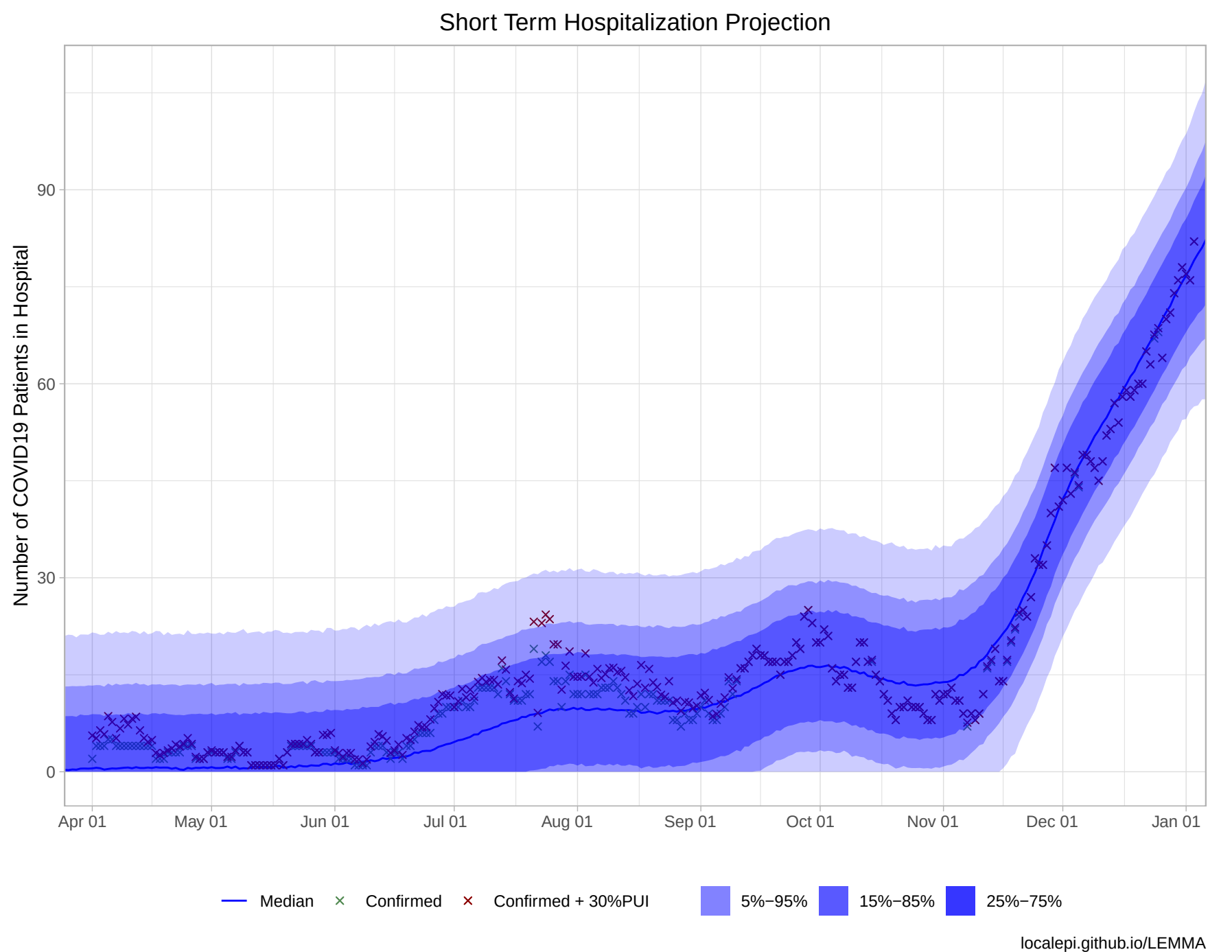
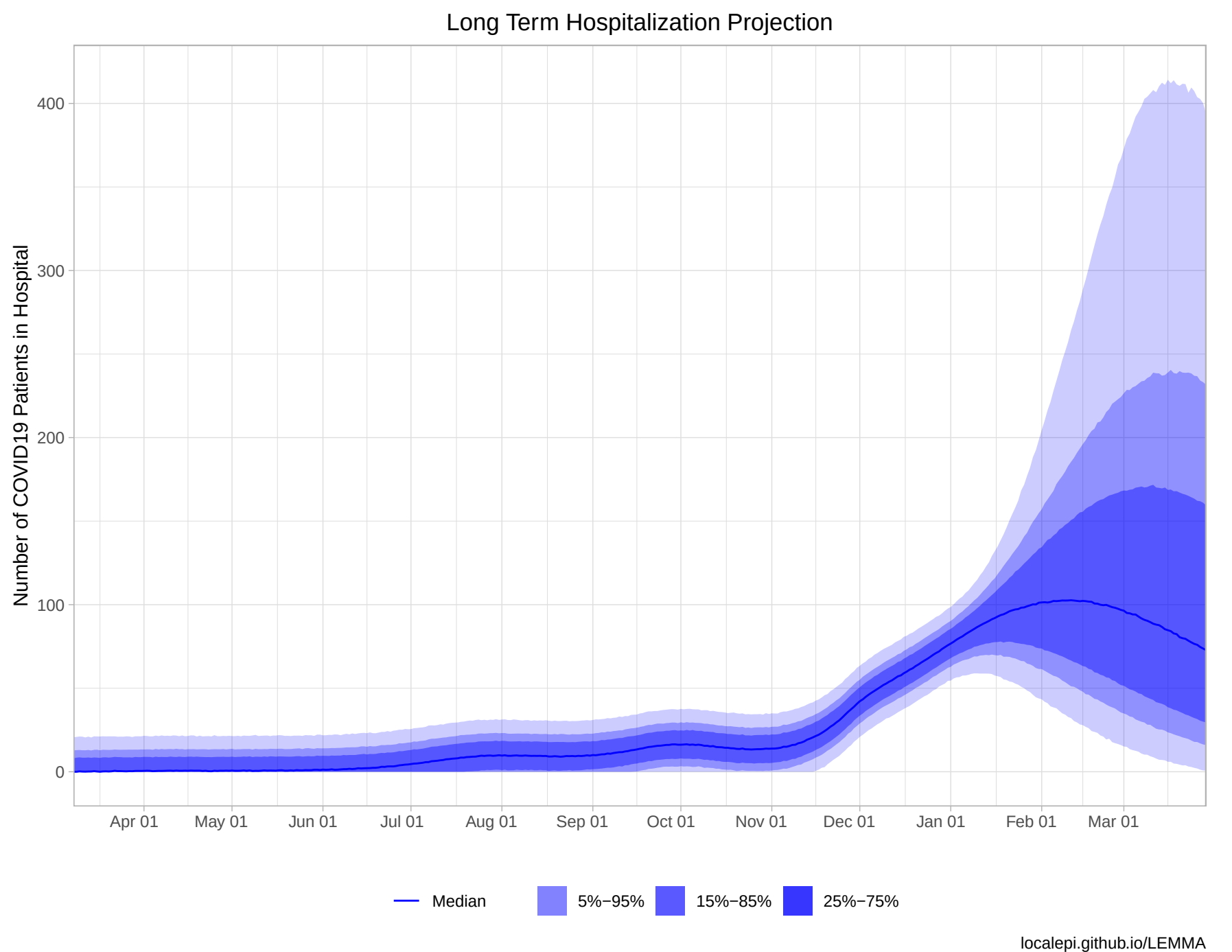
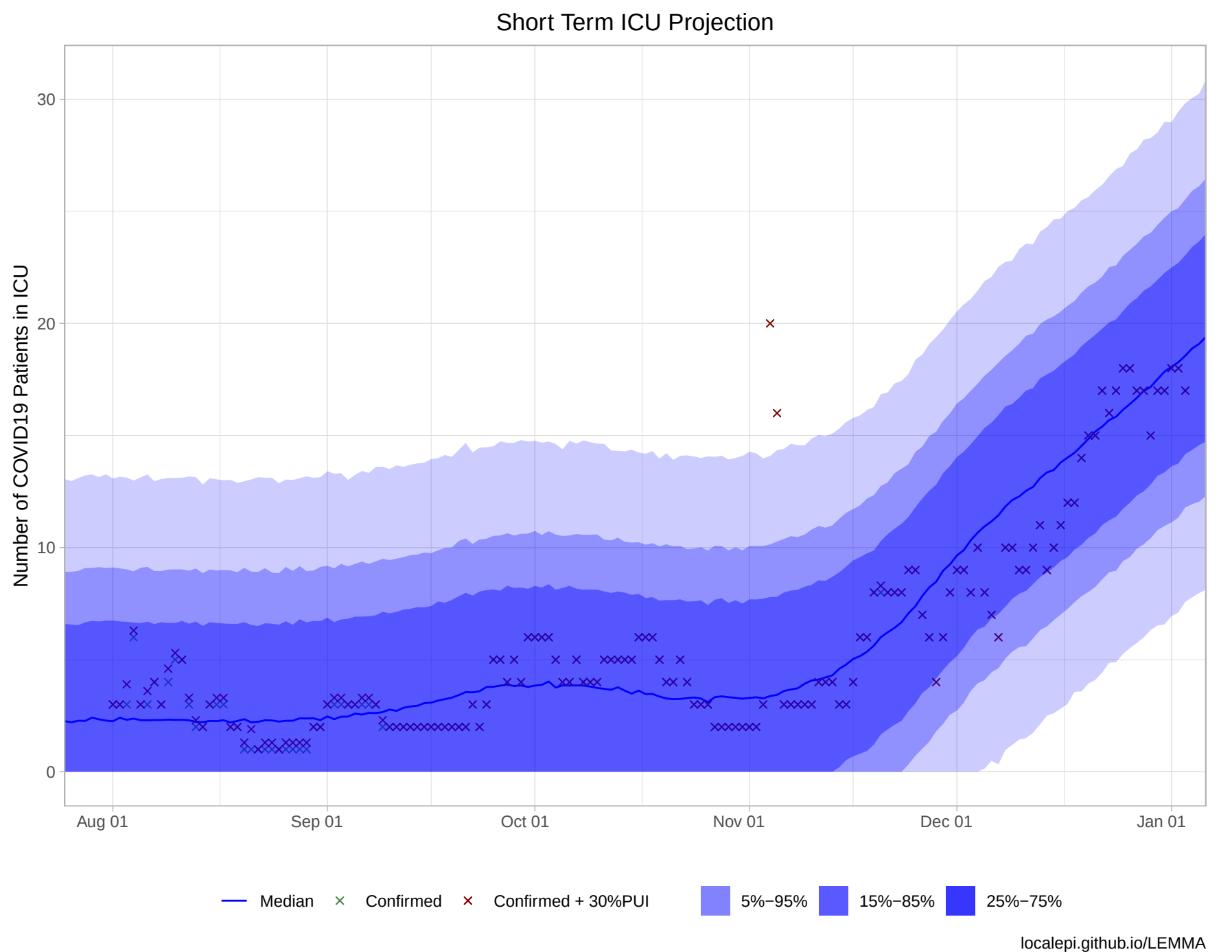
