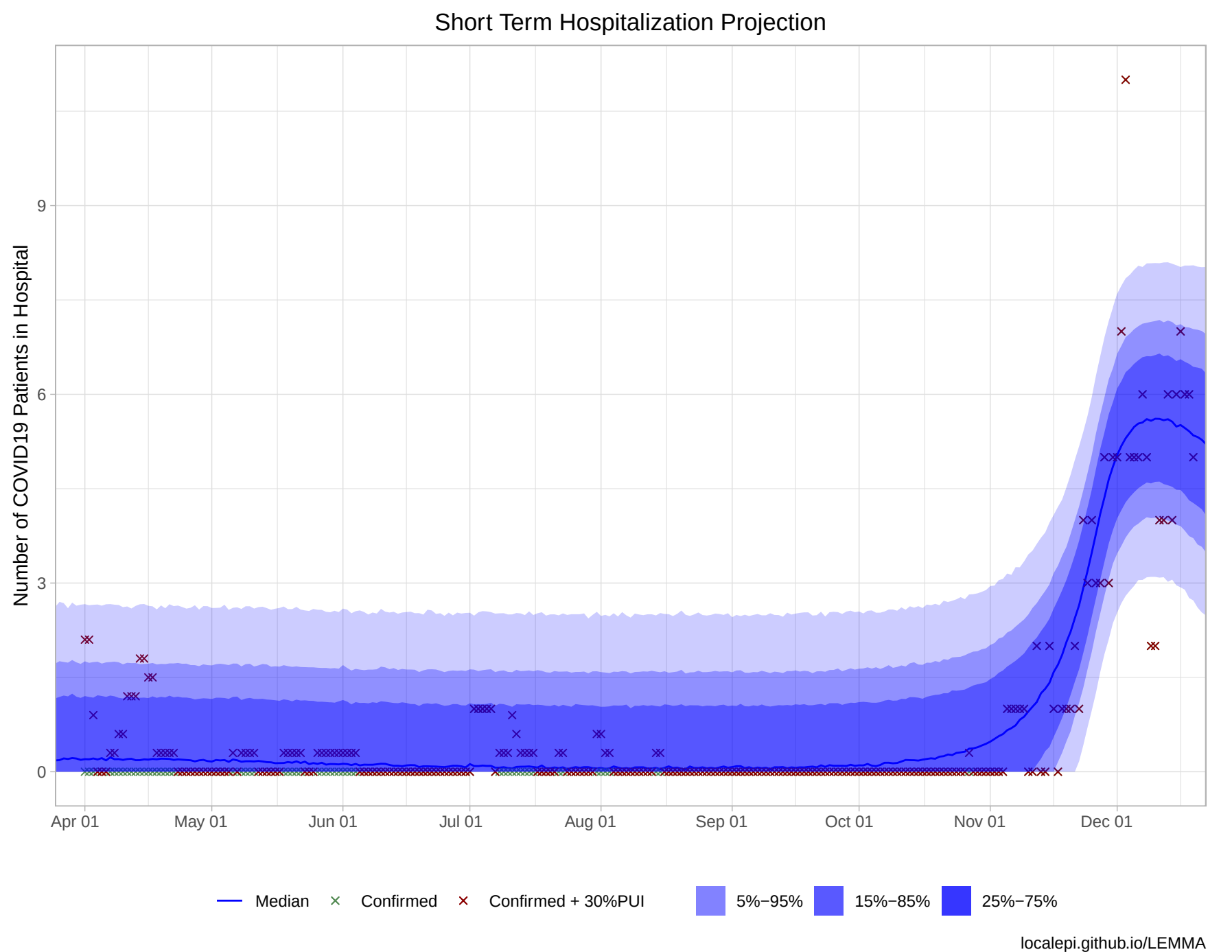
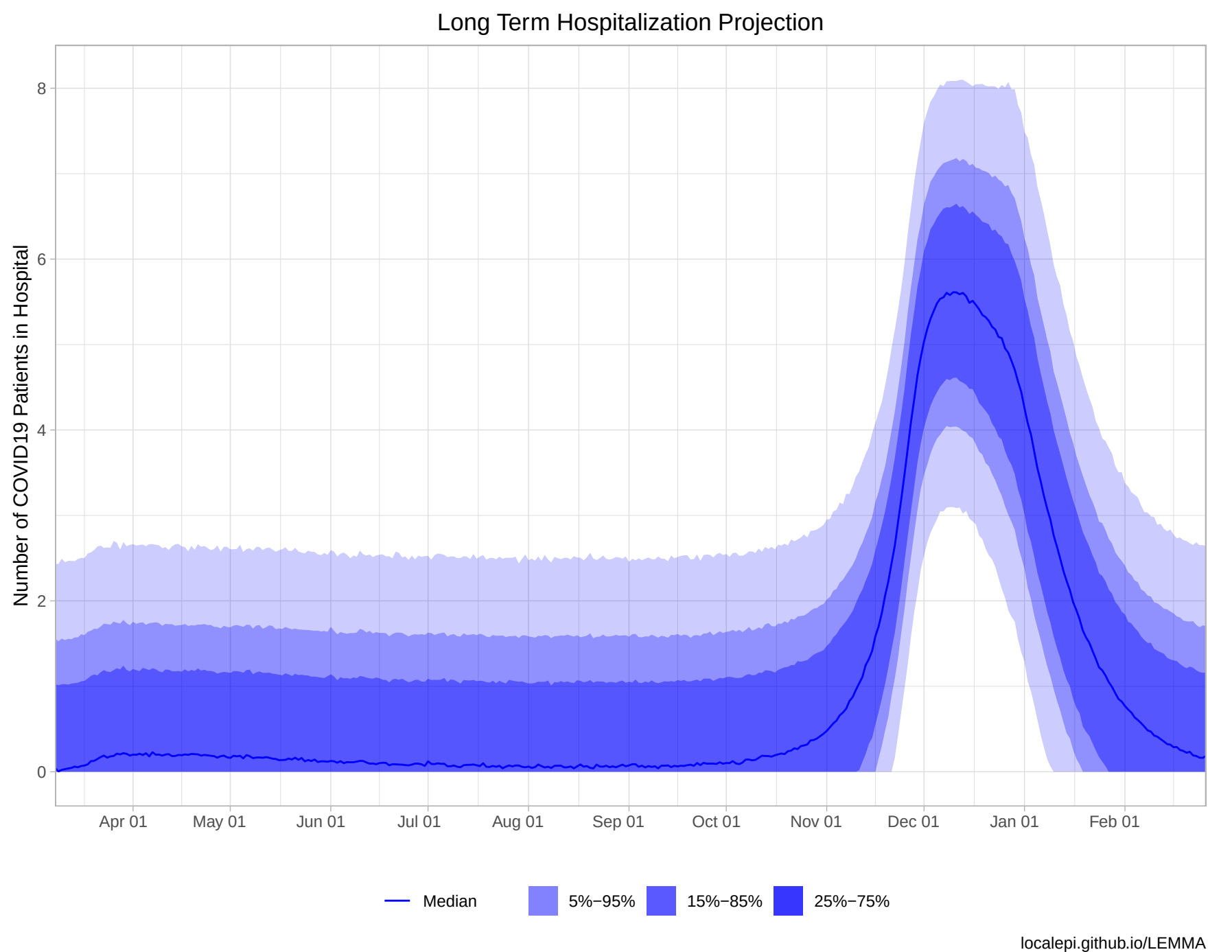
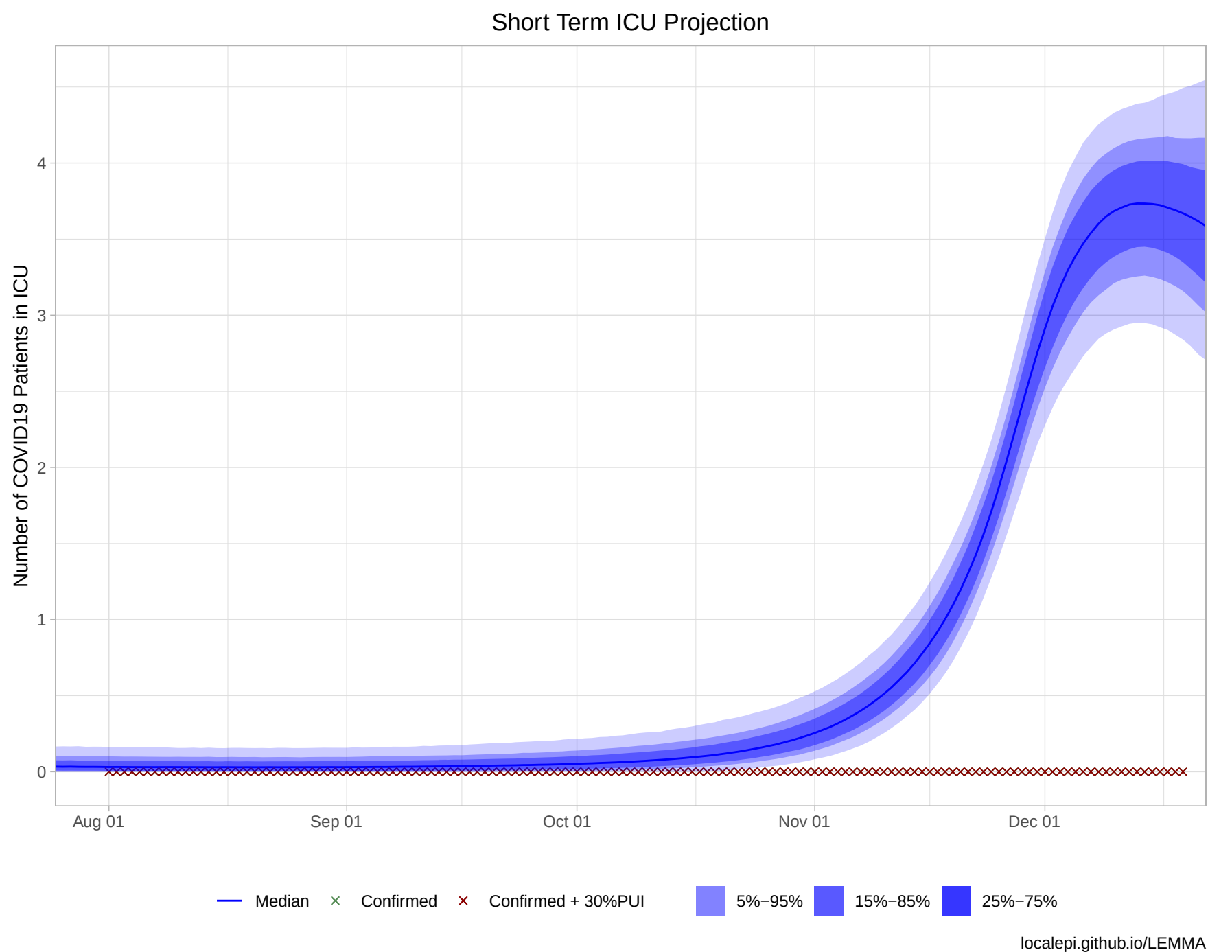
