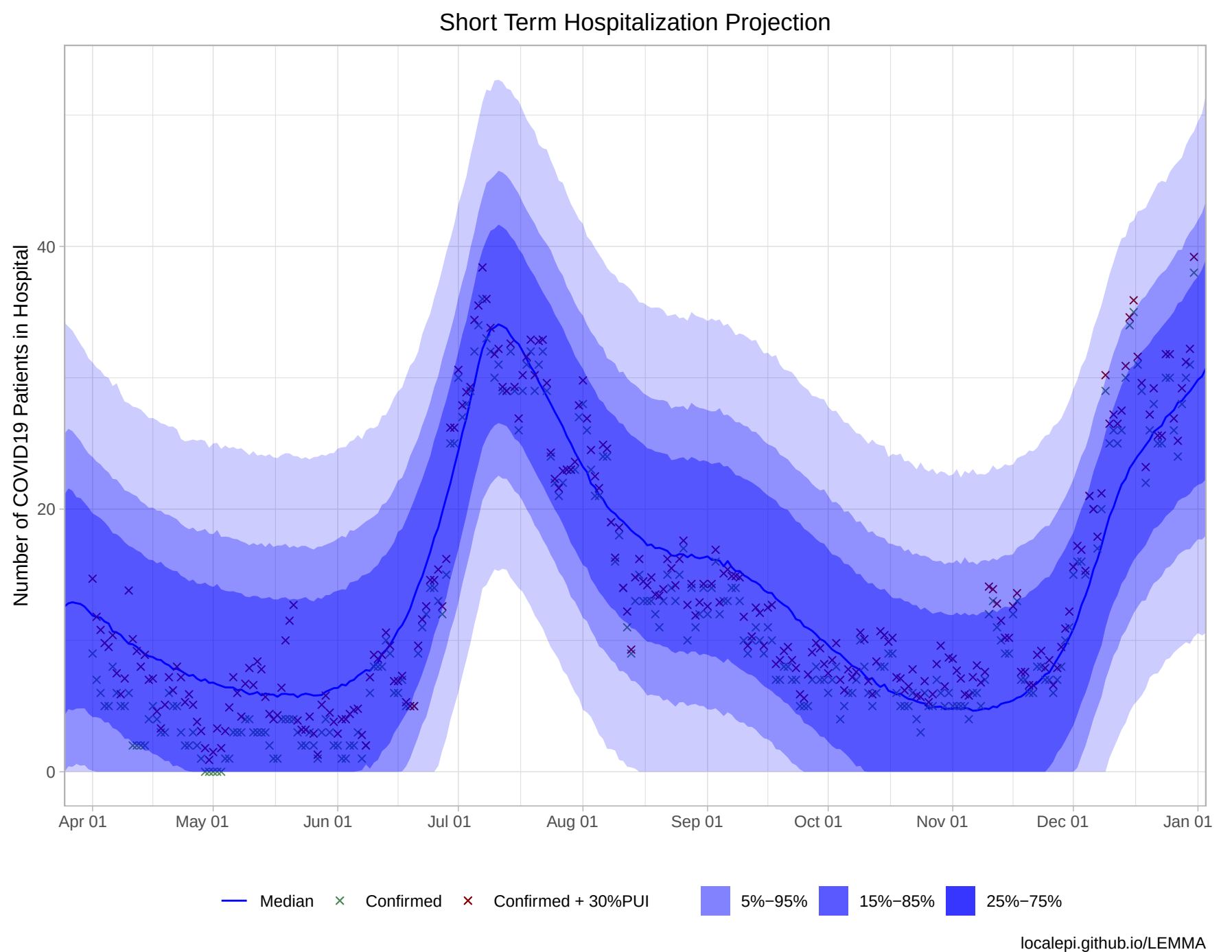
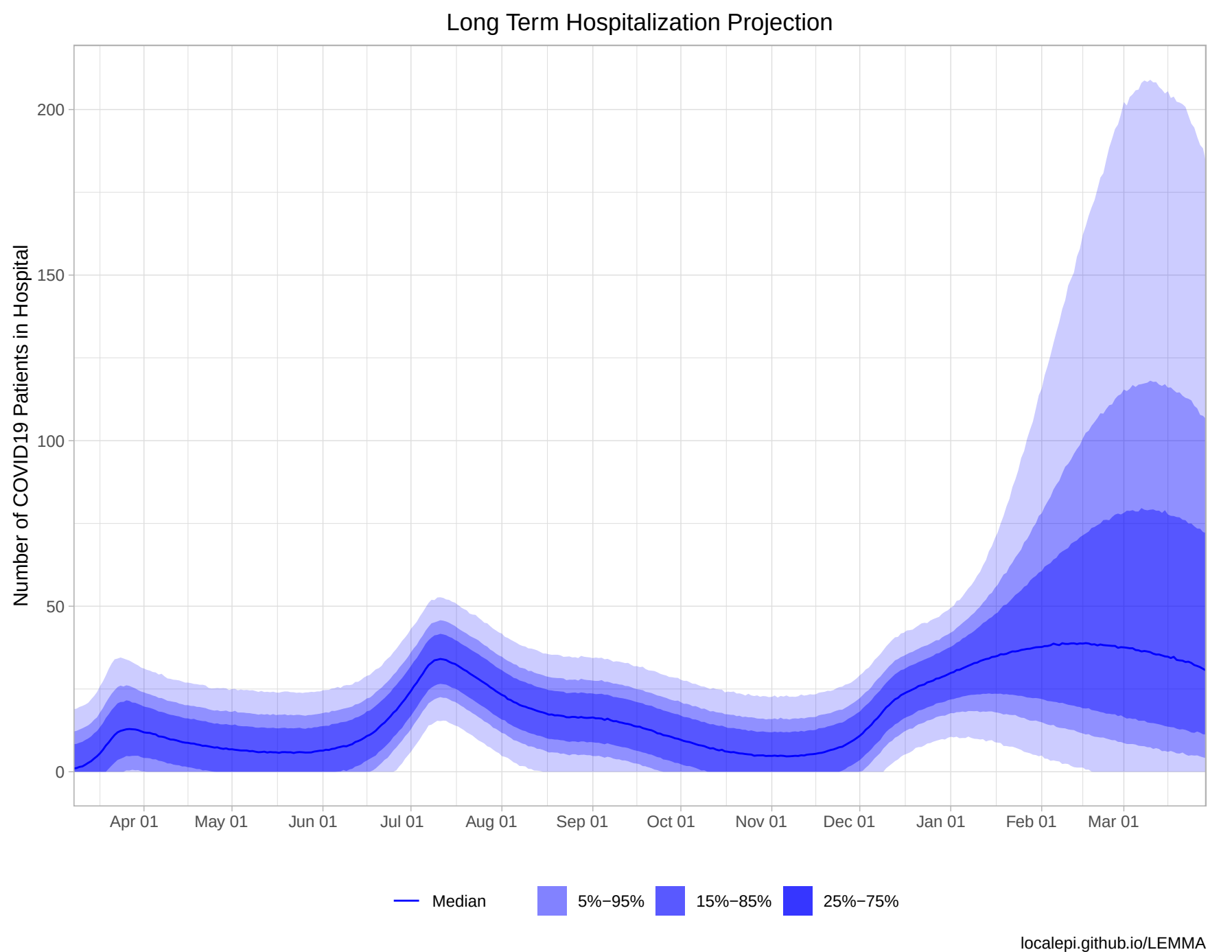
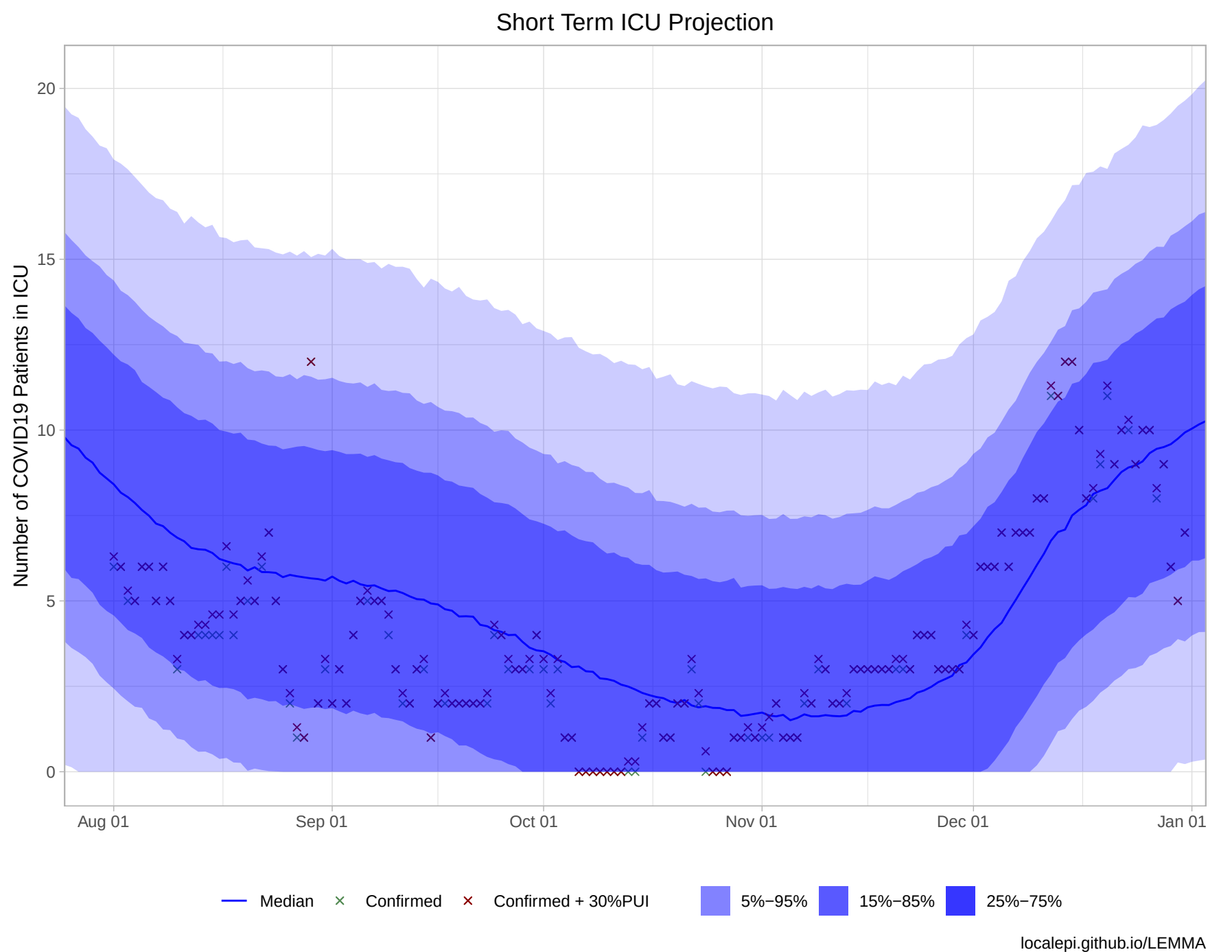