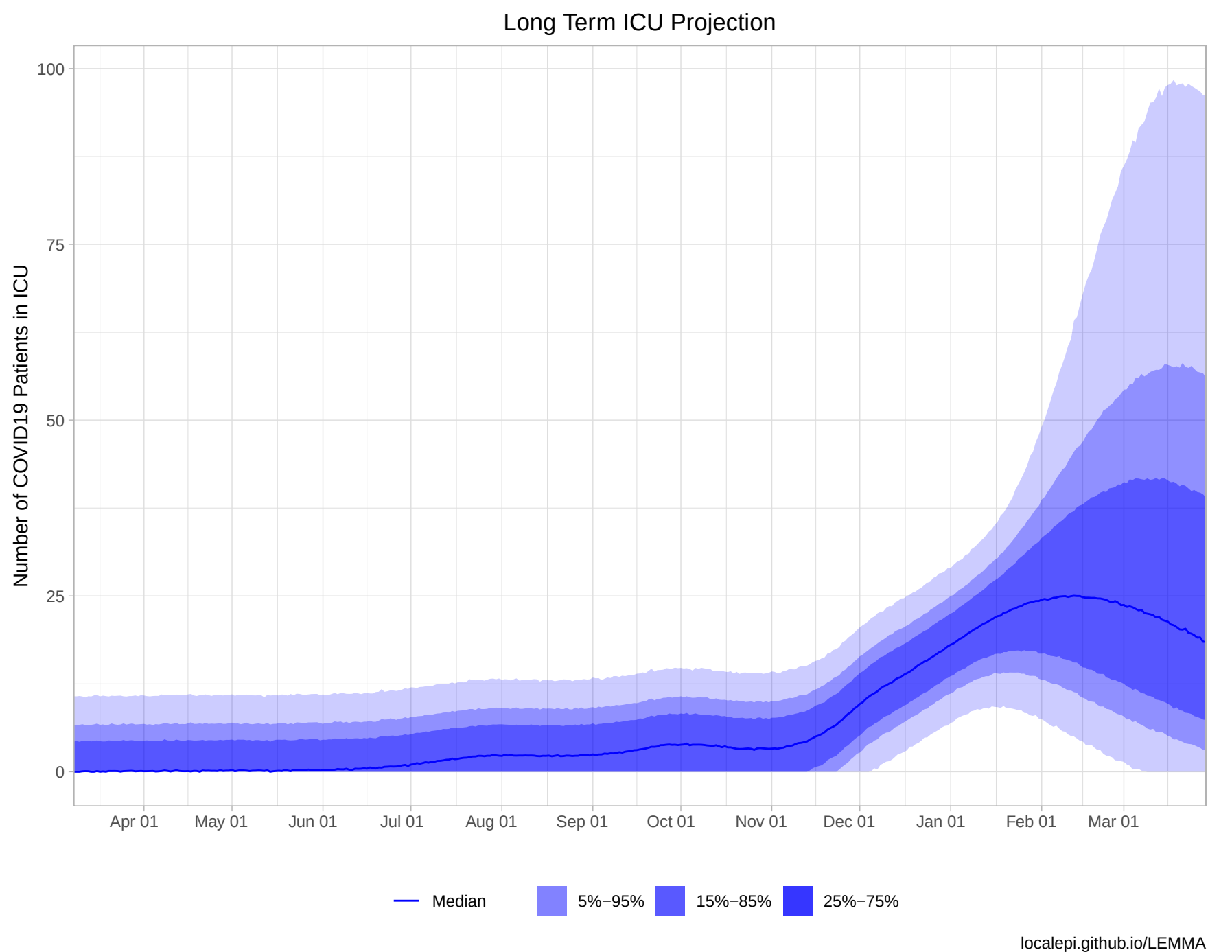
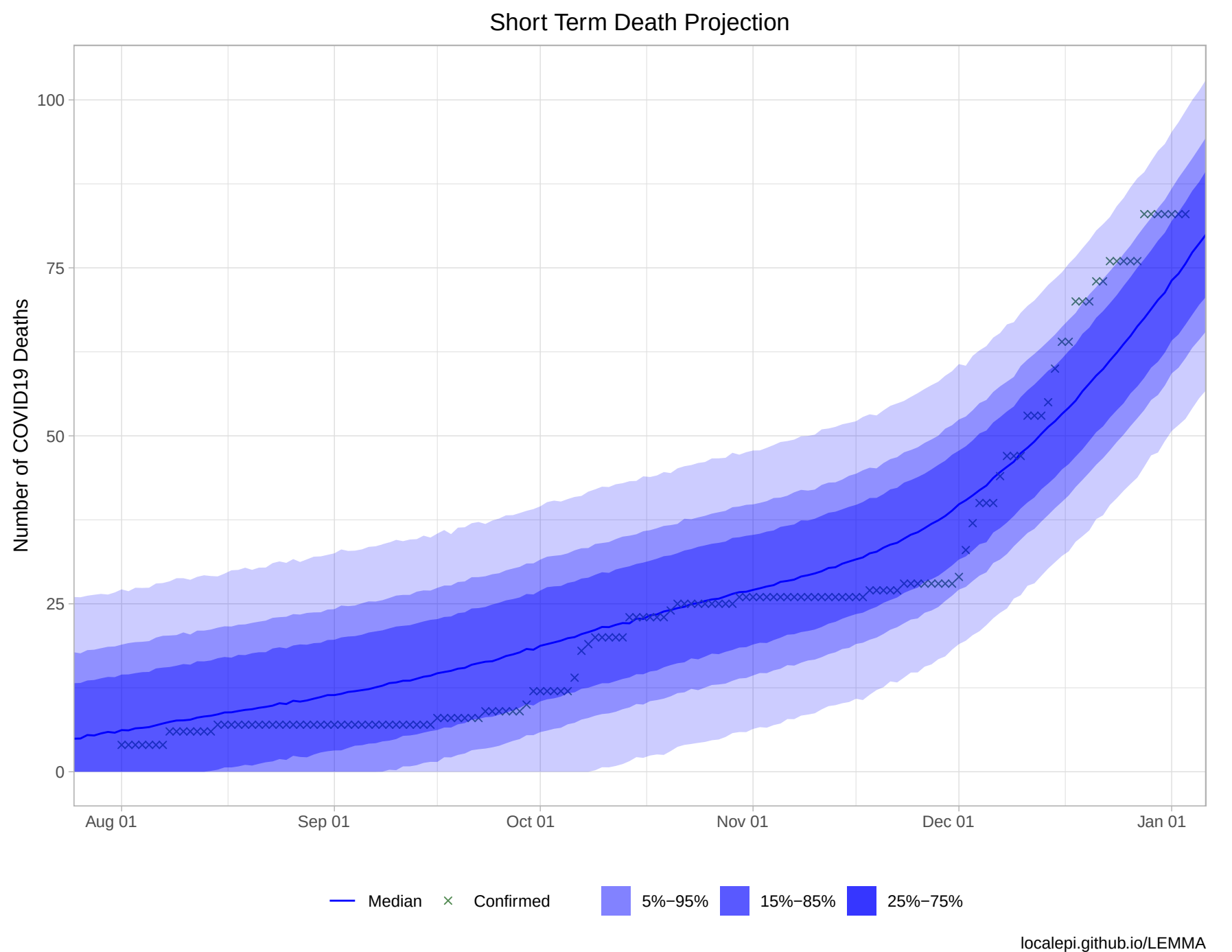
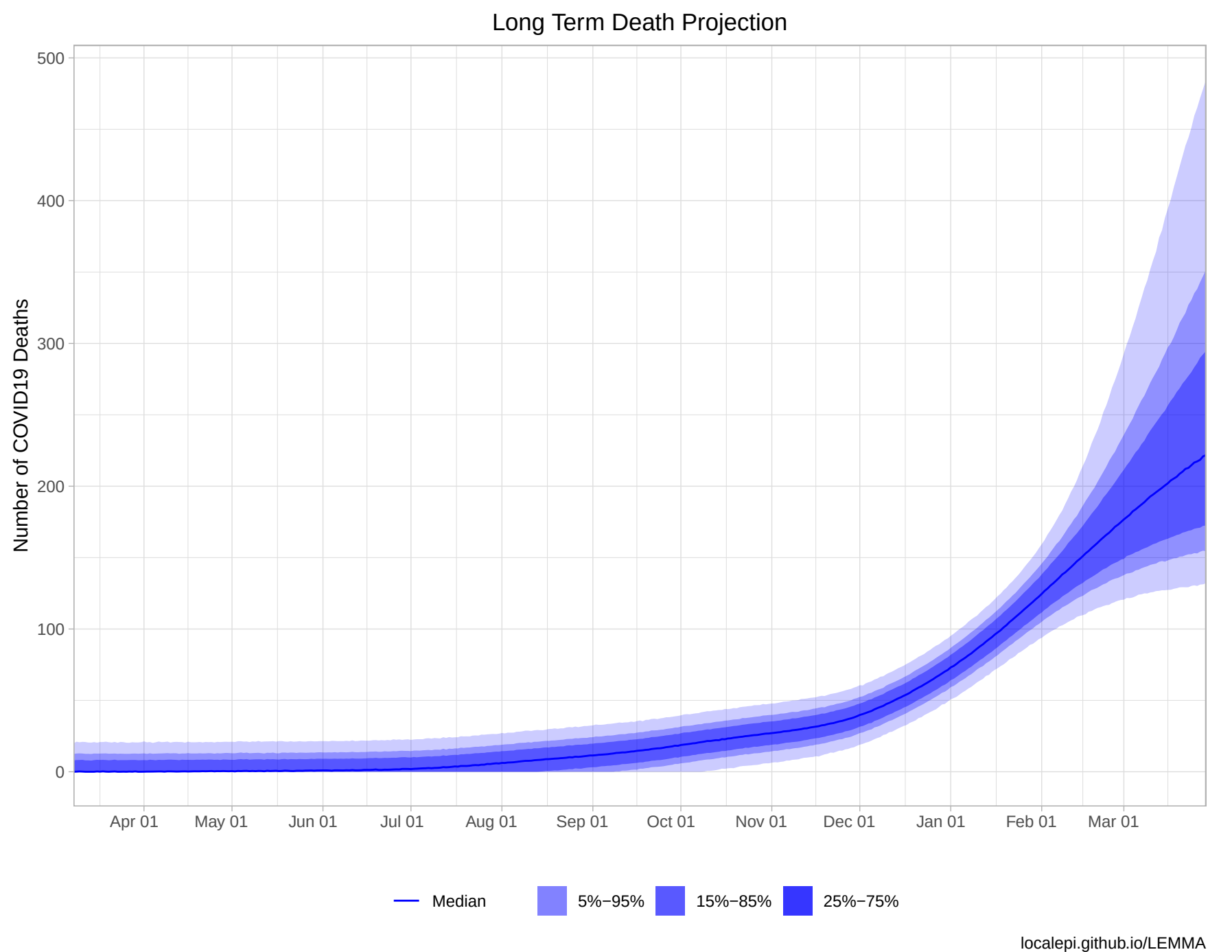