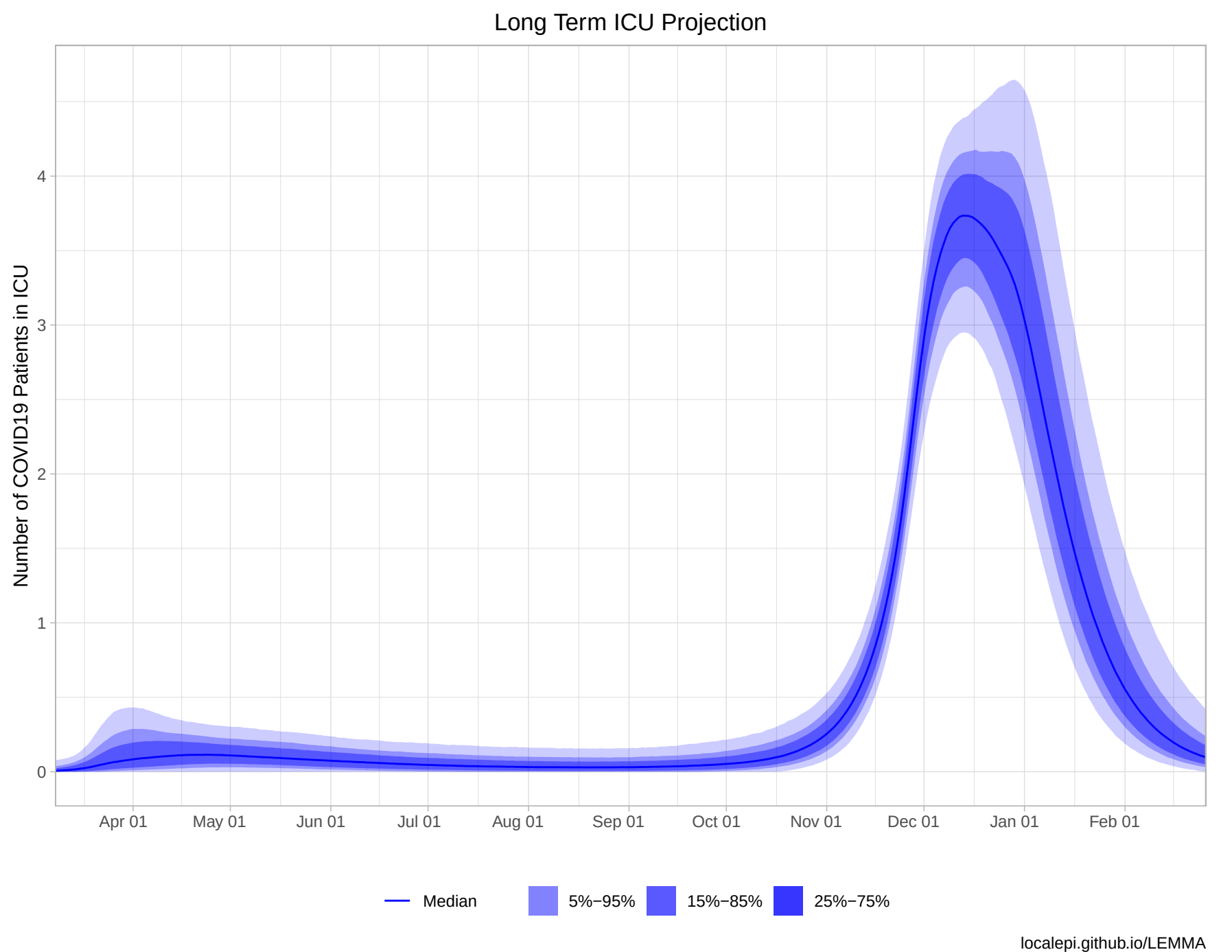
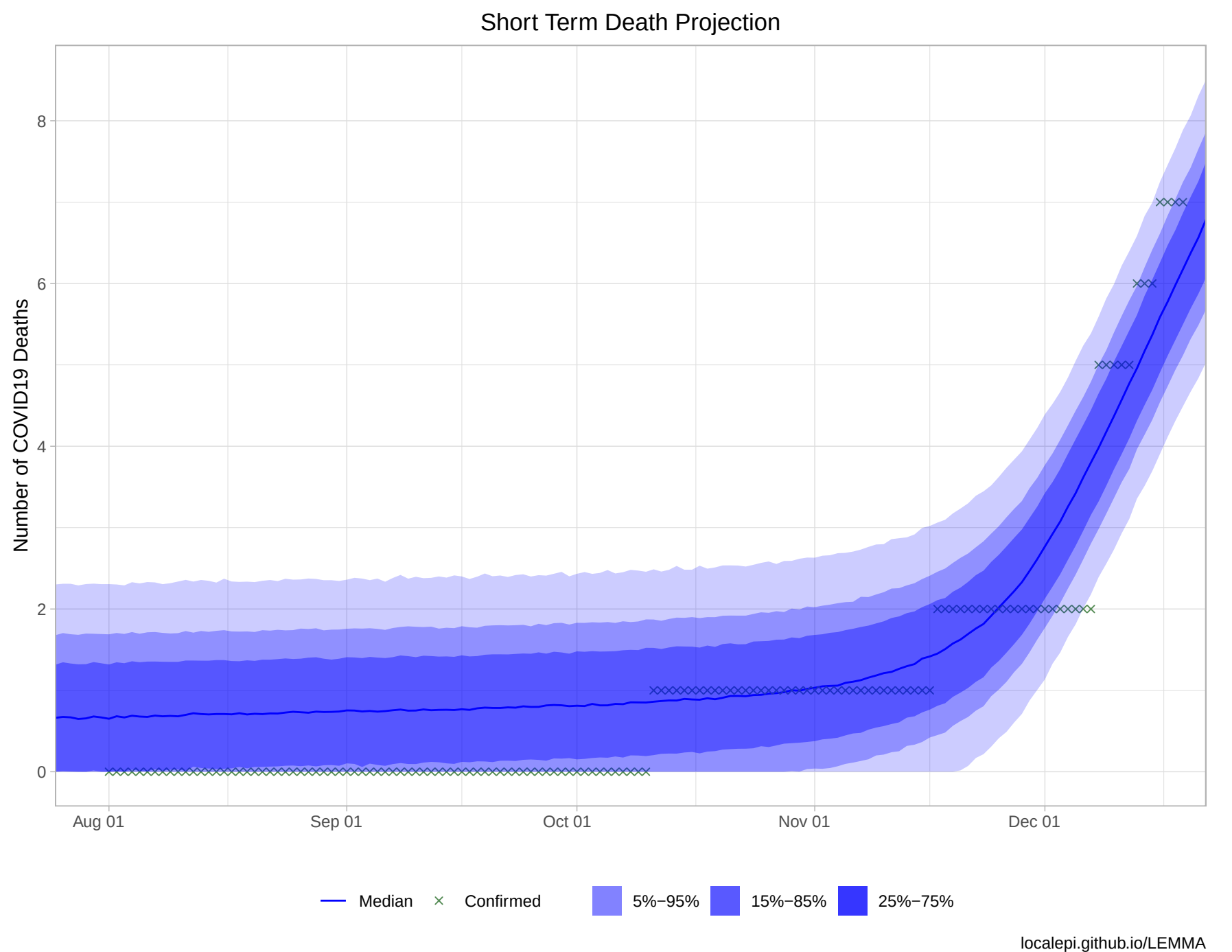
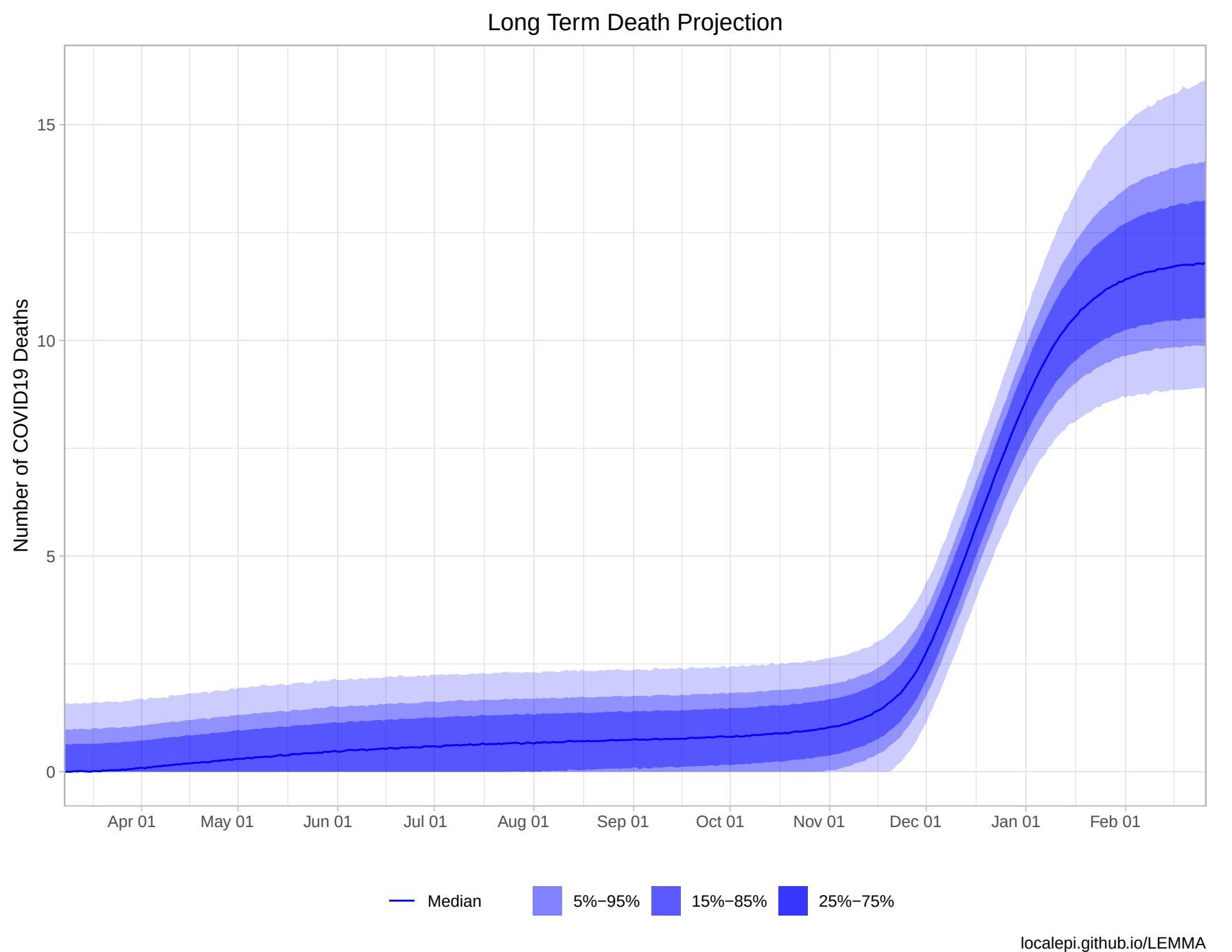

