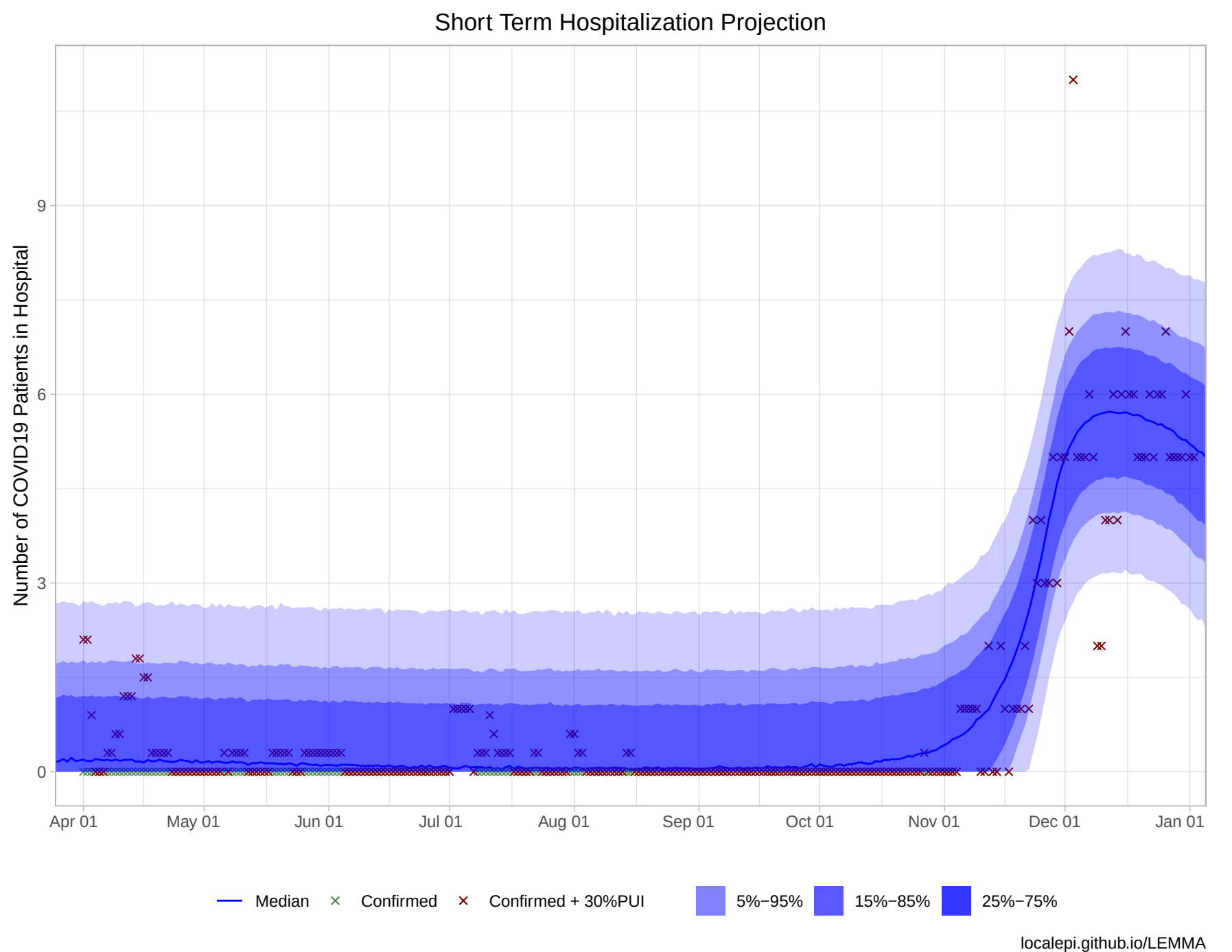
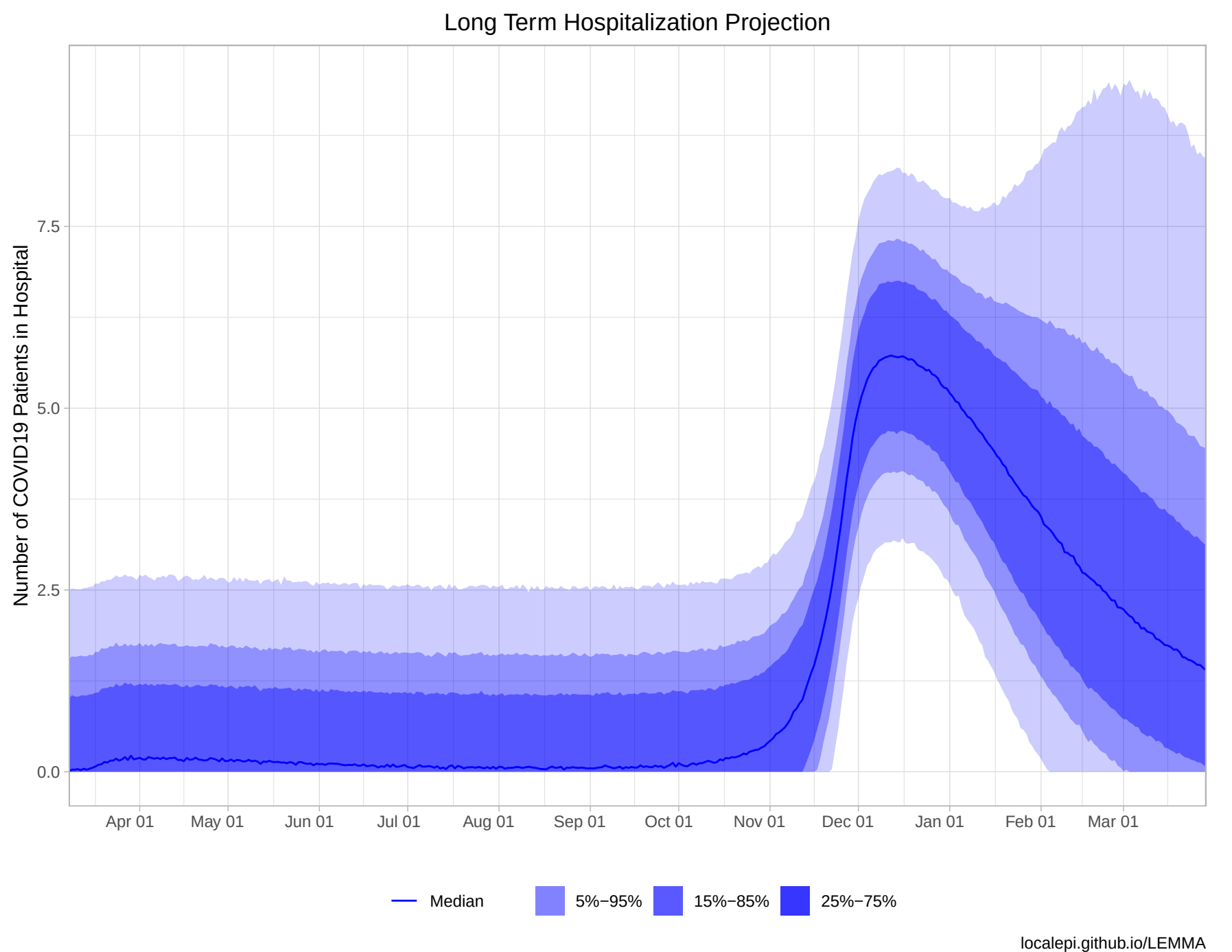
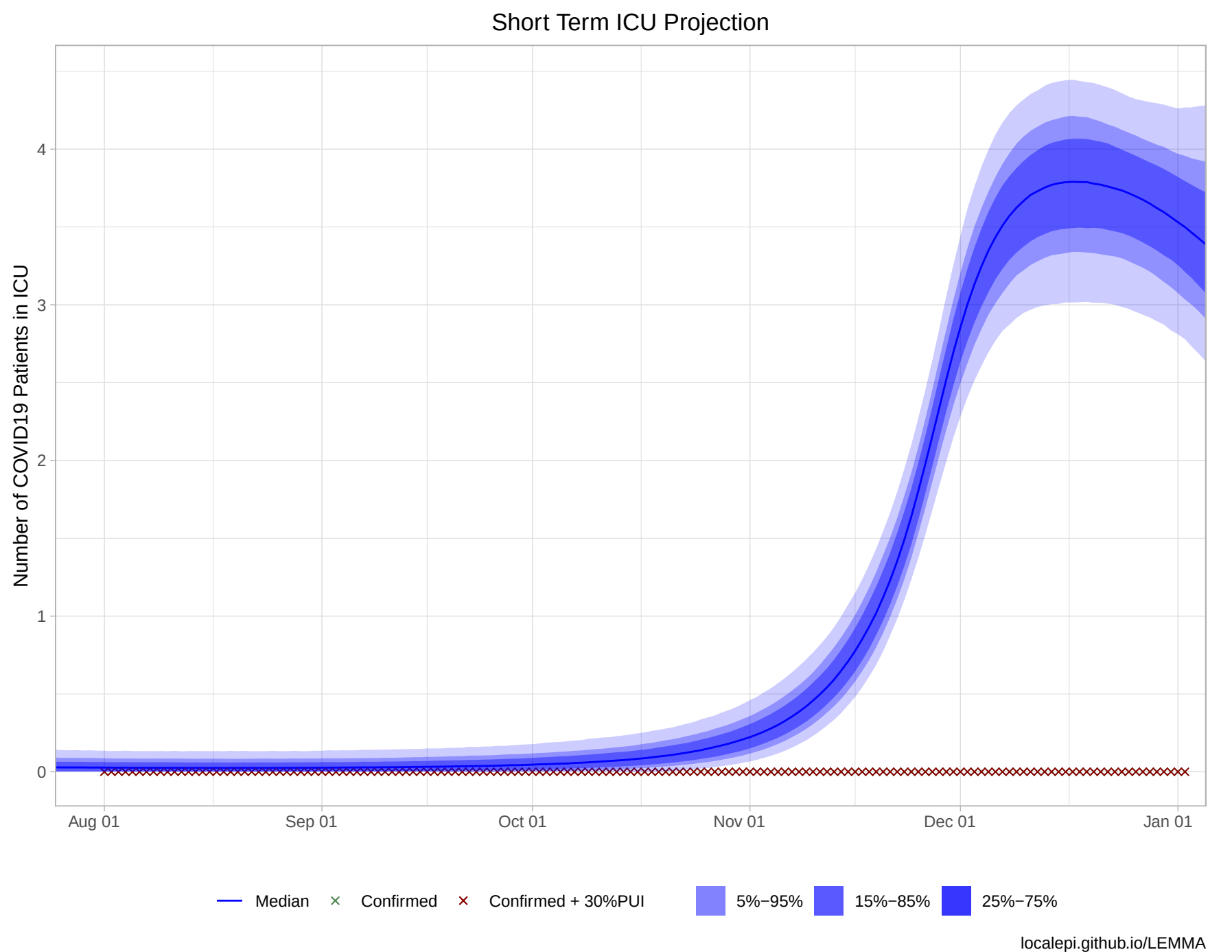
