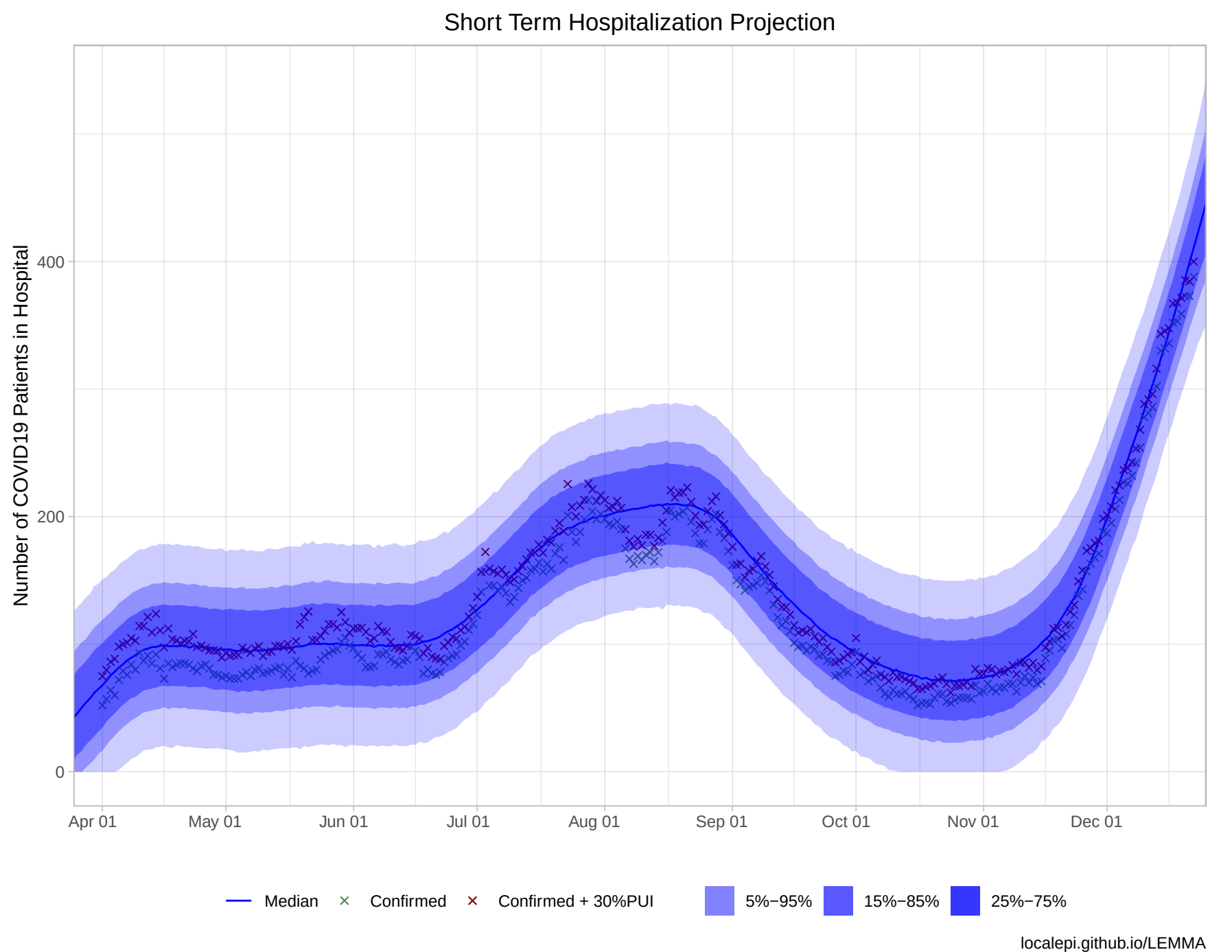
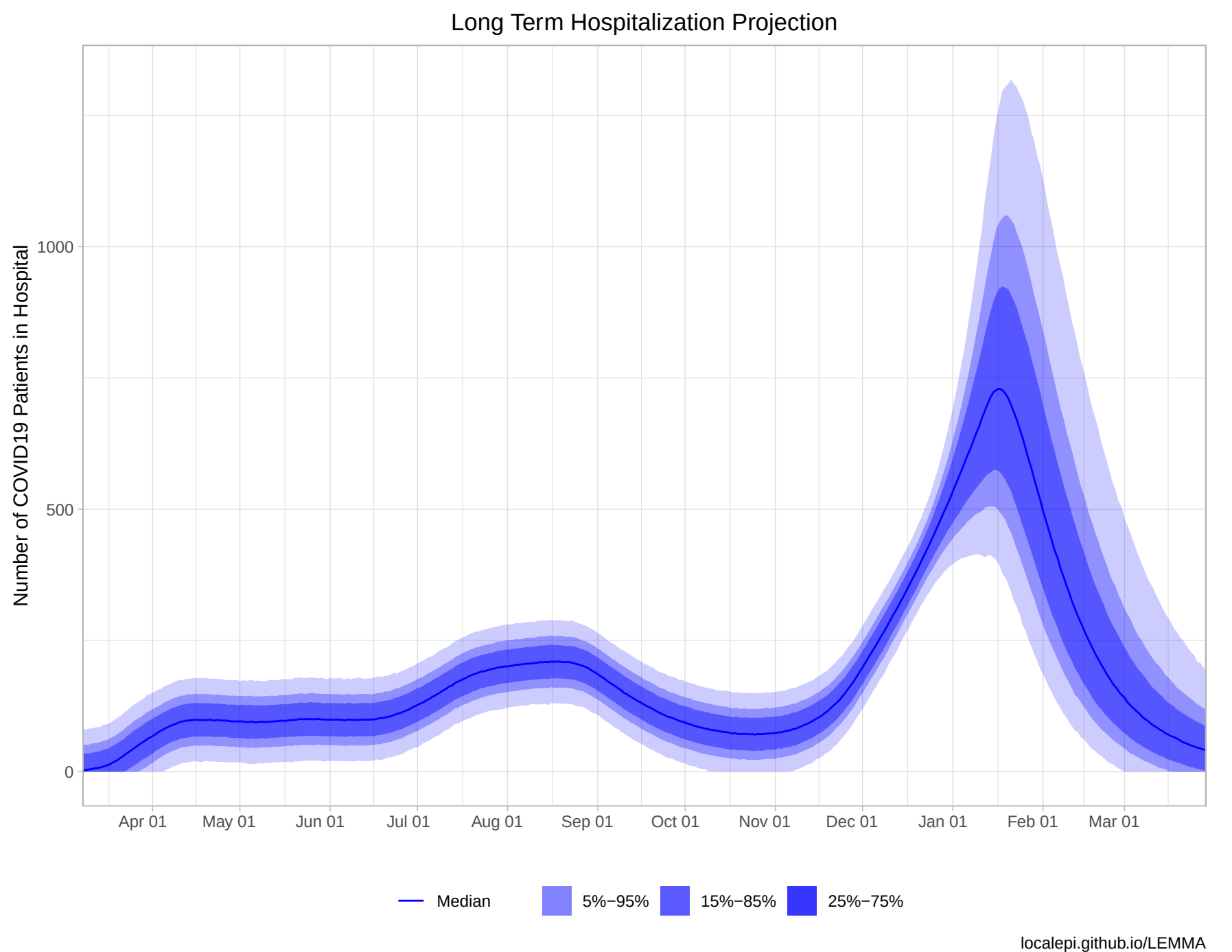
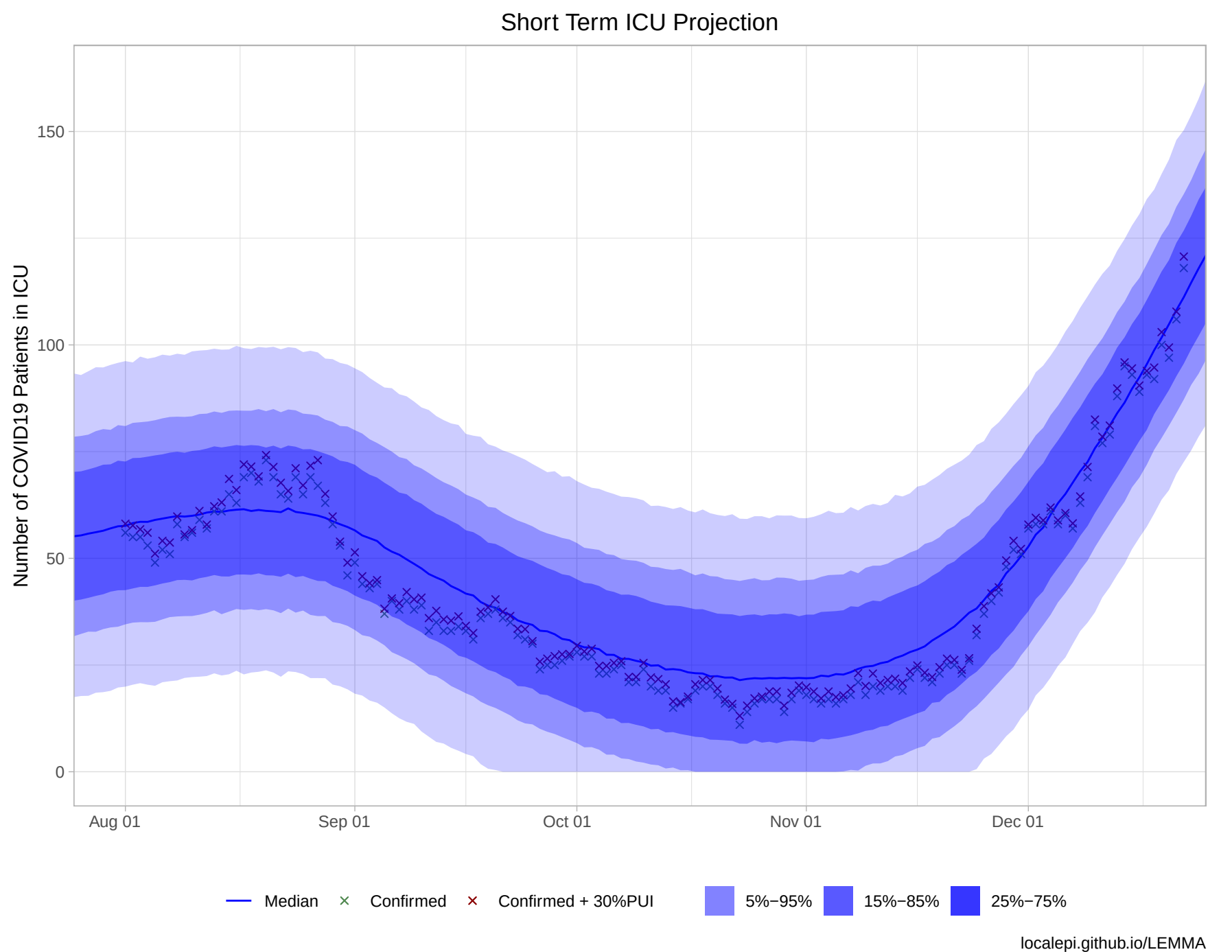