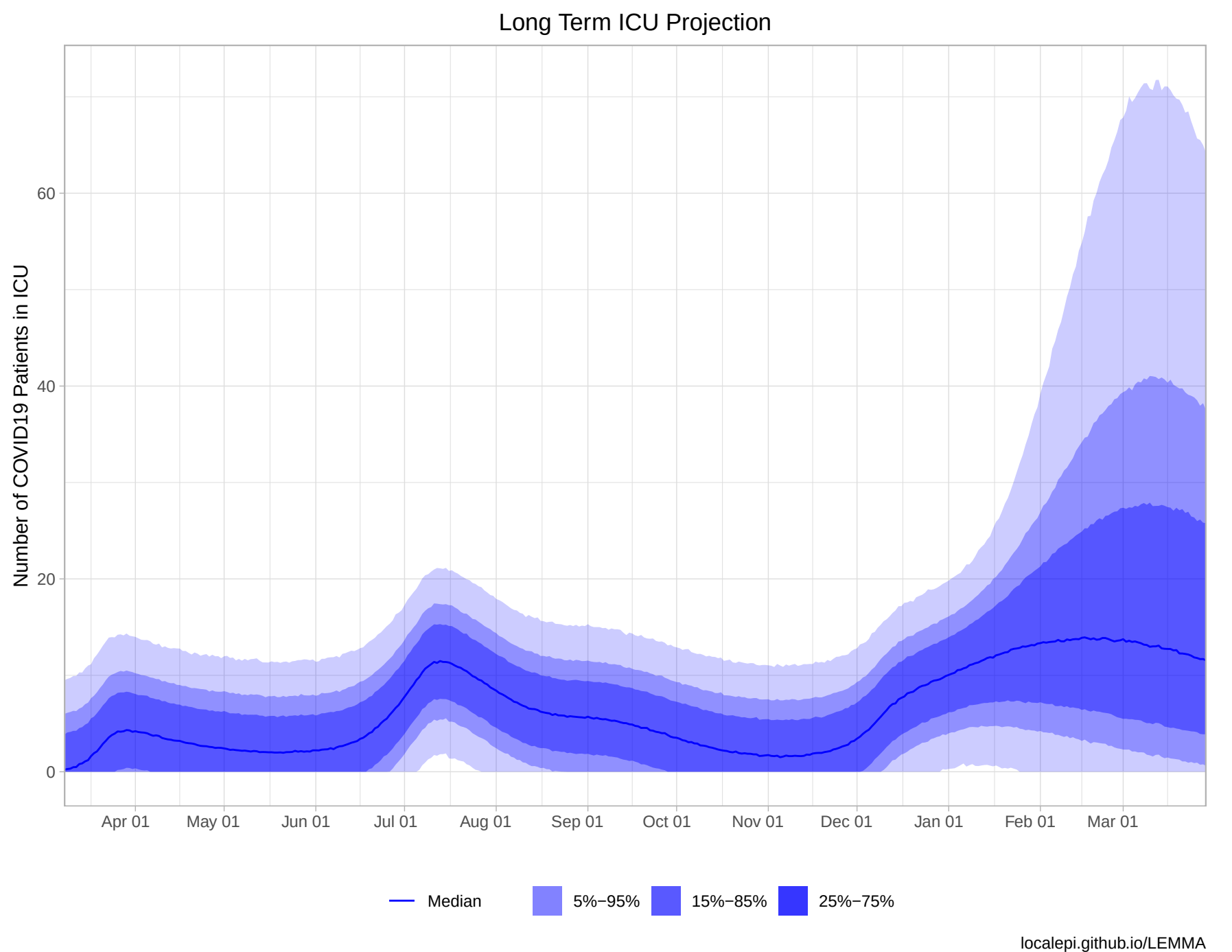
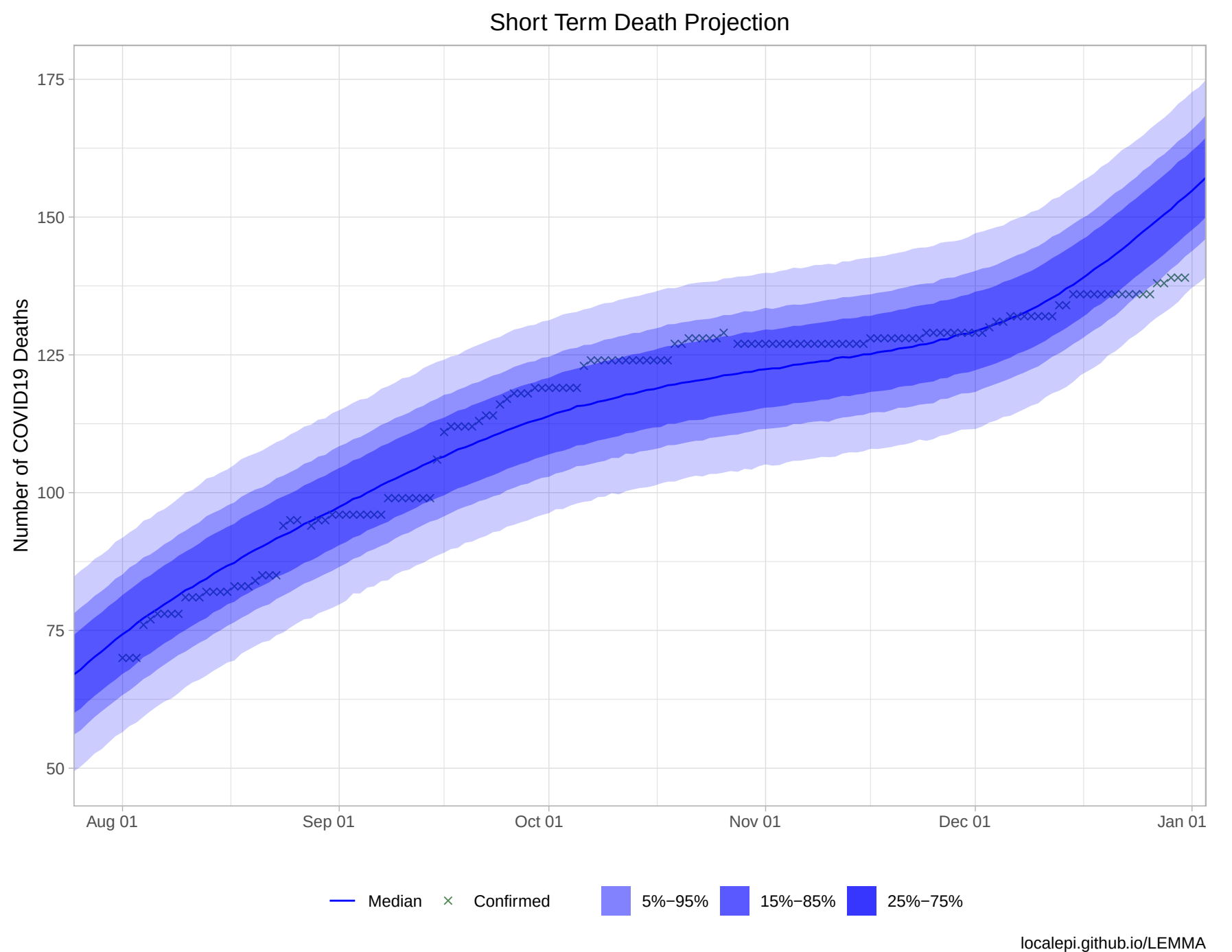
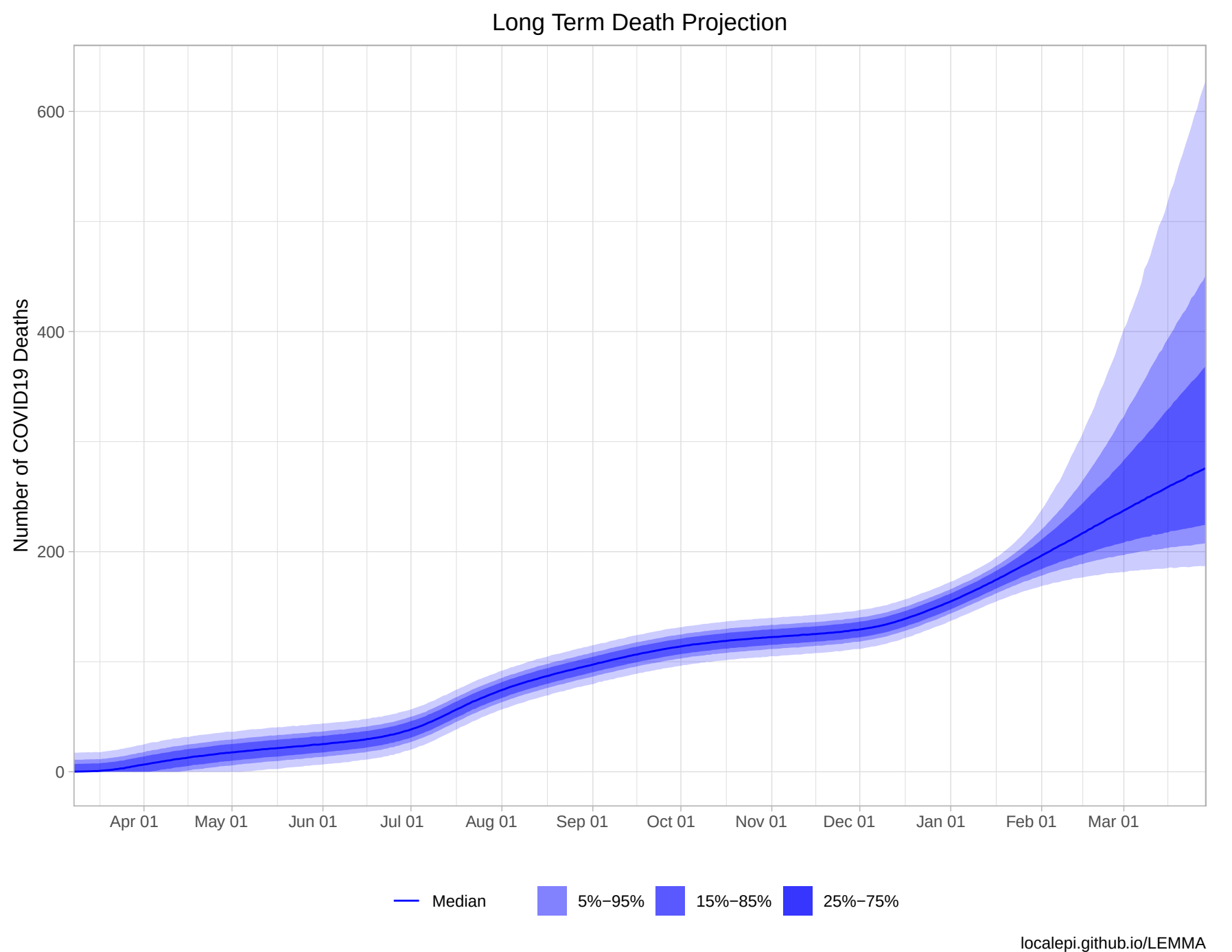