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
3
6
9
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

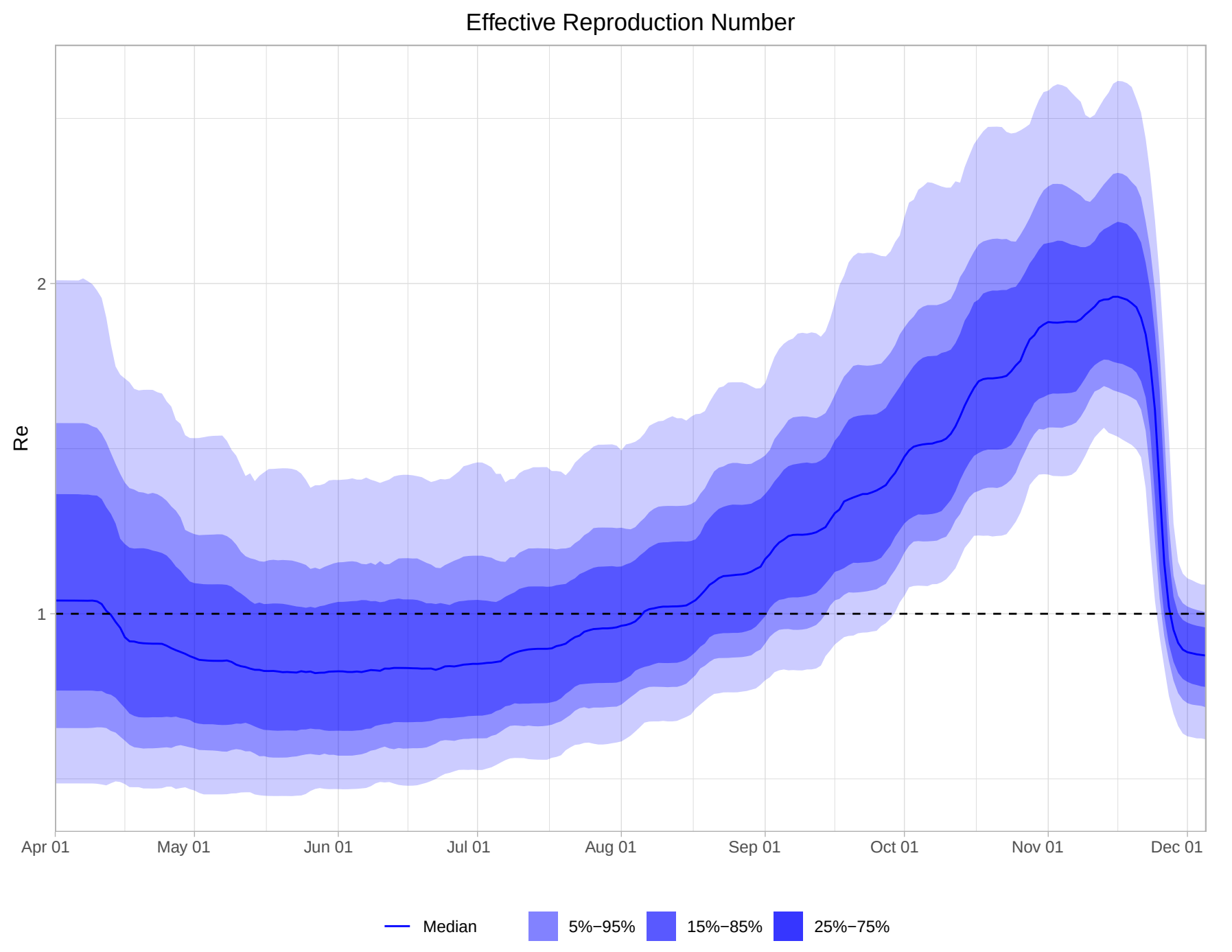

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
2
4
6
8
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


Short Term ICU Projection
Number of COVID19 Patients in ICU
0
1
2
3
4
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
0
1
2
3
4
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

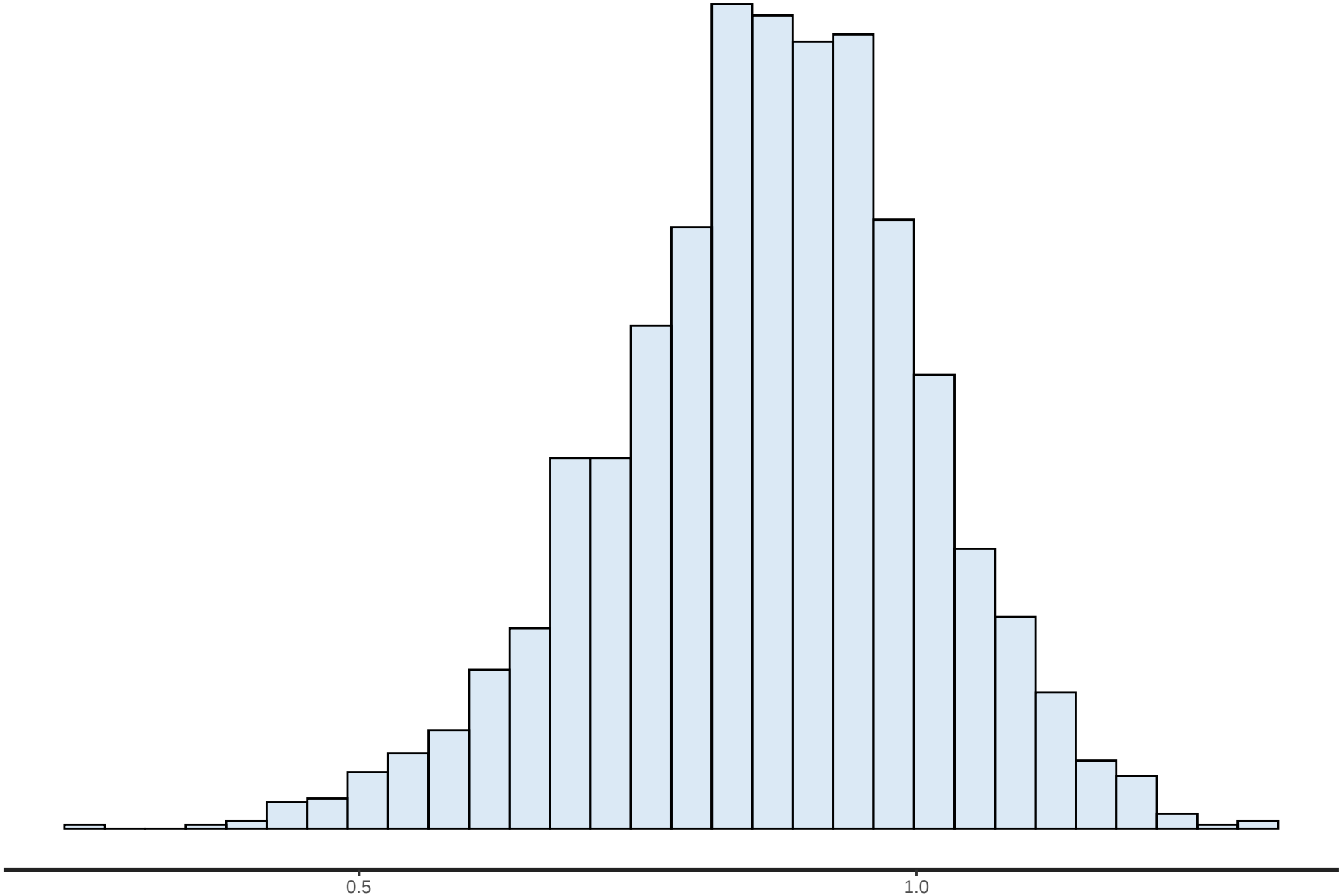

Short Term Death Projection
Number of COVID19 Deaths
0
2
4
6
8
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