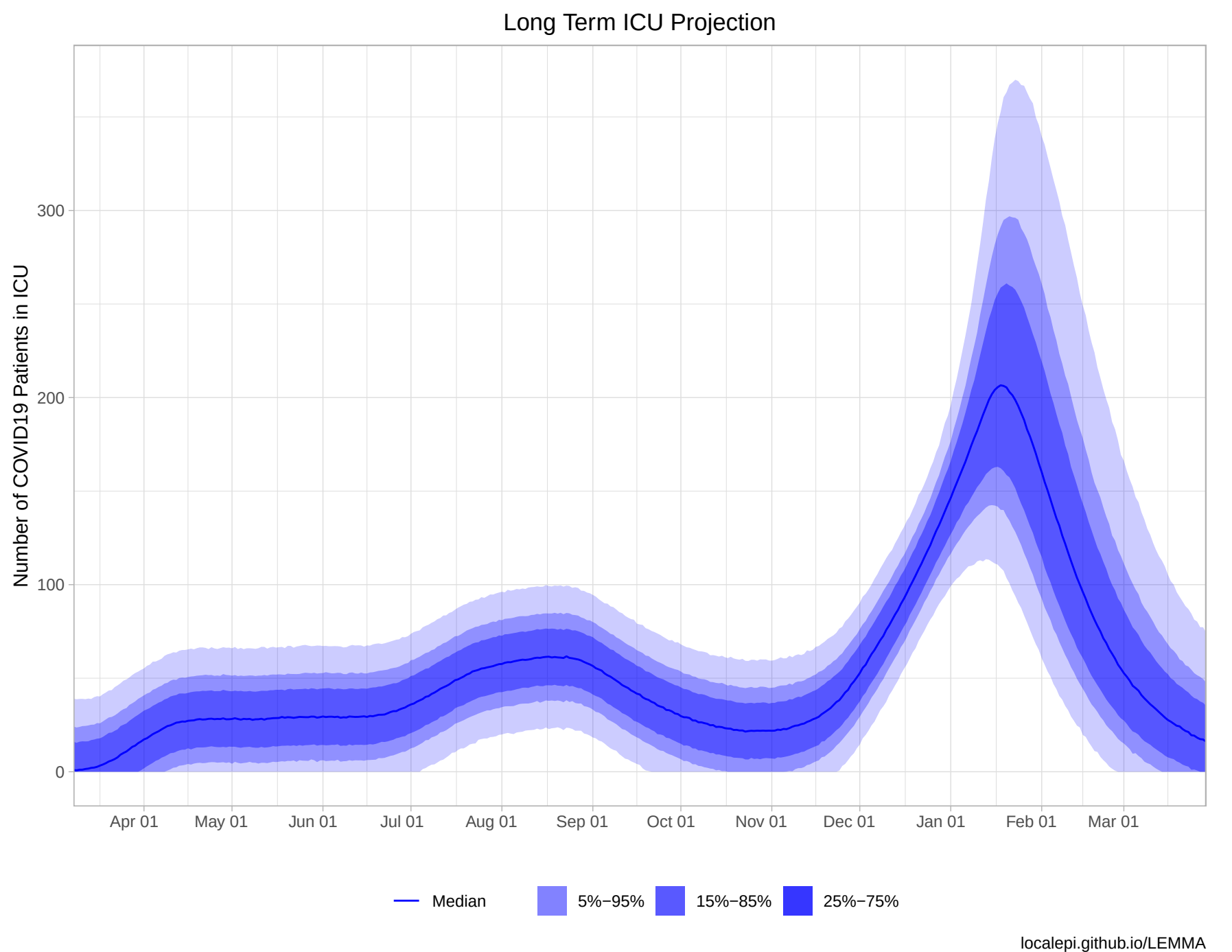
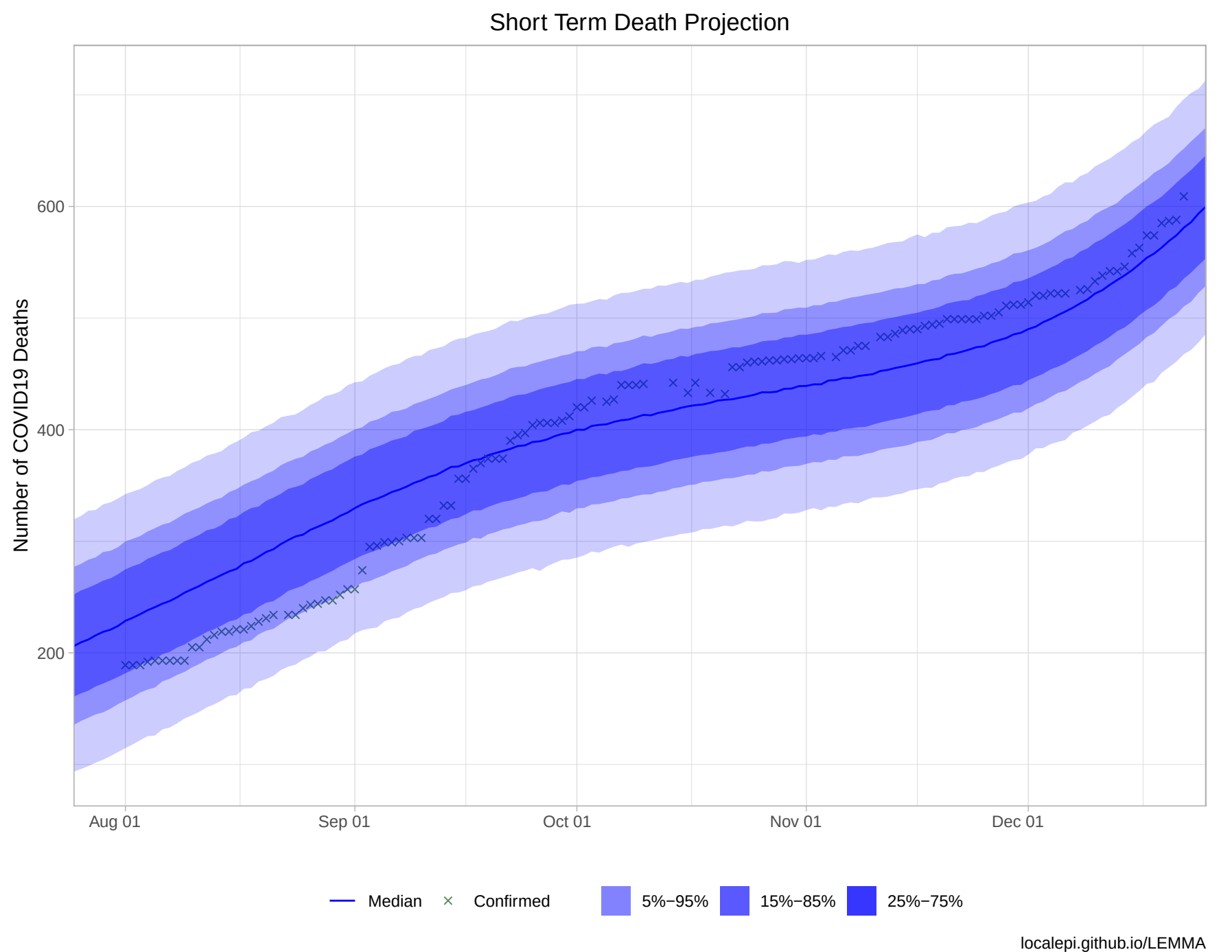
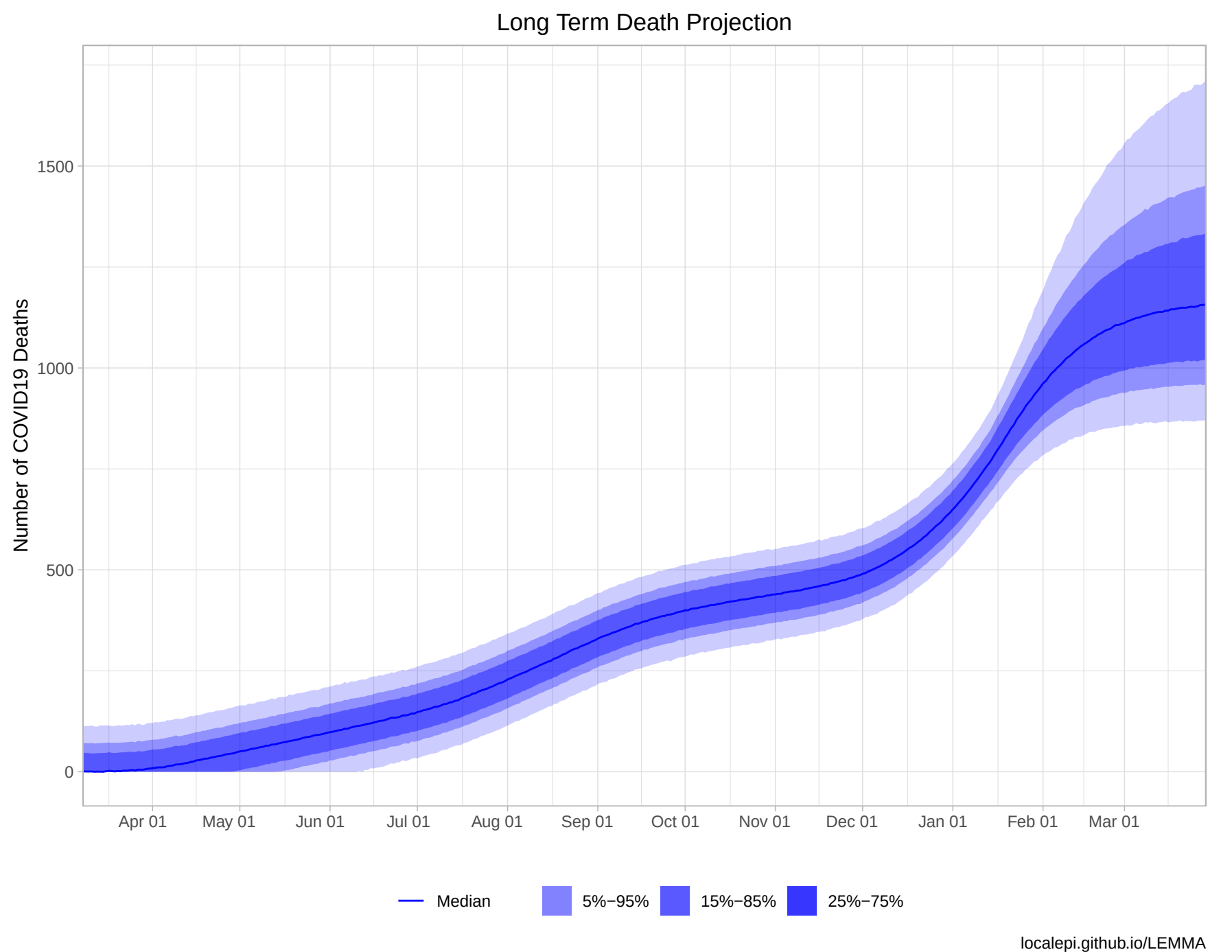

