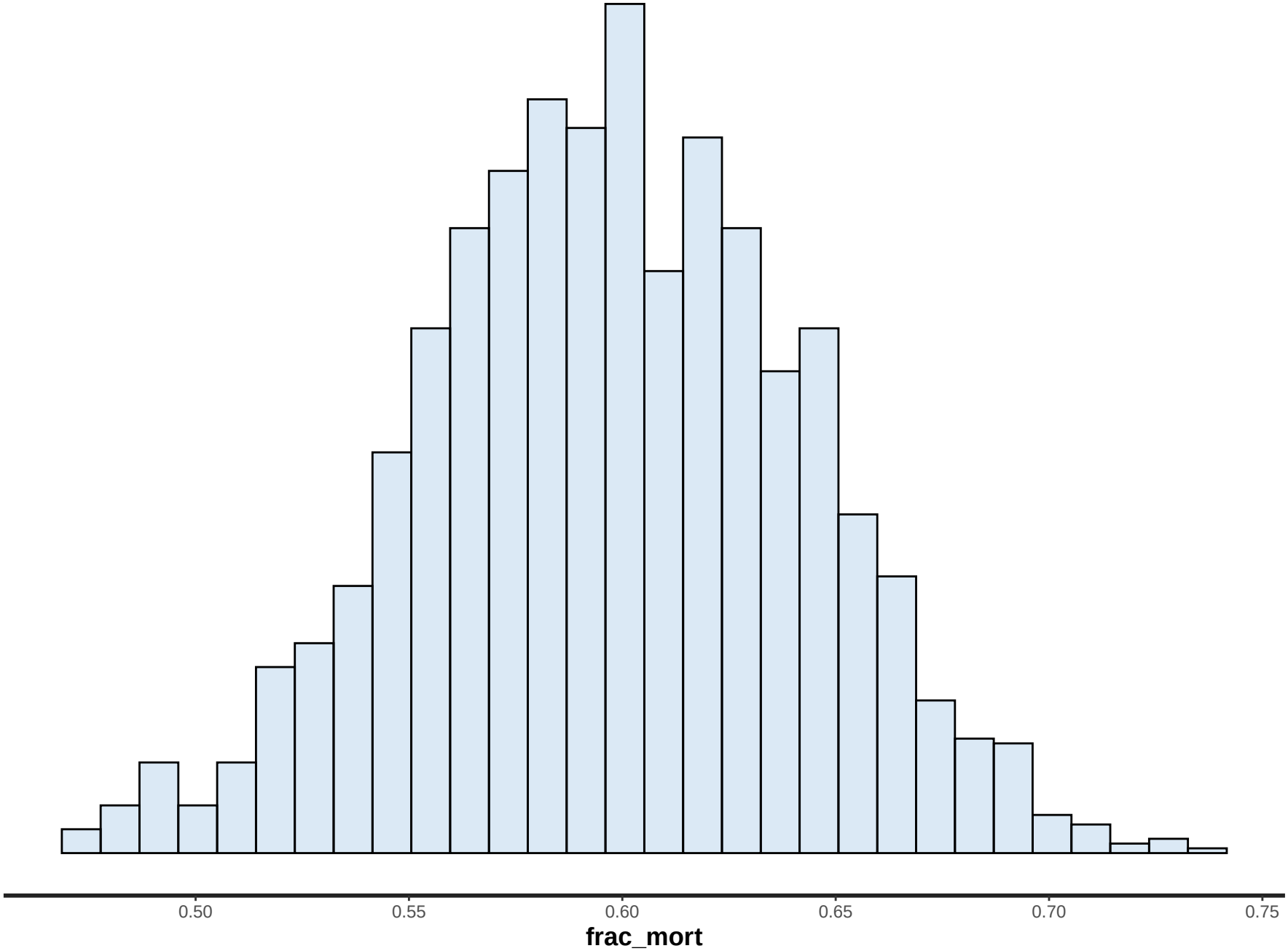

0
5
10
duration_pre_hosp

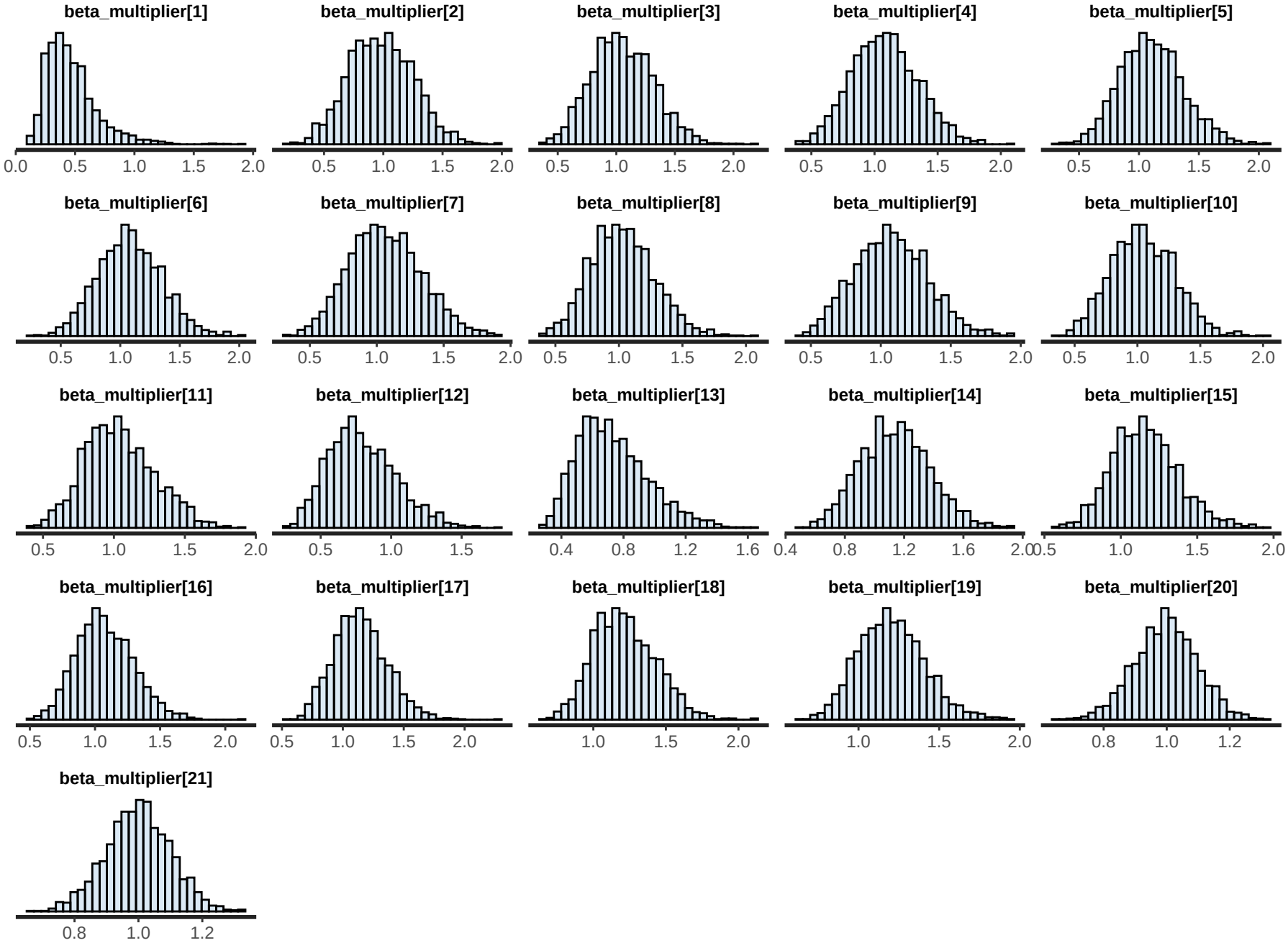

1.0
1.5
2.0
2.5
duration_hosp_mod


6
8
10
duration_hosp_icu


0.00
0.05
0.10
frac_hosp


0.150
0.175
0.200
0.225
0.250
frac_icu


0.50
0.55
0.60
0.65
0.70
0.75
frac_mort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beta_multiplier[11]