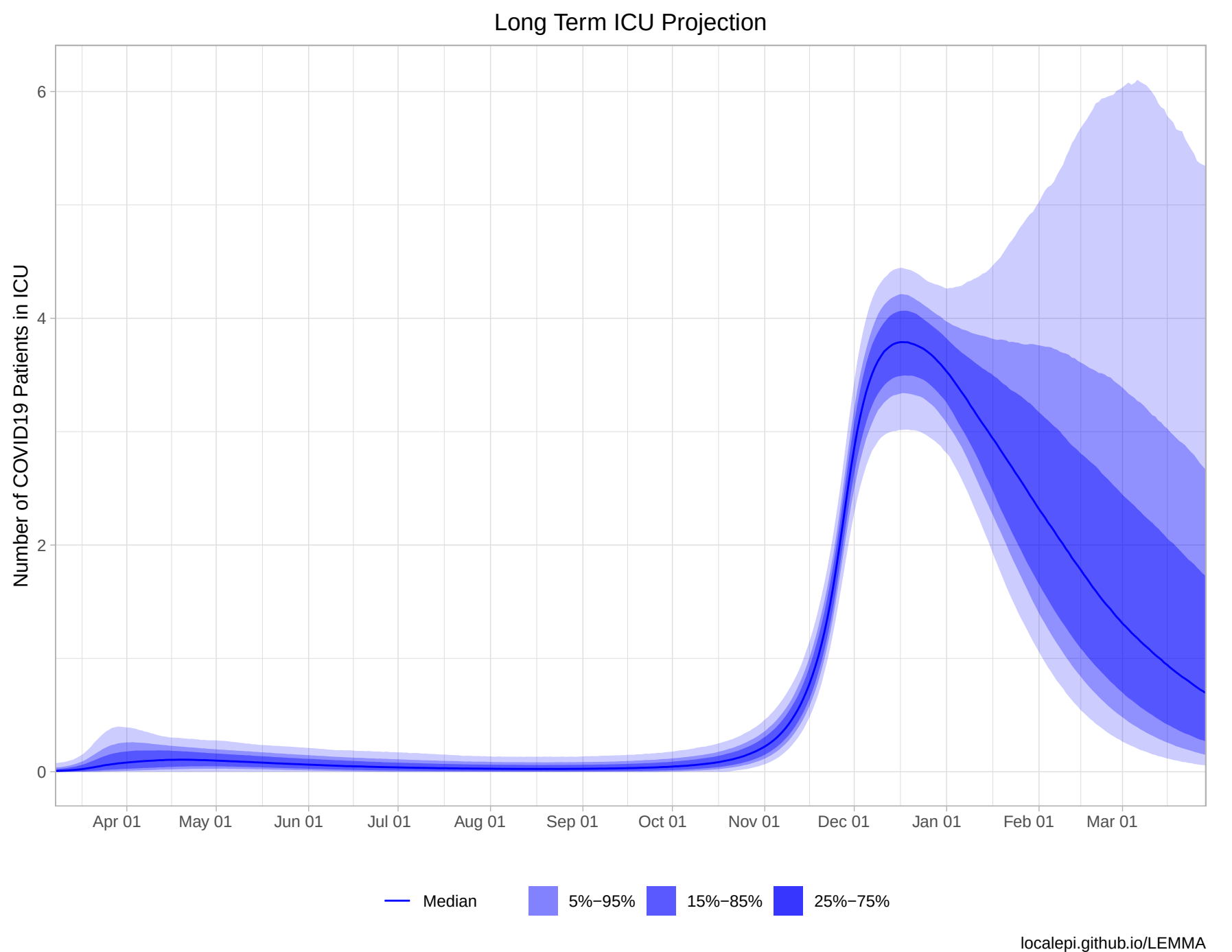
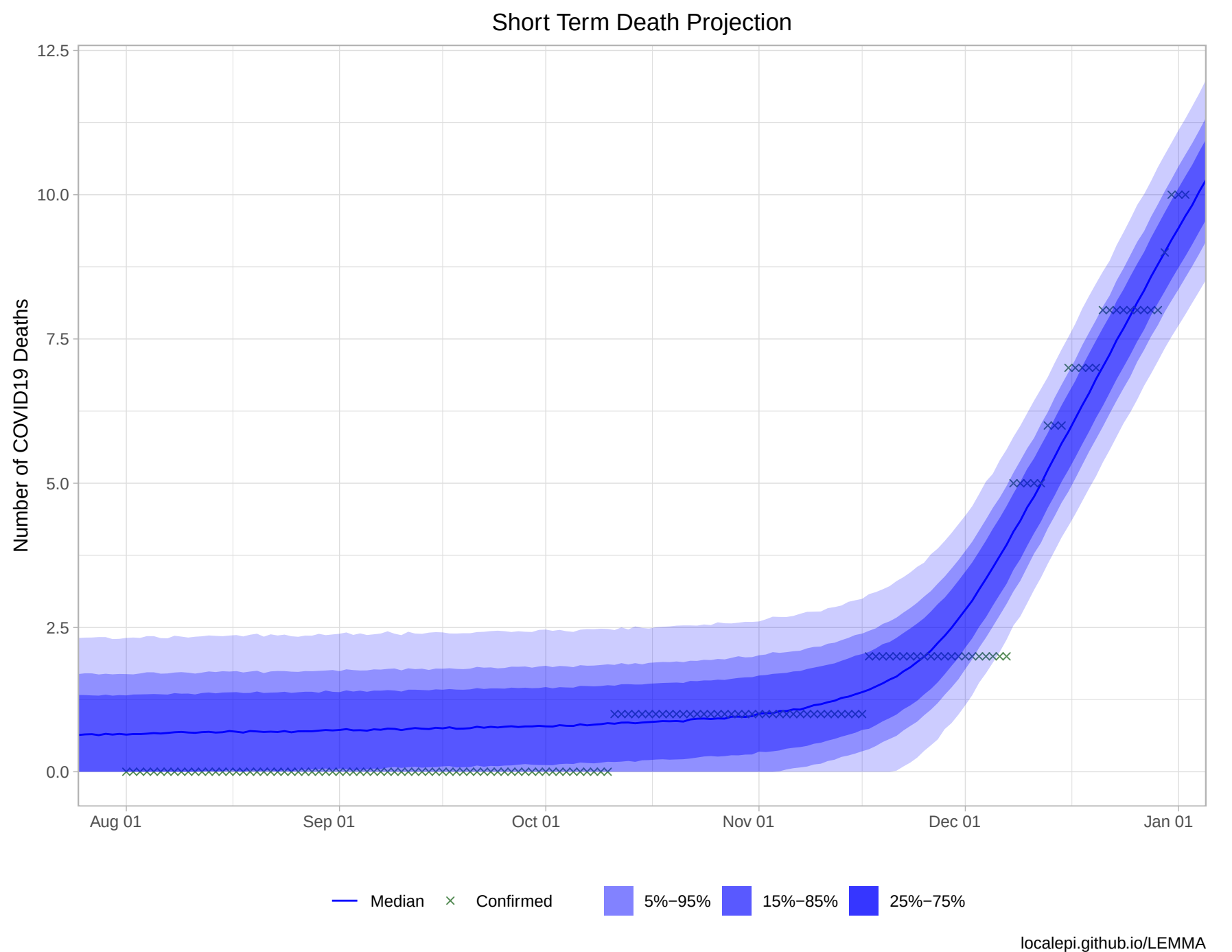
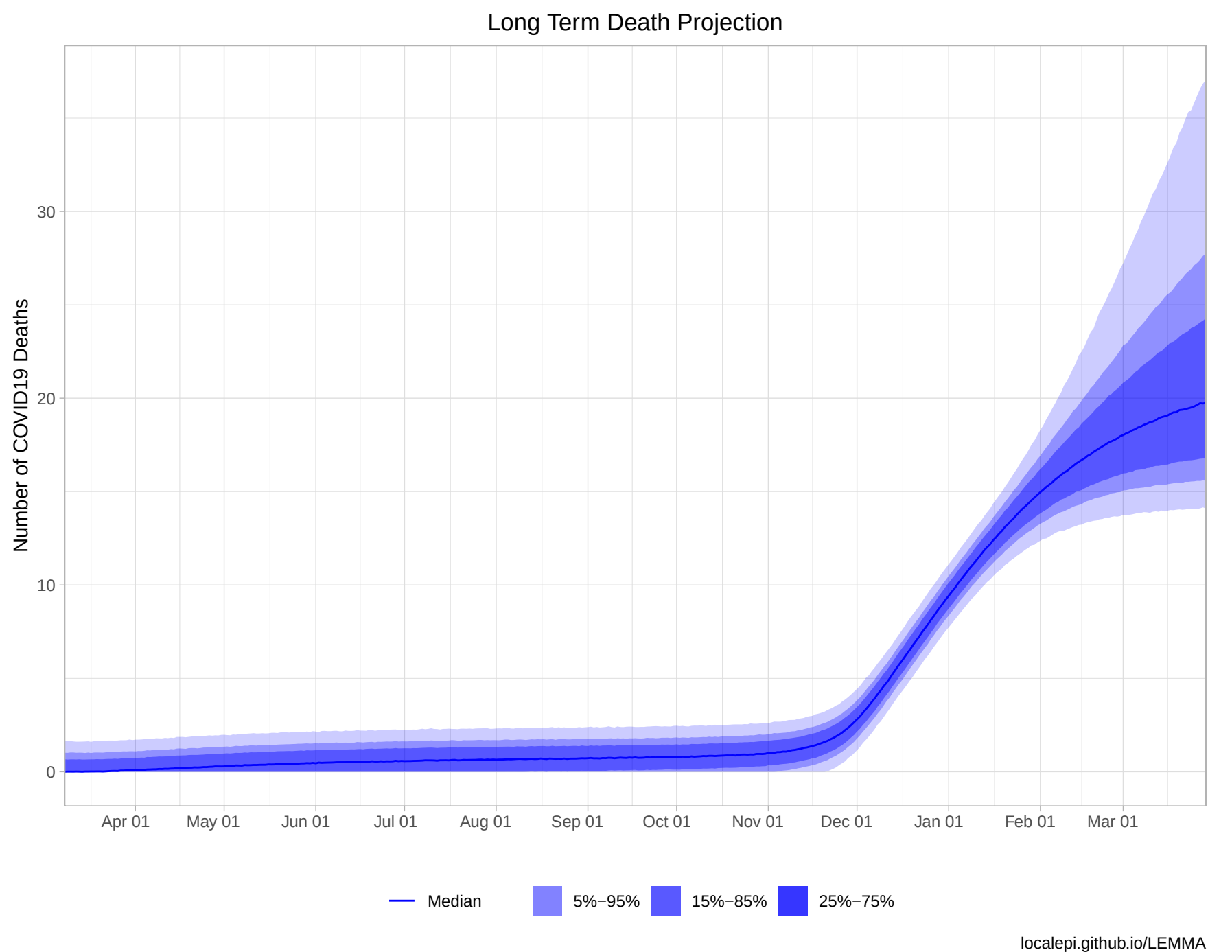