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
20
40
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

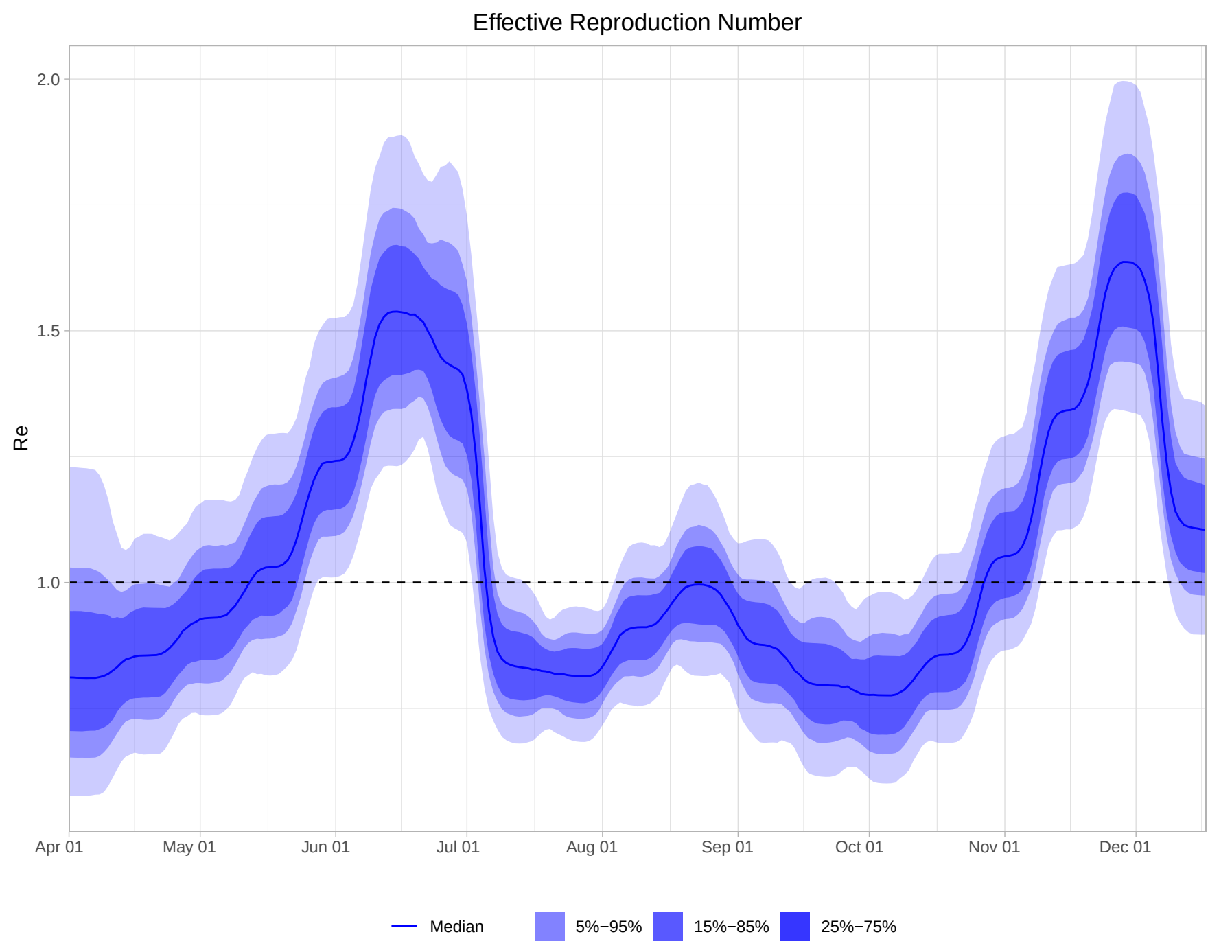

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
200
150
100
50
0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


Short Term ICU Projection
Number of COVID19 Patients in ICU
20
15
10
5
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
0
20
40
60
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

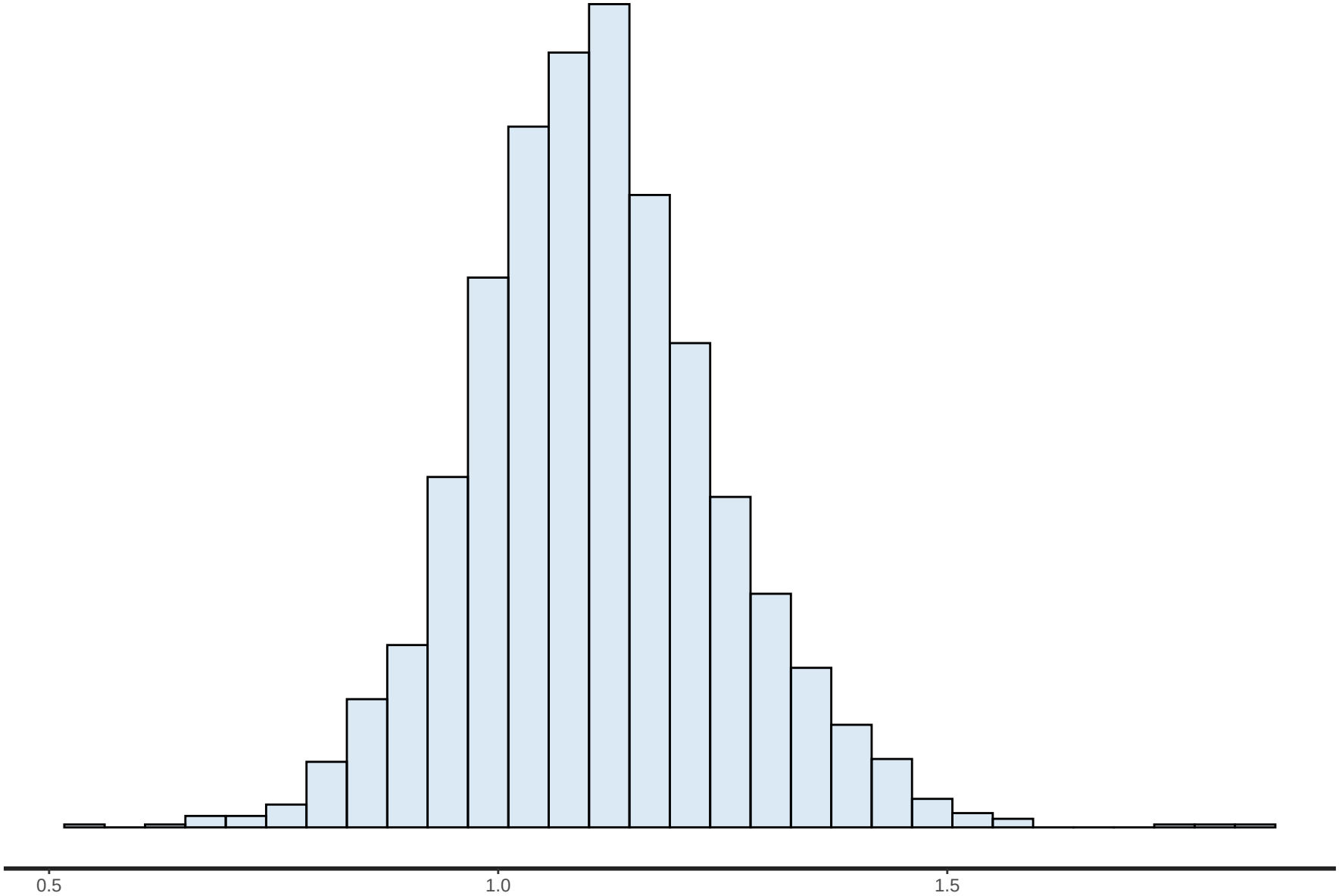

Short Term Death Projection
Number of COVID19 Deaths
175
150
125
100
75
50
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