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
400
200
0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

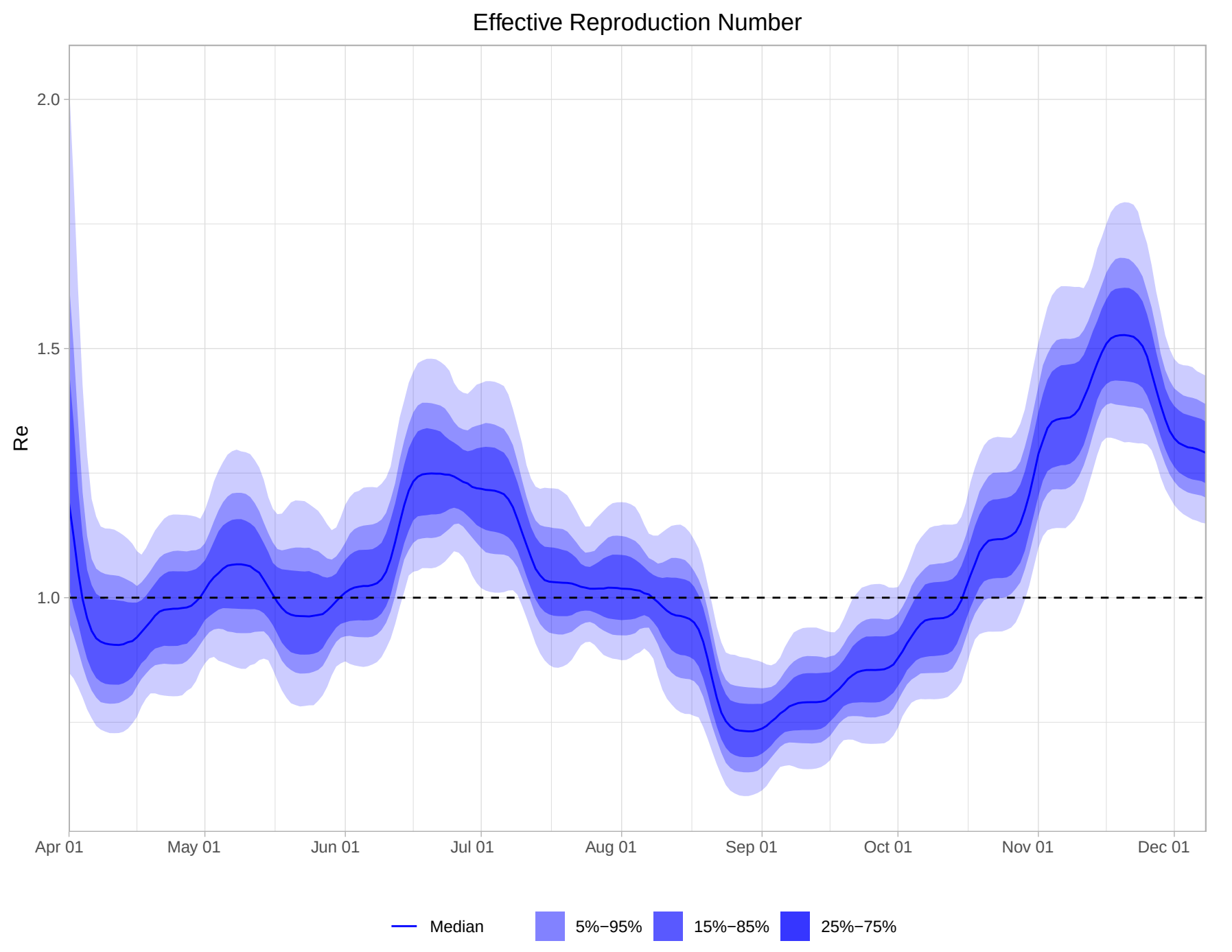

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
1000
500
0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


Short Term ICU Projection
Number of COVID19 Patients in ICU
150
100
50
0
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
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

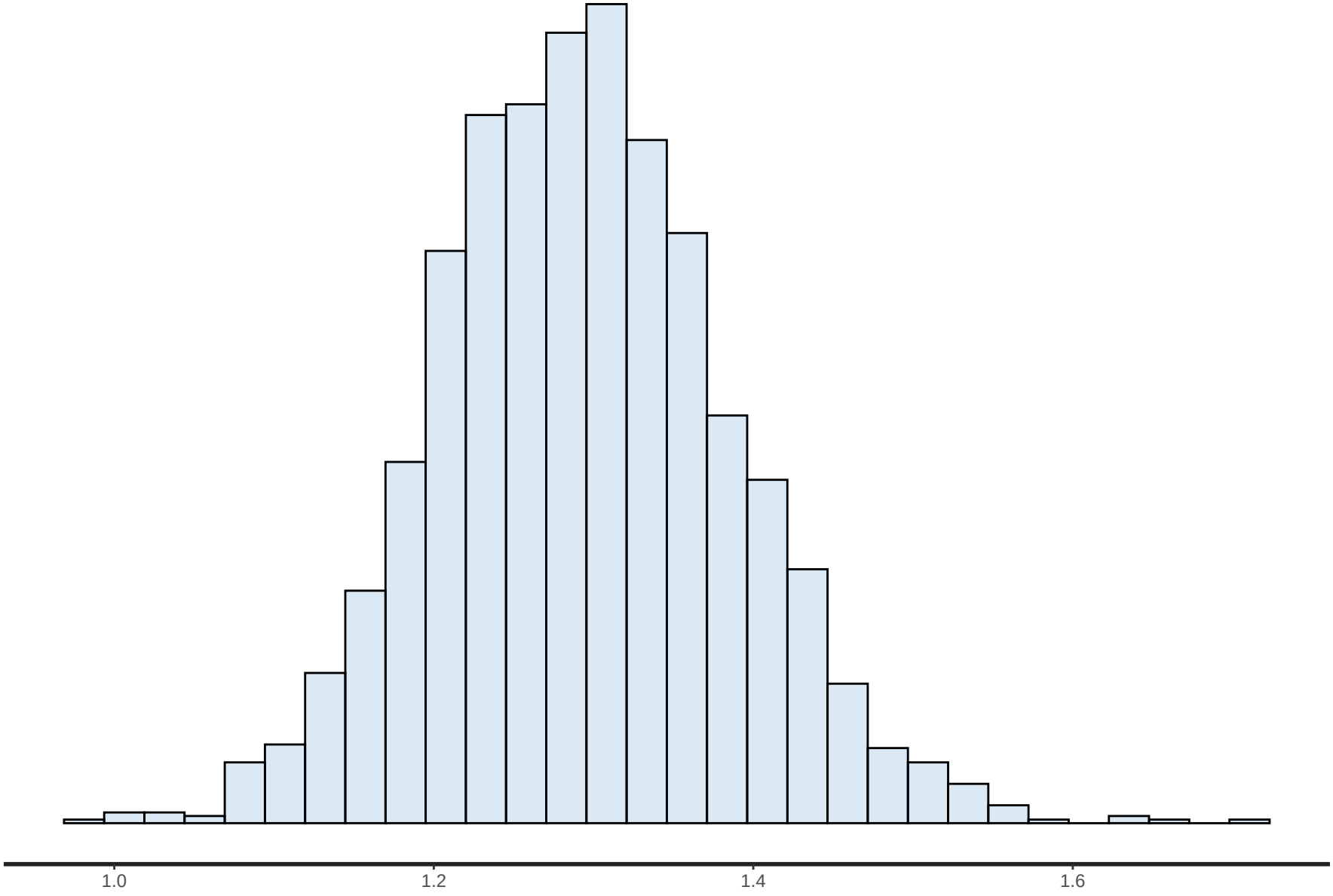

Short Term Death Projection
Number of COVID19 Deaths
600
400
200
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