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
3
6
9
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

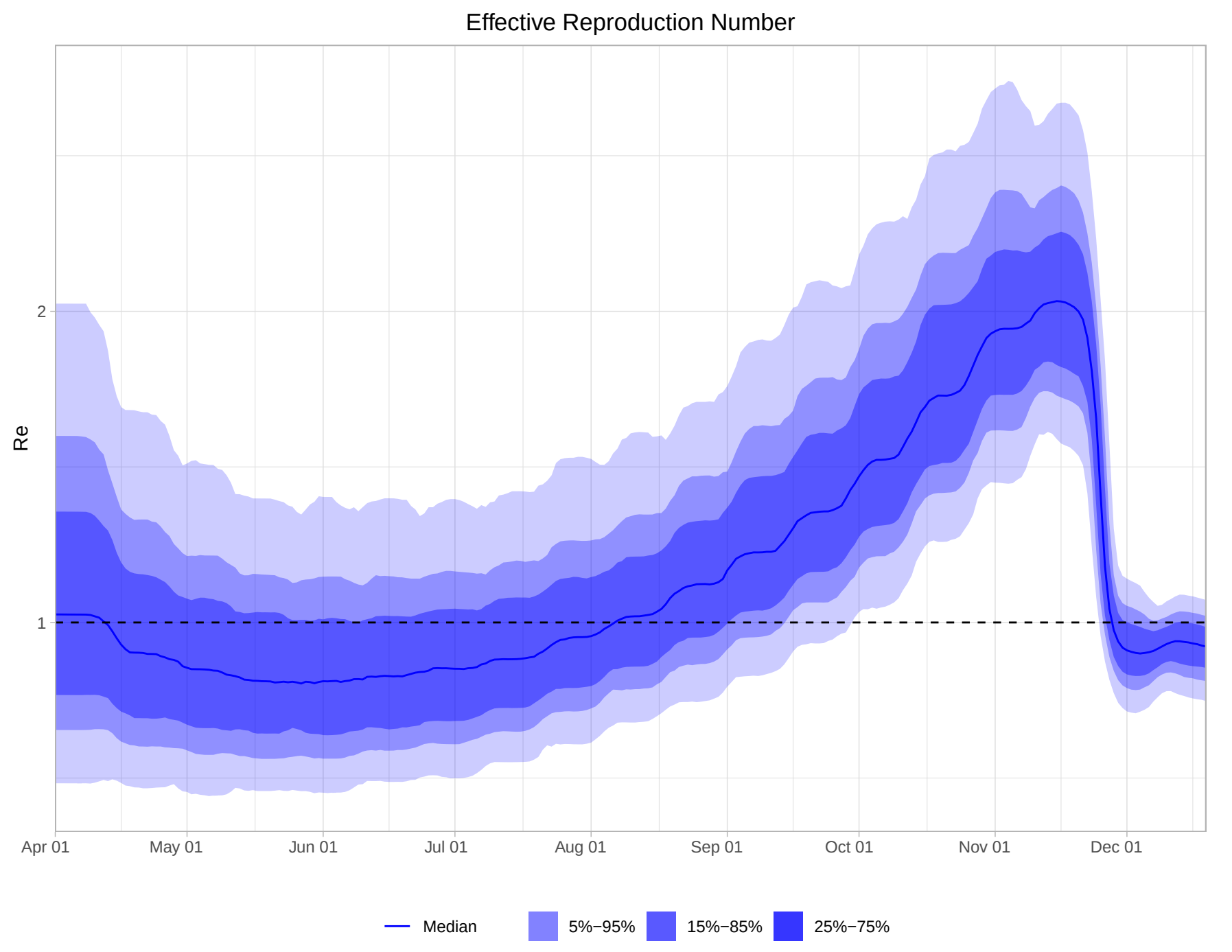

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
7.5
5.0
2.5
0.0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


Short Term ICU Projection
Number of COVID19 Patients in ICU
0
1
2
3
4
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
2
4
6
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

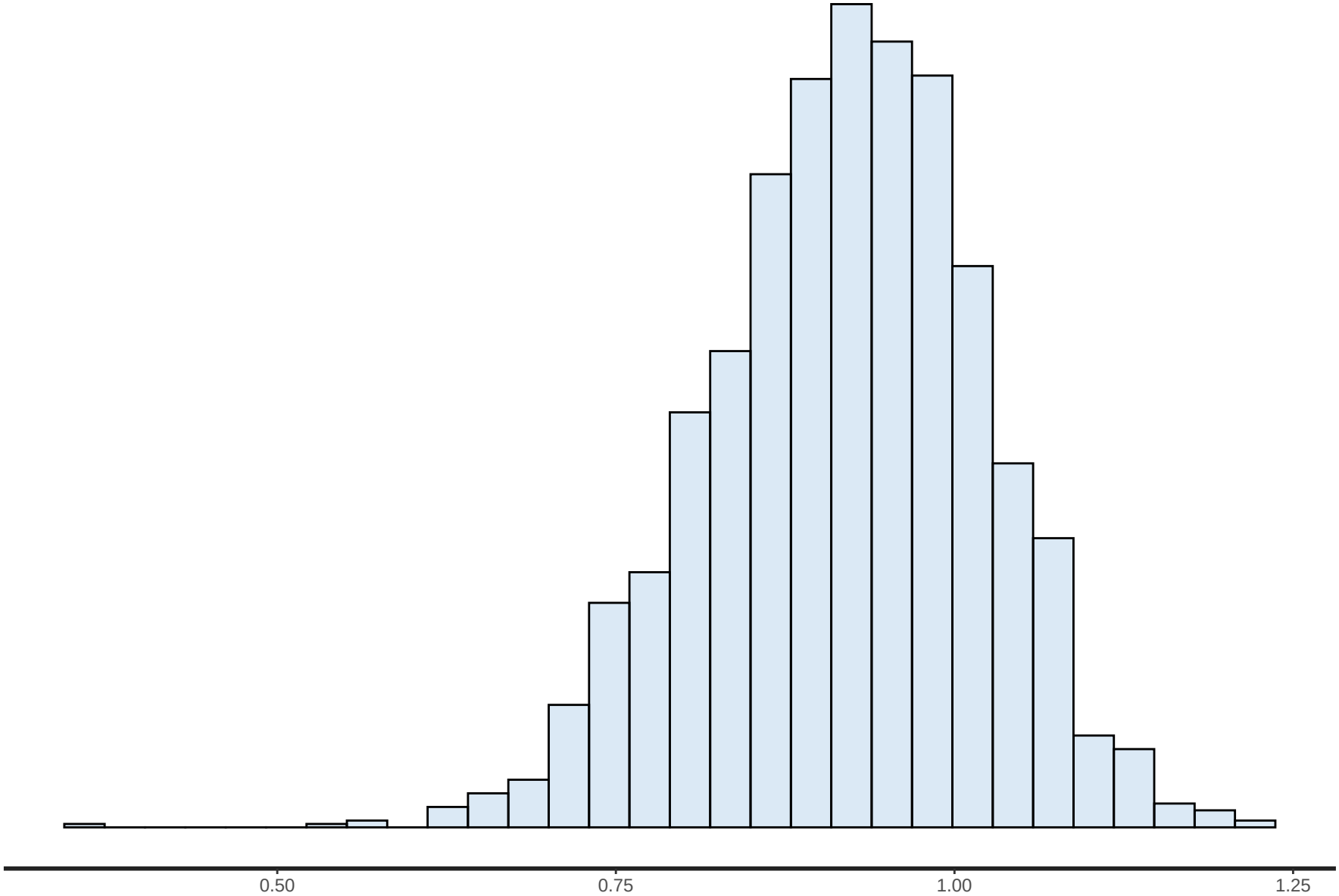

Short Term Death Projection
Number of COVID19 Deaths
12.5
10.0
7.5
5.0
2.5
0.0
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