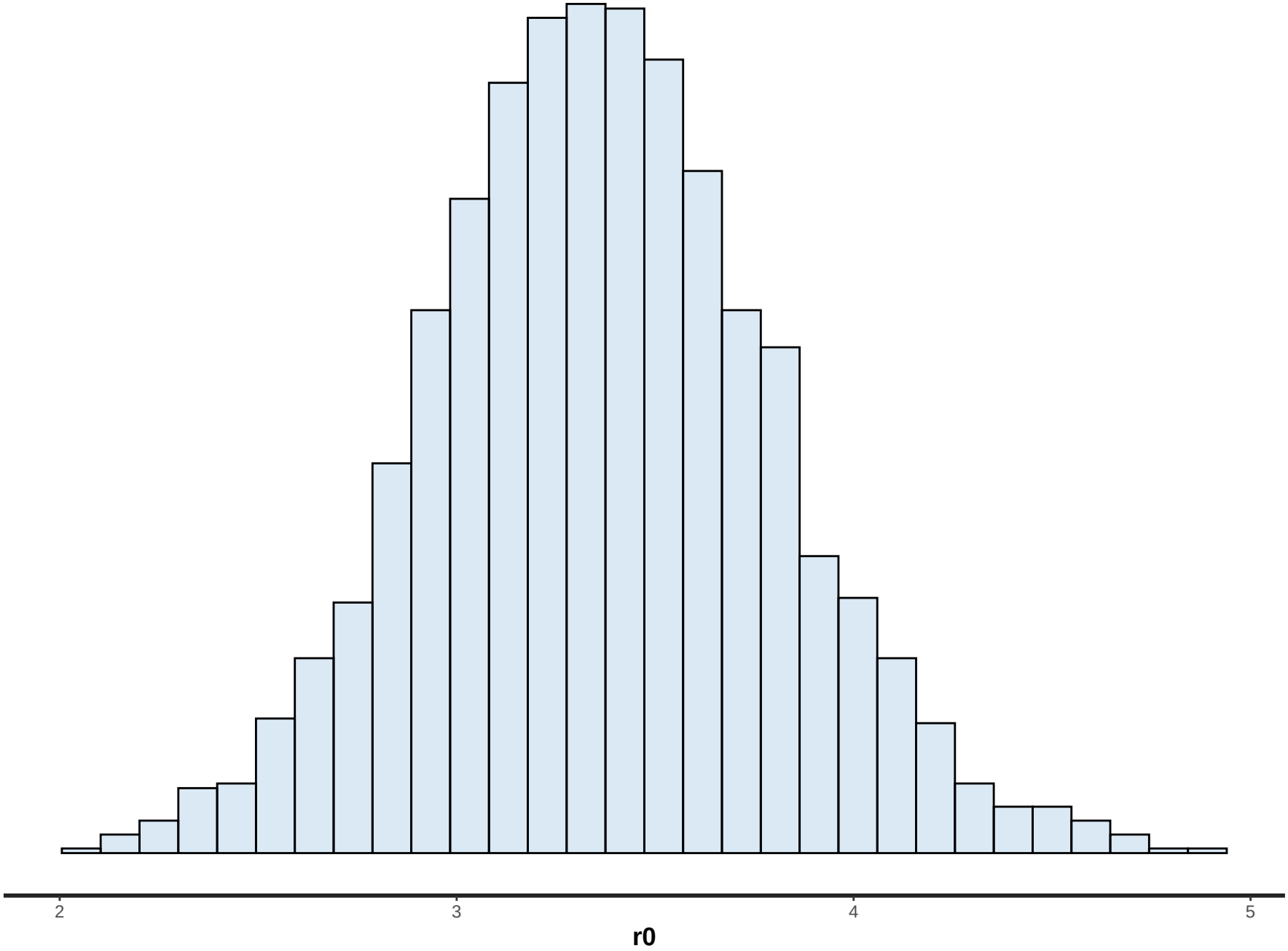

Long Term Death Projection
Number of COVID19 Deaths
600
400
200
0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

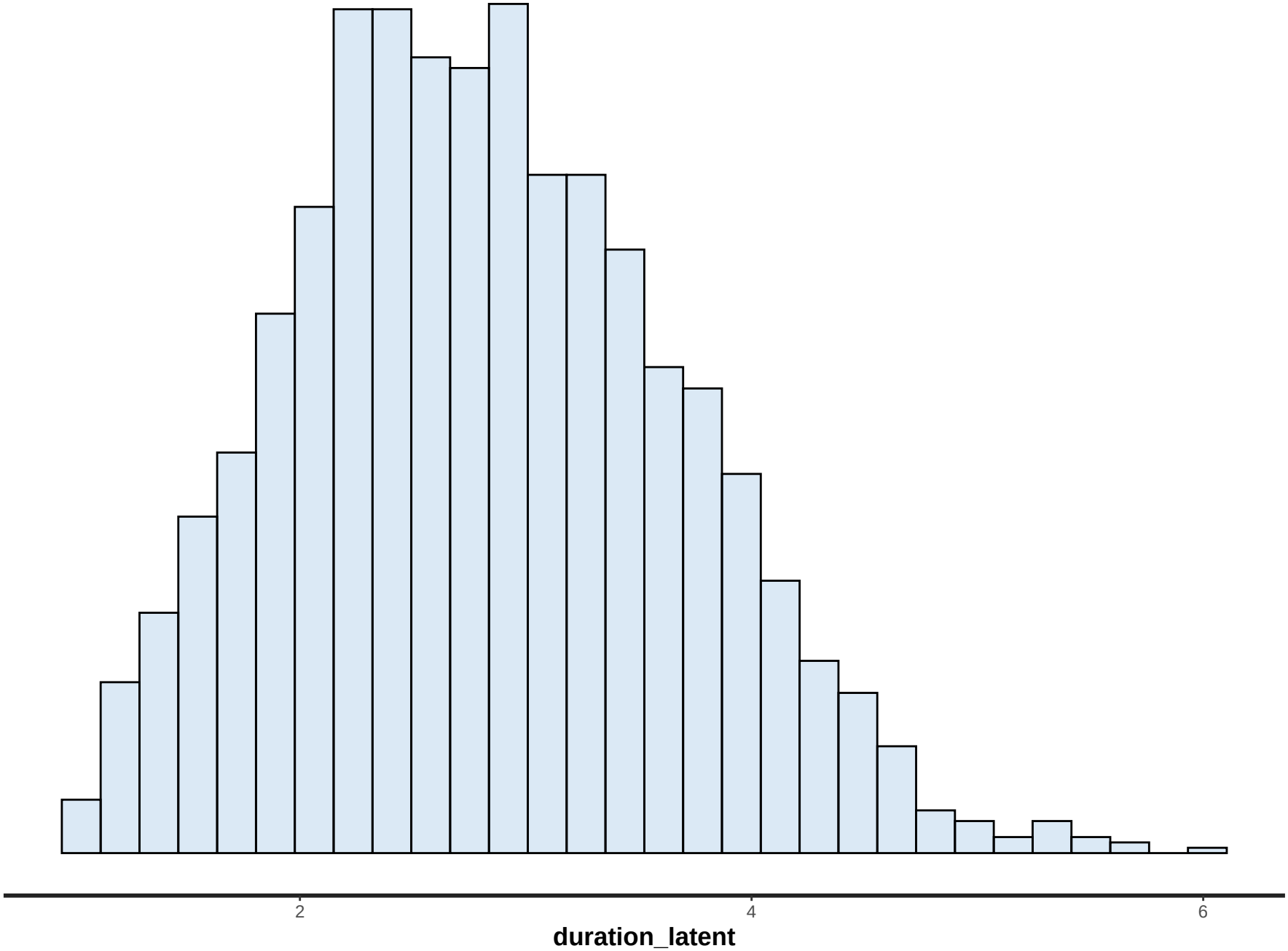

Effective Reproduction Number
Re
2.0
1.5
1.0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
5%−95%
15%−85%
25%−75%

