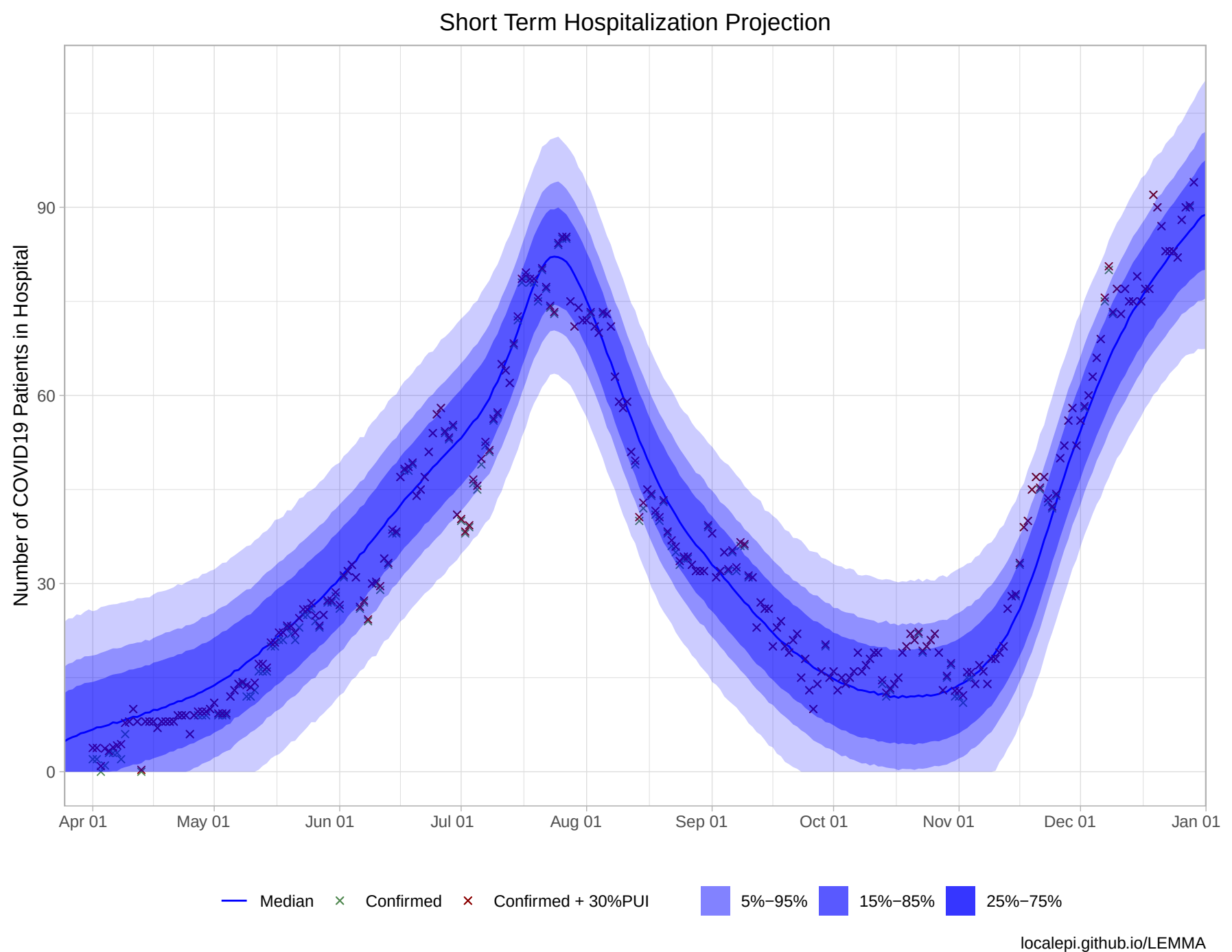
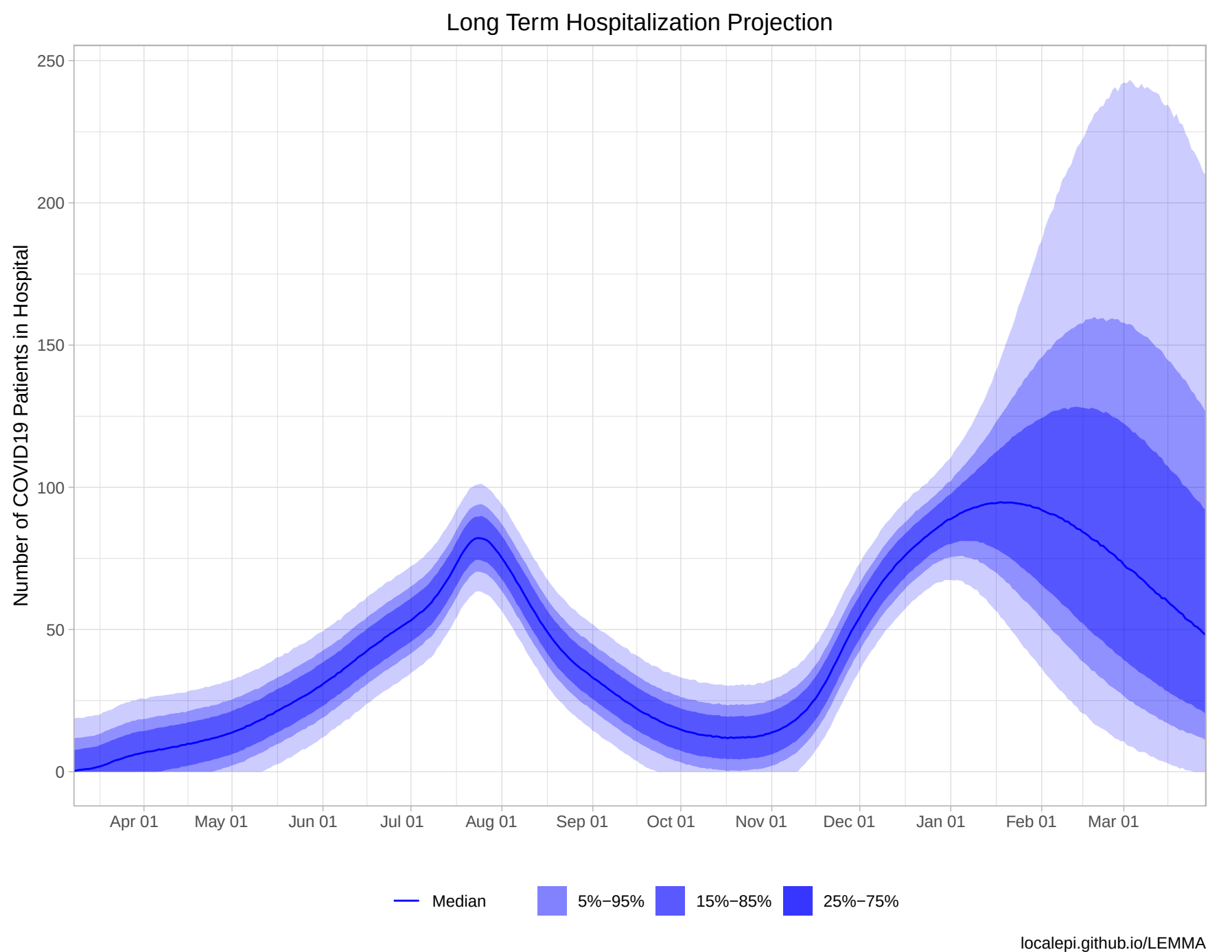
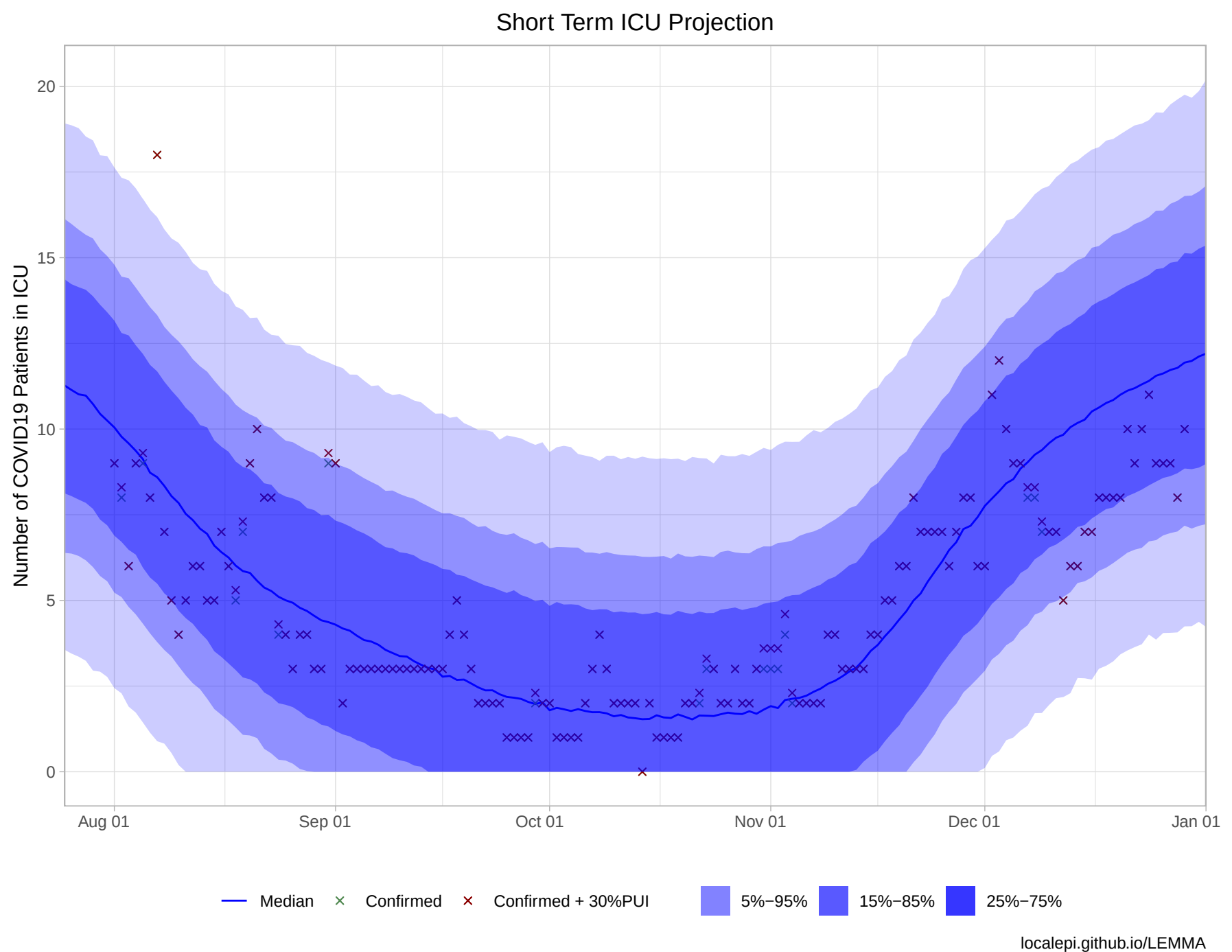