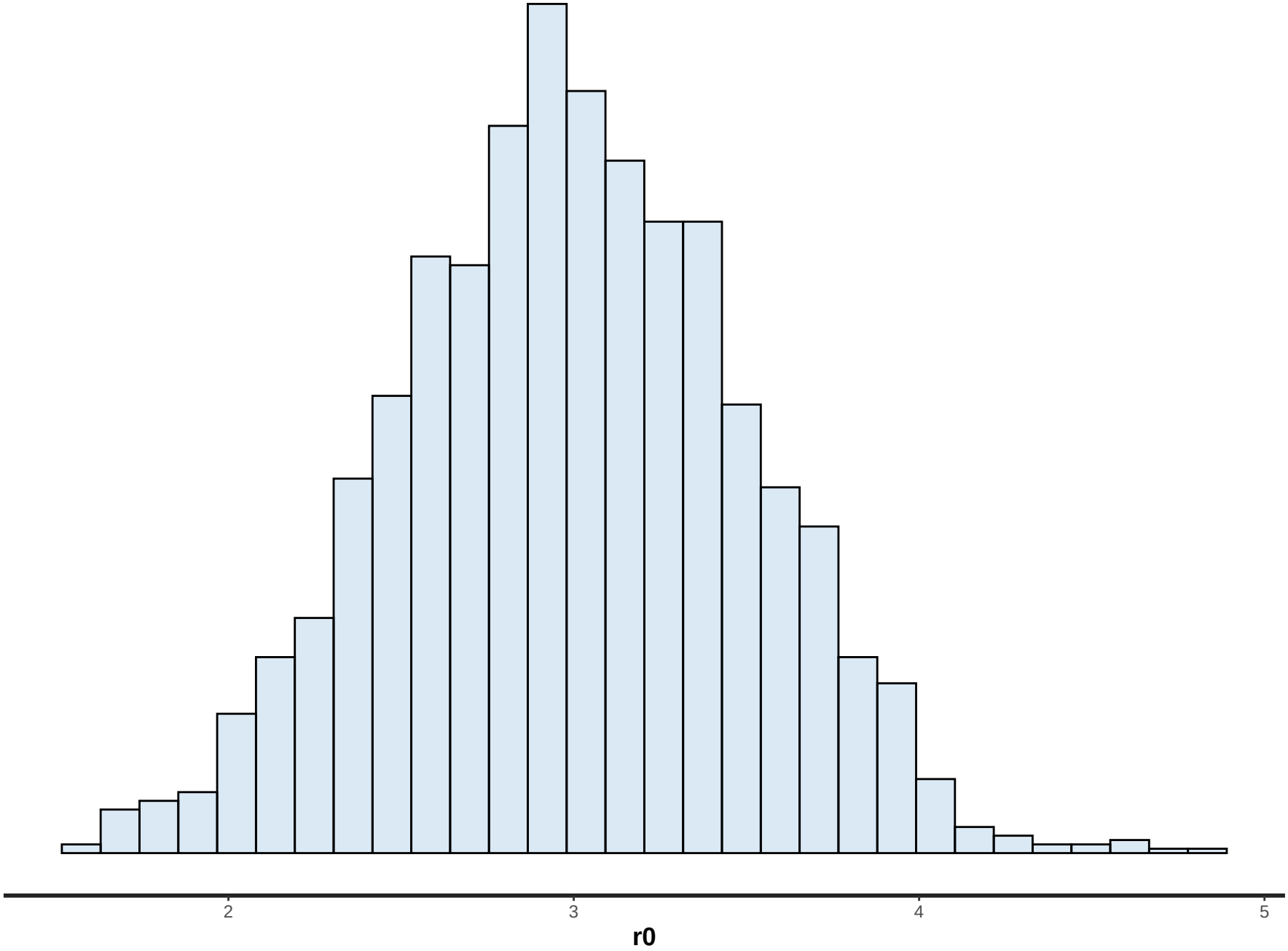

Long Term Death Projection
Number of COVID19 Deaths
15
10
5
0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

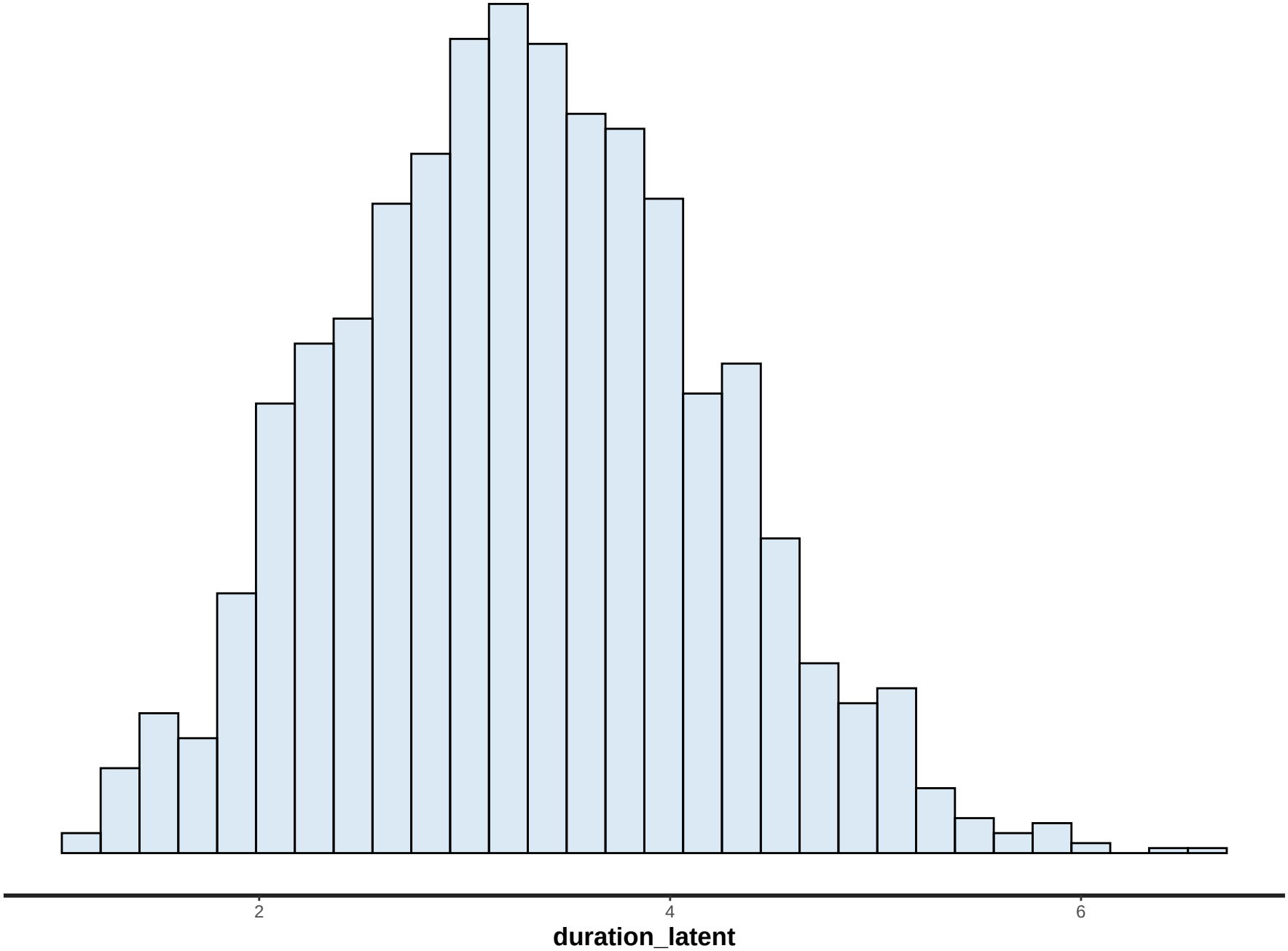

Effective Reproduction Number
Re
2
1
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
5%−95%
15%−85%
25%−75%