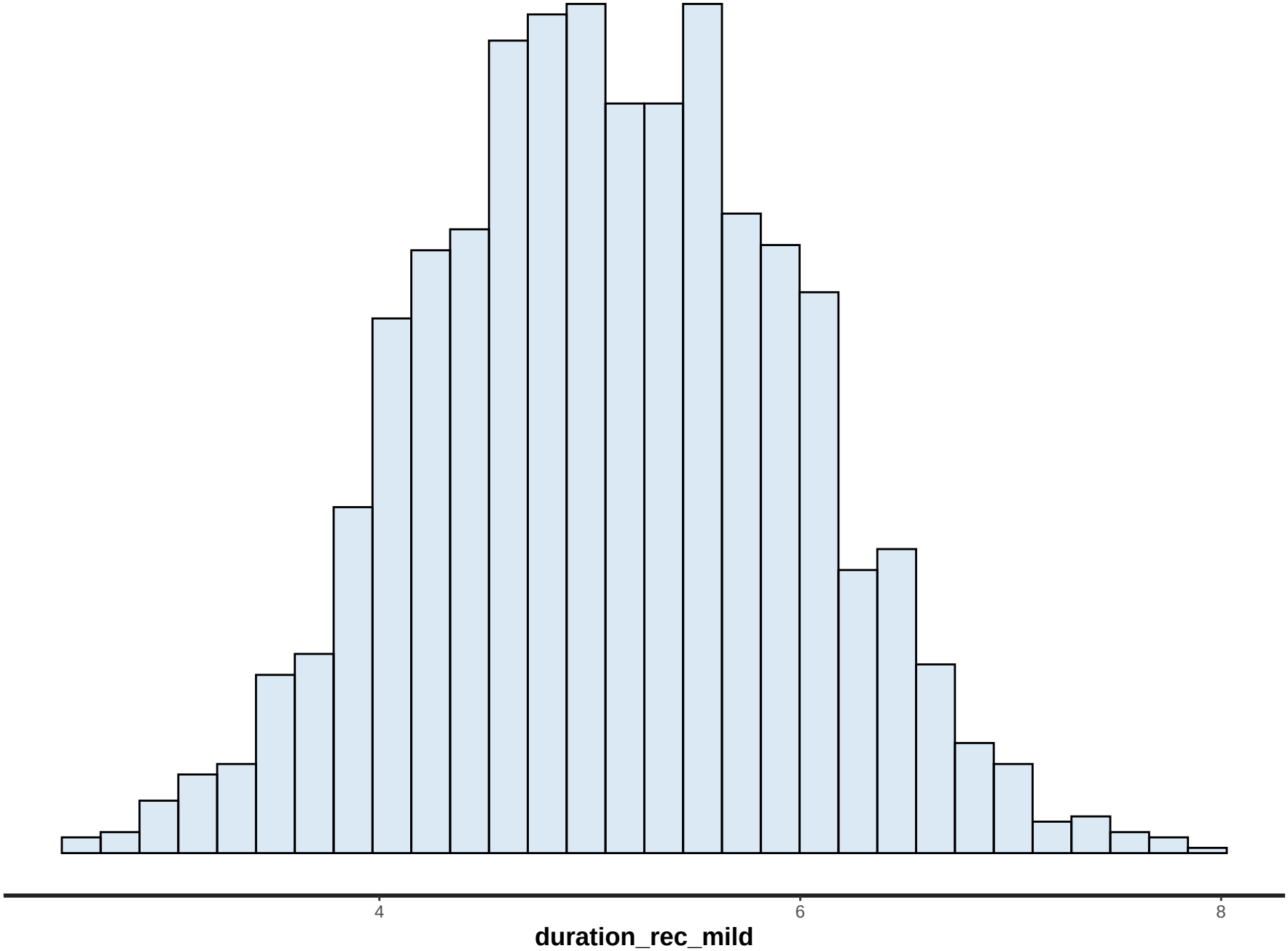
Rt as of 2020−12−17

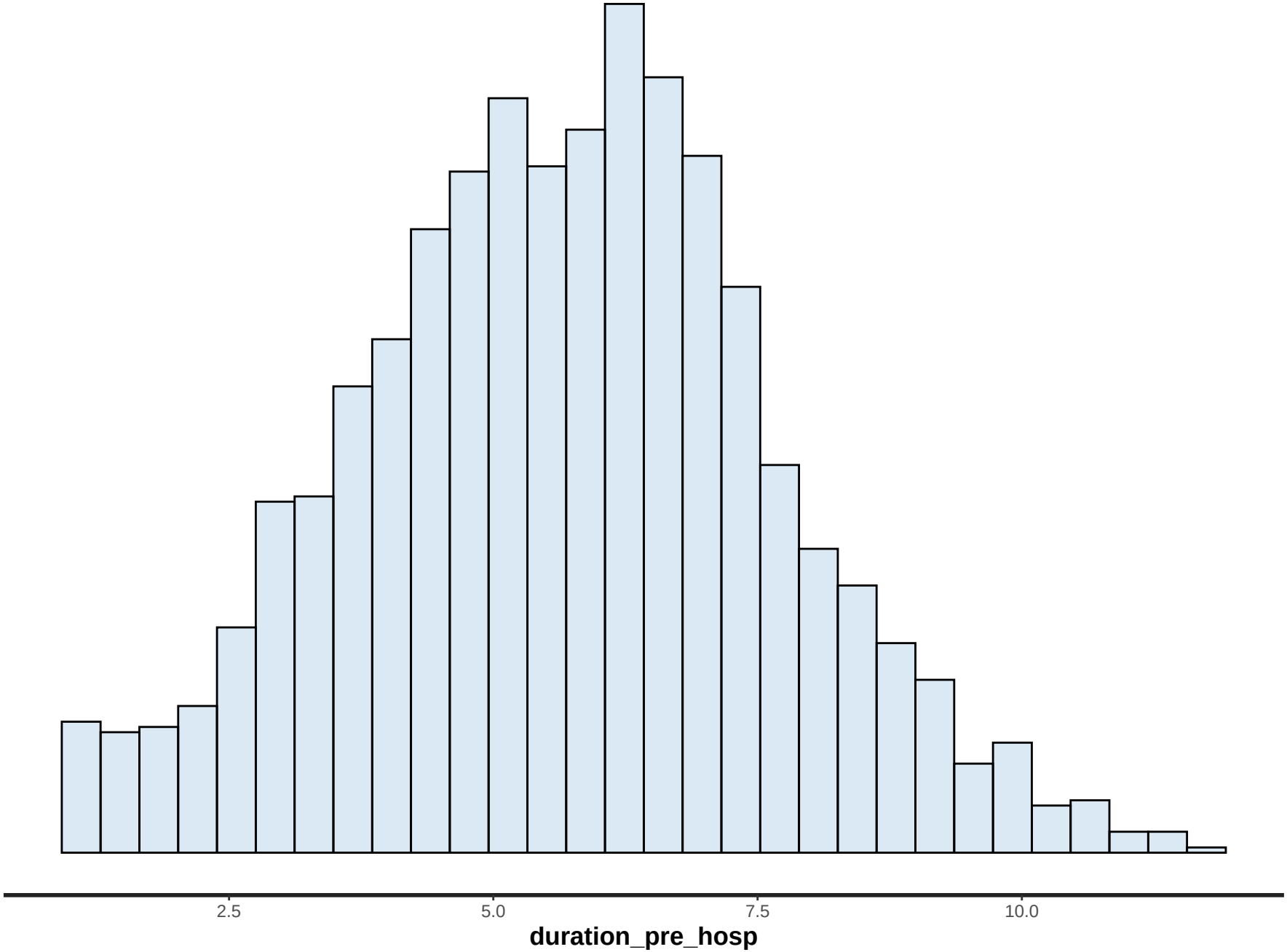
5%	10%	25%	50%	75%	90%	95%
0.90	0.94	1.02	1.10	1.19	1.29	1.35