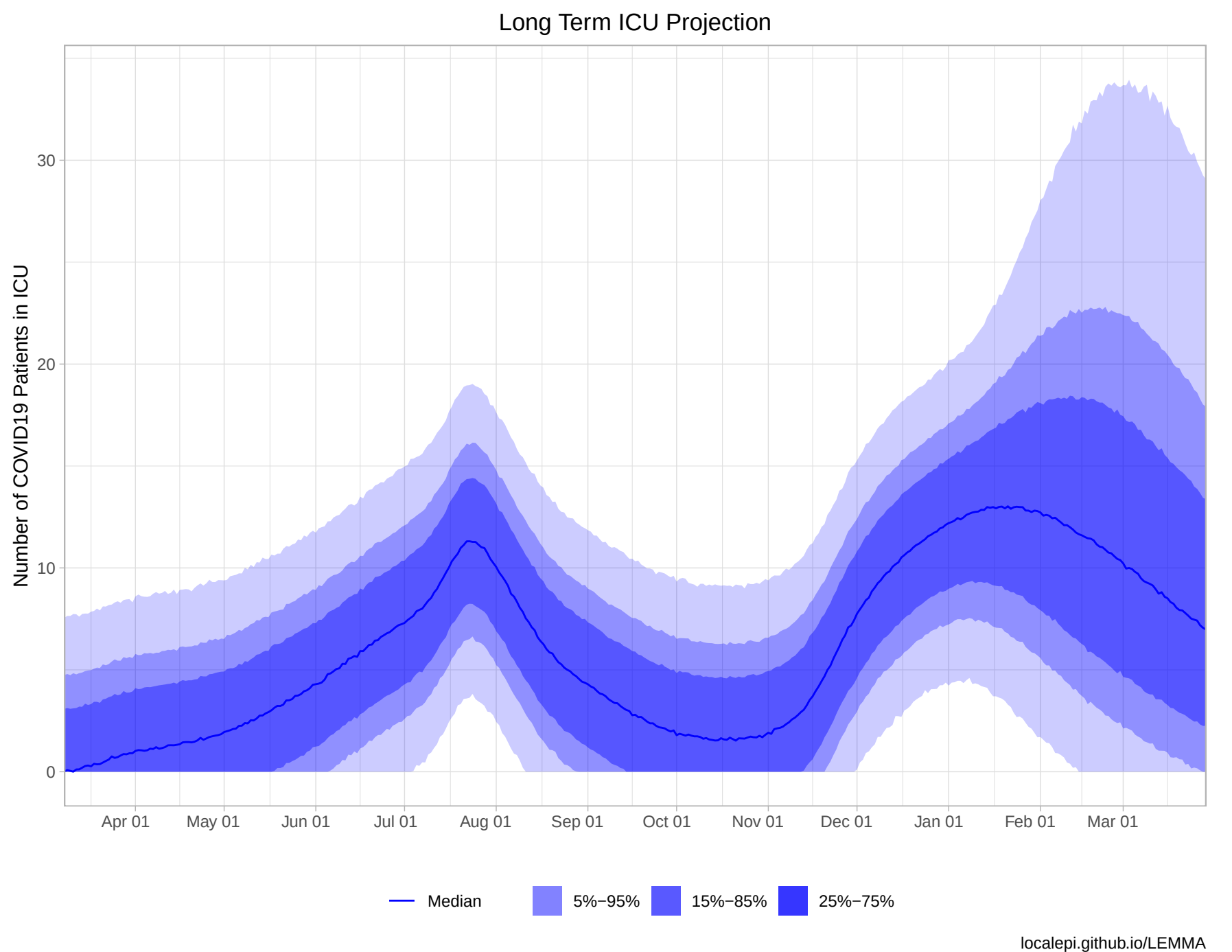
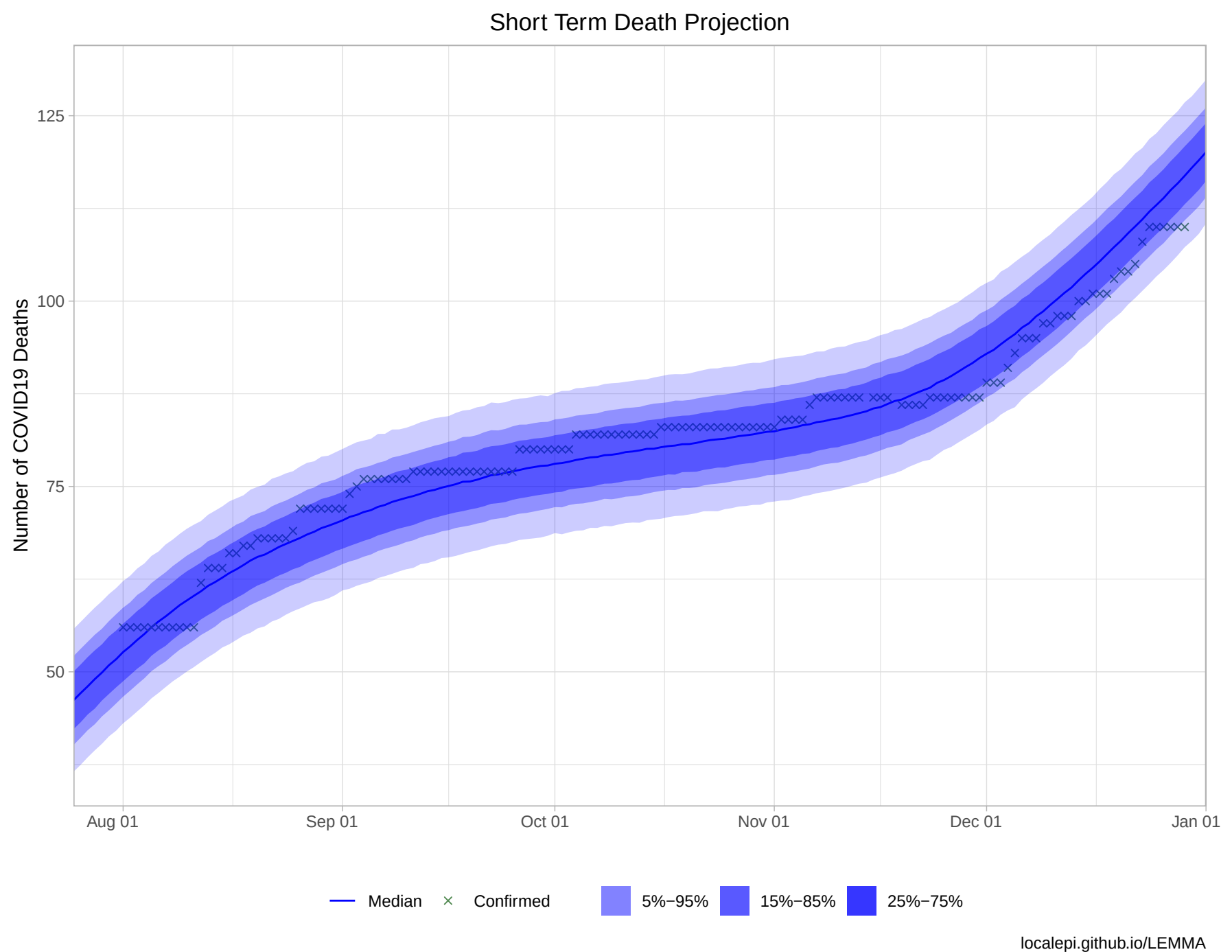