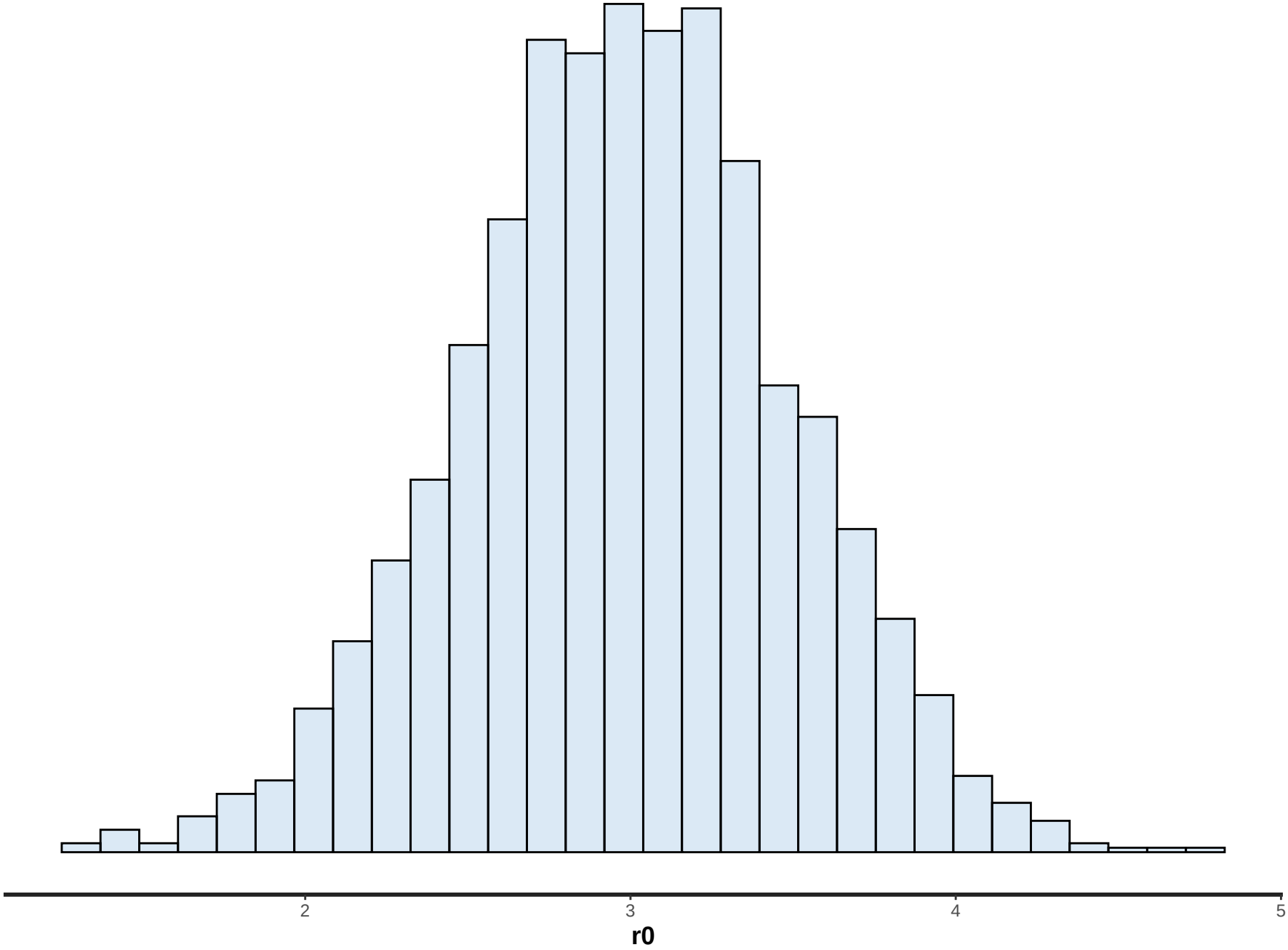

Long Term Death Projection
Number of COVID19 Deaths
0
10
20
30
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

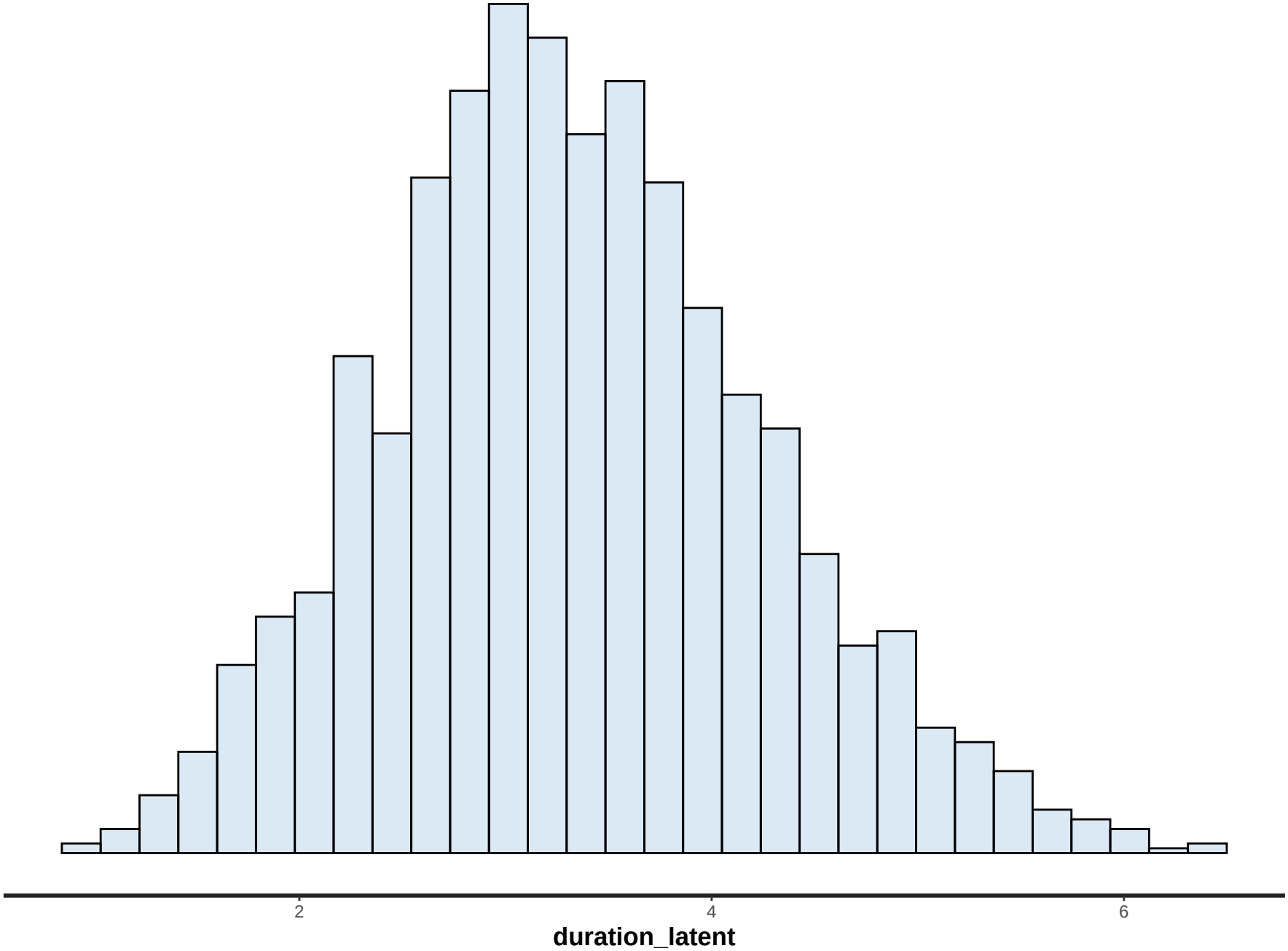

Effective Reproduction Number
Re
2
1
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
5%−95%
15%−85%
25%−75%