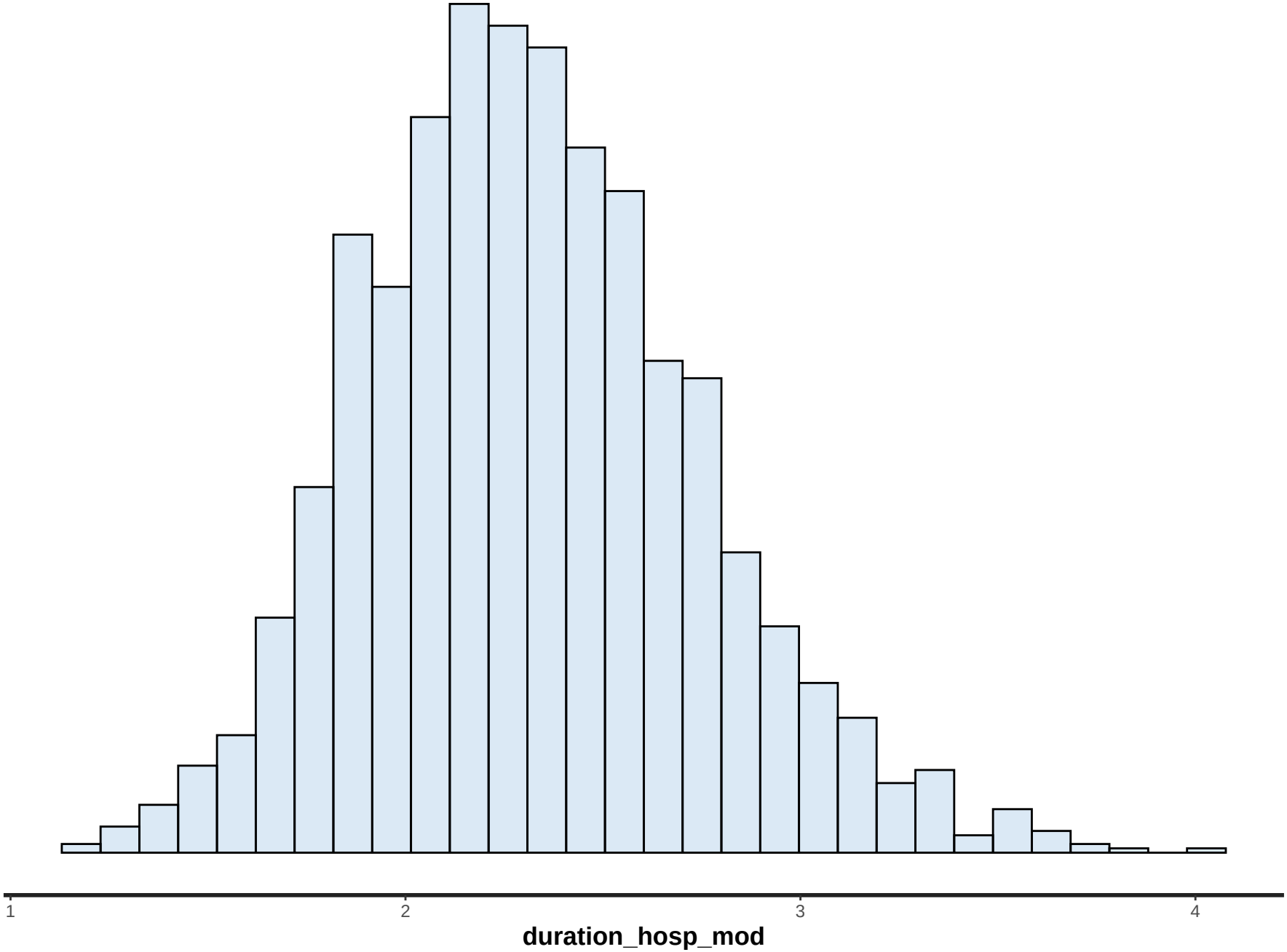


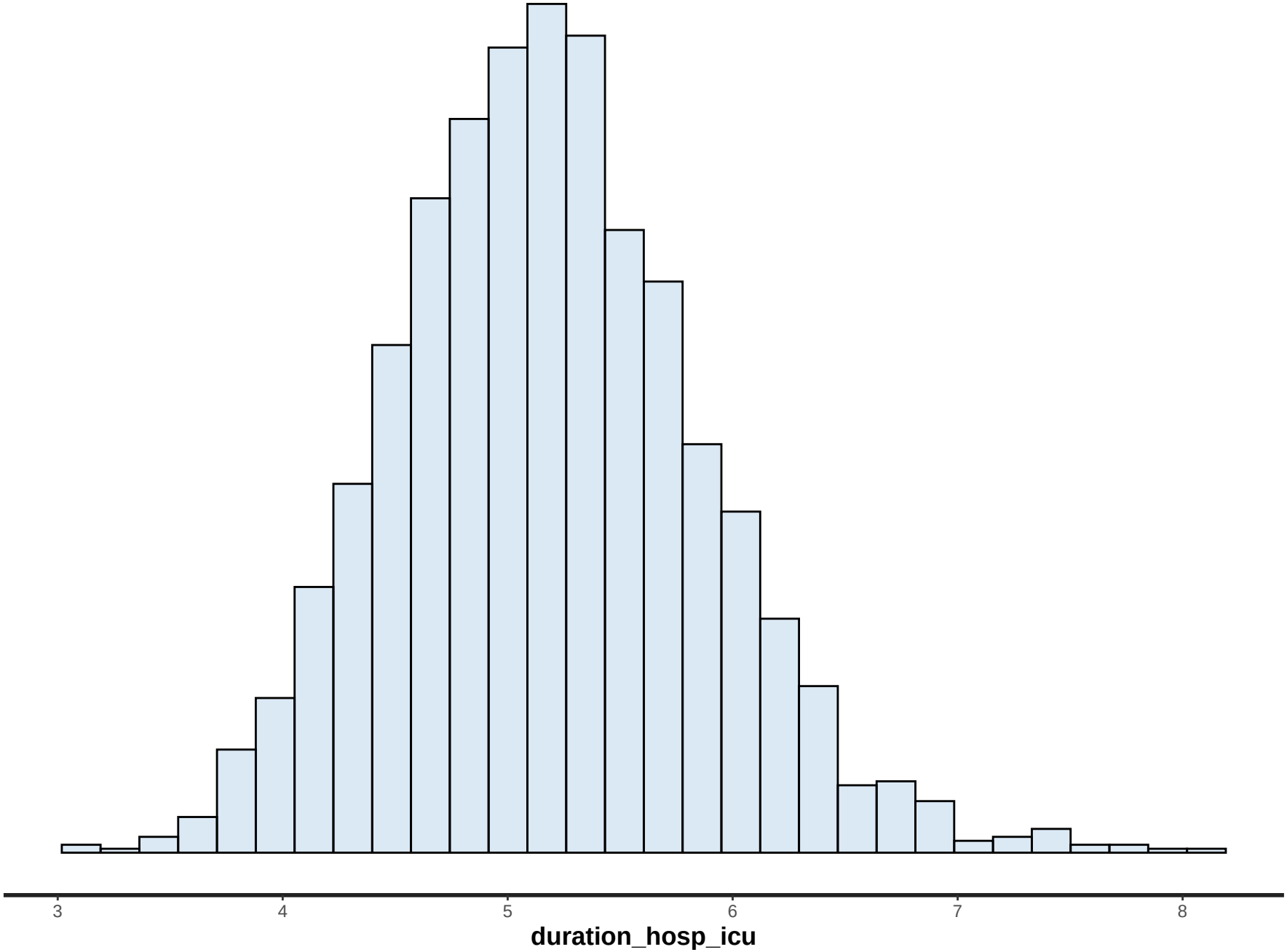

2
3
4
5
r0

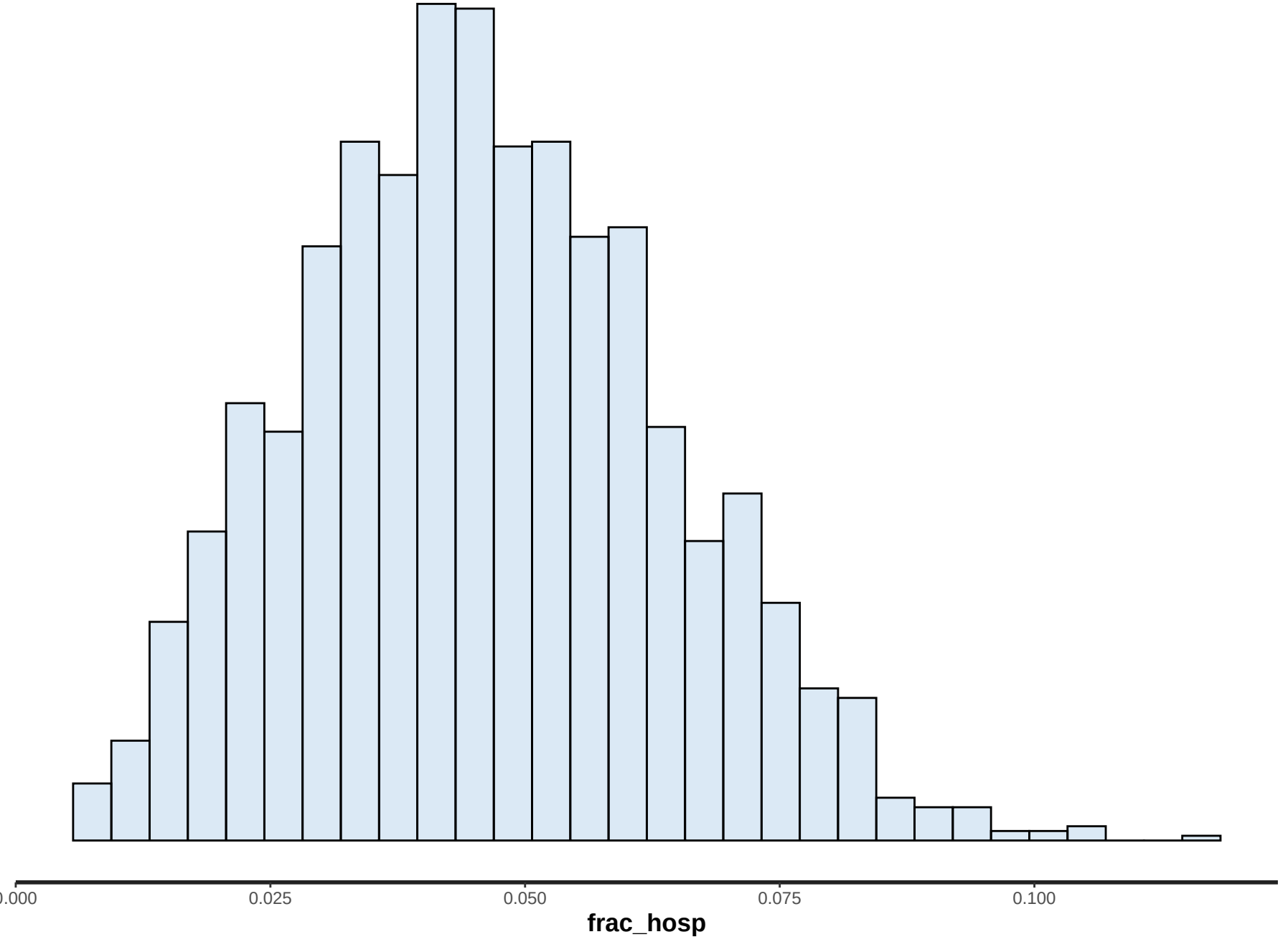

2
4
6
duration_latent

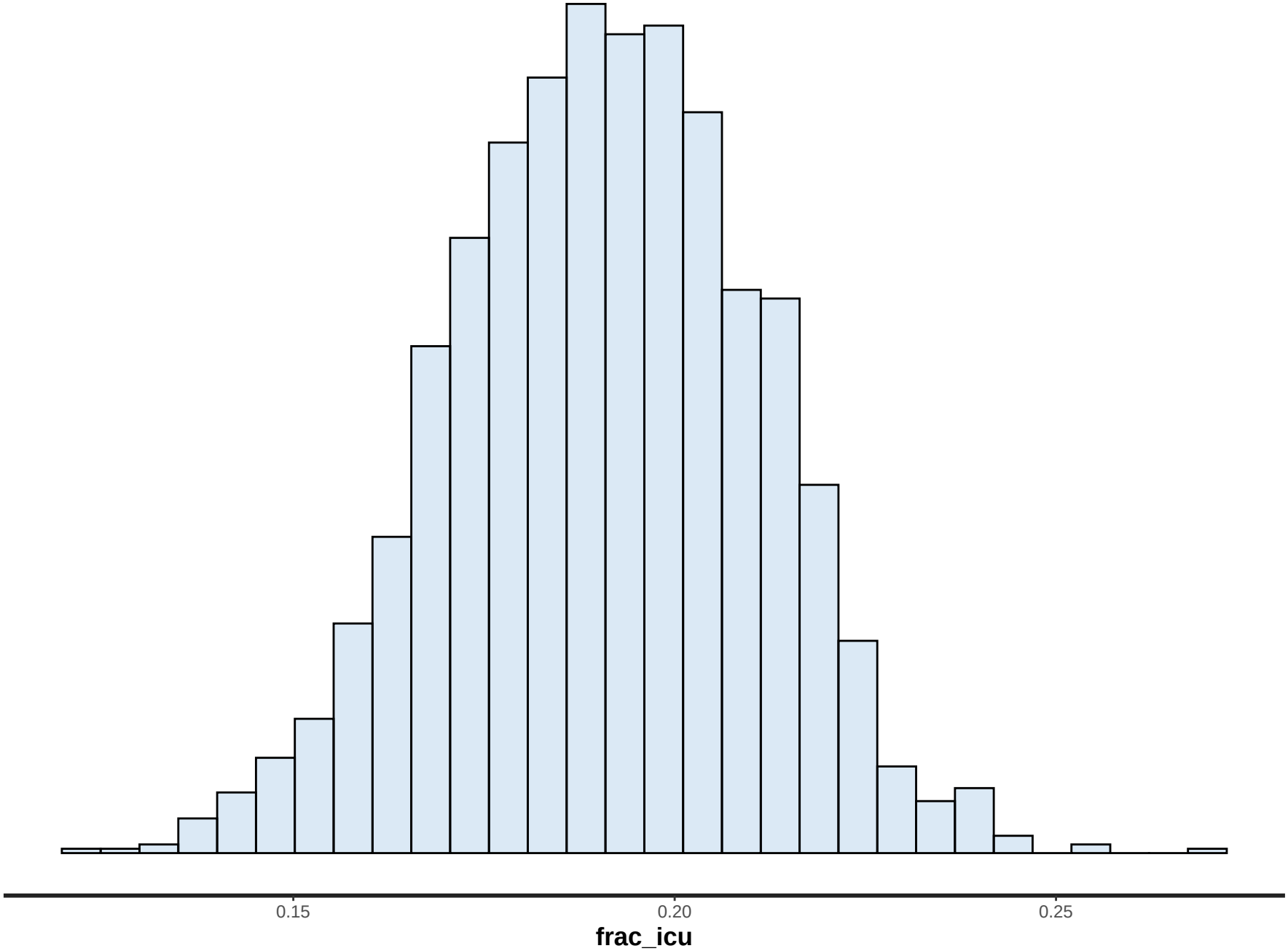

4
6
8
duration_rec_mild

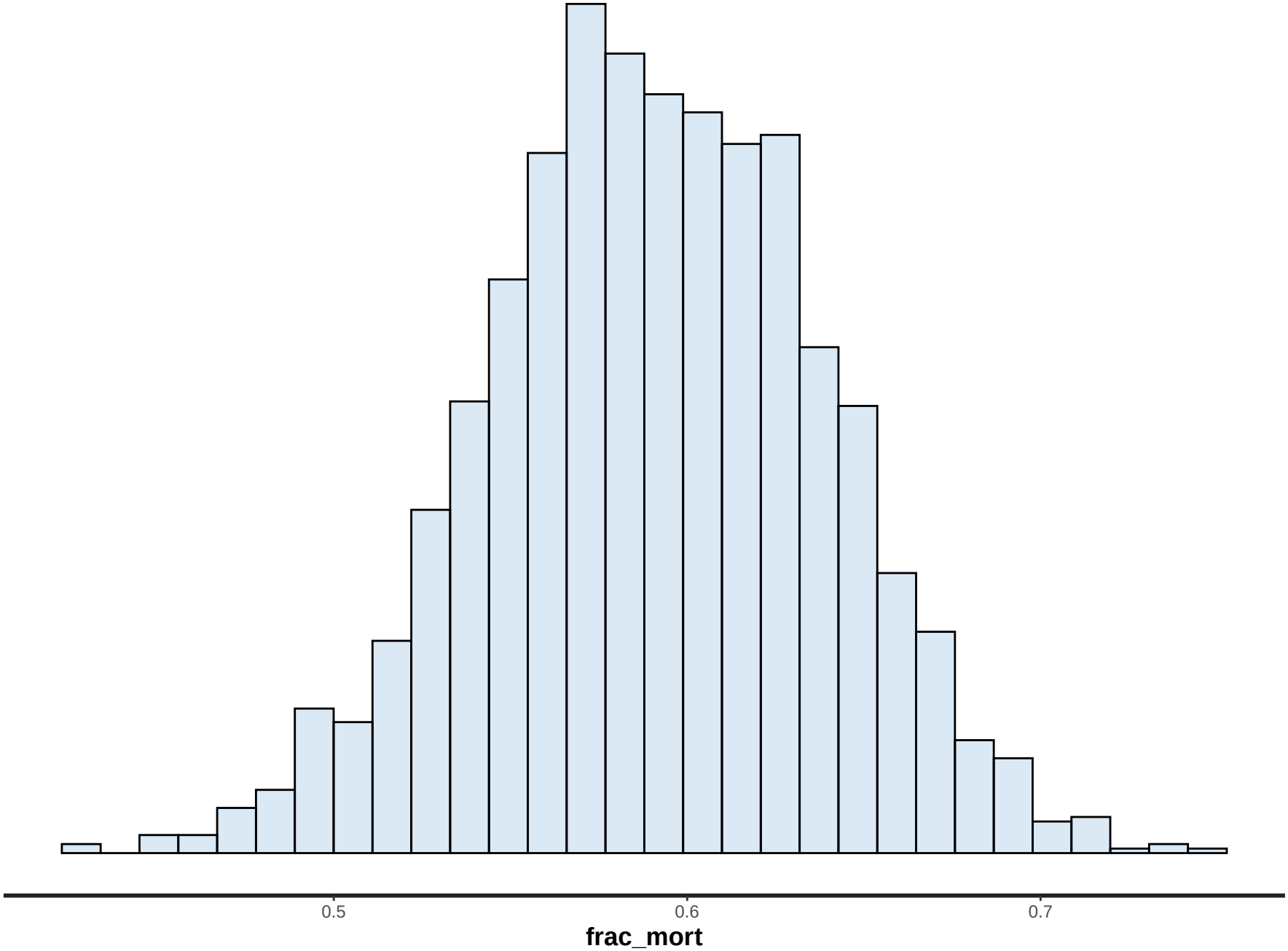

2.5
5.0
7.5
10.0
duration_pre_hosp

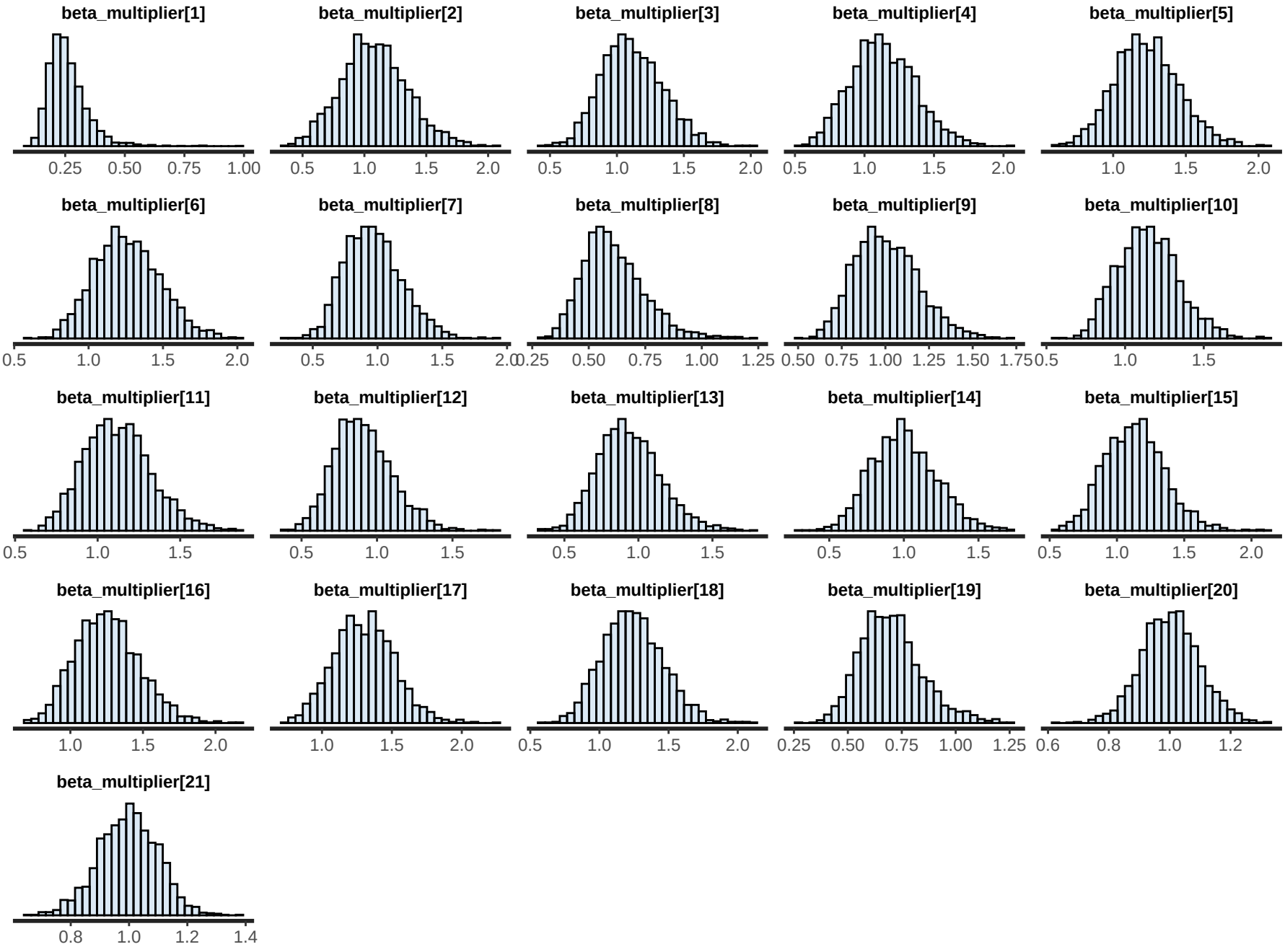

1
2
3
4
duration_hosp_mod


3
4
5
6
7
8
duration_hosp_icu


0.000
0.025
0.050
0.075
0.100
frac_hosp


0.15
0.20
0.25
frac_icu


0.5
0.6
0.7
frac_mort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0.25 0.50 0.75 1.00
beta_multiplier[2]
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beta_multiplier[3]
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beta_multiplier[4]
0.5 1.0 1.5 2.0
beta_multiplier[5]
1.0 1.5 2.0
beta_multiplier[6]
0.5 1.0 1.5 2.0
beta_multiplier[7]
0.5 1.0 1.5 2.0
beta_multiplier[8]
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beta_multiplier[9]