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
30
60
90
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

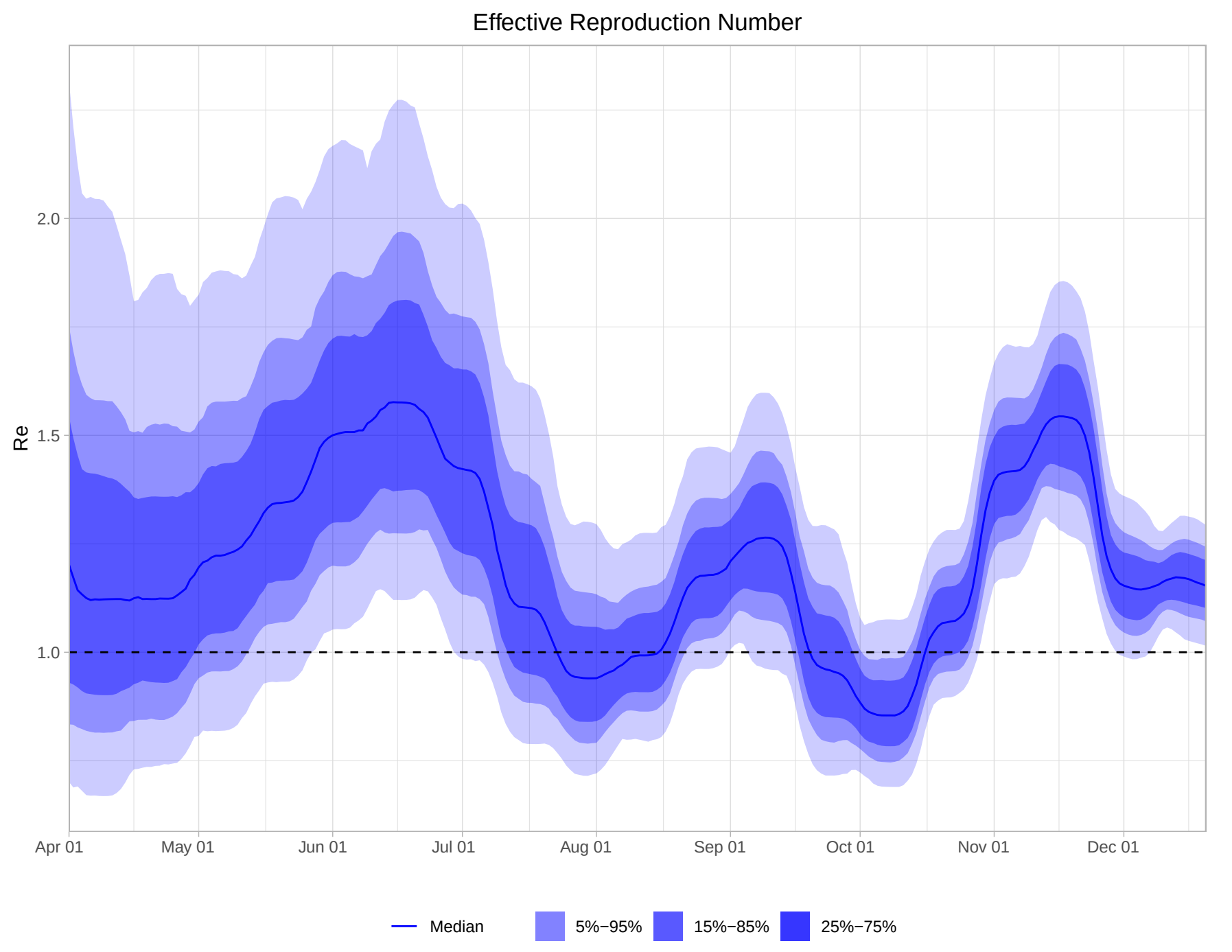

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
400
300
200
100
0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


Short Term ICU Projection
Number of COVID19 Patients in ICU
30
20
10
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
100
75
50
25
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

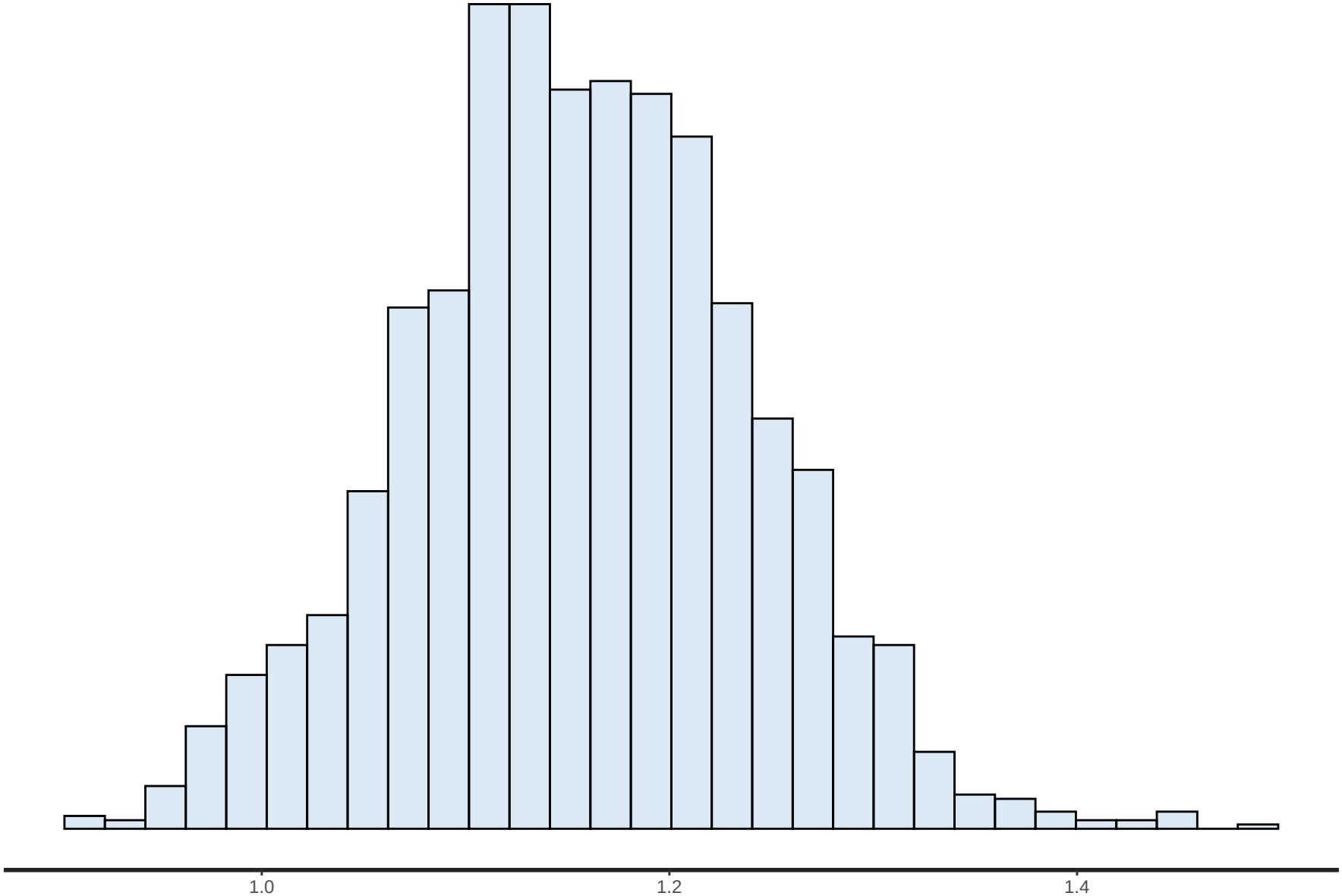

Short Term Death Projection
Number of COVID19 Deaths
100
75
50
25
0
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