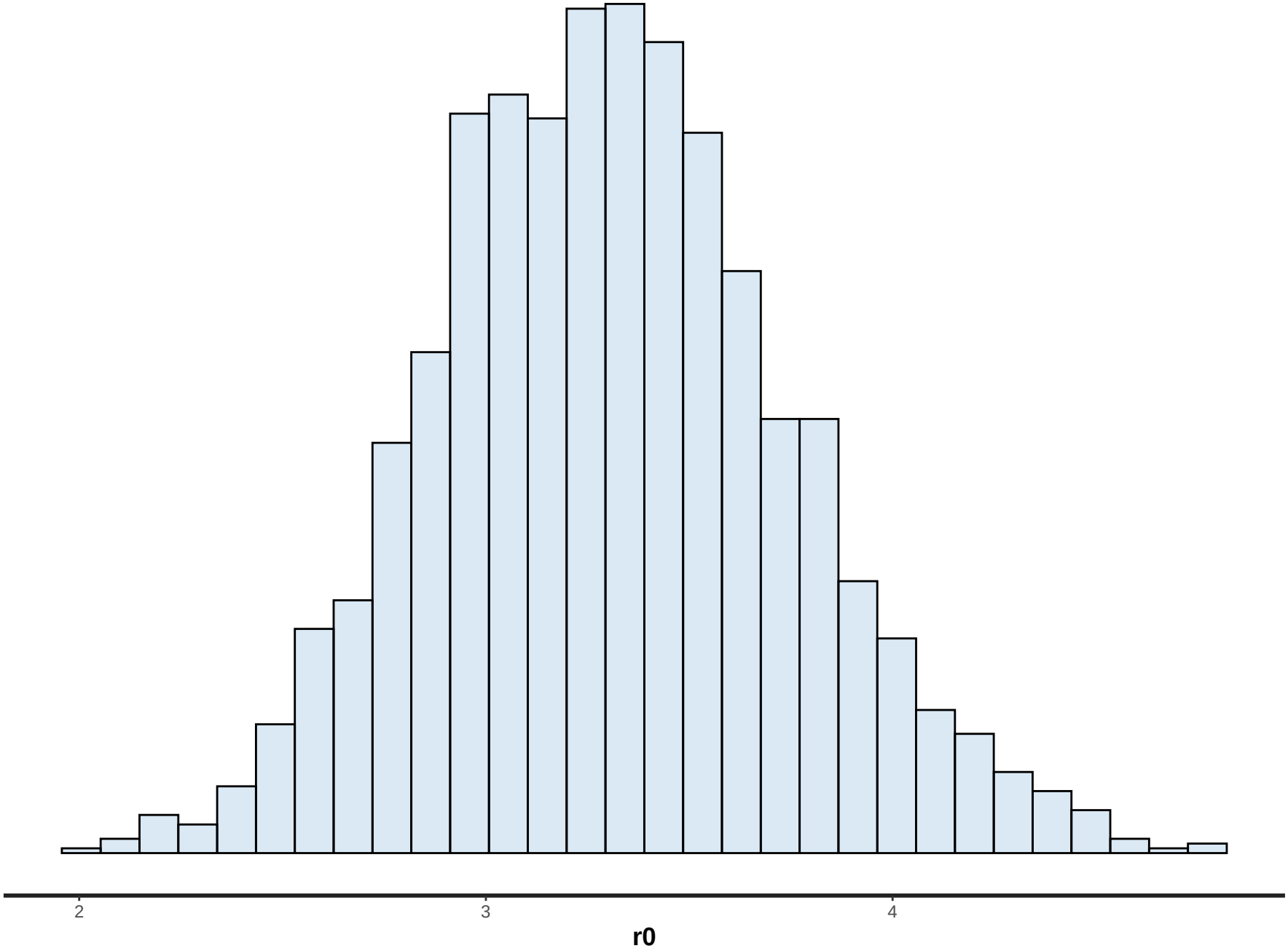

Long Term Death Projection
Number of COVID19 Deaths
0
500
1000
1500
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

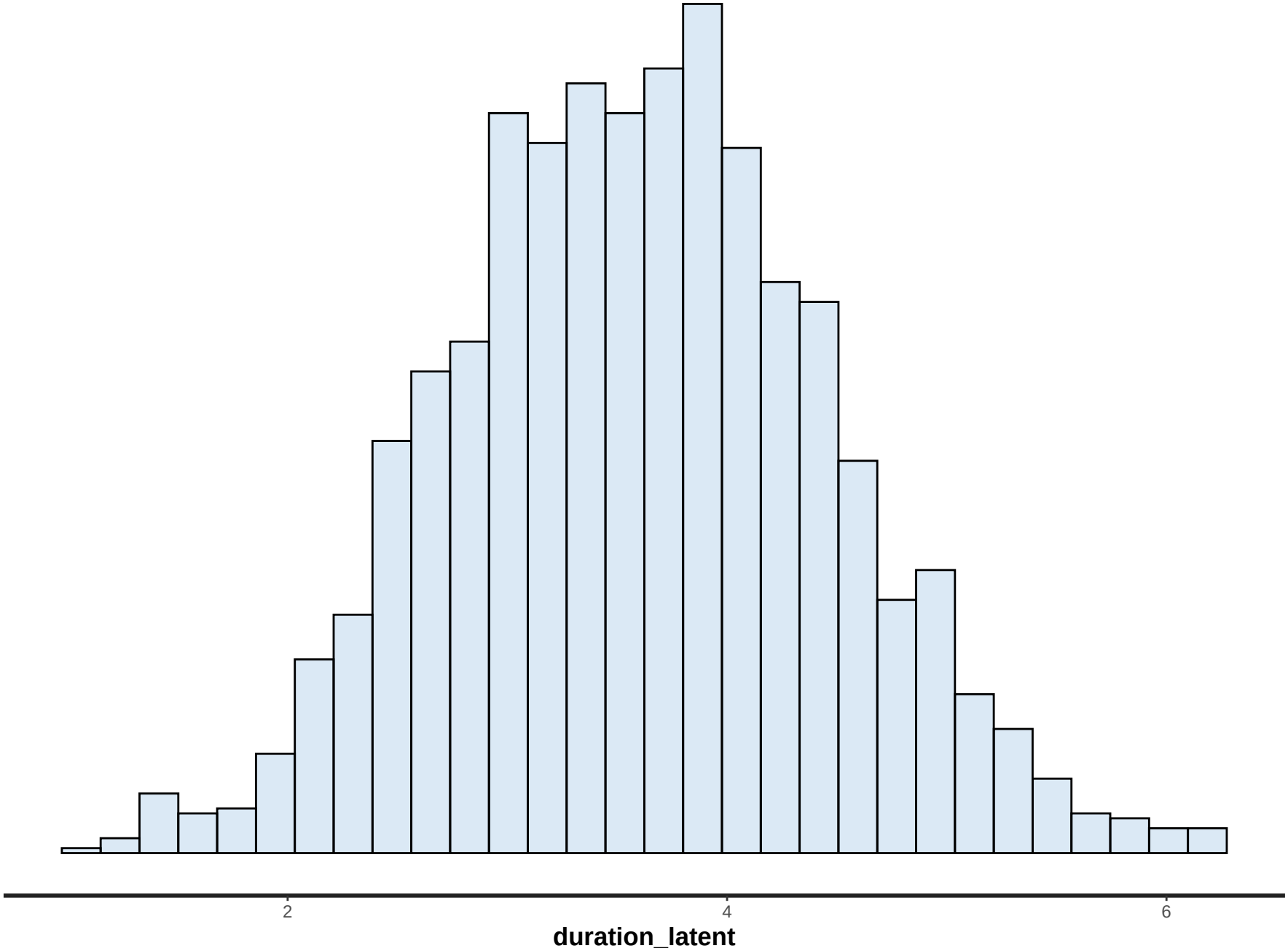

Effective Reproduction Number
Re
2.0
1.5
1.0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
5%−95%
15%−85%
25%−75%