0.50 0.75 1.00 1.25 1.50 1.75
beta_multiplier[10]
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beta_multiplier[11]
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beta_multiplier[15]
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beta_multiplier[16]
1.0 1.5 2.0
beta_multiplier[17]
1.0 1.5 2.0
beta_multiplier[18]
0.5 1.0 1.5 2.0
beta_multiplier[19]
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beta_multiplier[20]
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beta_multiplier[21]
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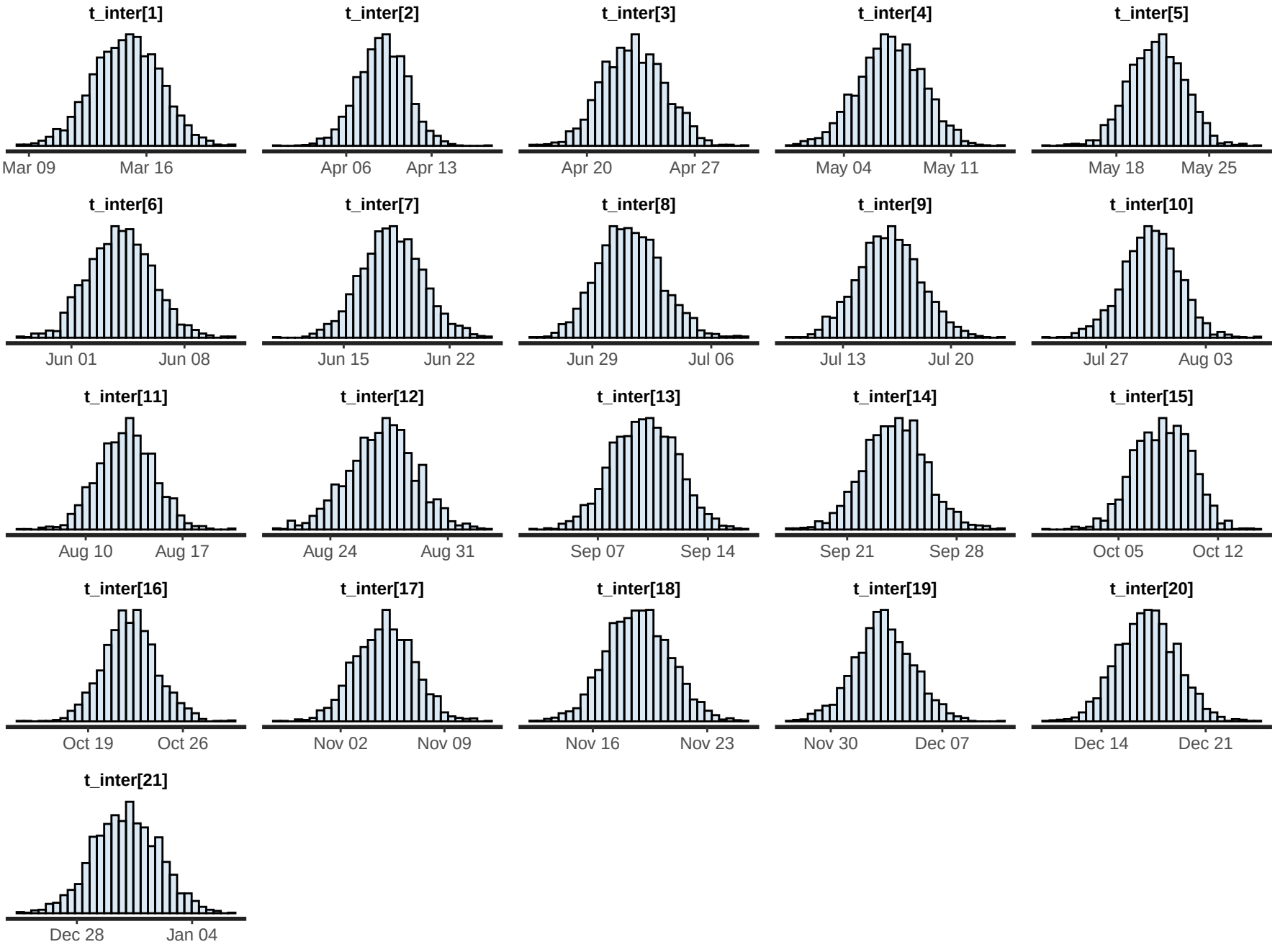
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Apr 27
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May 04
May 11
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May 18
May 25
t_inter[6]
Jun 01
Jun 08
t_inter[7]
Jun 15
Jun 22
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Jun 29