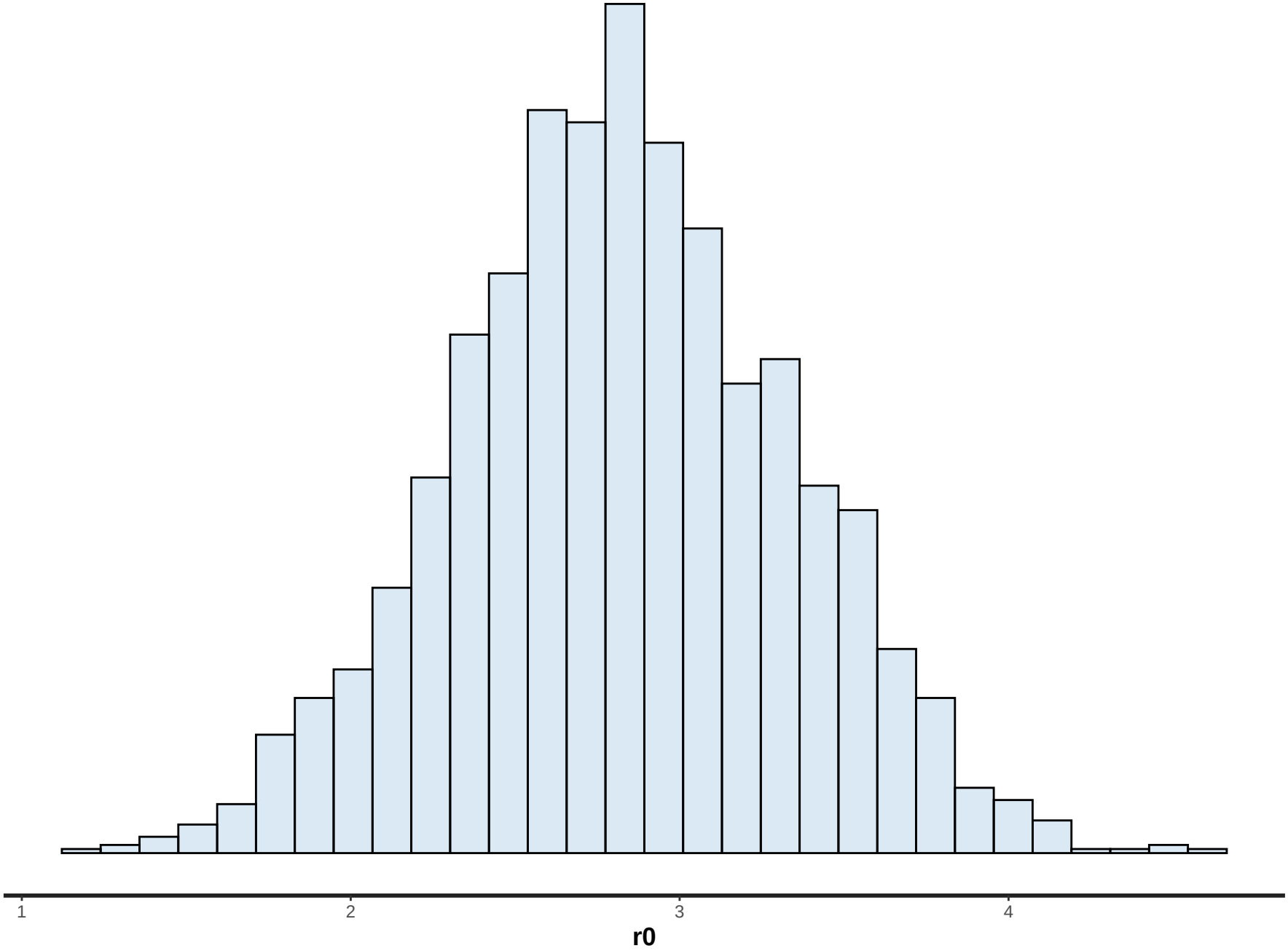

Long Term Death Projection
Number of COVID19 Deaths
500
400
300
200
100
0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

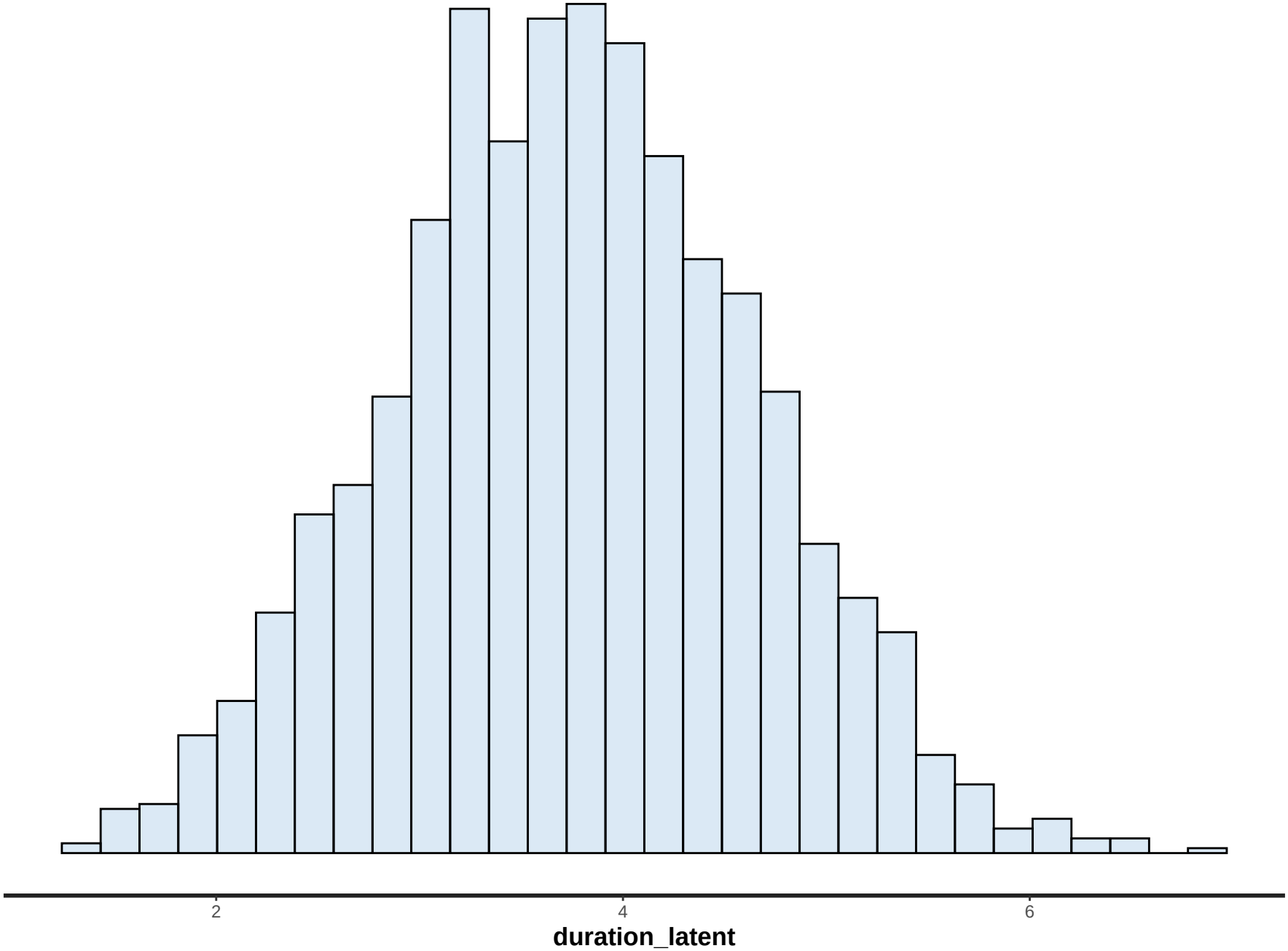

Effective Reproduction Number
Re
2.0
1.5
1.0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
5%−95%
15%−85%
25%−75%