beta_multiplier[12]
beta_multiplier[13]
beta_multiplier[14]
beta_multiplier[15]
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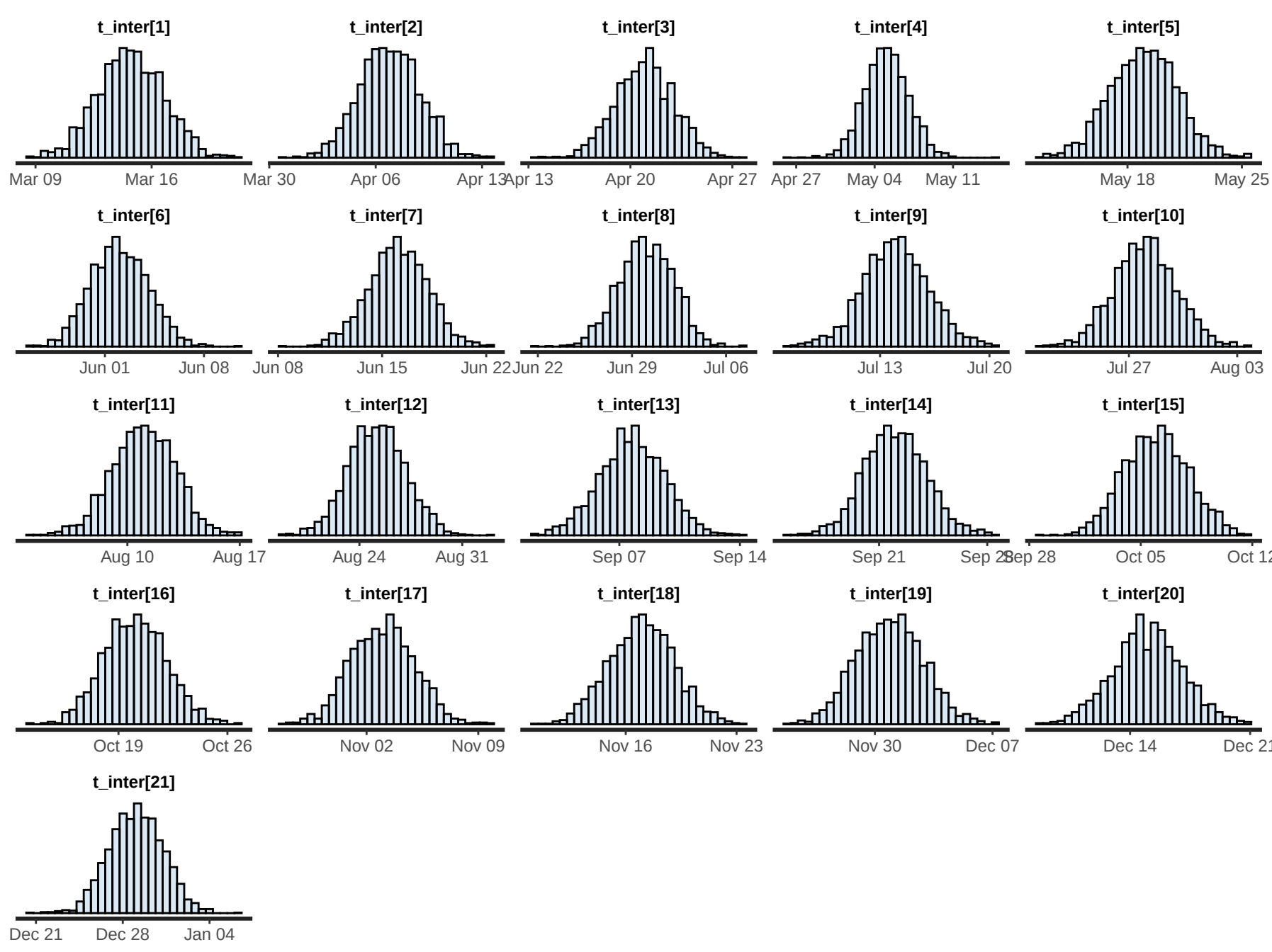
beta_multiplier[19]
beta_multiplier[20]
beta_multiplier[21]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Mar 09
Mar 16
Mar 30