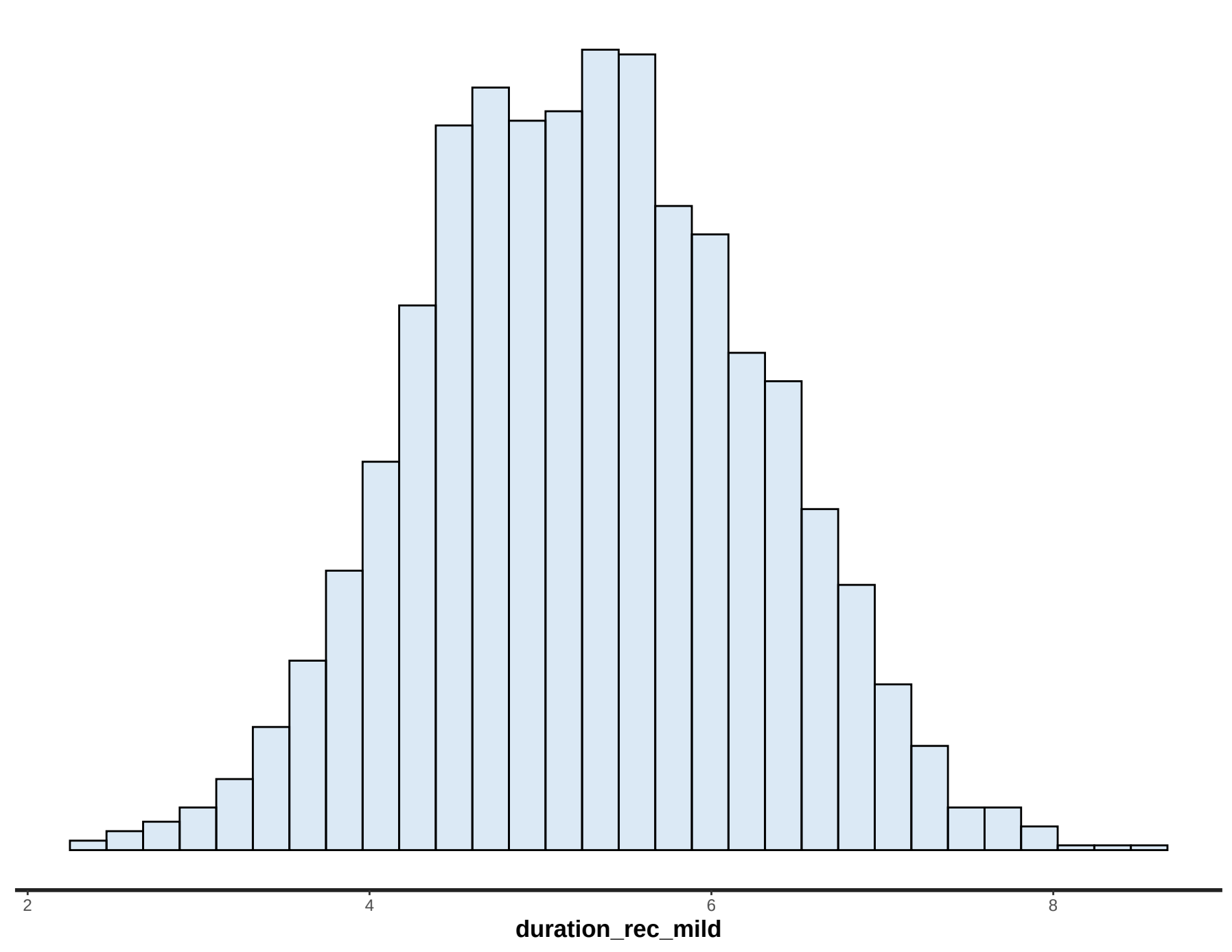
Rt as of 2020−12−05

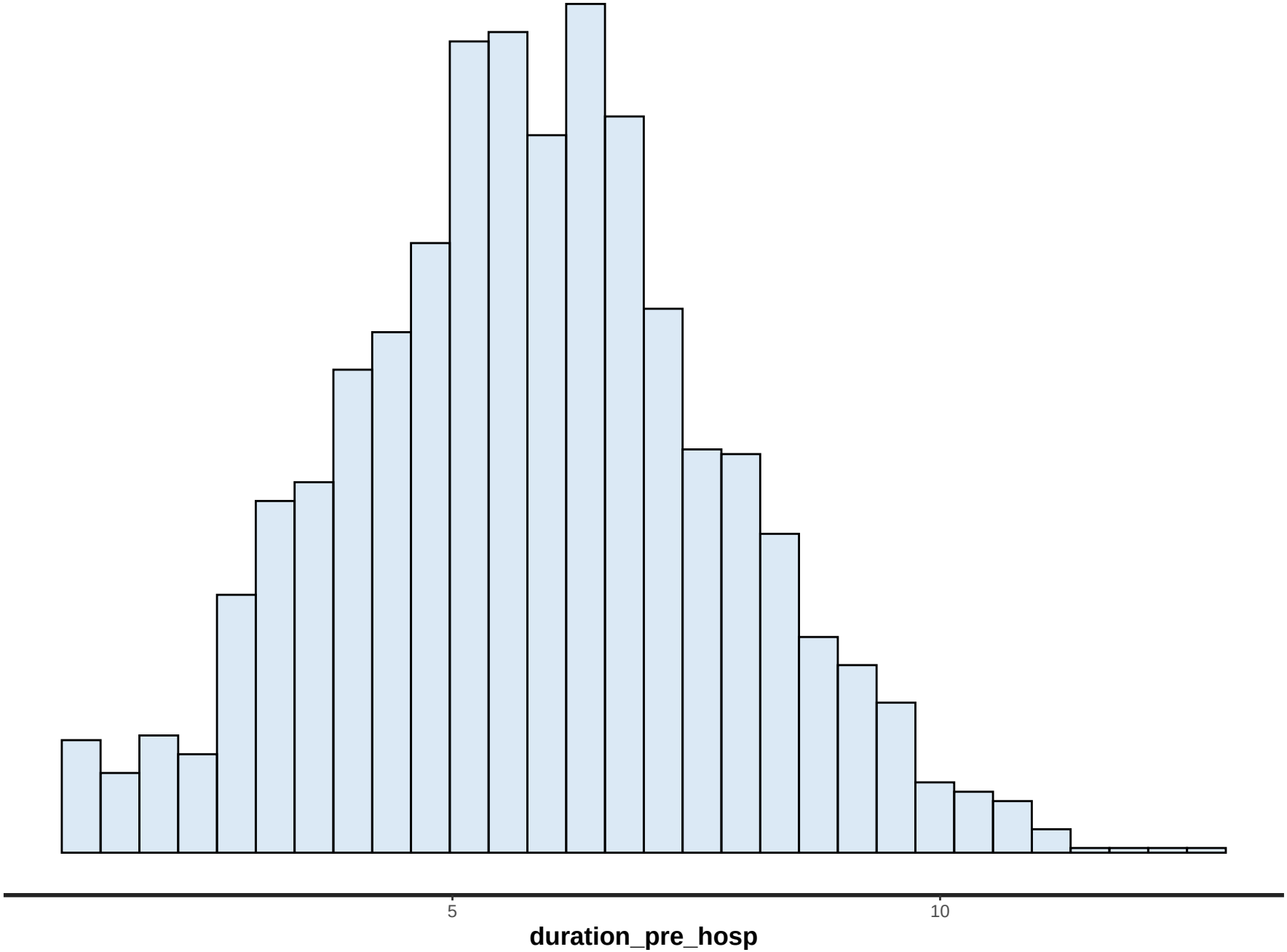
5%	10%	25%	50%	75%	90%	95%
0.62	0.68	0.78	0.87	0.96	1.04	1.09