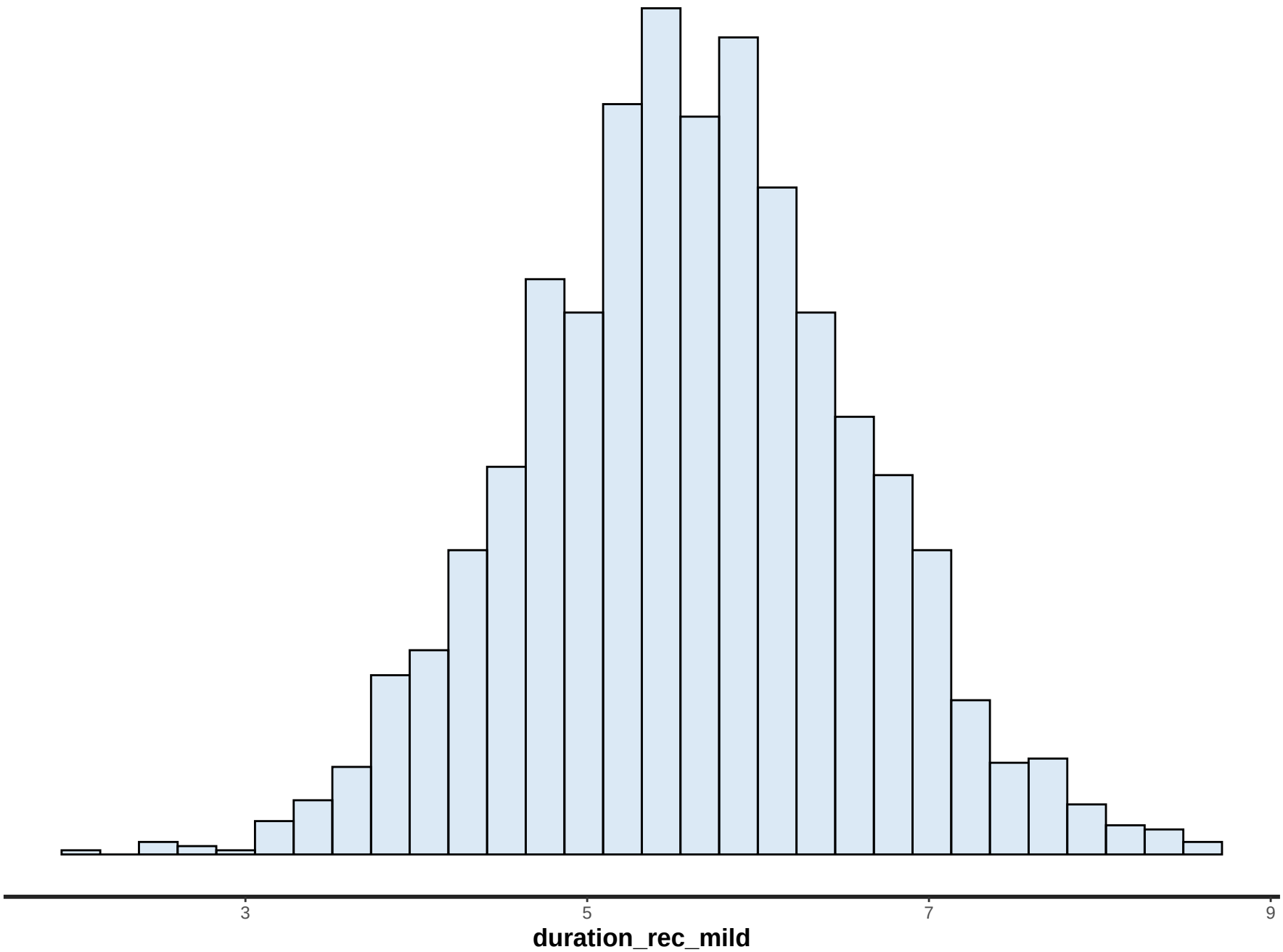
Rt as of 2020−12−20

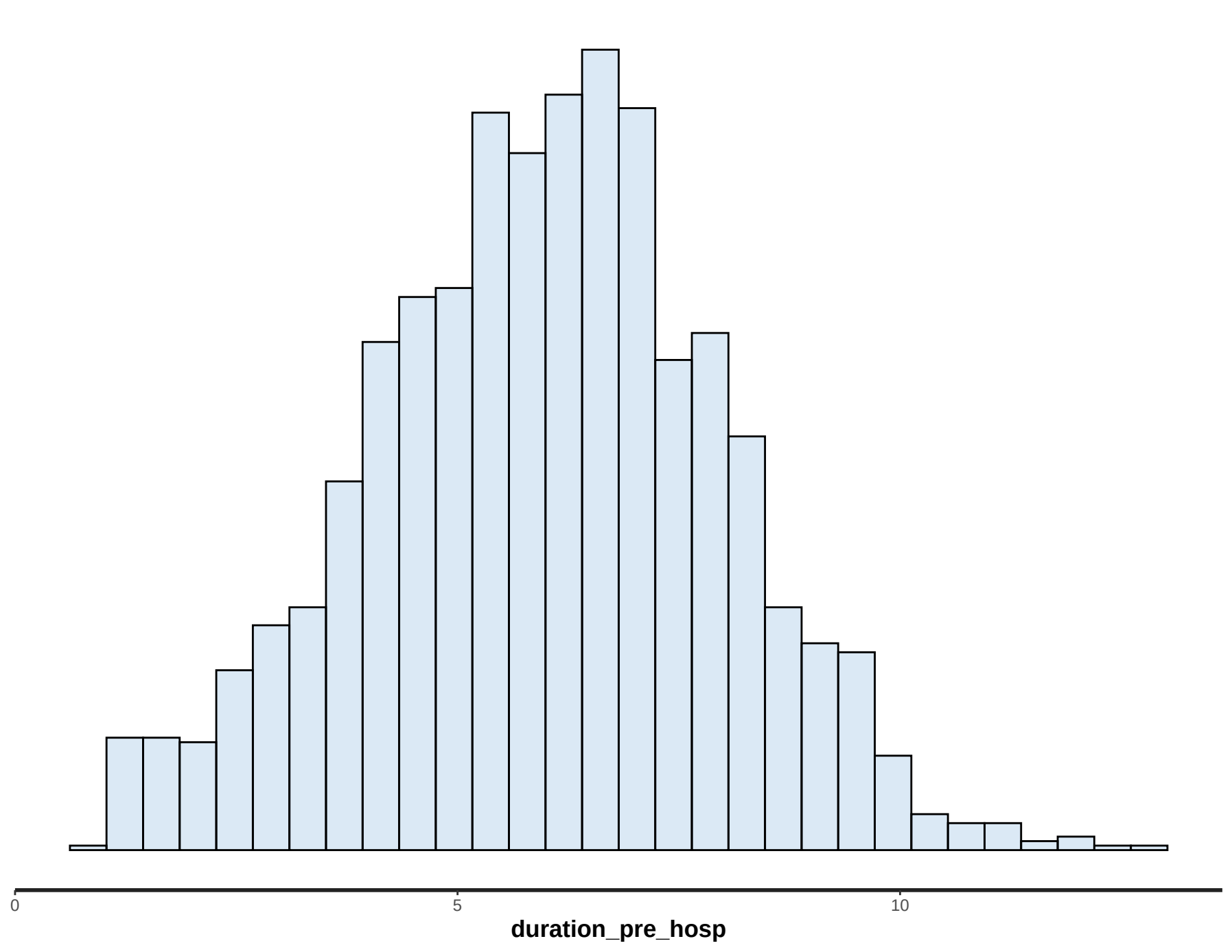
5%	10%	25%	50%	75%	90%	95%
1.01	1.05	1.10	1.15	1.21	1.26	1.29