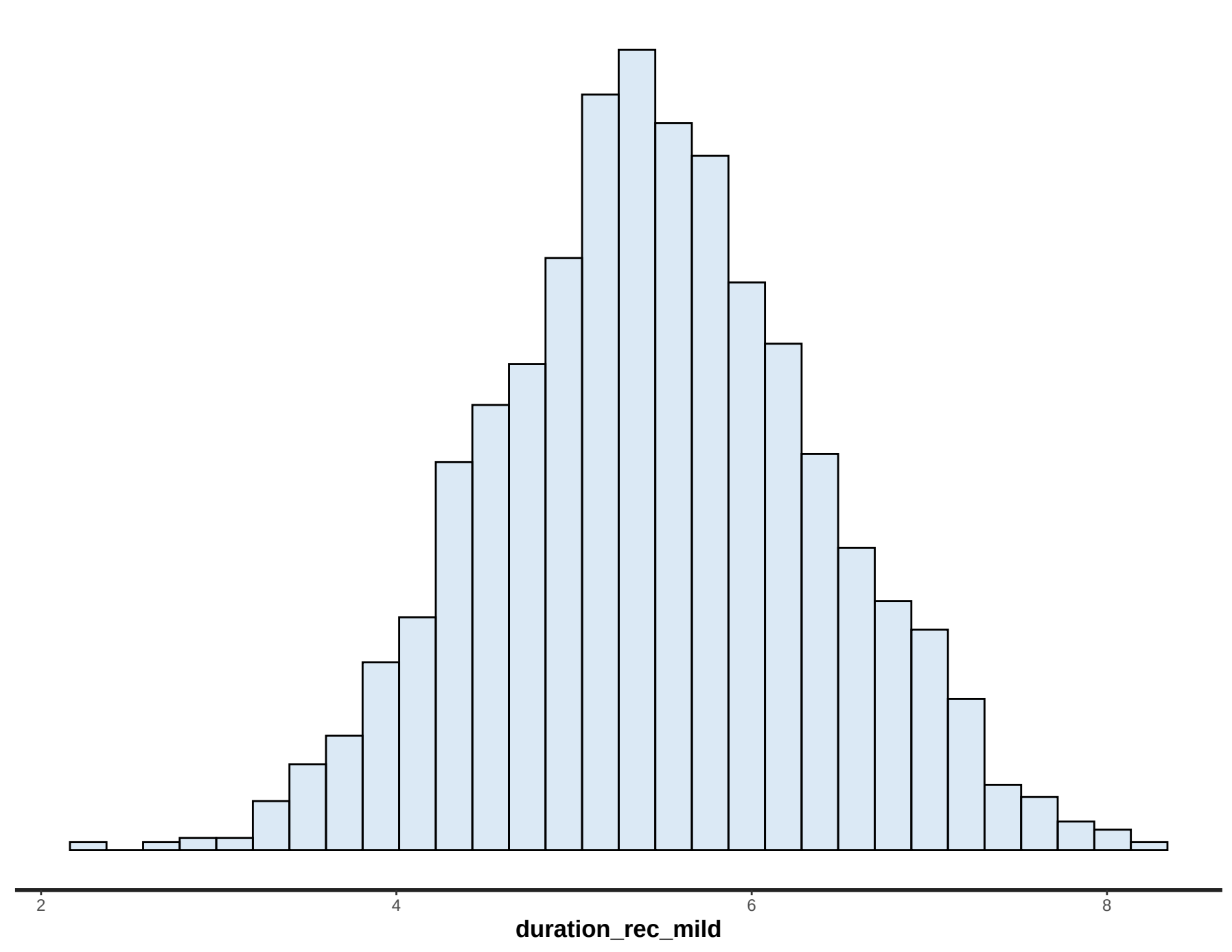
Rt as of 2020−12−08

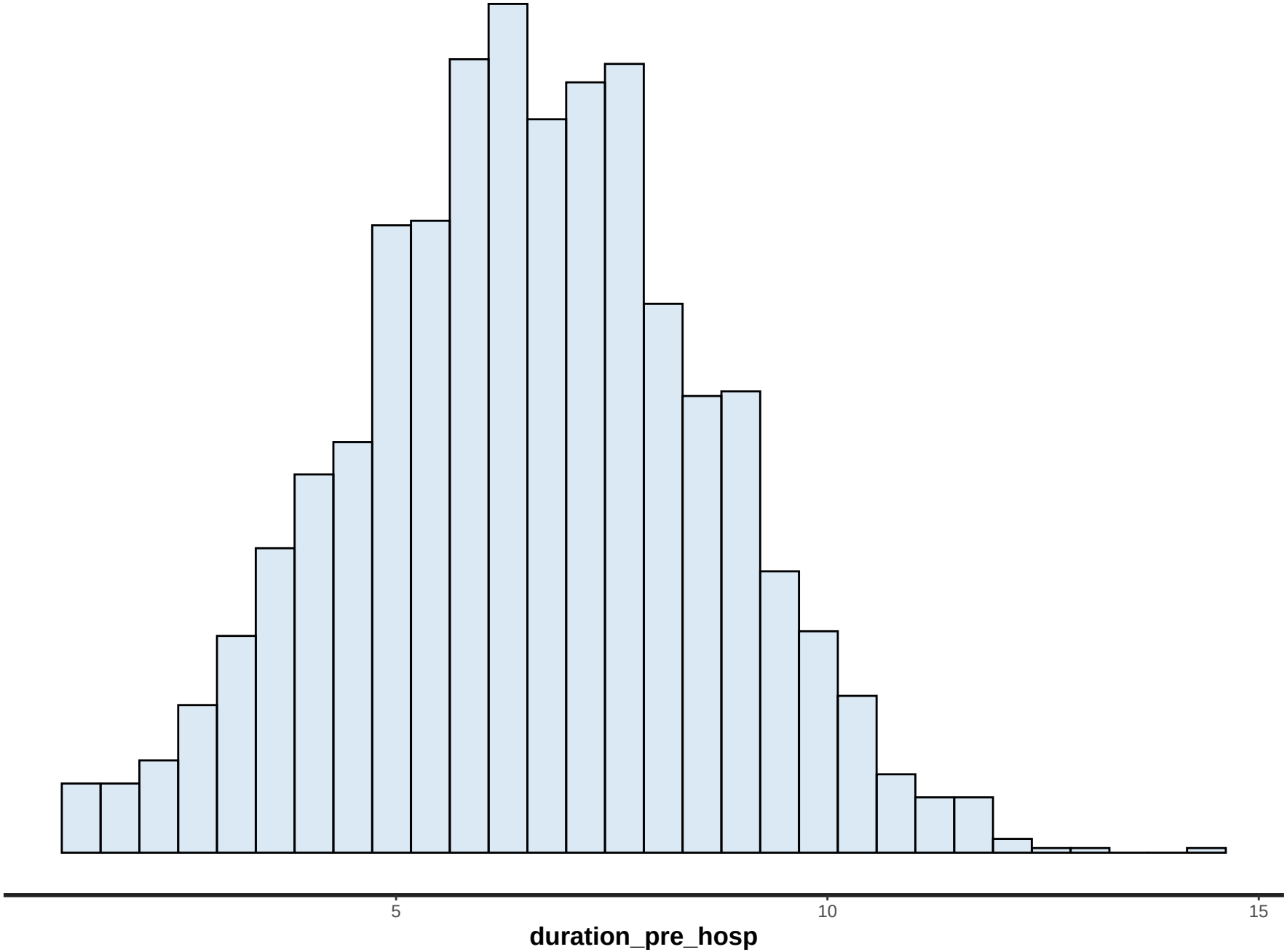
5%	10%	25%	50%	75%	90%	95%
1.15	1.18	1.23	1.29	1.35	1.41	1.45