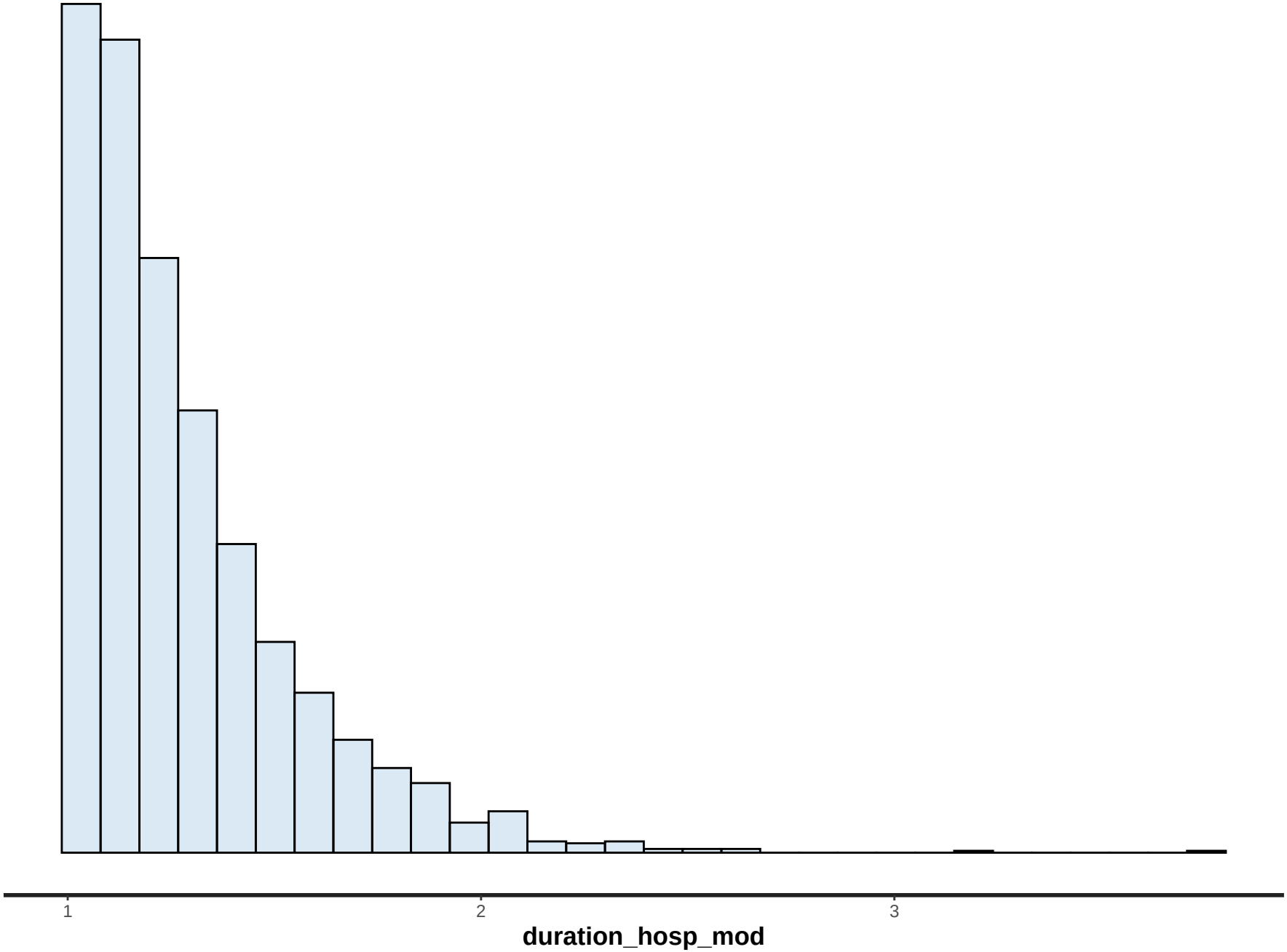


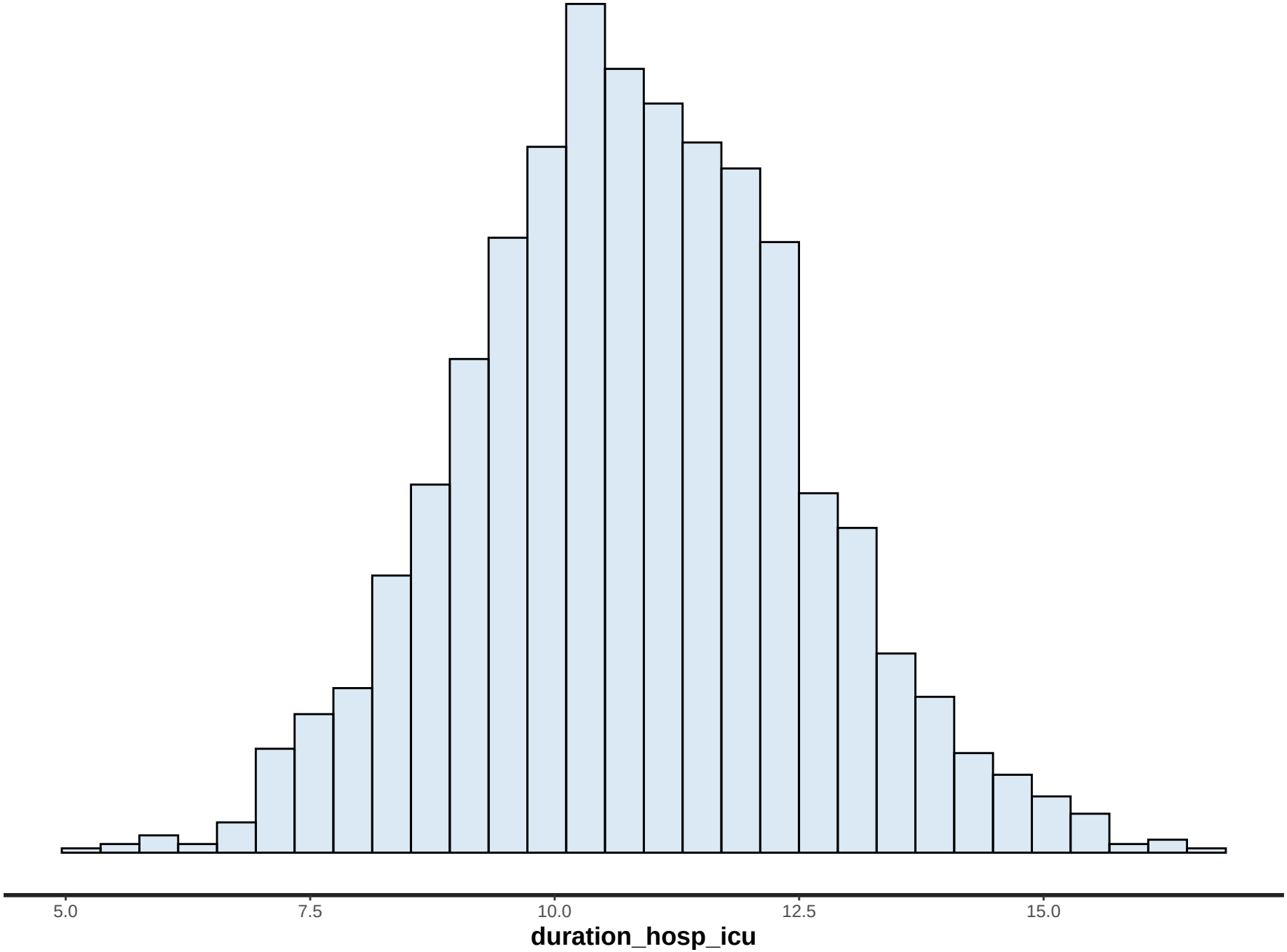

2
3
4
5
r0

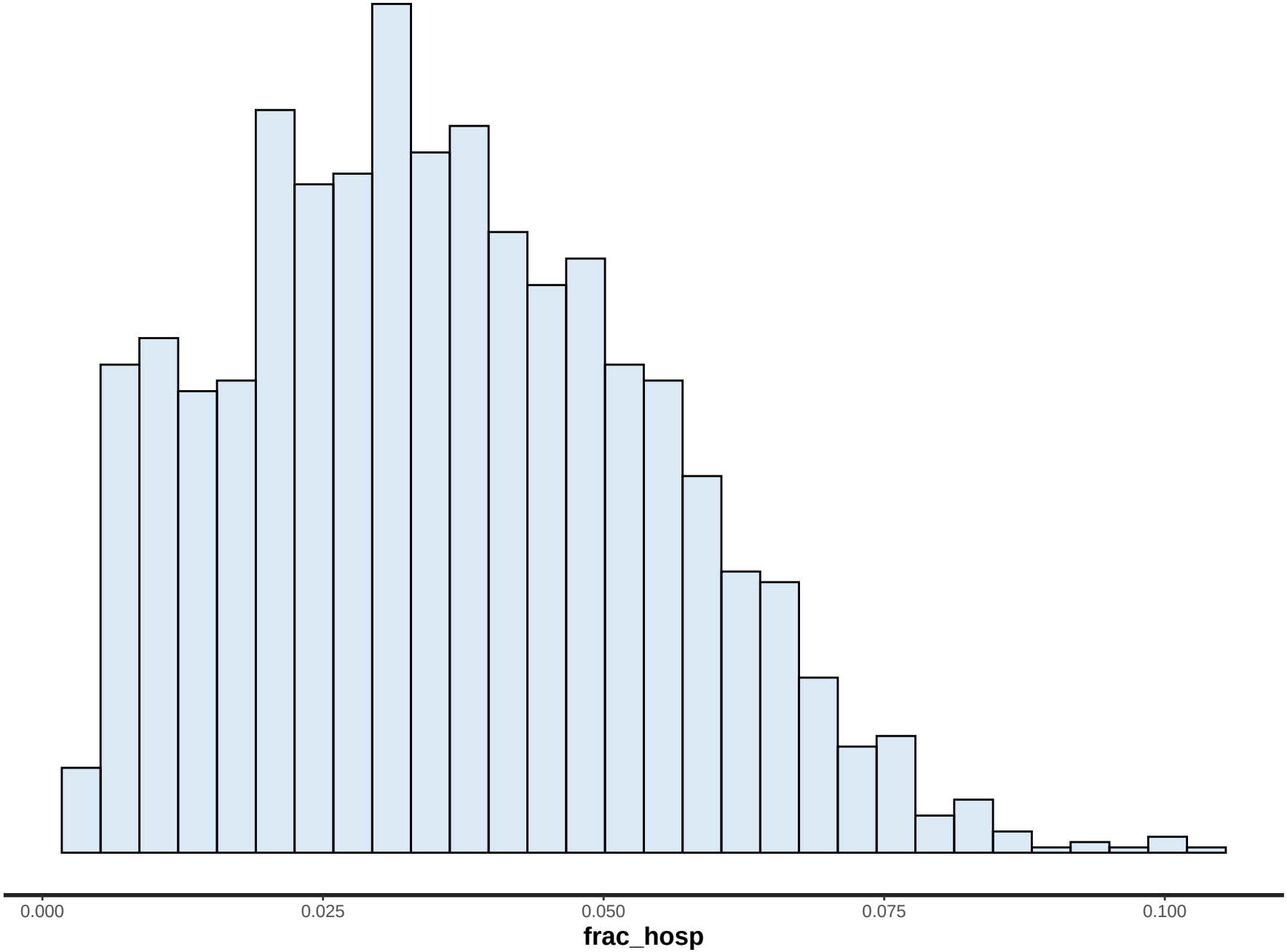

2
4
6
duration_latent


2
4
6
8
duration_rec_mild


5
10
duration_pre_hosp


1
2
3
duration_hosp_mod


5.0