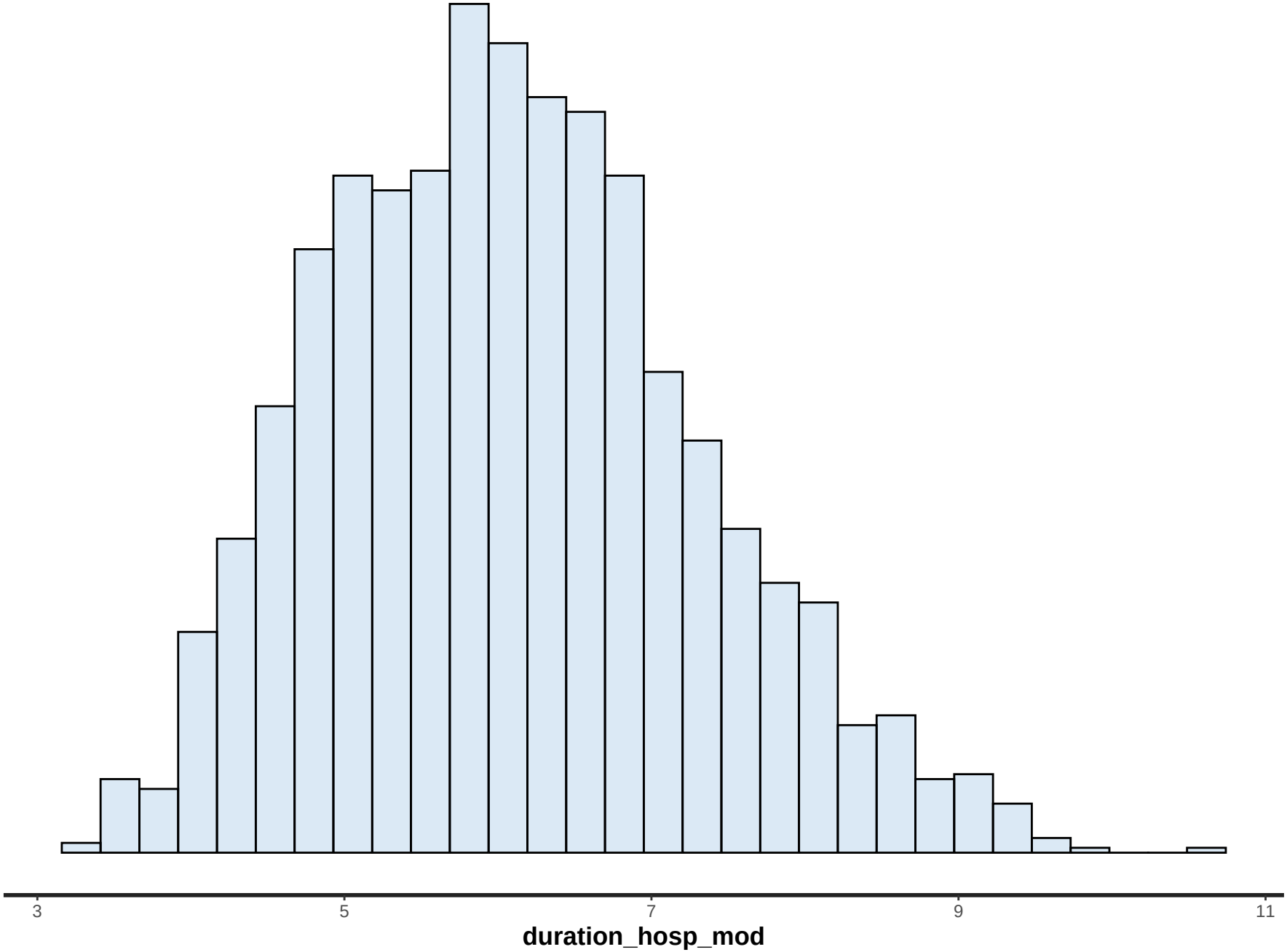


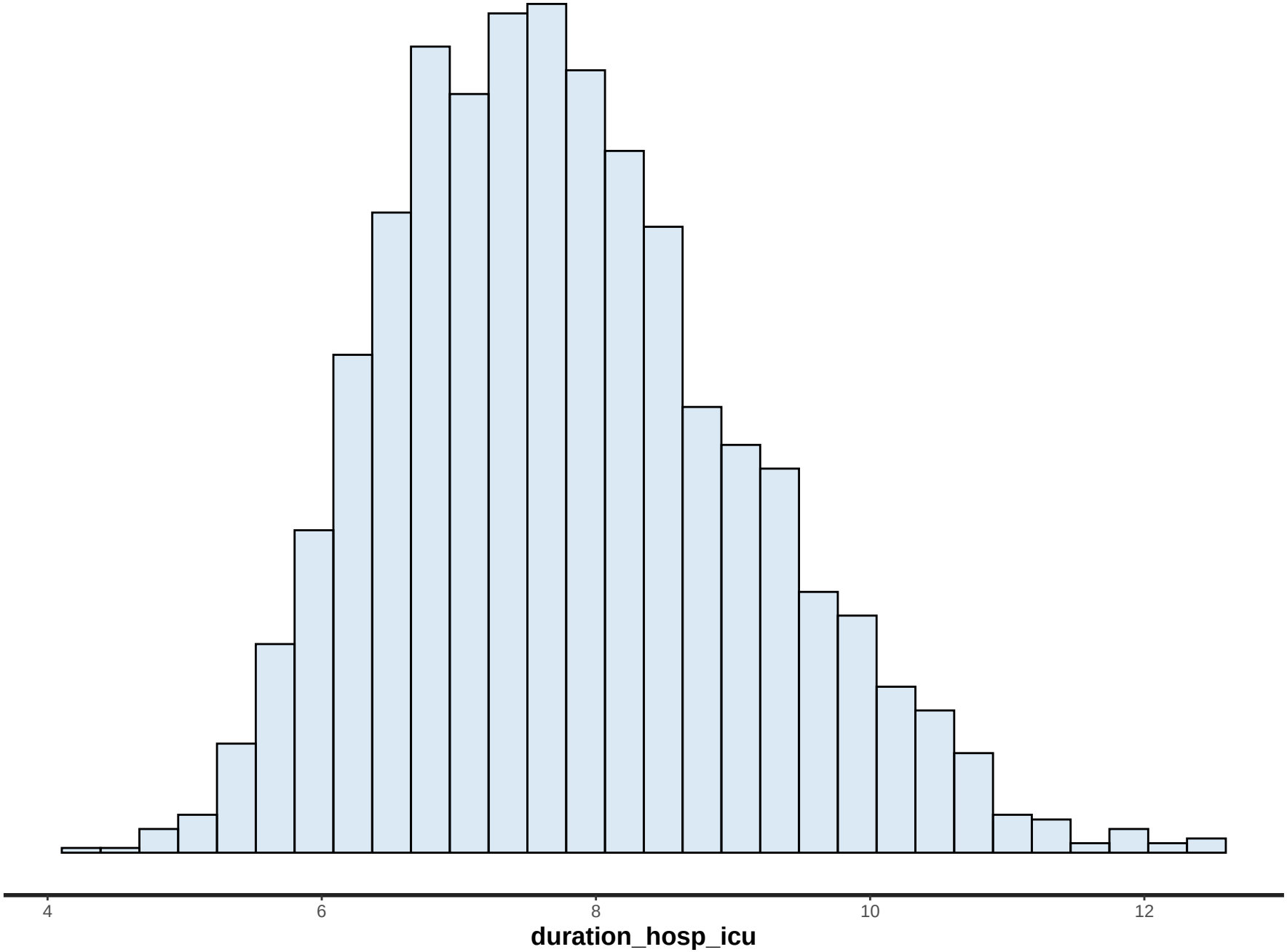

1
2
3
4
r0

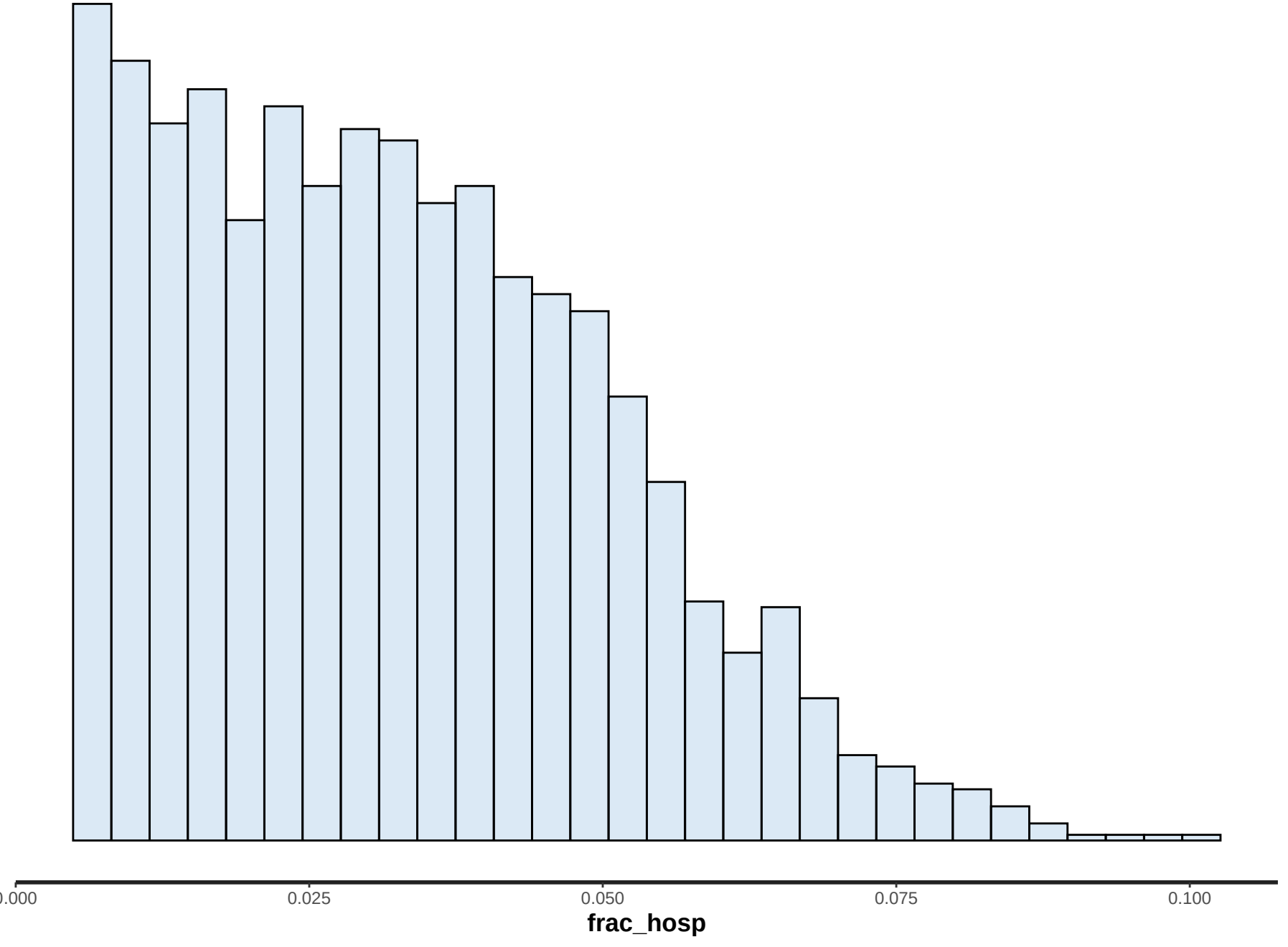

2
4
6
duration_latent


3
5
7
9
duration_rec_mild


0
5
10
duration_pre_hosp


3
5
7
9
11
duration_hosp_mod


4
6
8
10
12
duration_hosp_icu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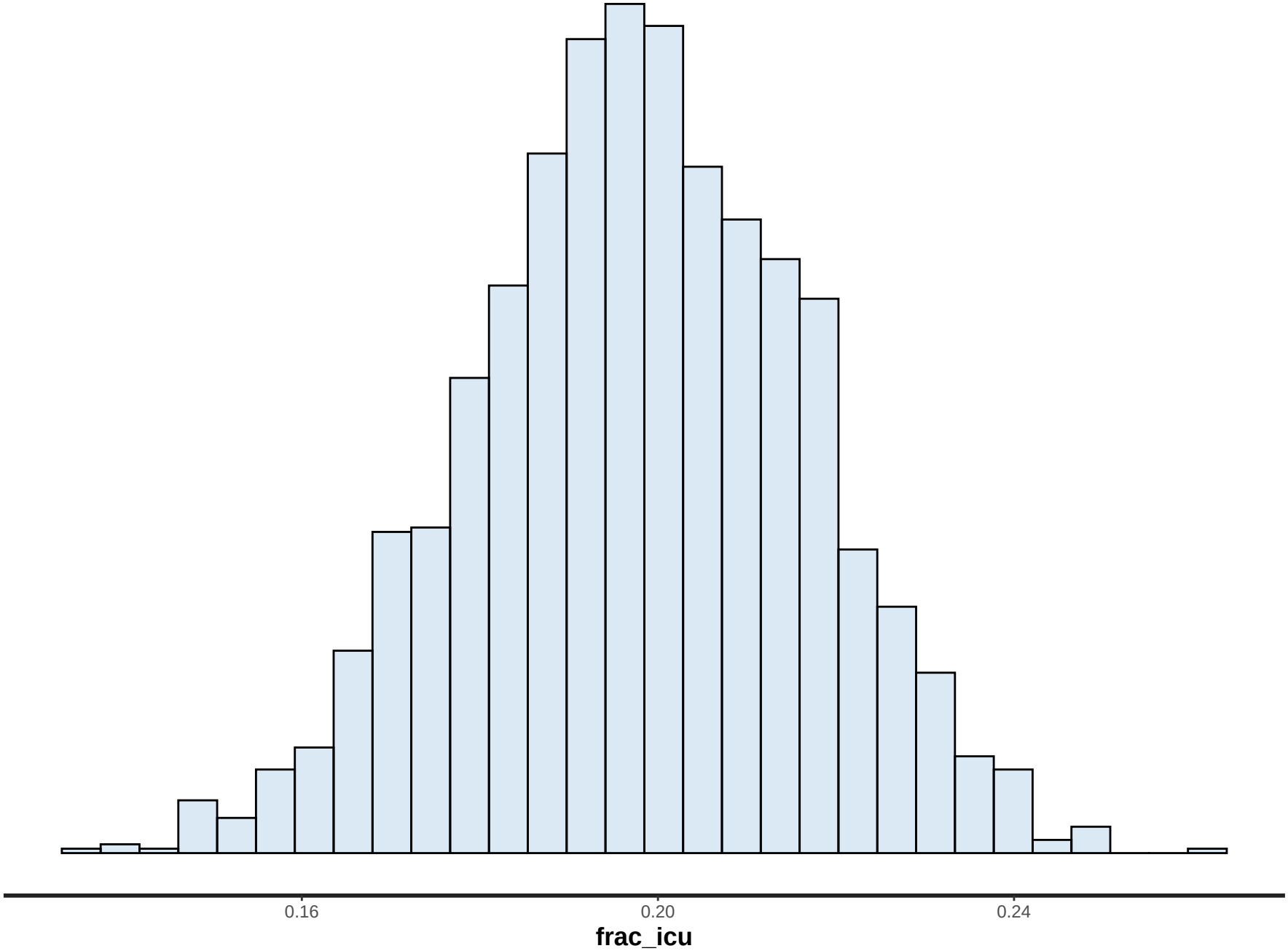
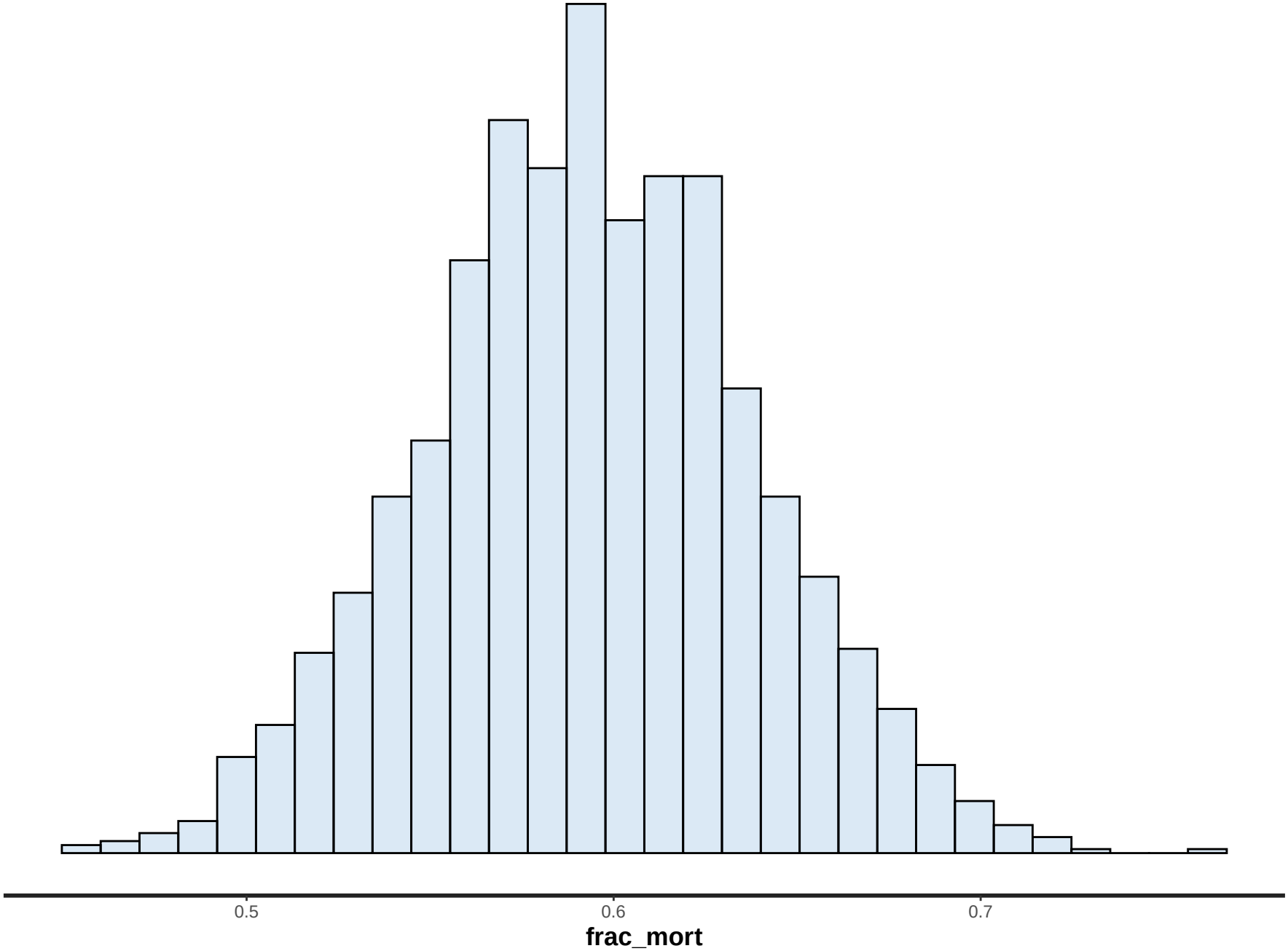
0.025
0.050
0.075
0.100
frac_hosp