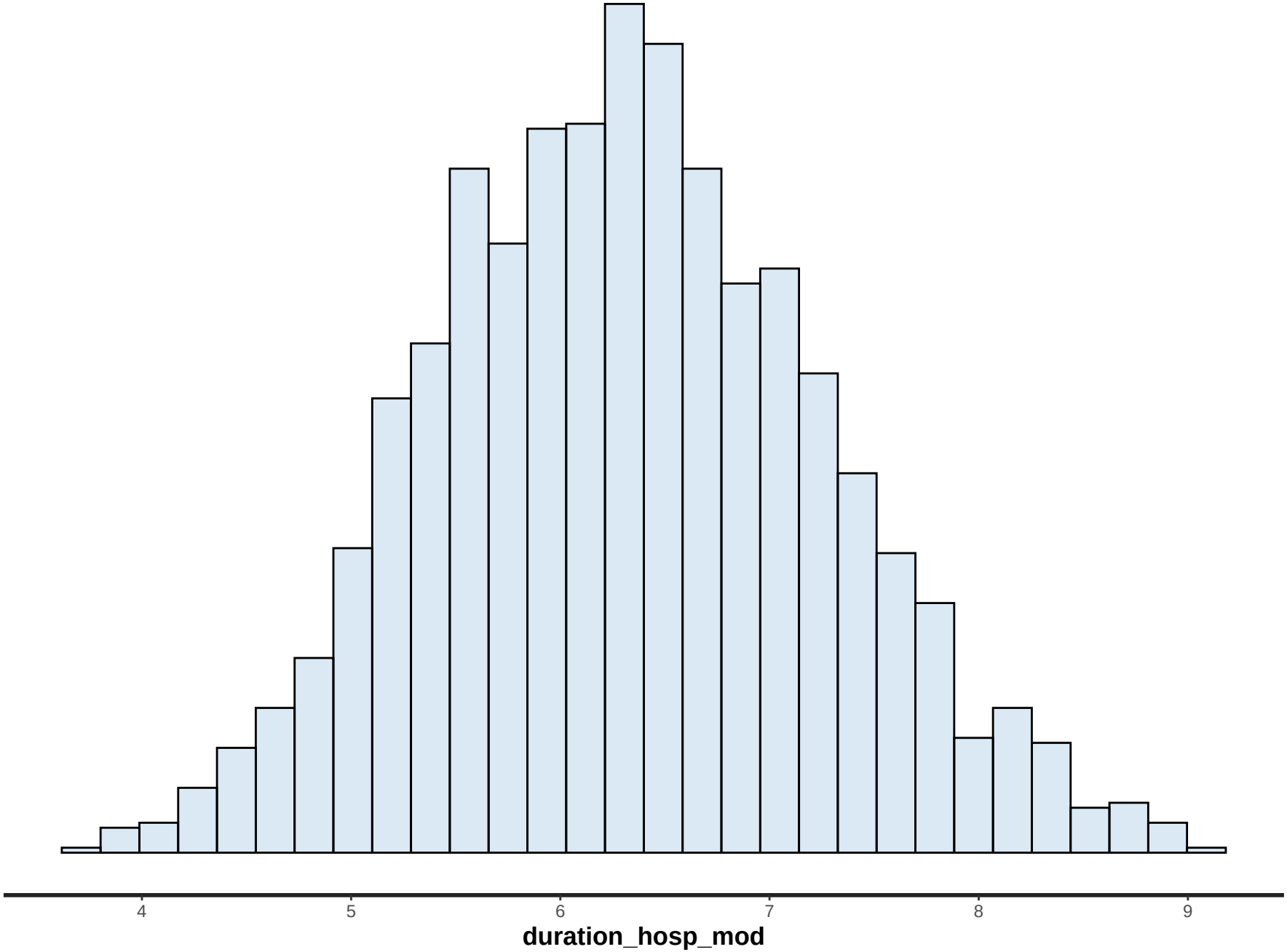


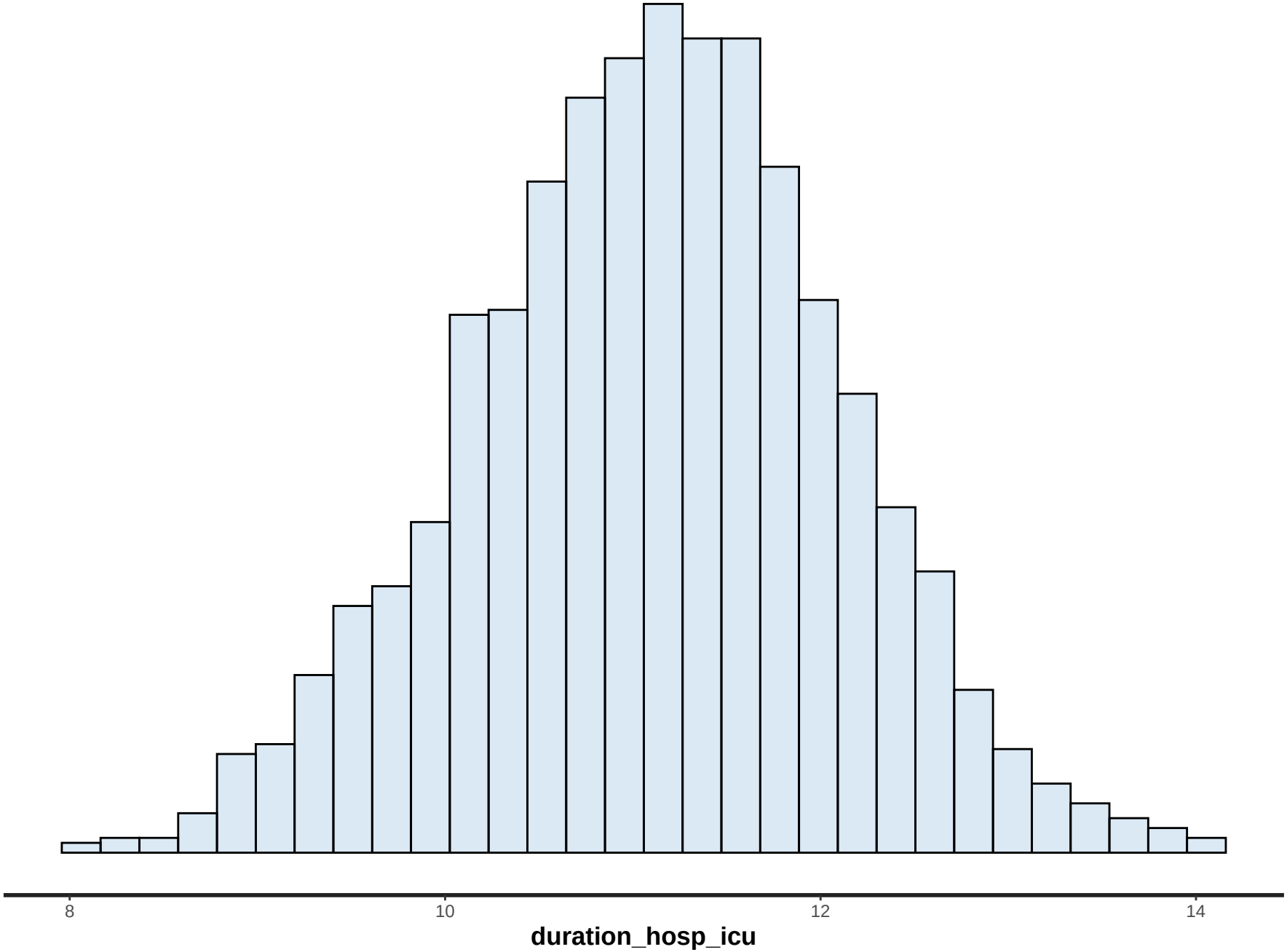

2
3
4
r0

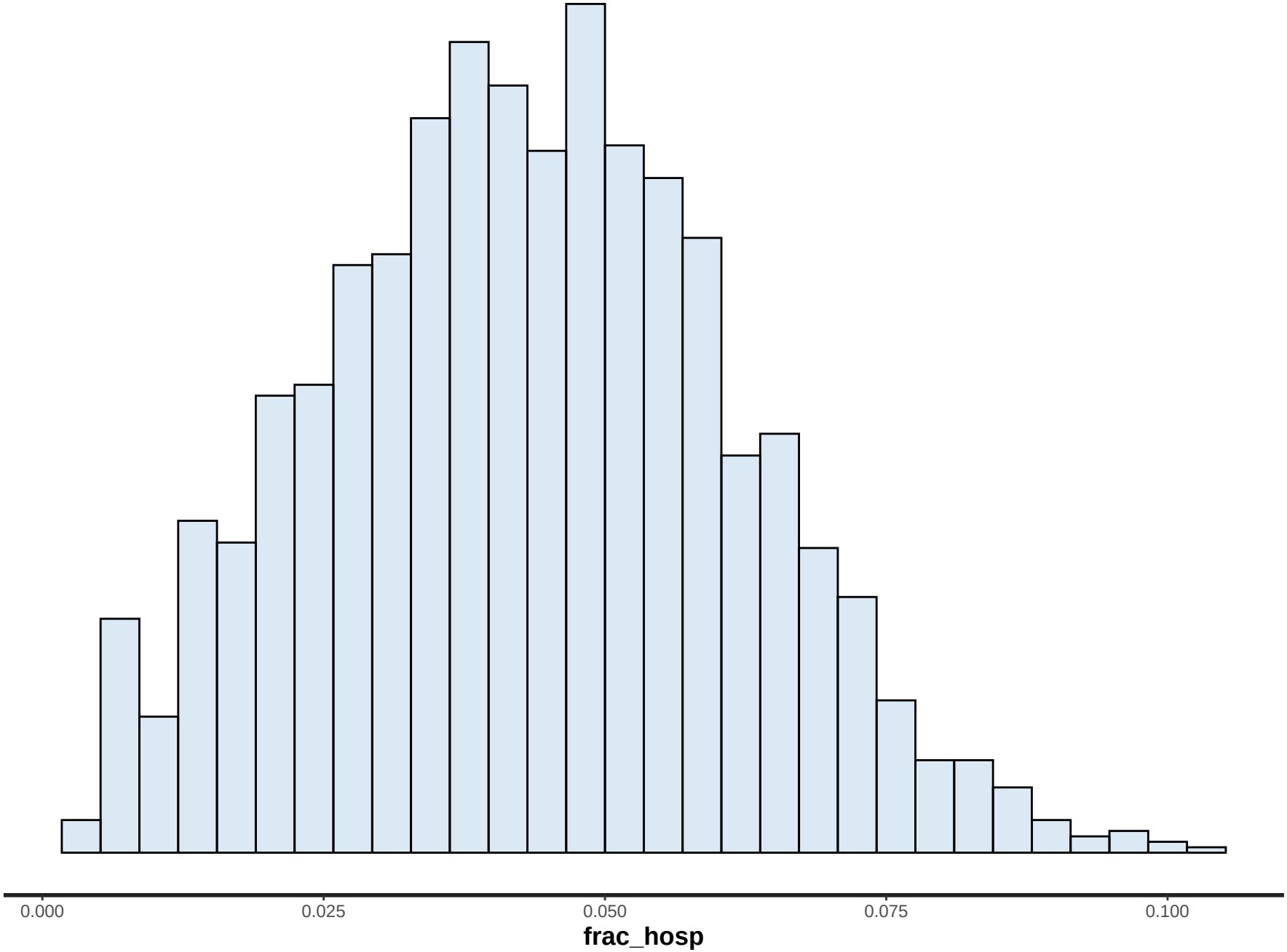

2
4
6
duration_latent


2
4
6
8
duration_rec_mild


5
10
15
duration_pre_hosp


4
5
6
7
8
9
duration_hosp_mod