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Apr 13
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Apr 13
Apr 20
Apr 27
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May 04
May 11
t_inter[5]
May 18
May 25
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Jun 01
Jun 08
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Jun 15
Jun 22
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Nov 02
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Dec 07
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Dec 14
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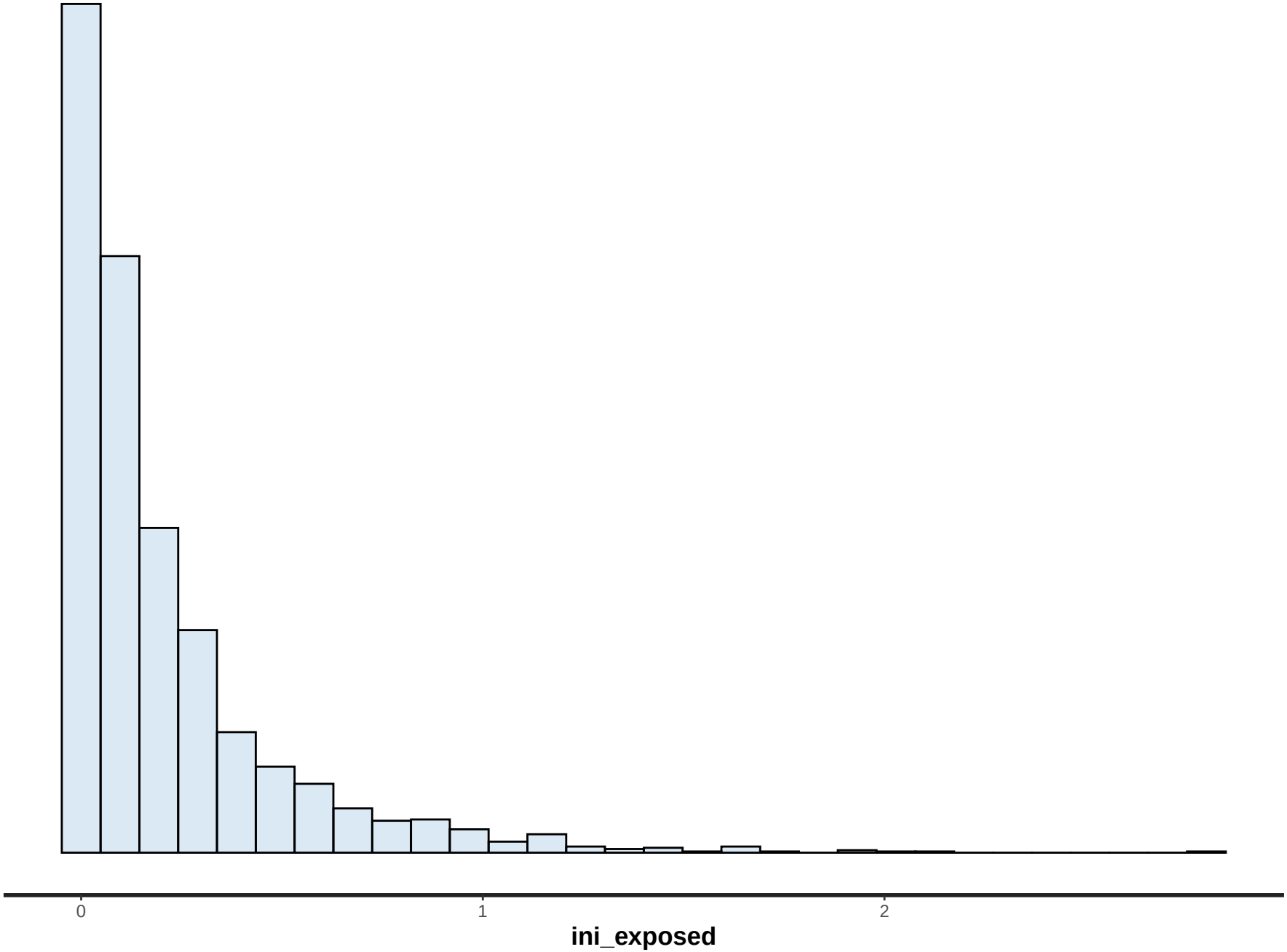
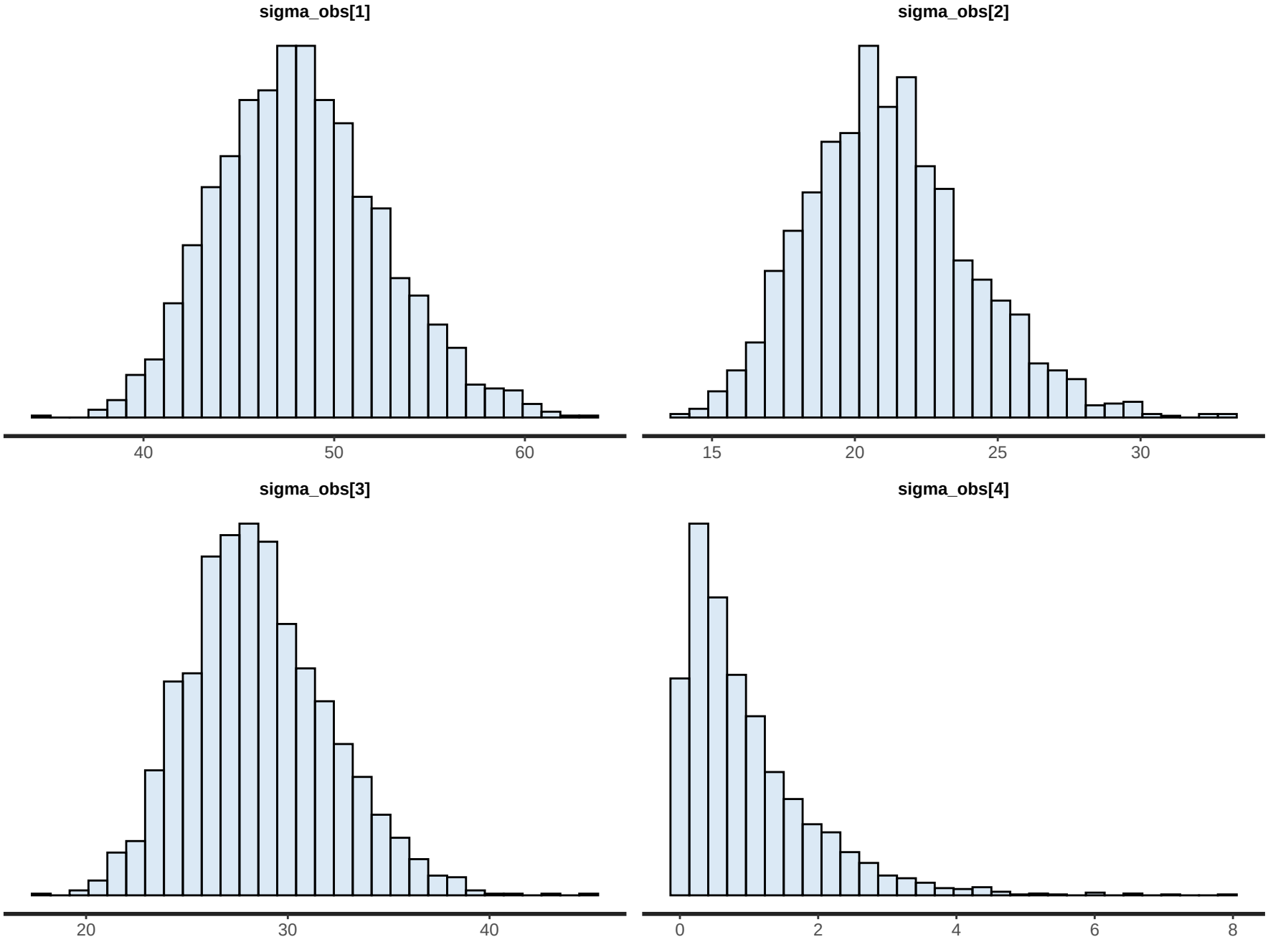
Dec 21
Dec 28
Jan 04


0
1
2
ini_exposed


sigma_obs[1]
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50
60
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15
20
25
30
sigma_obs[3]
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30
40
sigma_obs[4]
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2
4
6
8