7.5
10.0
12.5
15.0
duration_hosp_icu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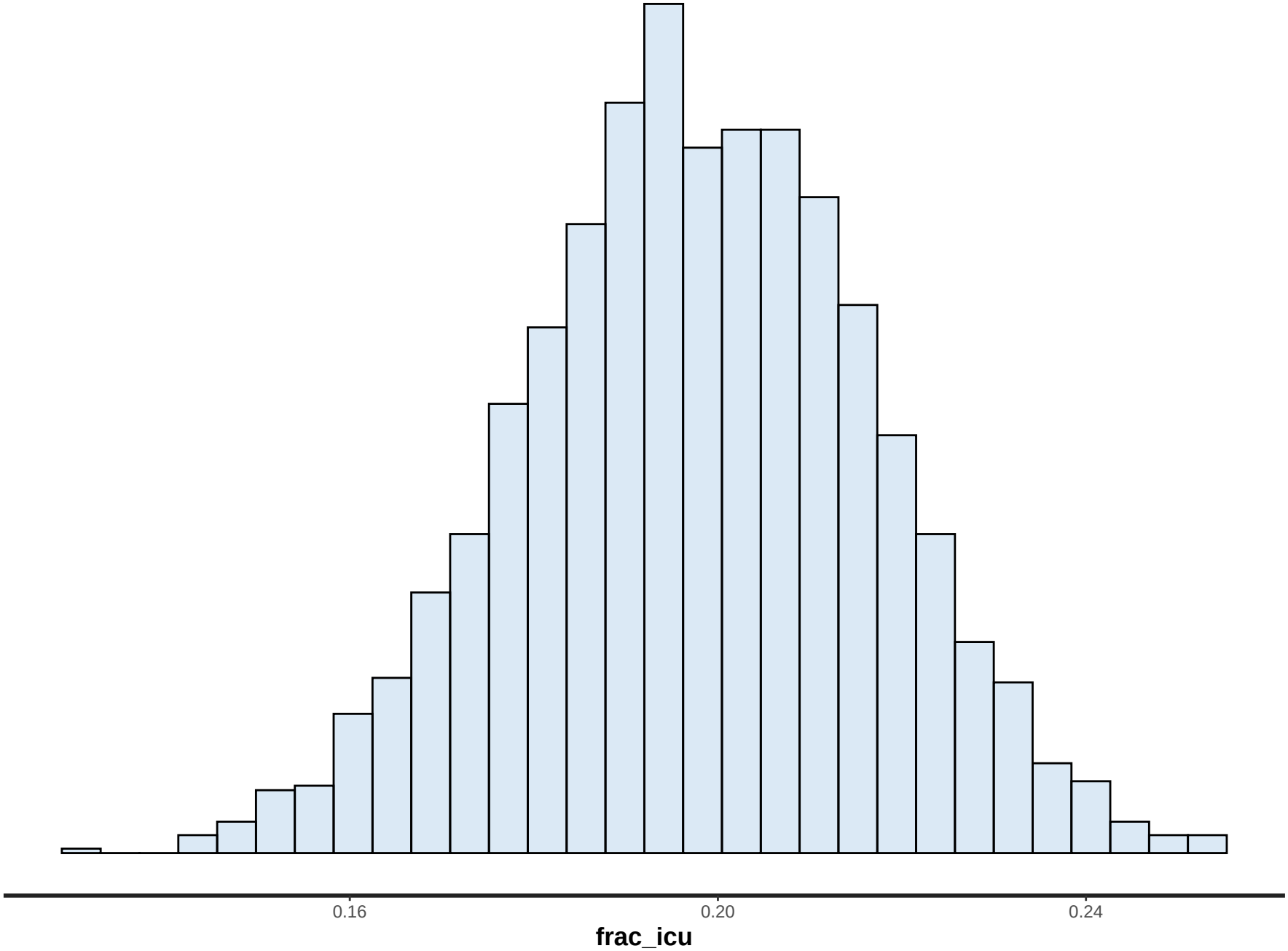
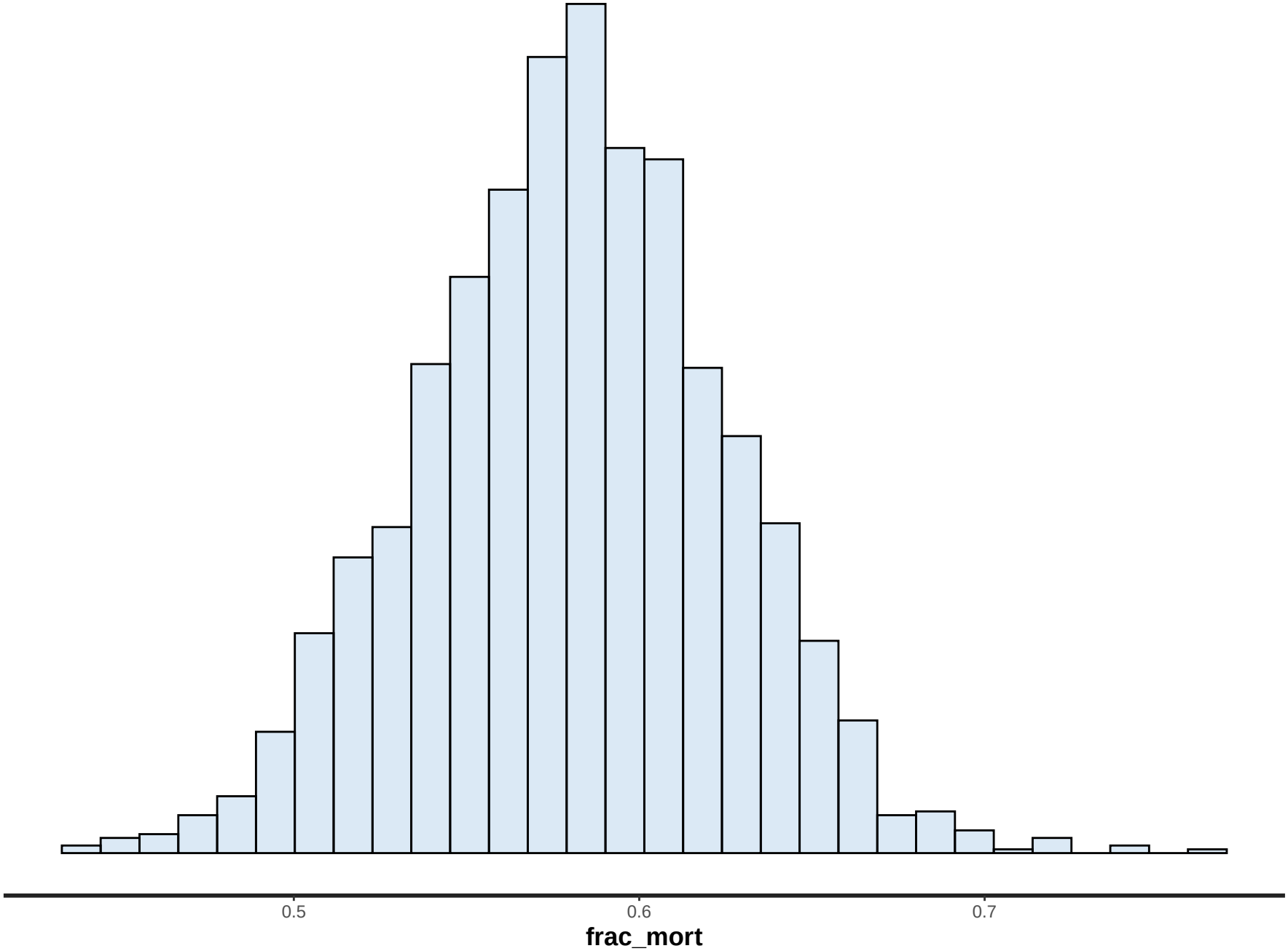
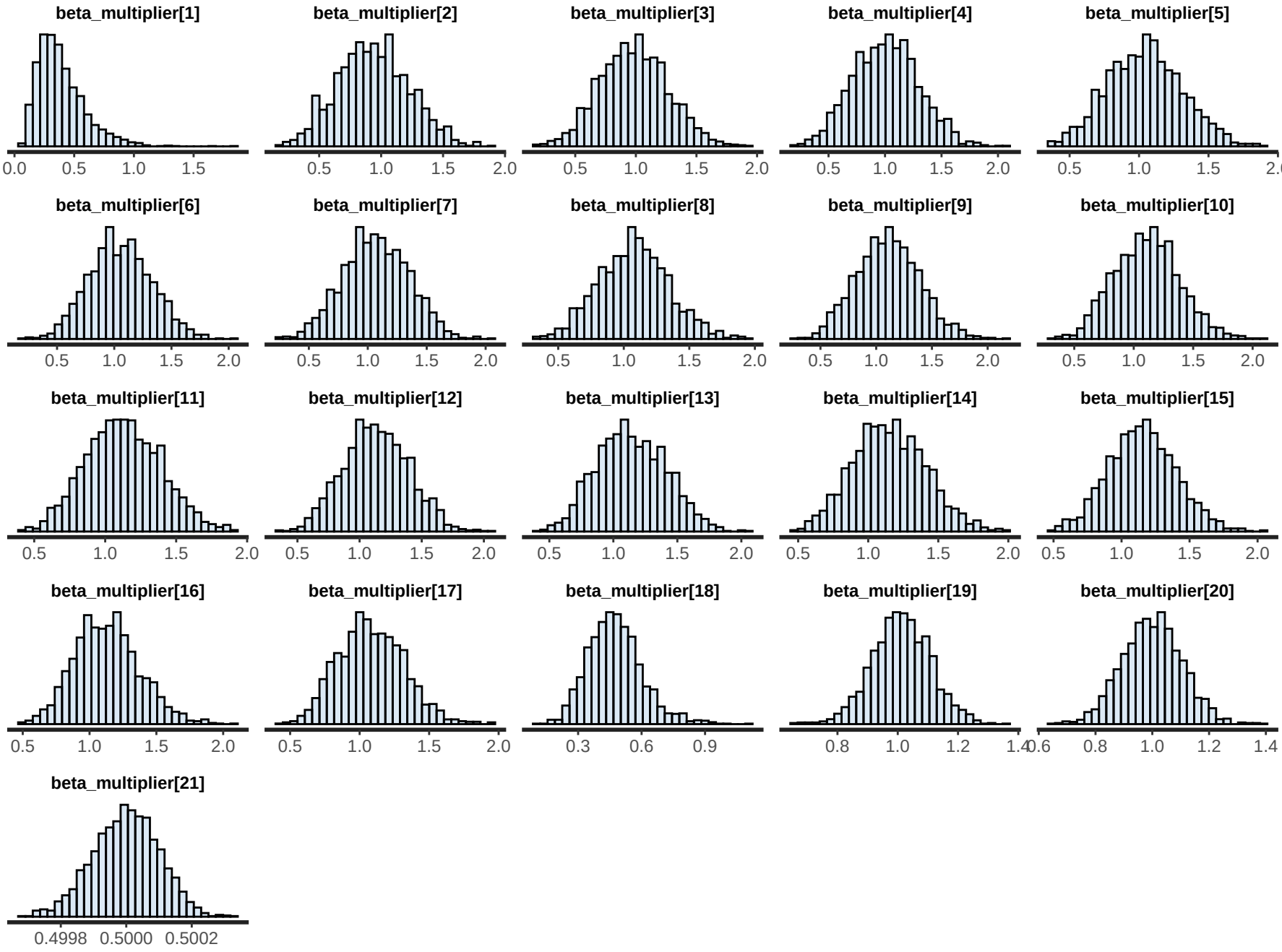
0.025
0.050
0.075
0.100
frac_hosp