8
10
12
14
duration_hosp_icu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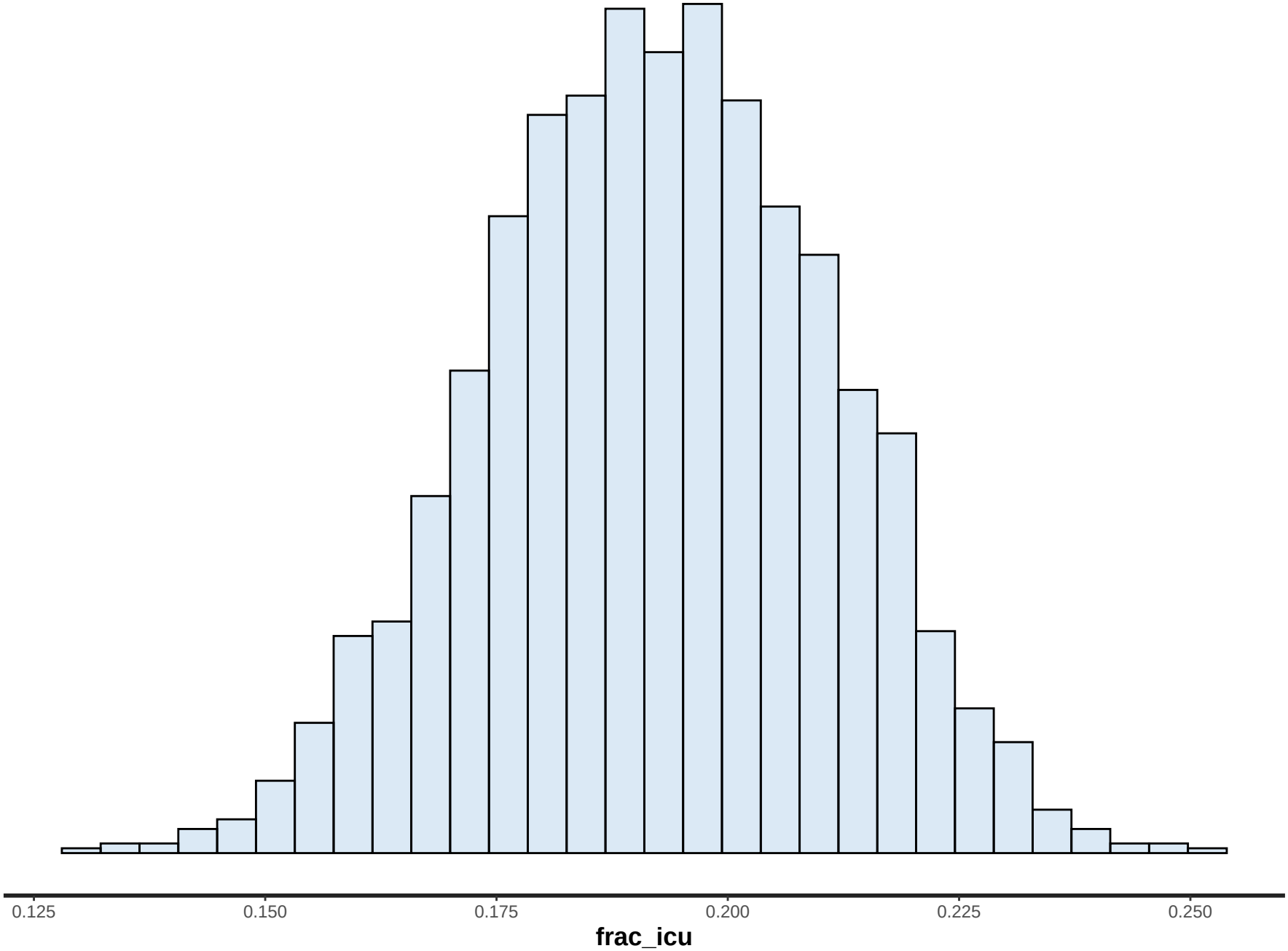
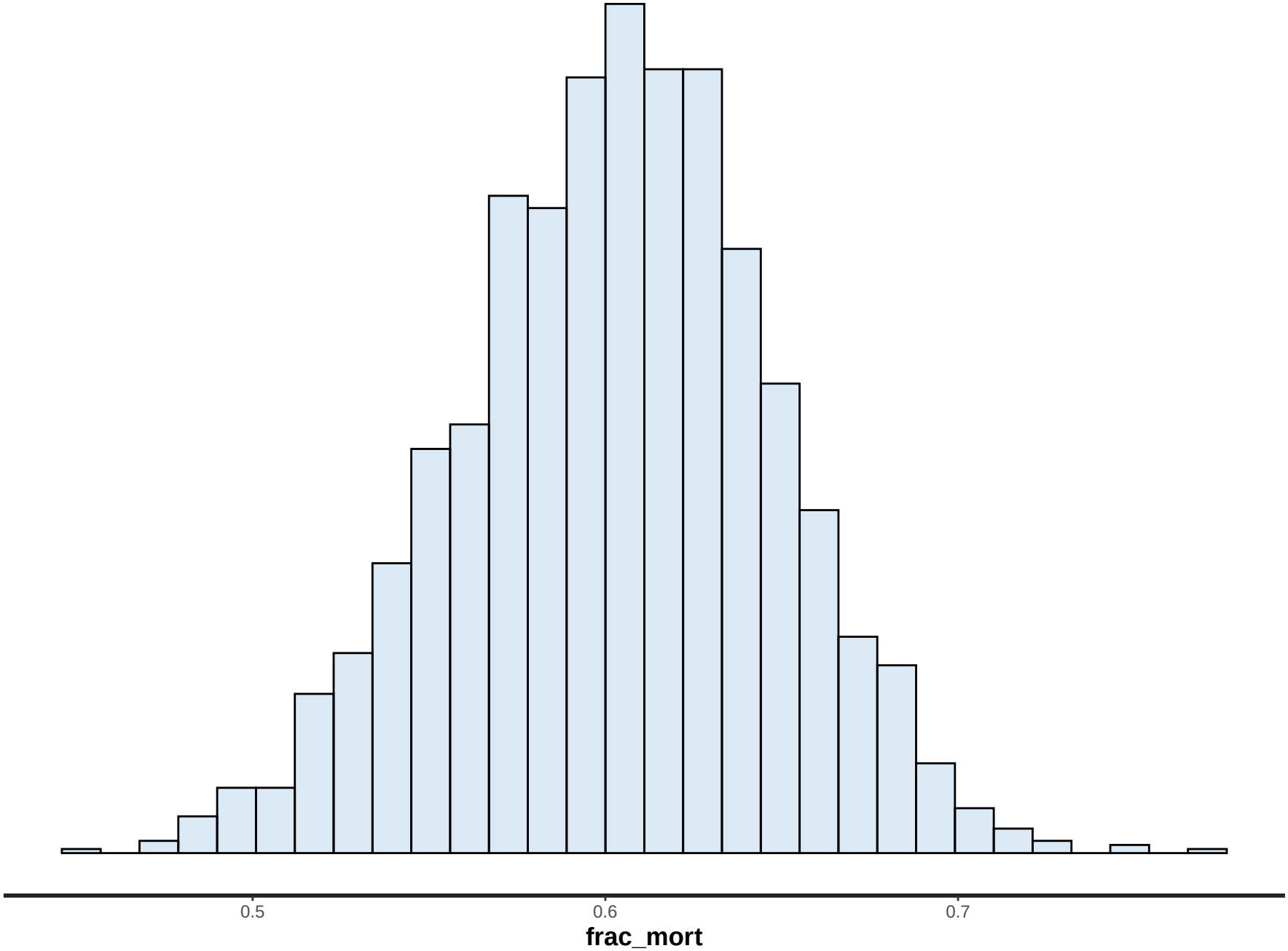
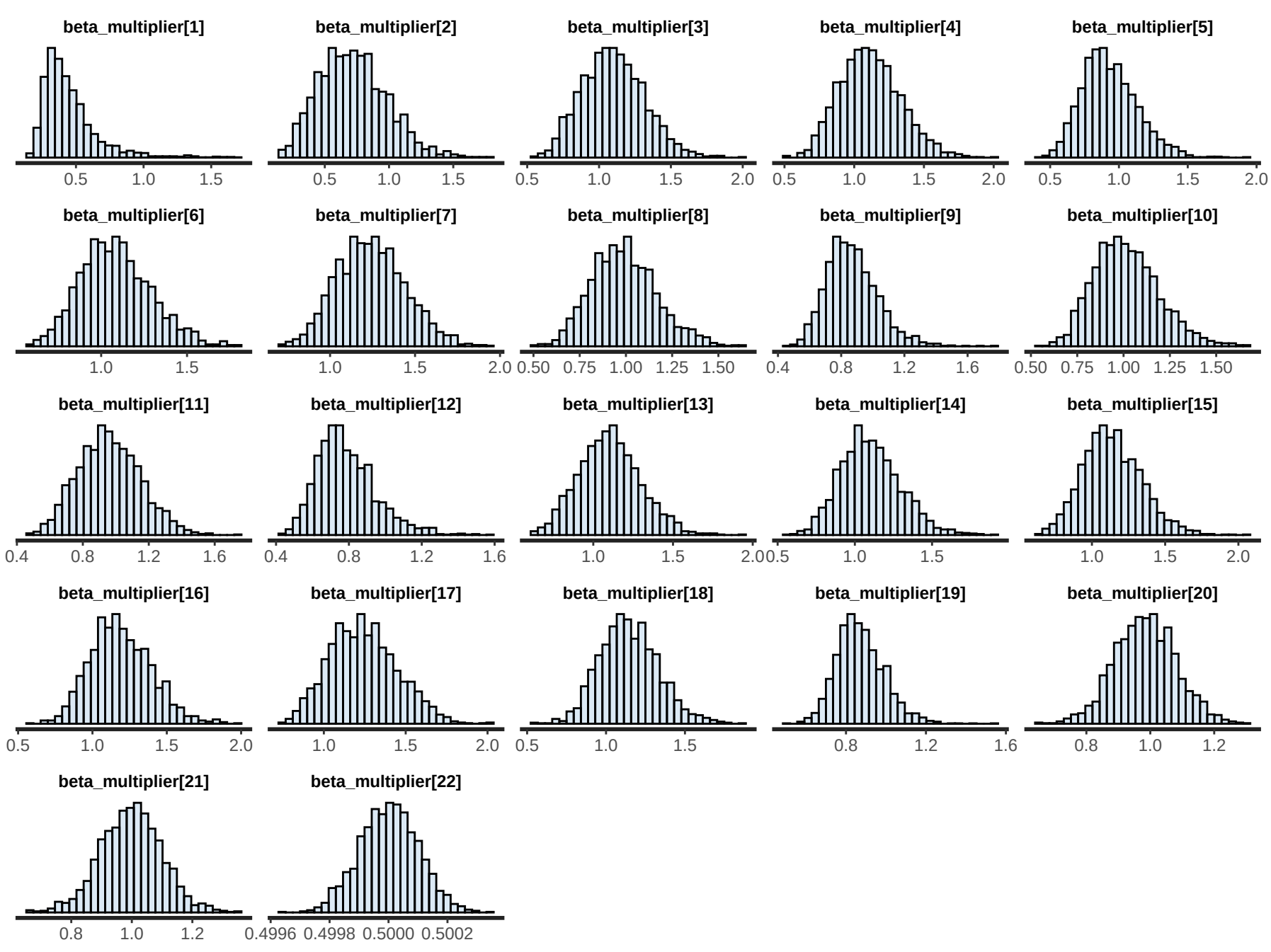
0.025
0.050
0.075
0.100
frac_hosp