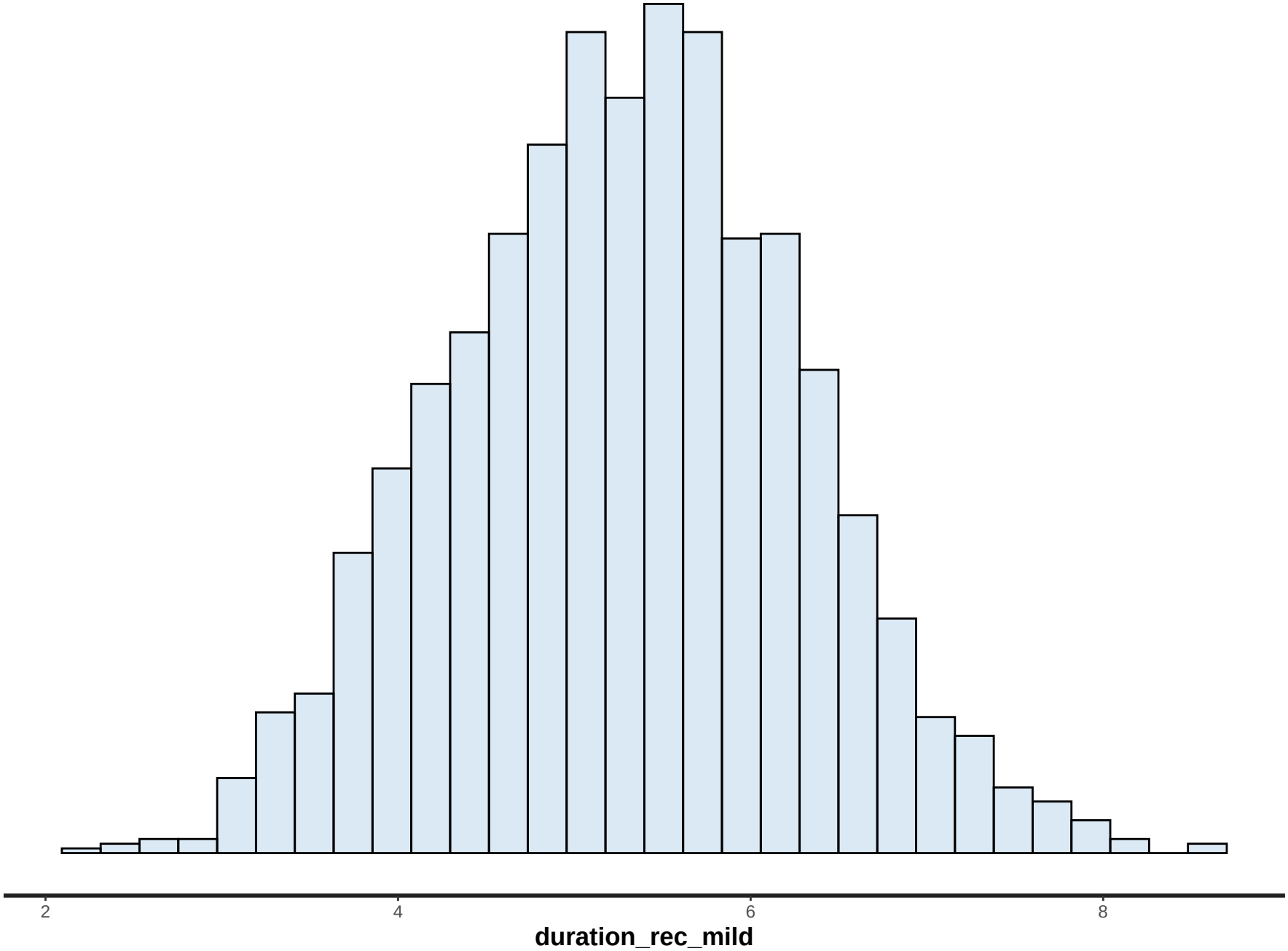
Rt as of 2020−12−19

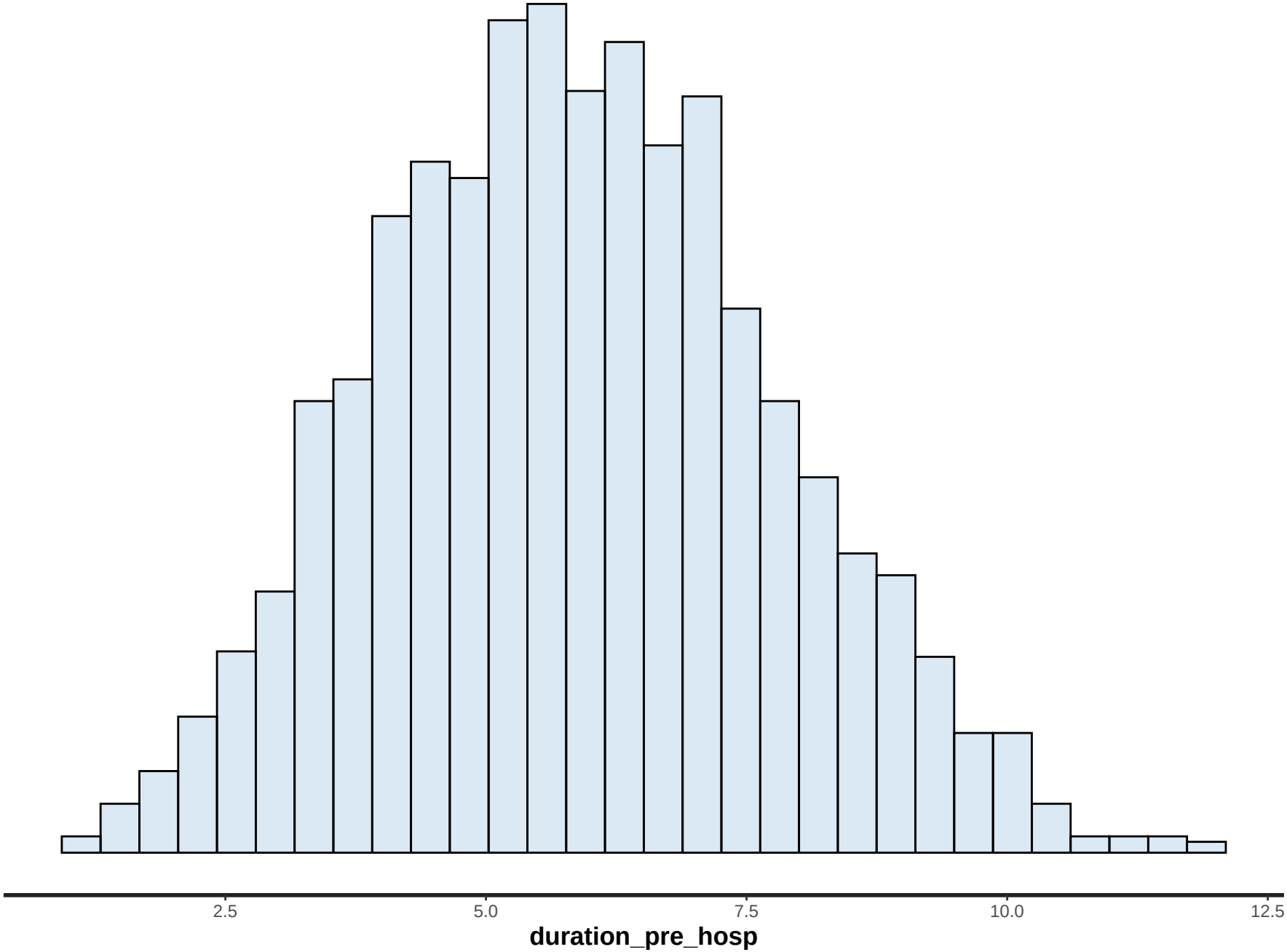
5%	10%	25%	50%	75%	90%	95%
0.75	0.78	0.85	0.92	0.99	1.04	1.07