0.16
0.20
0.24
frac_icu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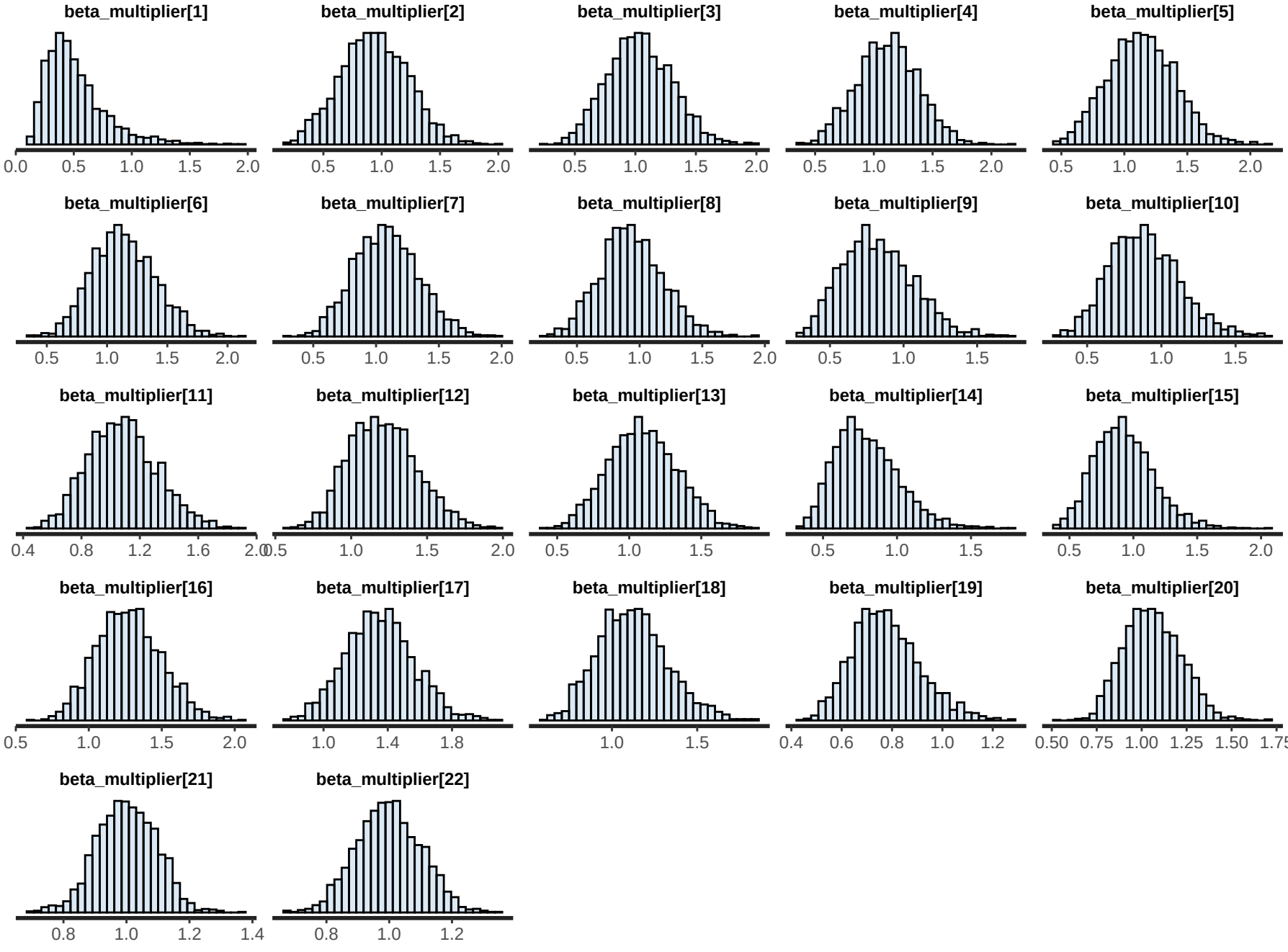
0.6
0.7
frac_mort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beta_multiplier[2]
beta_multiplier[3]
beta_multiplier[4]
beta_multiplier[5]
beta_multiplier[6]
beta_multiplier[7]
beta_multiplier[8]
beta_multiplier[9]
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beta_multiplier[11]
beta_multiplier[12]
beta_multiplier[13]
beta_multiplier[14]
beta_multiplier[15]
beta_multiplier[16]
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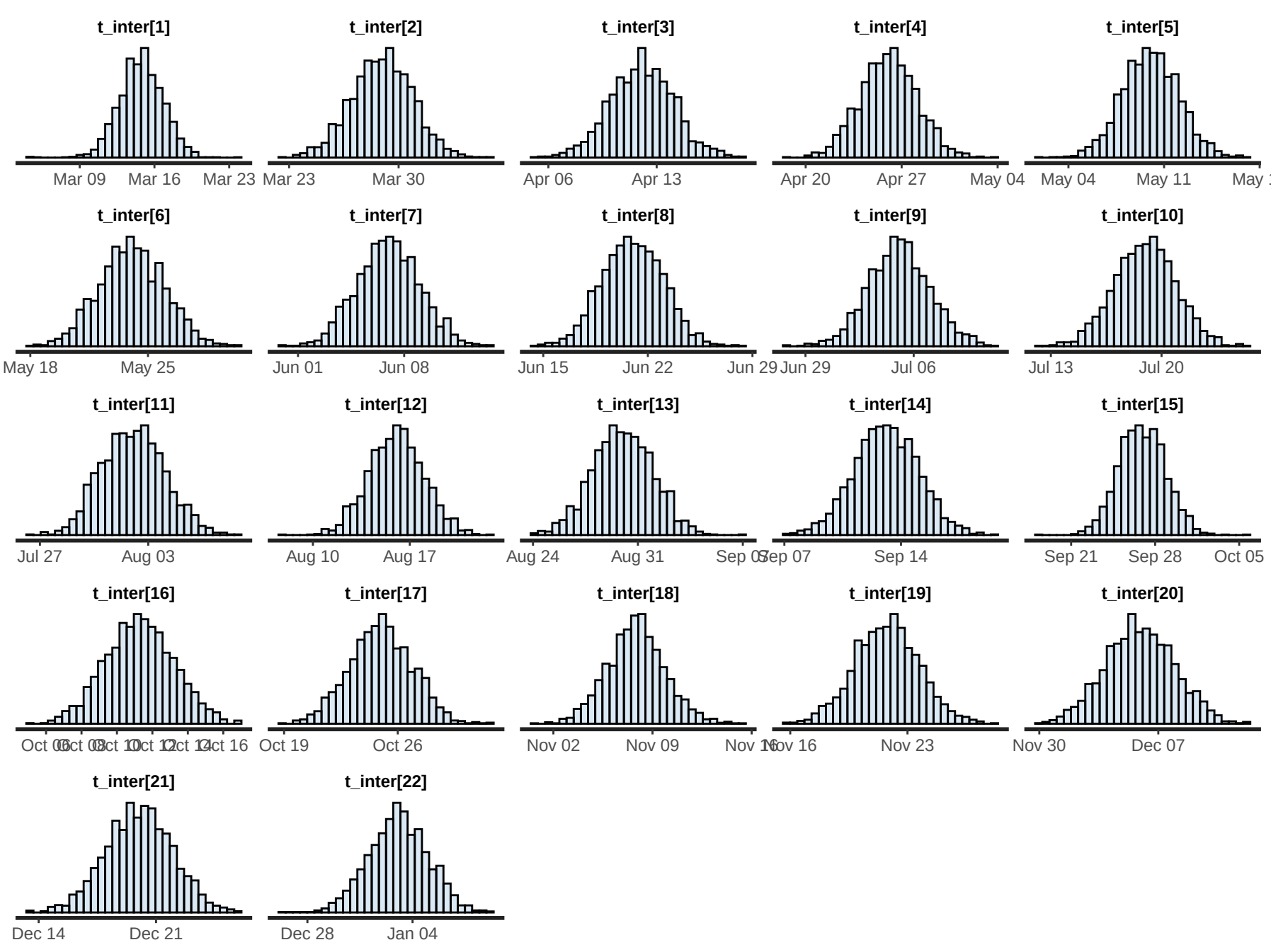
beta_multiplier[18]
beta_multiplier[19]
beta_multiplier[20]
beta_multiplier[21]
beta_multiplier[22]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Mar 09
Mar 16
Mar 23
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Mar 23
Mar 30
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Apr 06
Apr 13
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Apr 20
Apr 27
May 04
t_inter[5]
May 04
May 11
t_inter[6]