Jul 06
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Jul 13
Jul 20
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Jul 27
Aug 03
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Aug 31
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Sep 14
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Nov 09
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Nov 16
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Nov 30
Dec 07
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Dec 14
Dec 21
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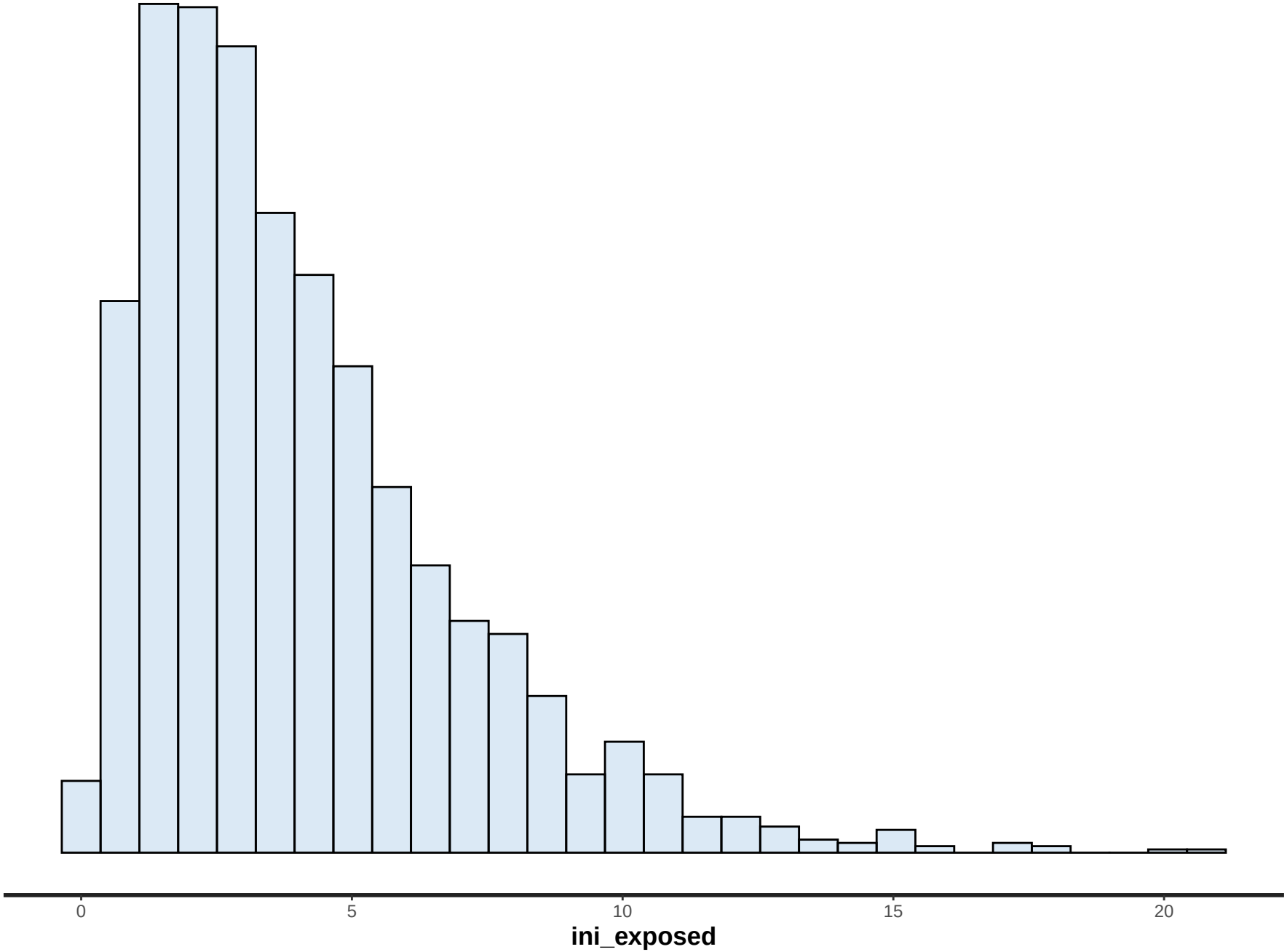
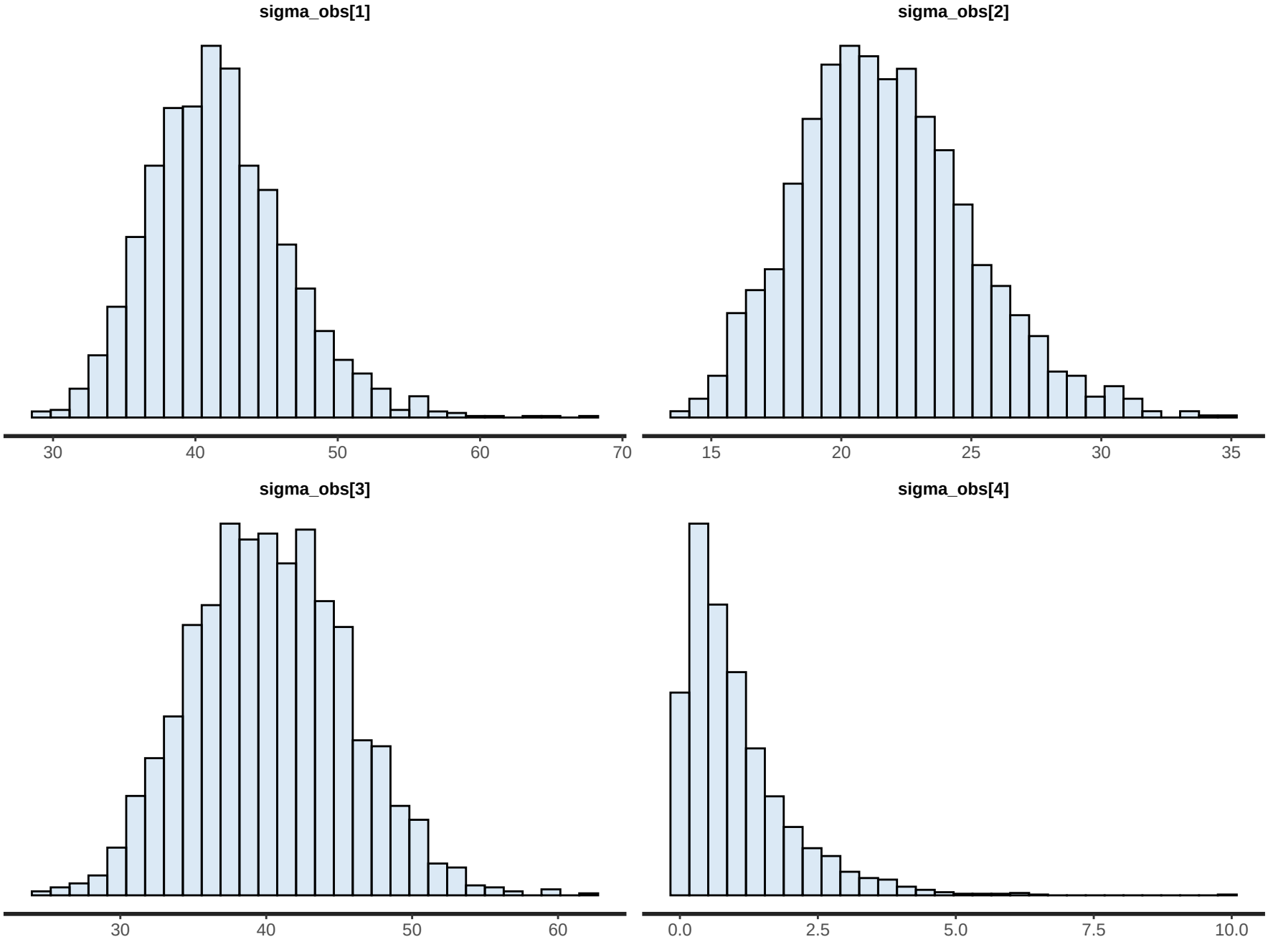
Dec 28
Jan 04


0
5
10
15
20
ini_exposed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60
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50
60
sigma_obs[4]
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2.5
5.0
7.5
10.0