0.125
0.150
0.175
0.200
0.225
0.250
frac_icu


0.5
0.6
0.7
frac_mort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0.5 1.0 1.5
beta_multiplier[2]
0.5 1.0 1.5
beta_multiplier[3]
0.5 1.0 1.5 2.0
beta_multiplier[4]
0.5 1.0 1.5 2.0
beta_multiplier[5]
0.5 1.0 1.5 2.0
beta_multiplier[6]
1.0 1.5
beta_multiplier[7]
1.0 1.5 2.0
beta_multiplier[8]
0.50 0.75 1.00 1.25 1.50
beta_multiplier[9]
0.4 0.8 1.2 1.6
beta_multiplier[10]
0.50 0.75 1.00 1.25 1.50
beta_multiplier[11]
0.4 0.8 1.2 1.6
beta_multiplier[12]
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beta_multiplier[13]
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1.0 1.5 2.0
beta_multiplier[16]
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beta_multiplier[17]
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beta_multiplier[18]
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beta_multiplier[19]
0.8 1.2 1.6
beta_multiplier[20]
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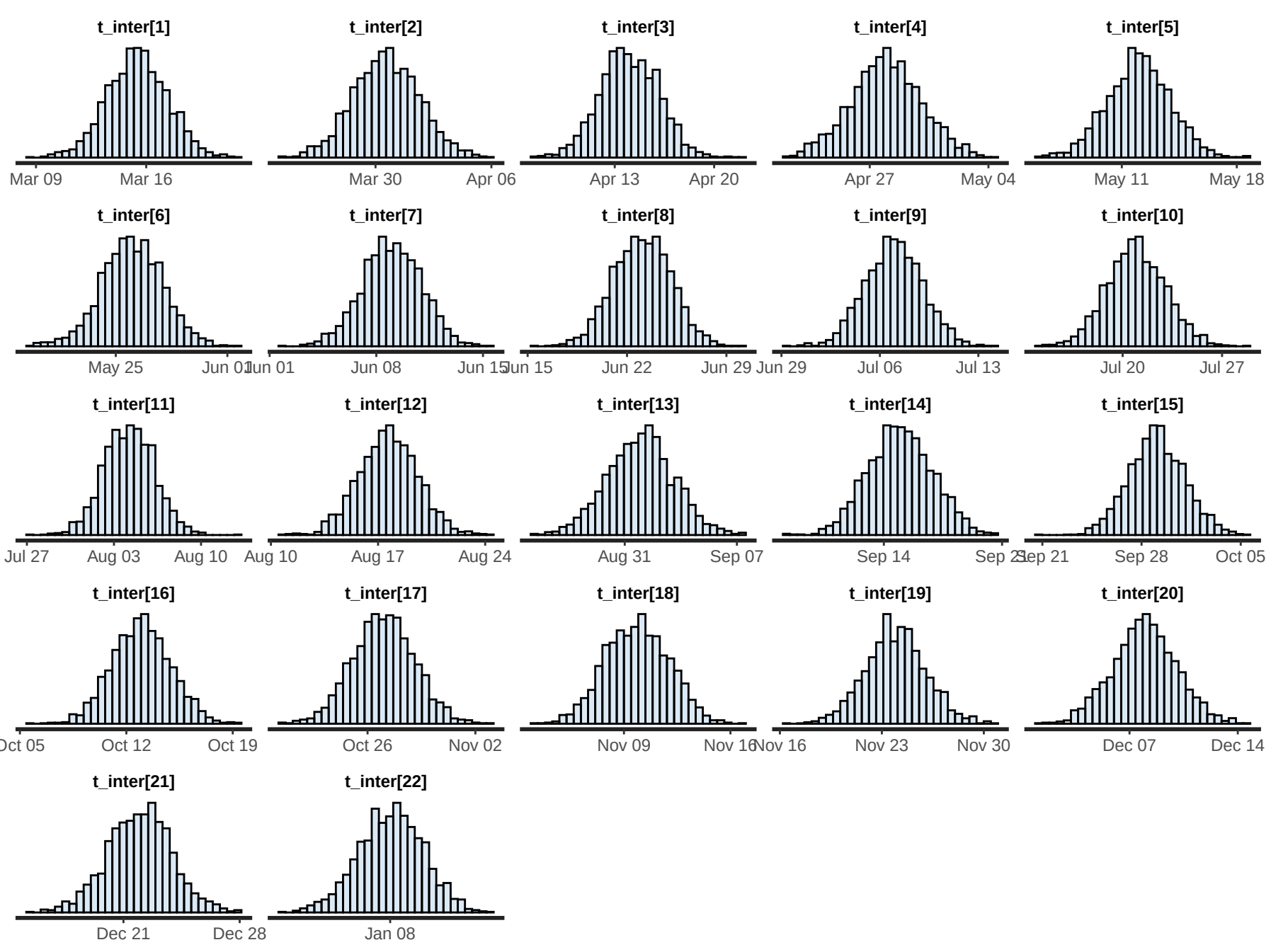
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Nov 16
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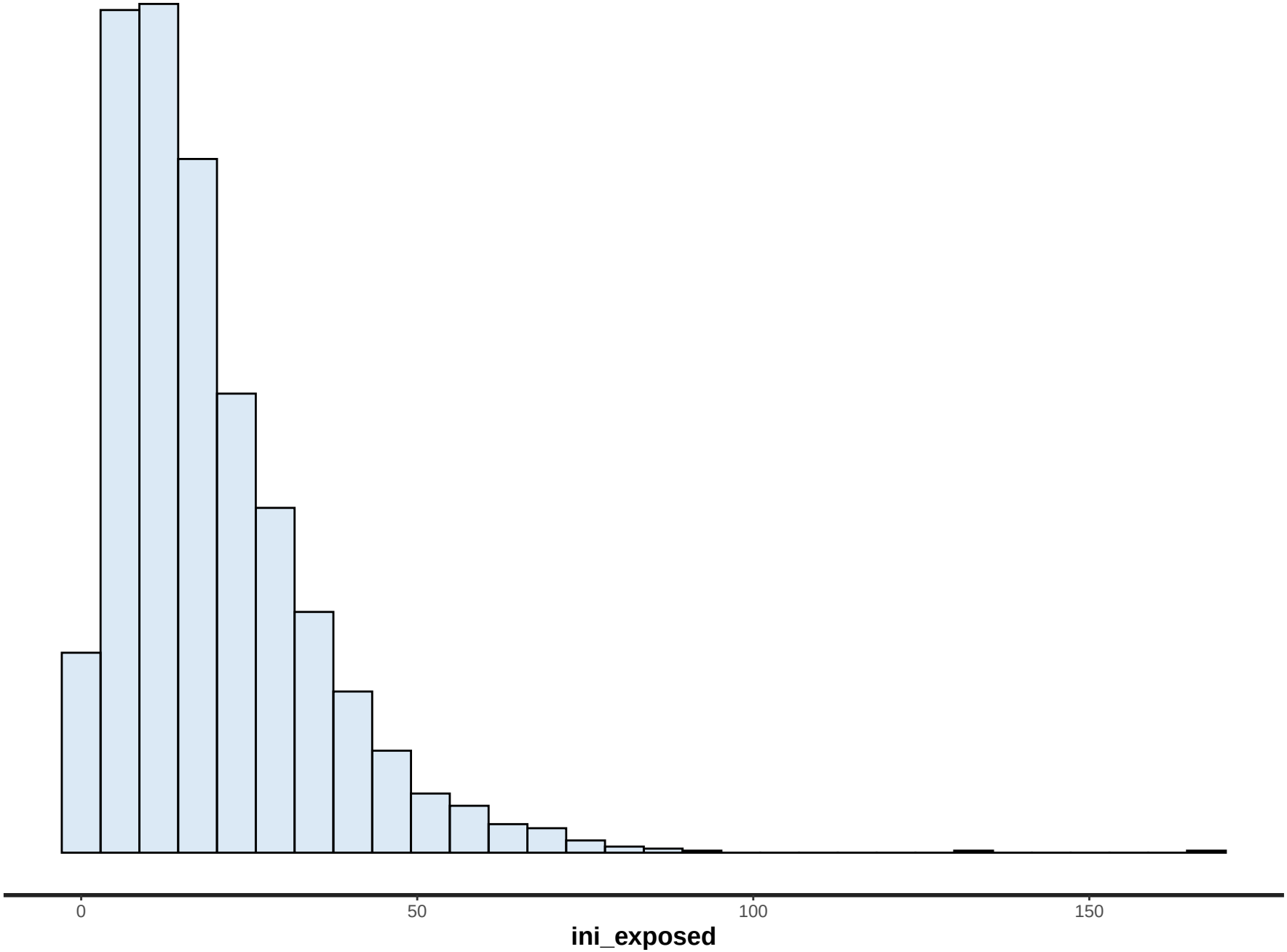
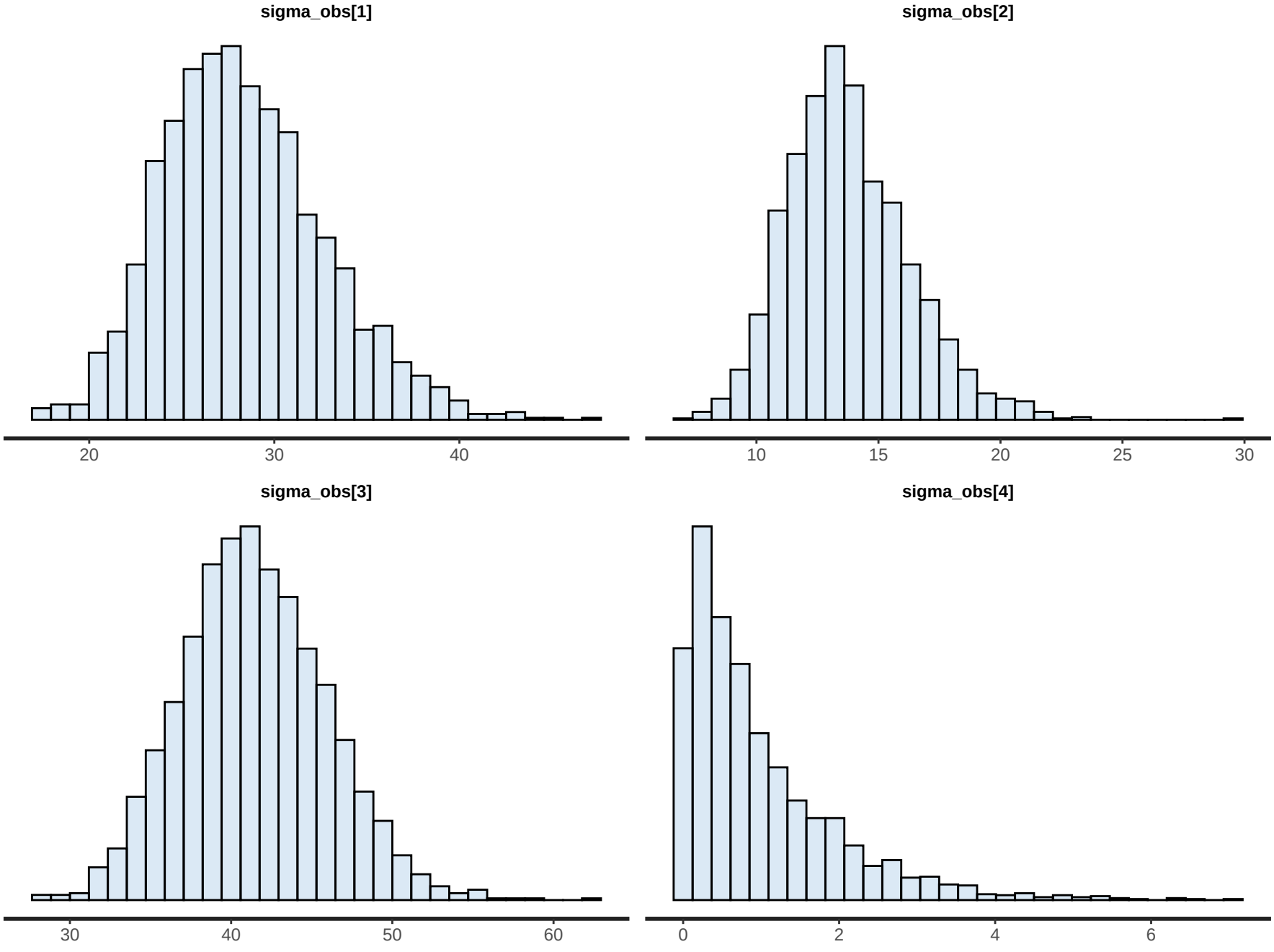
Dec 21
Dec 28
t_inter[22]
Jan 08


0
50
100
150
ini_exposed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6