May 18
May 25
t_inter[7]
Jun 01
Jun 08
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Jun 15
Jun 22
Jun 29
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Jul 06
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Jul 13
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Nov 09
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Nov 23
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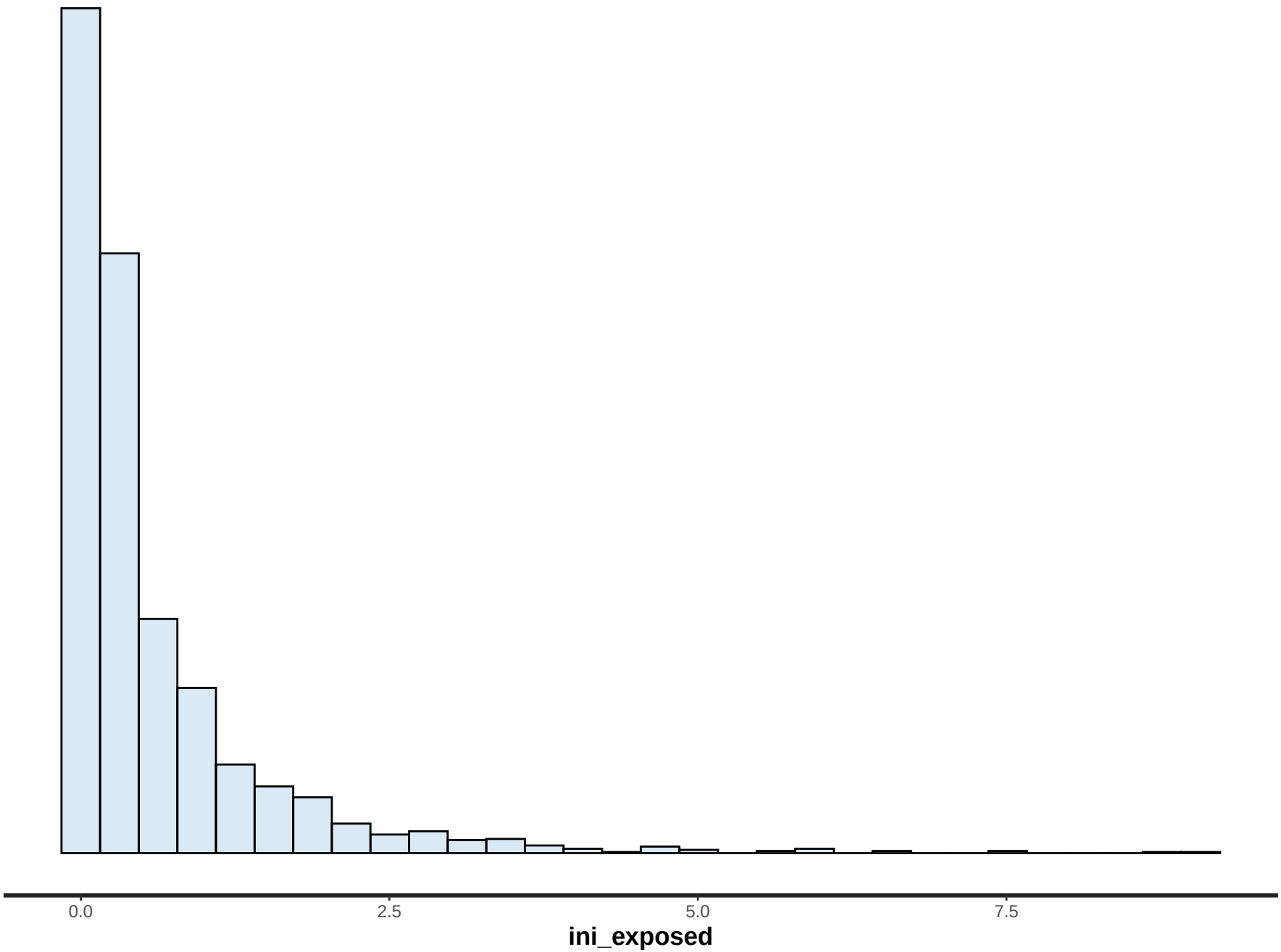
Nov 30
Dec 07
t_inter[21]
Dec 14
Dec 21
t_inter[22]
Dec 28
Jan 04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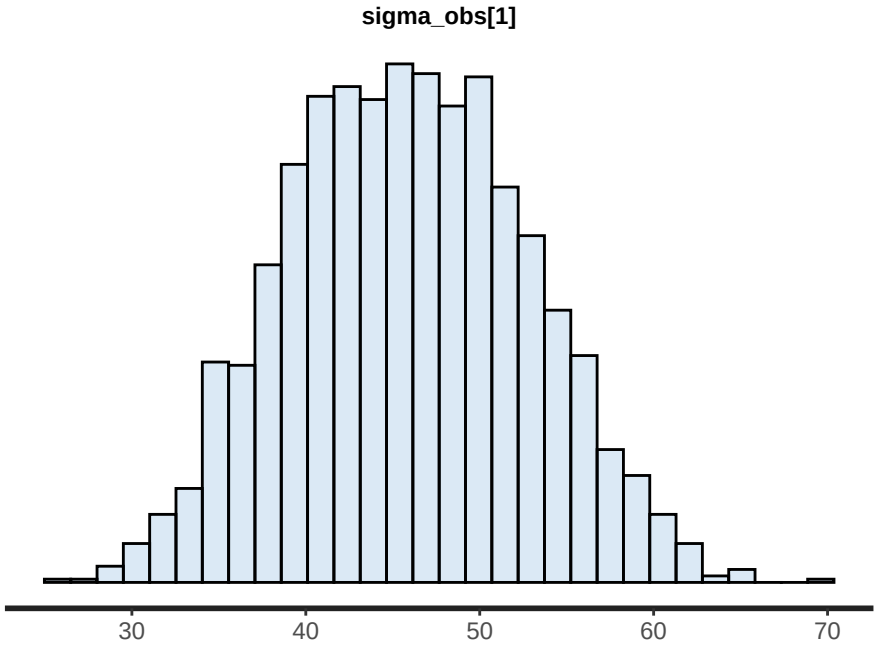
2.5
5.0
7.5
ini_exposed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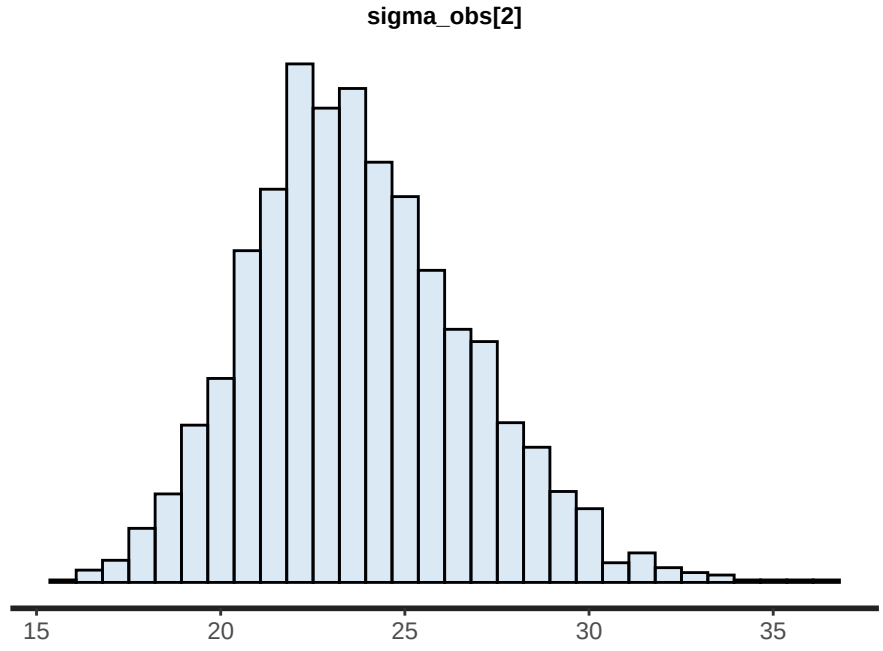
40
50
60
70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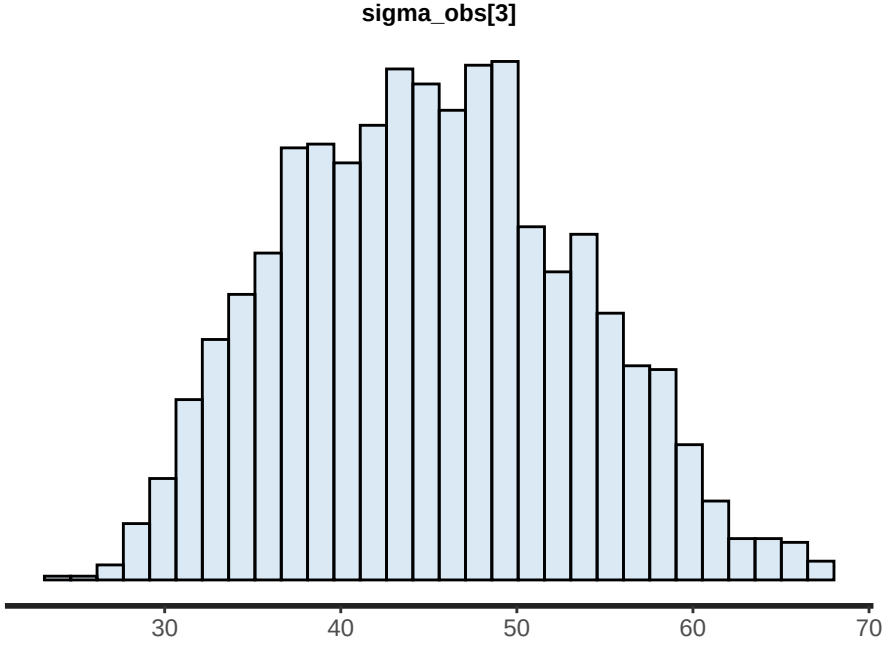
20
25
30
35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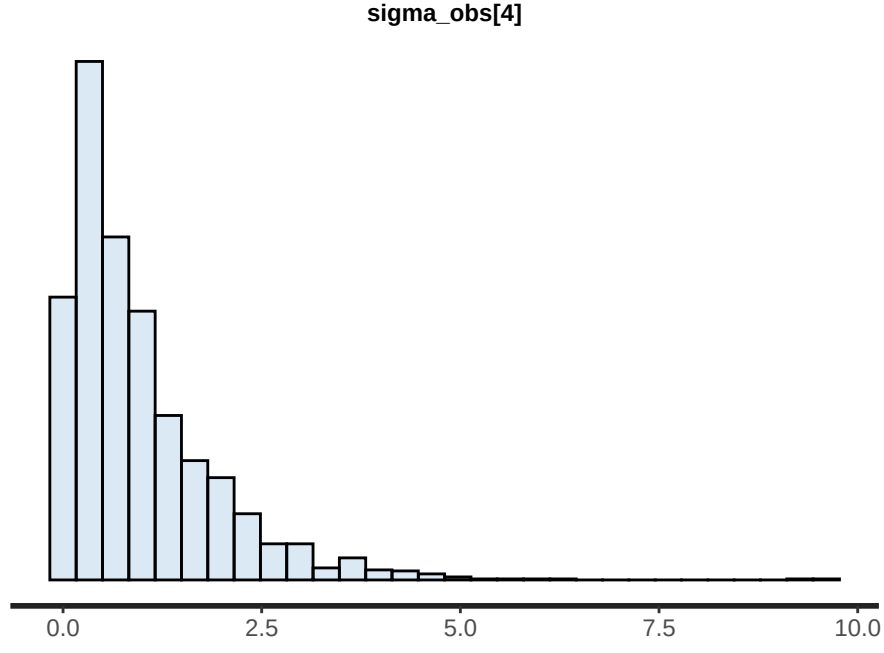
sigma_obs[4]
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2.5
5.0
7.5
10.0