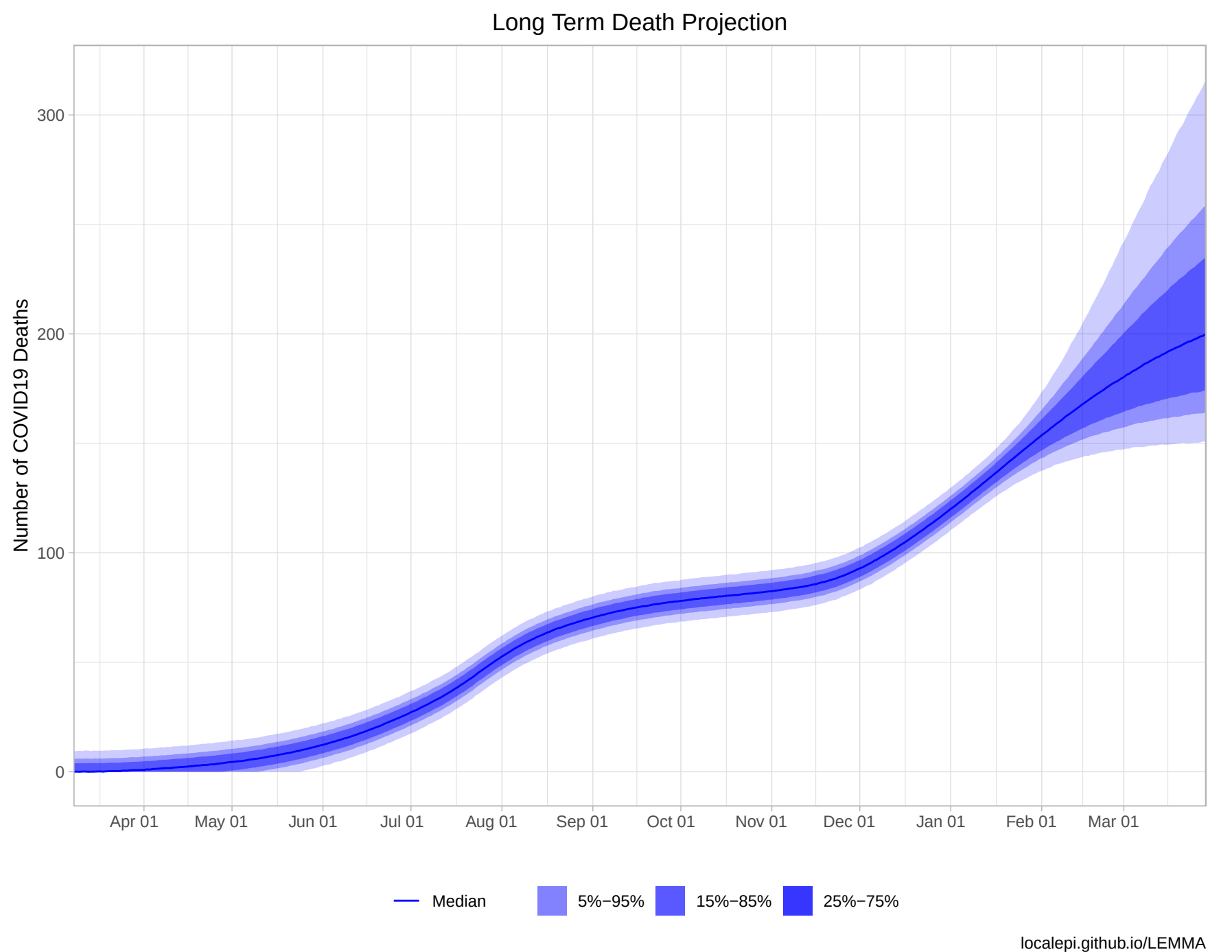

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
30
60
90