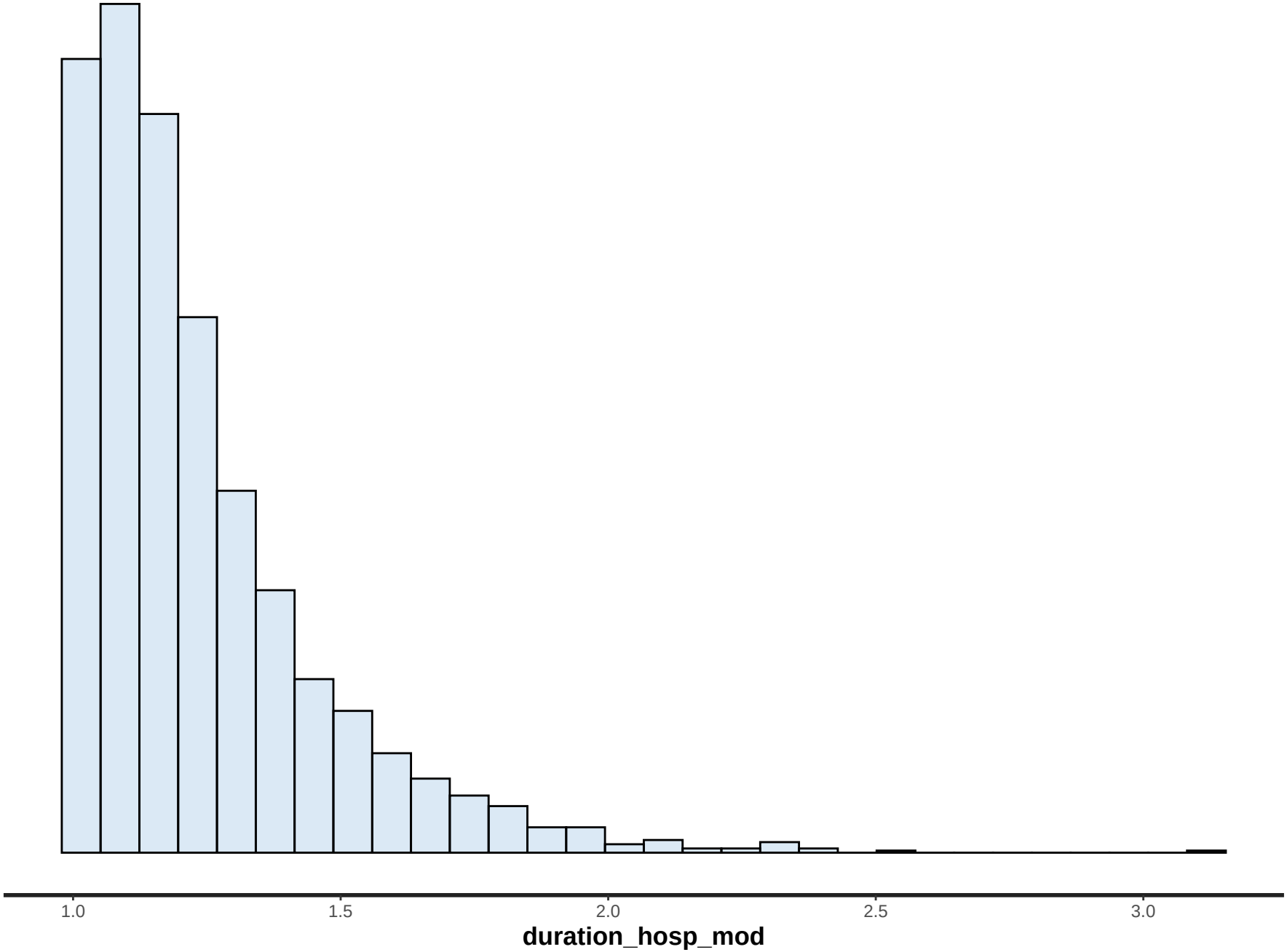


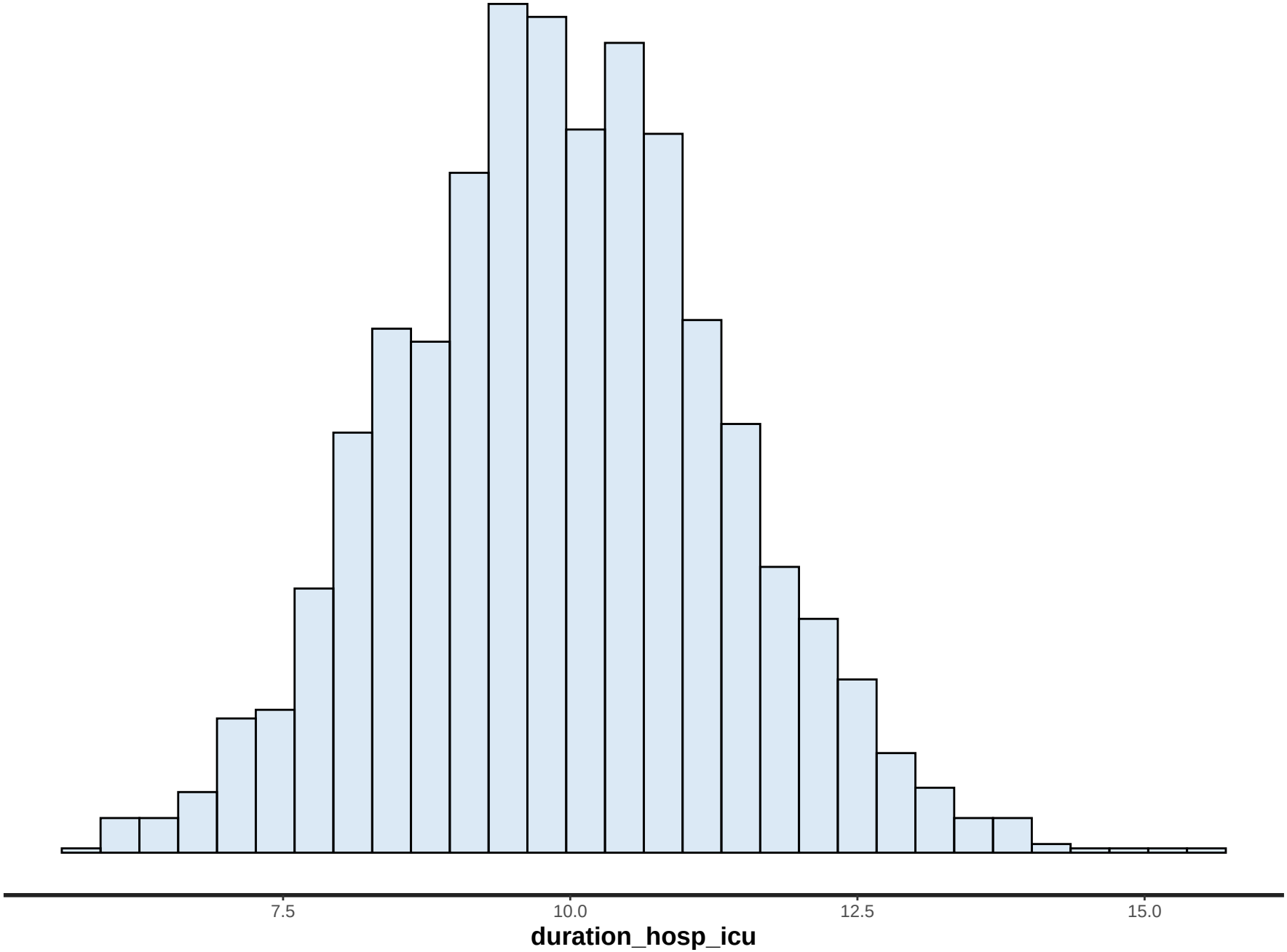

2
3
4
5
r0

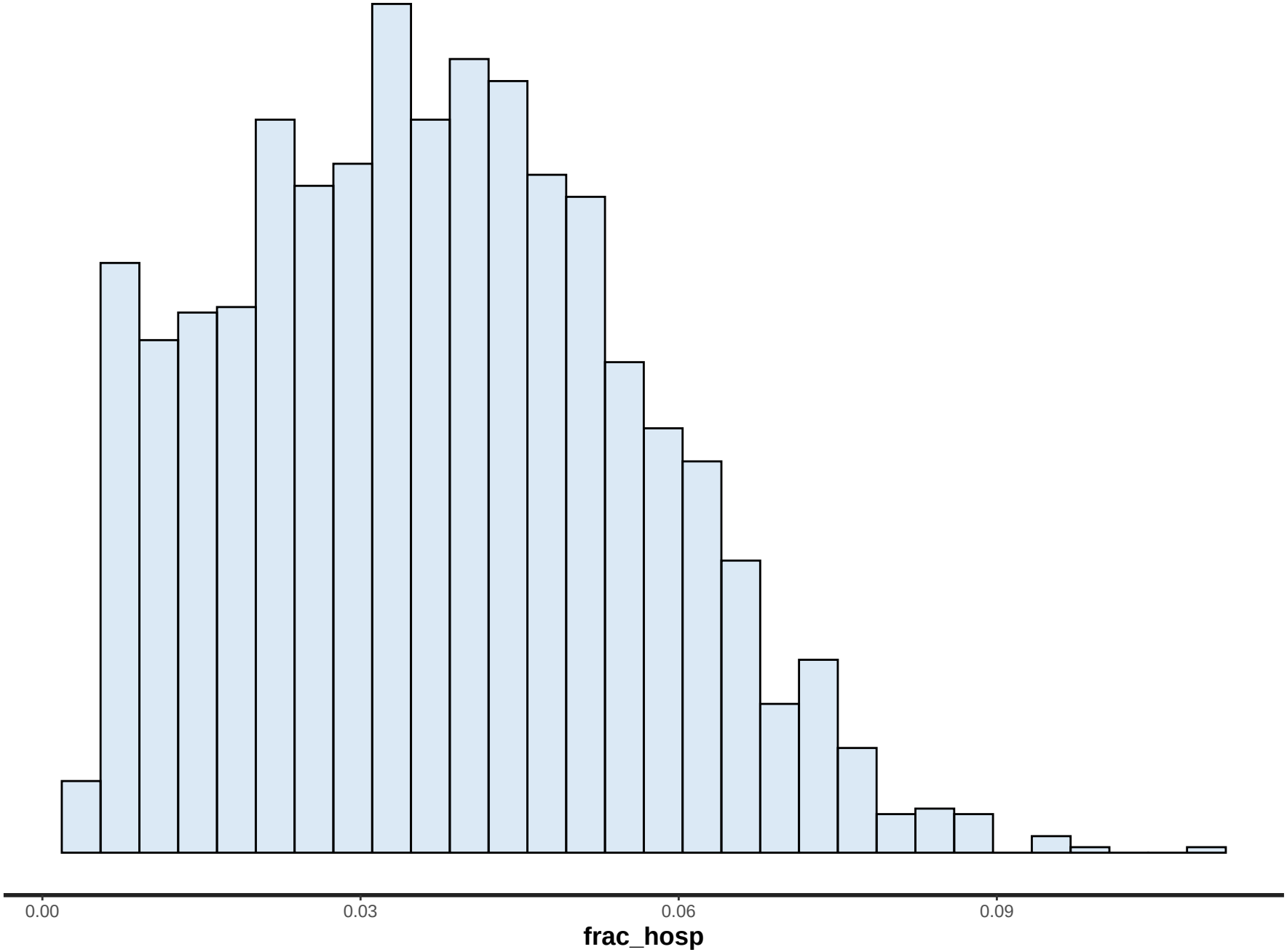

2
4
6
duration_latent

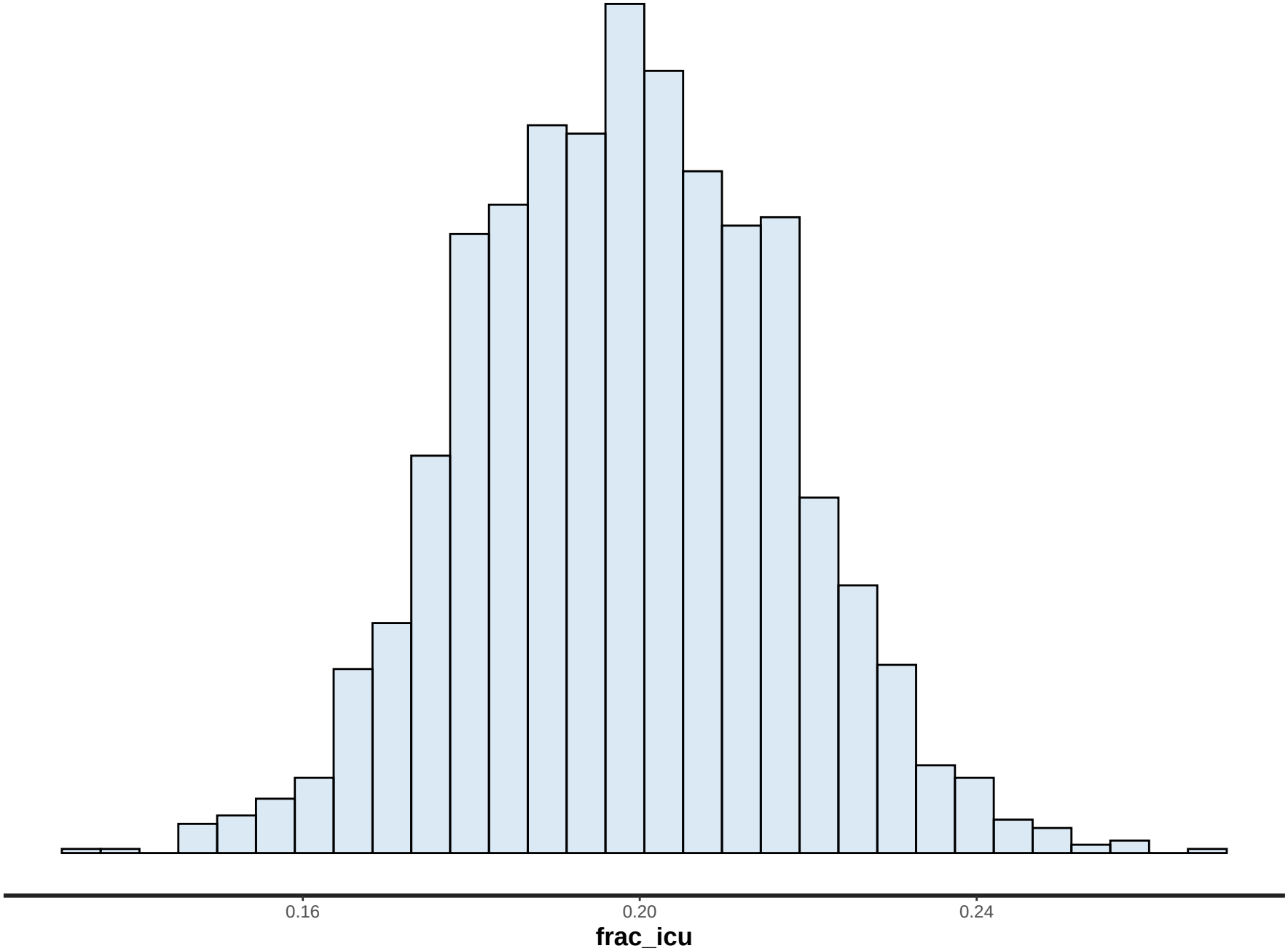

2
4
6
8
duration_rec_mild

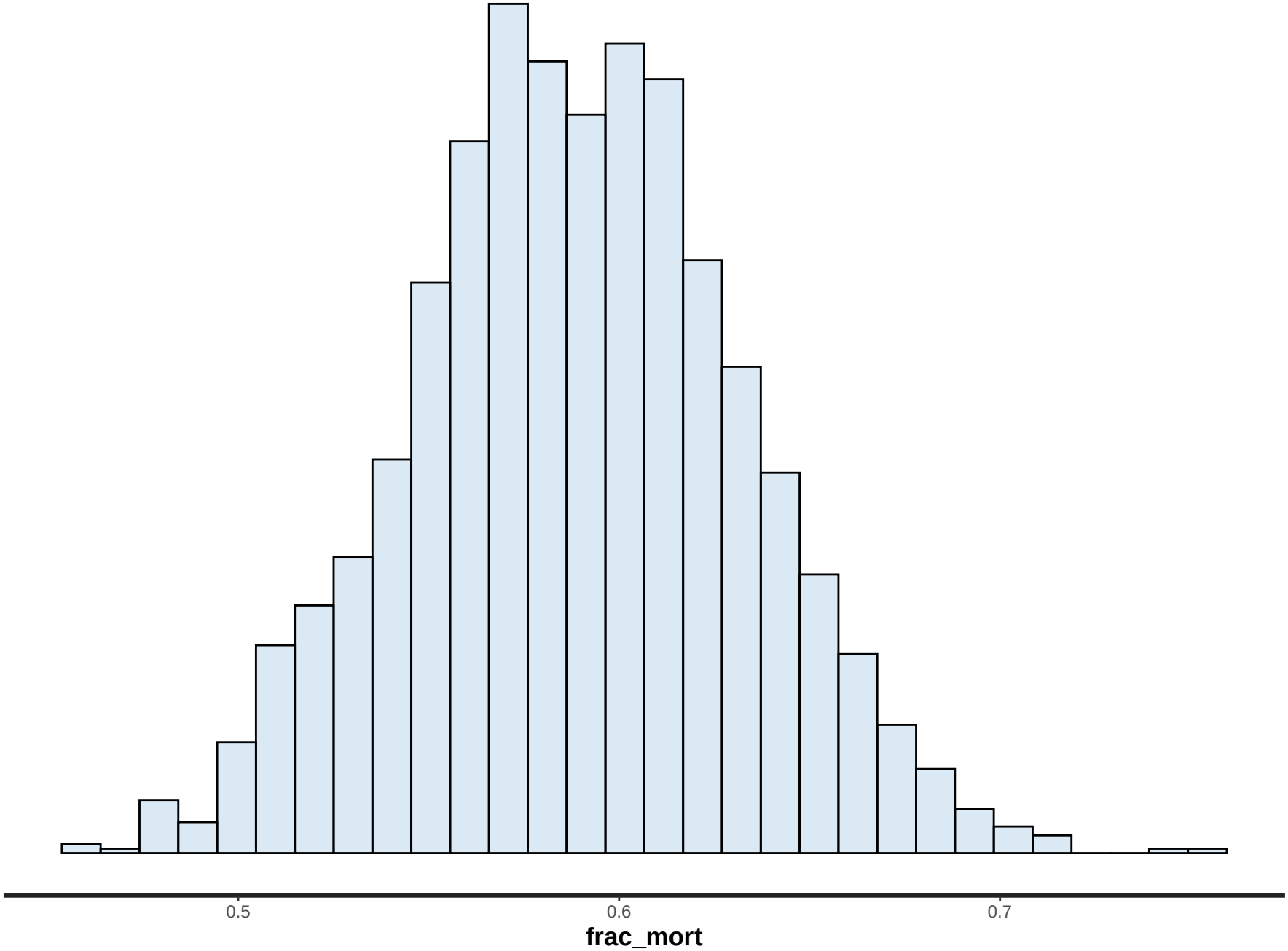

2.5
5.0
7.5
10.0
12.5
duration_pre_hosp

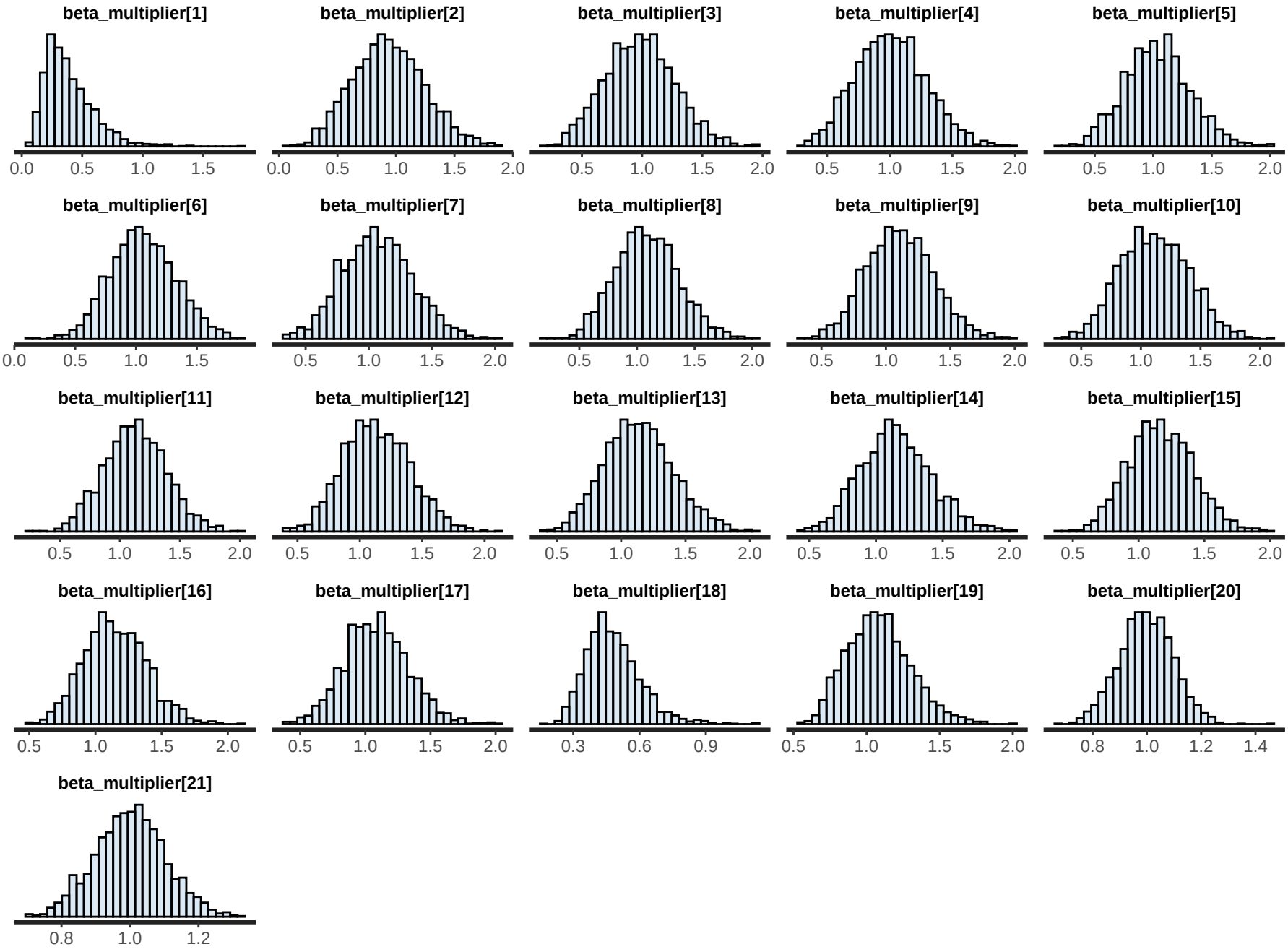

1.0
1.5
2.0
2.5
3.0
duration_hosp_mod


7.5
10.0
12.5
15.0
duration_hosp_icu


0.00
0.03
0.06
0.09
frac_hosp


0.16
0.20
0.24
frac_icu


0.5
0.6
0.7
frac_mort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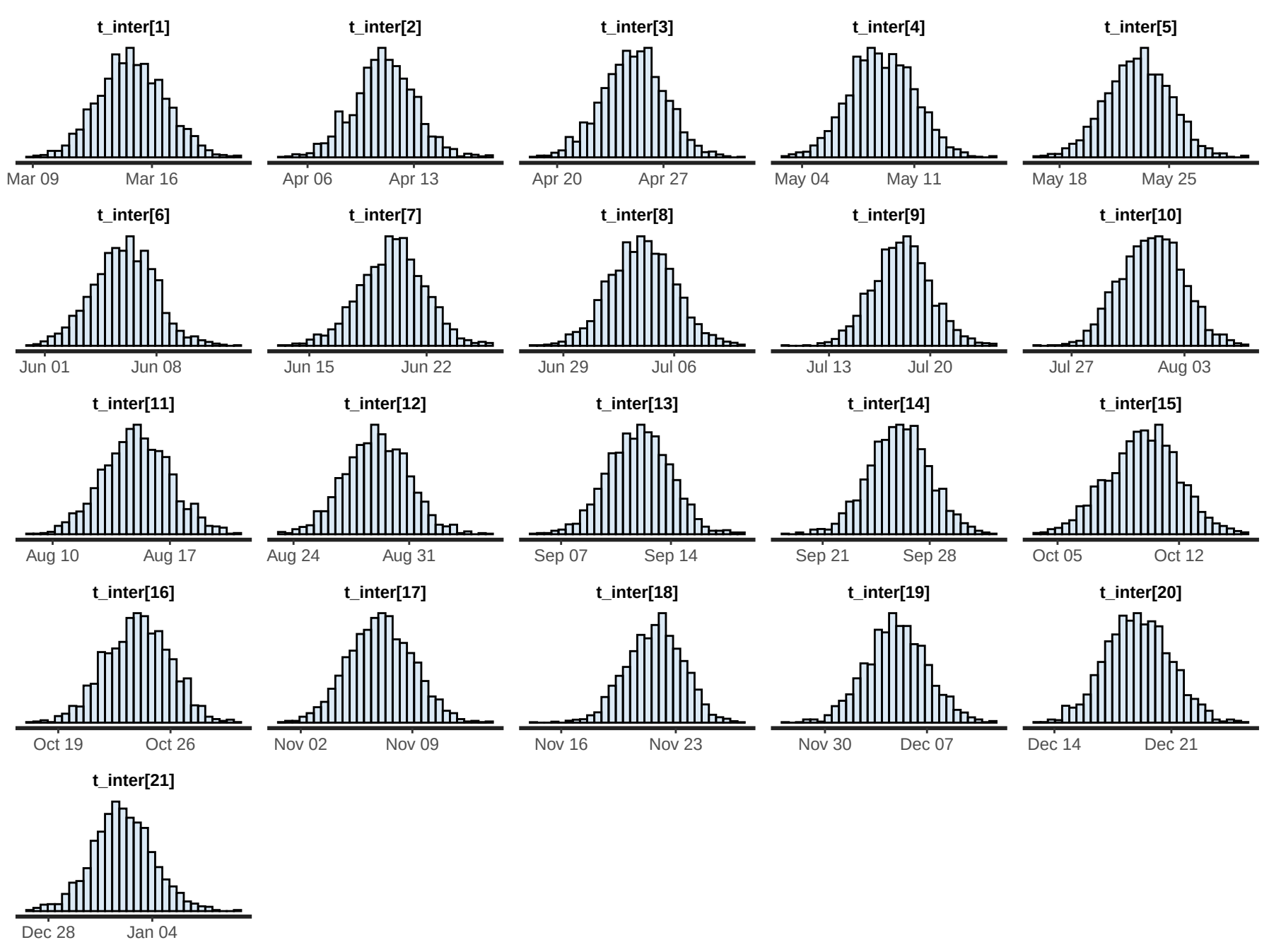
beta_multiplier[2]
beta_multiplier[3]
beta_multiplier[4]
beta_multiplier[5]
beta_multiplier[6]