0.16
0.20
0.24
frac_icu


0.5
0.6
0.7
frac_mort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beta_multiplier[2]
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beta_multiplier[4]
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beta_multiplier[5]
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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]
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beta_multiplier[10]
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beta_multiplier[11]
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beta_multiplier[13]
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beta_multiplier[15]
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beta_multiplier[16]
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beta_multiplier[17]
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beta_multiplier[18]
0.3 0.6 0.9
beta_multiplier[19]
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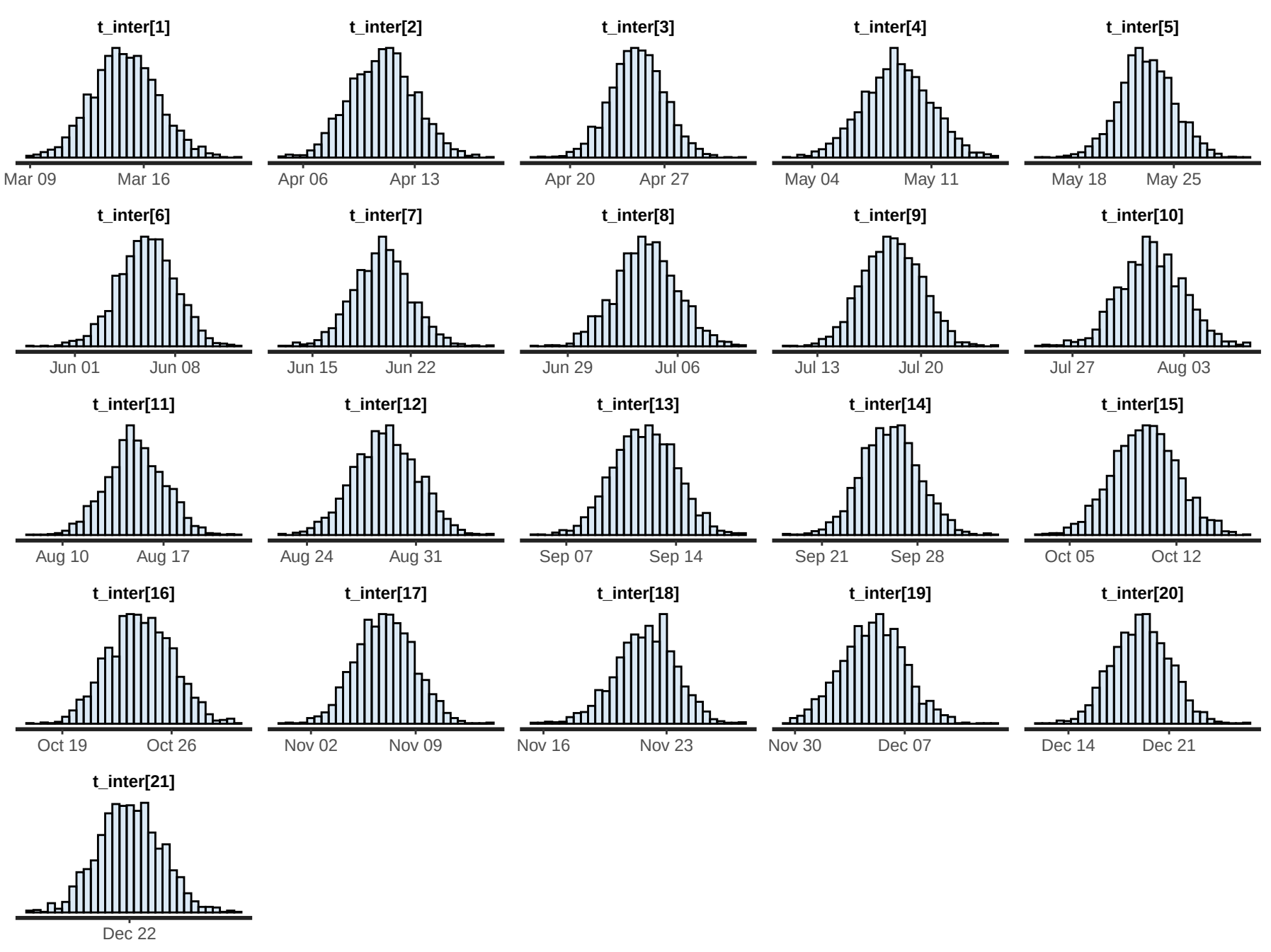
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May 04
May 11
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May 18
May 25
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Jun 01
Jun 08
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Jun 15
Jun 22
t_inter[8]
Jun 29
Jul 06
t_inter[9]
Jul 13
Jul 20
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Jul 27
Aug 03
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Aug 10
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Aug 24
Aug 31
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Sep 07
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Sep 21
Sep 28
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Oct 05
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Oct 19
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Nov 02
Nov 09
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Dec 07
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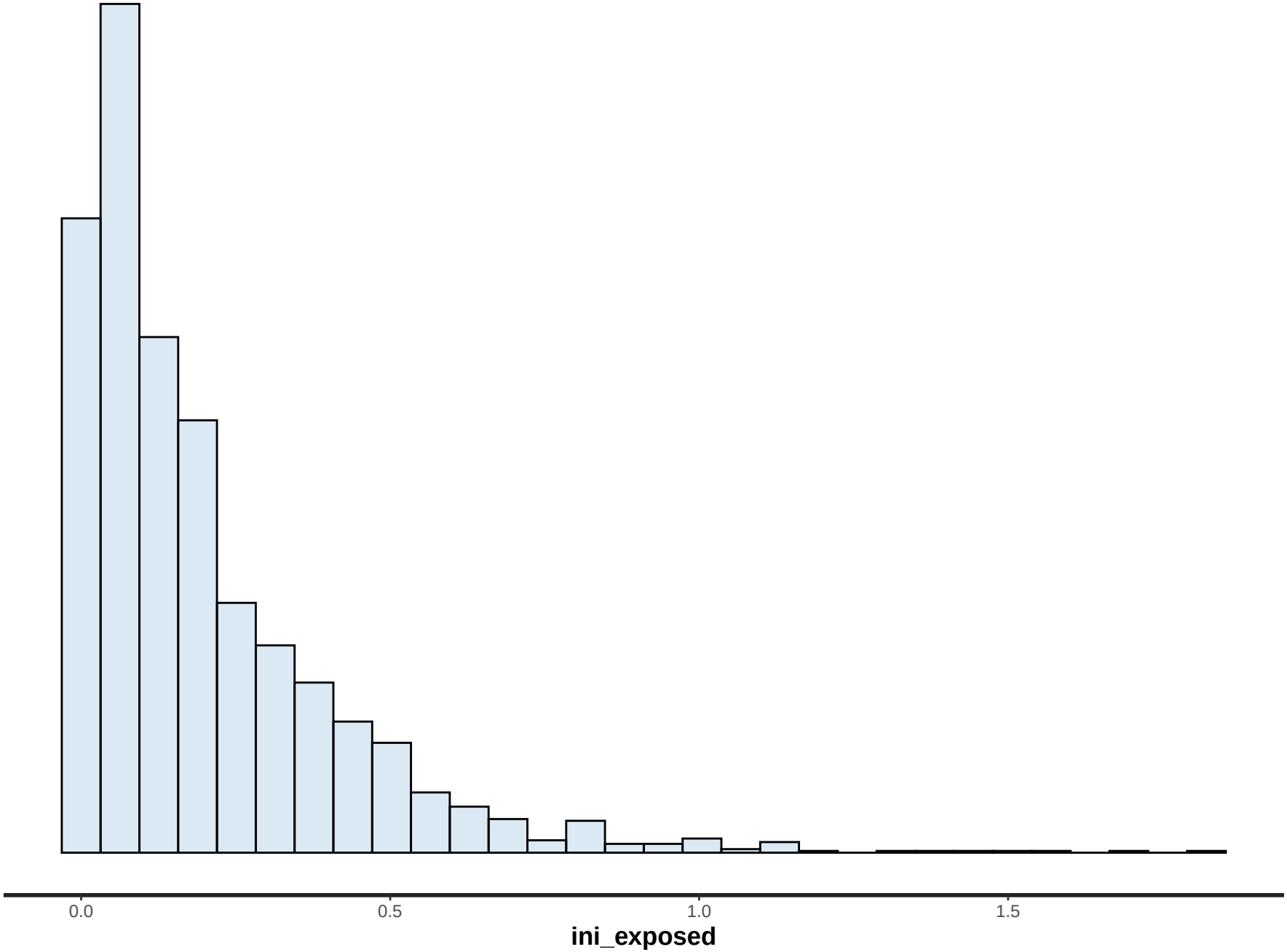
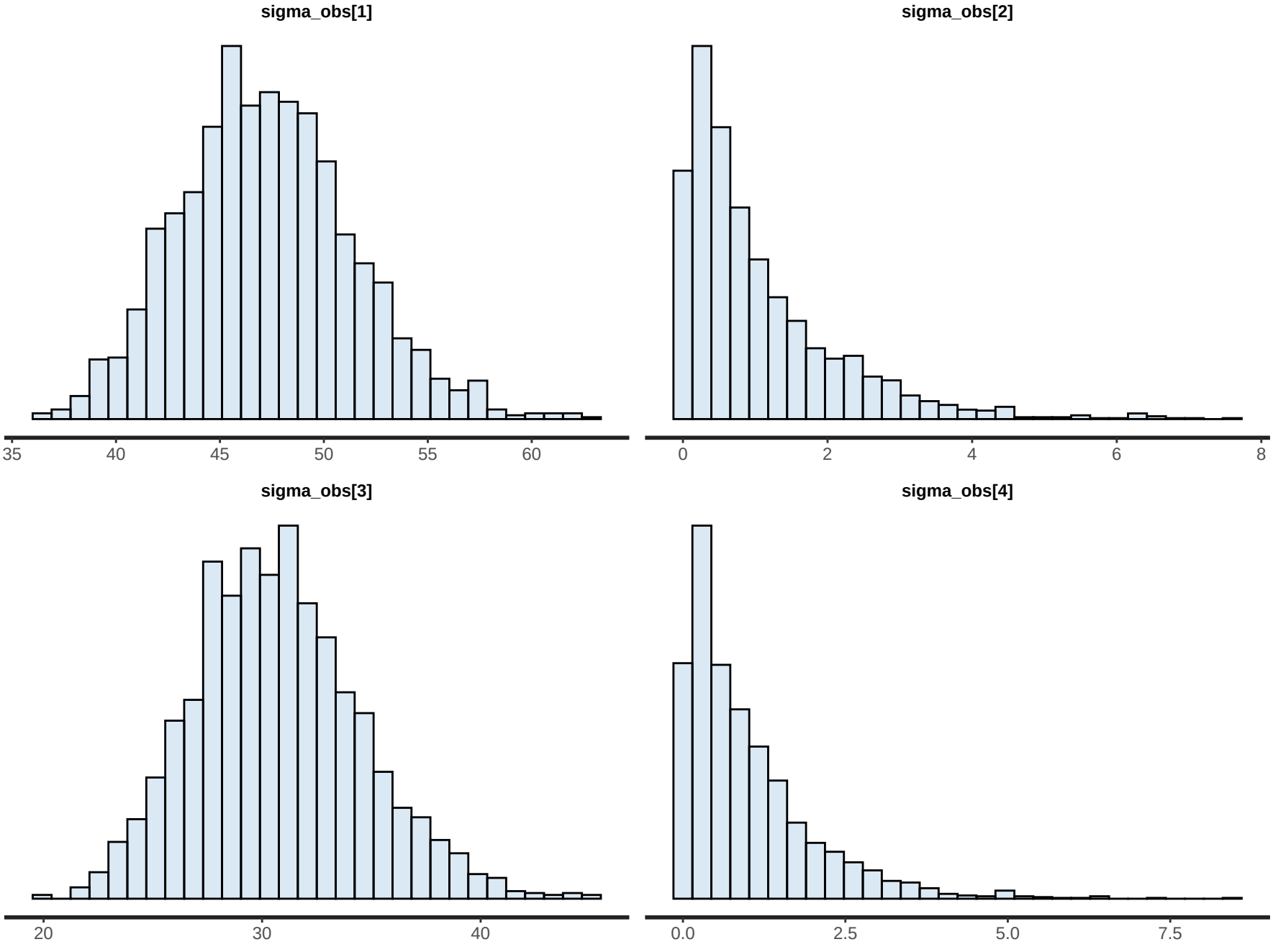
Dec 14
Dec 21
t_inter[21]
Dec 22


0.0
0.5
1.0
1.5
ini_exposed


sigma_obs[1]
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40
45
50
55
60
sigma_obs[2]
0
2
4
6
8
sigma_obs[3]
20
30
40
sigma_obs[4]
0.0
2.5
5.0
7.5