beta_multiplier[7]
beta_multiplier[8]
beta_multiplier[9]
beta_multiplier[10]
beta_multiplier[11]
beta_multiplier[12]
beta_multiplier[13]
beta_multiplier[14]
beta_multiplier[15]
beta_multiplier[16]
beta_multiplier[17]
beta_multiplier[18]
beta_multiplier[19]
beta_multiplier[20]
beta_multiplier[21]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Mar 09
Mar 16
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Apr 06
Apr 13
t_inter[3]
Apr 20
Apr 27
t_inter[4]
May 04
May 11
t_inter[5]
May 18
May 25
t_inter[6]
Jun 01
Jun 08
t_inter[7]
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 17
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Sep 21
Sep 28
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Oct 12
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Oct 19
Oct 26
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Nov 02
Nov 09
t_inter[18]
Nov 16
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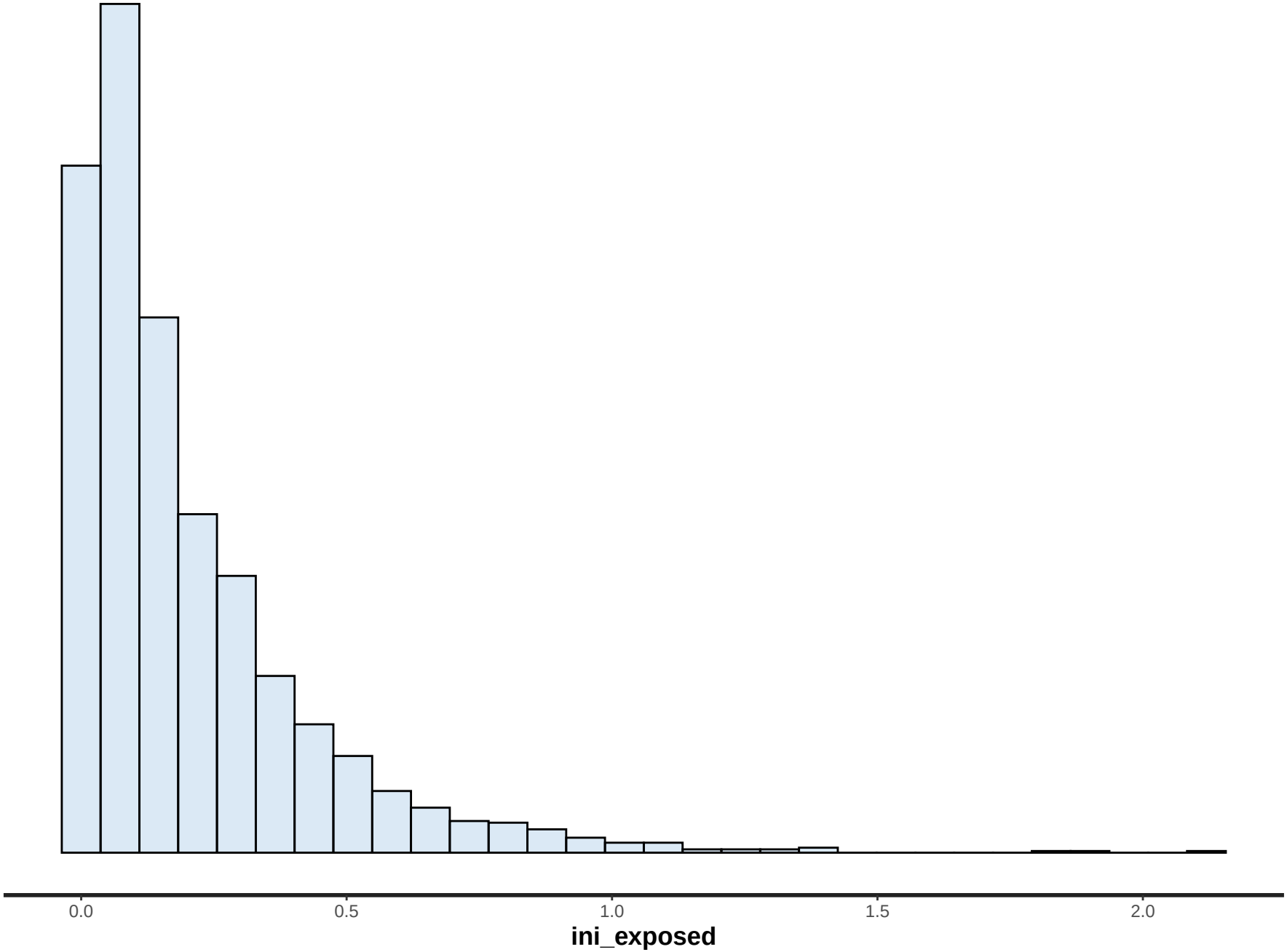
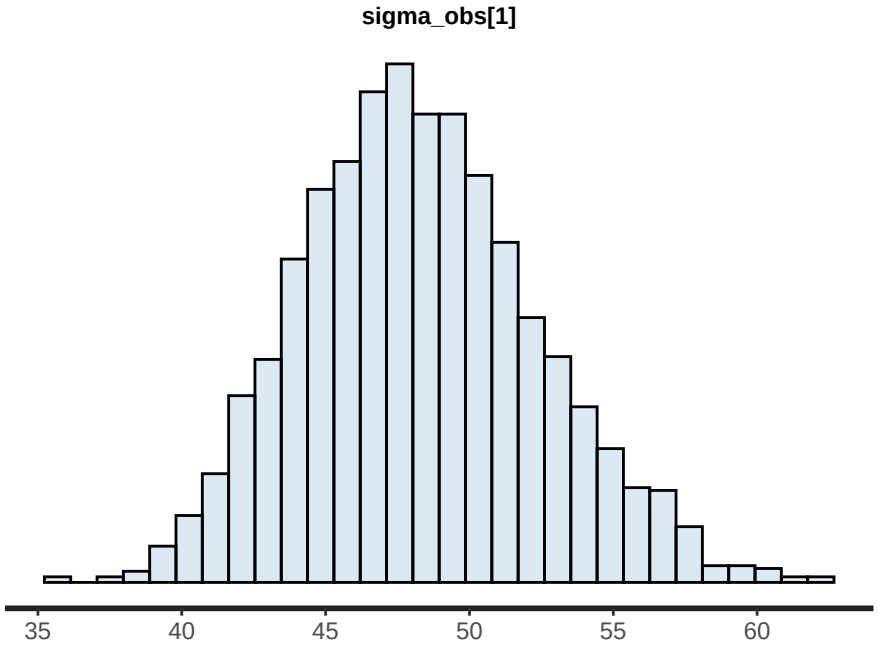
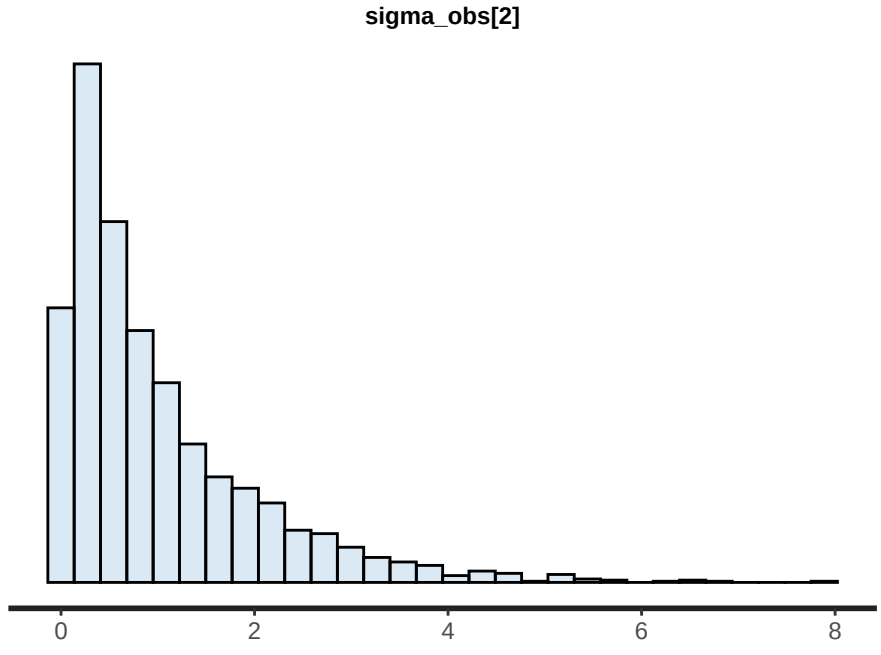
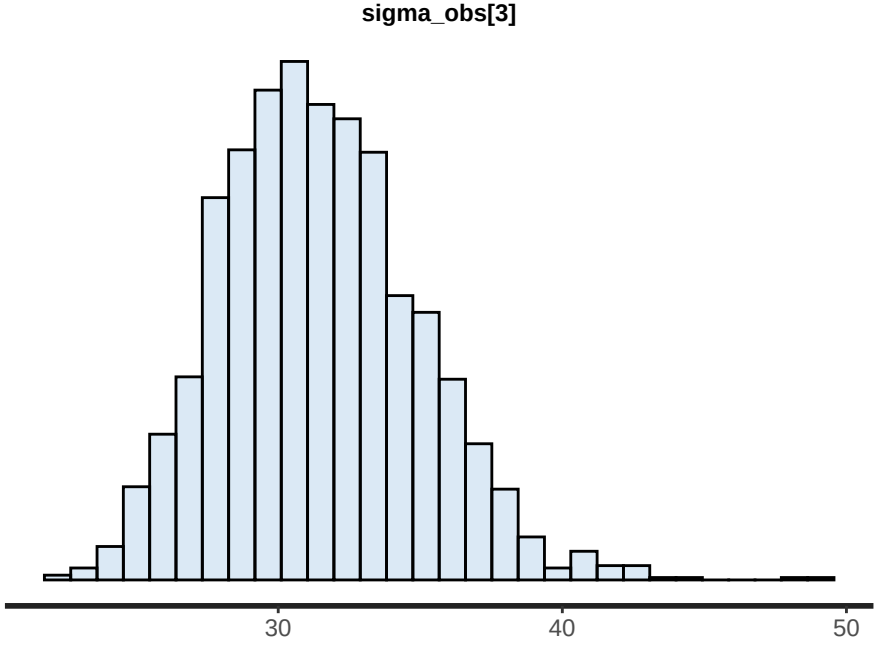
Nov 30
Dec 07
t_inter[20]
Dec 14
Dec 21
t_inter[21]
Dec 28
Jan 04


0.0
0.5
1.0
1.5
2.0
ini_exposed


sigma_obs[1]
35
40
45
50
55
60


sigma_obs[2]
0
2
4
6
8


sigma_obs[3]
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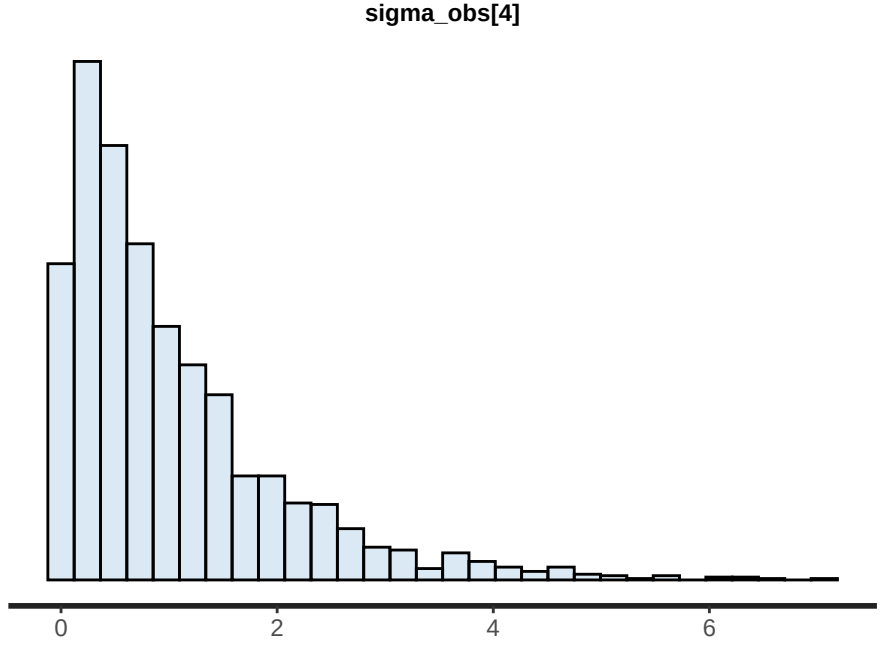
40
50


sigma_obs[4]
0
2
4
6