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

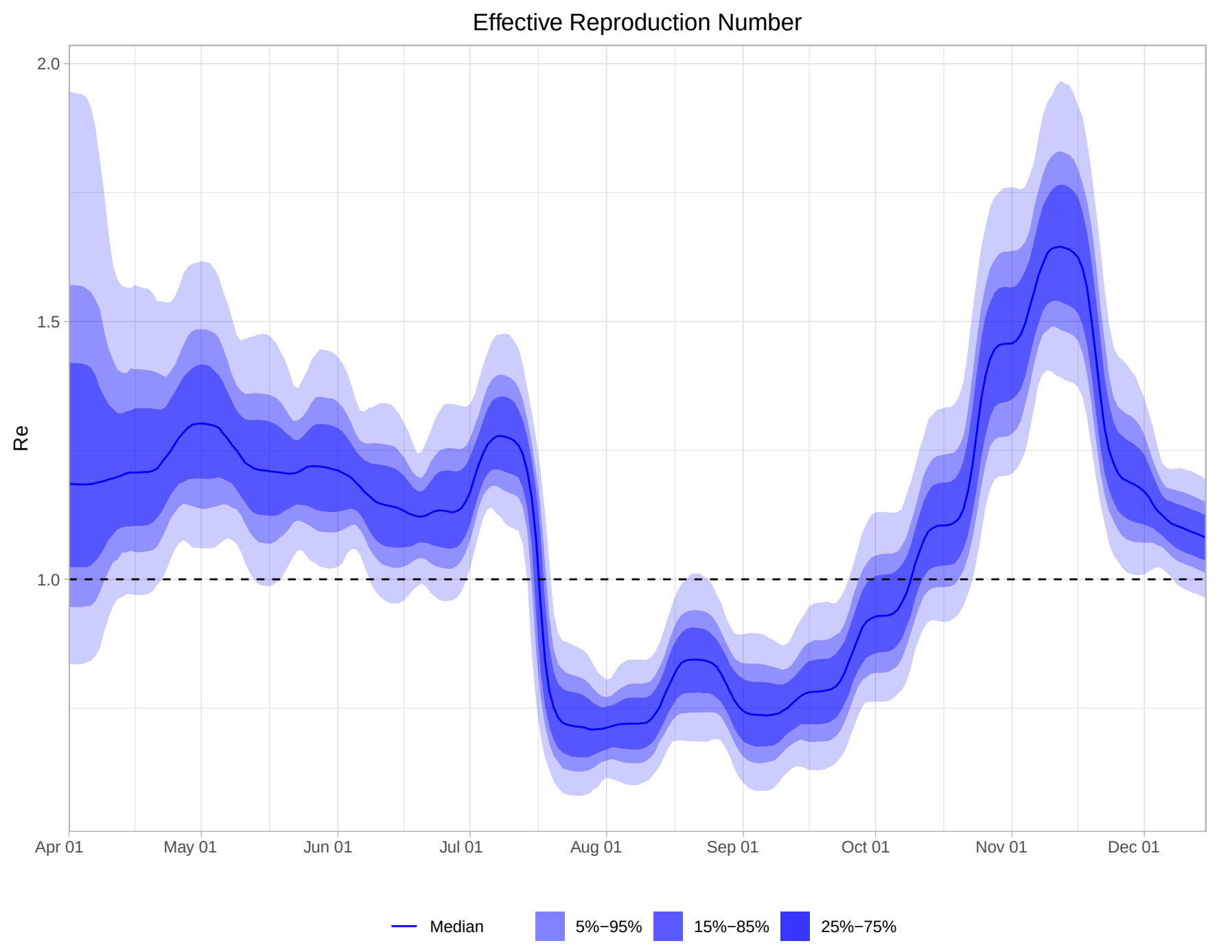

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
250
200
150
100
50
0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


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
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

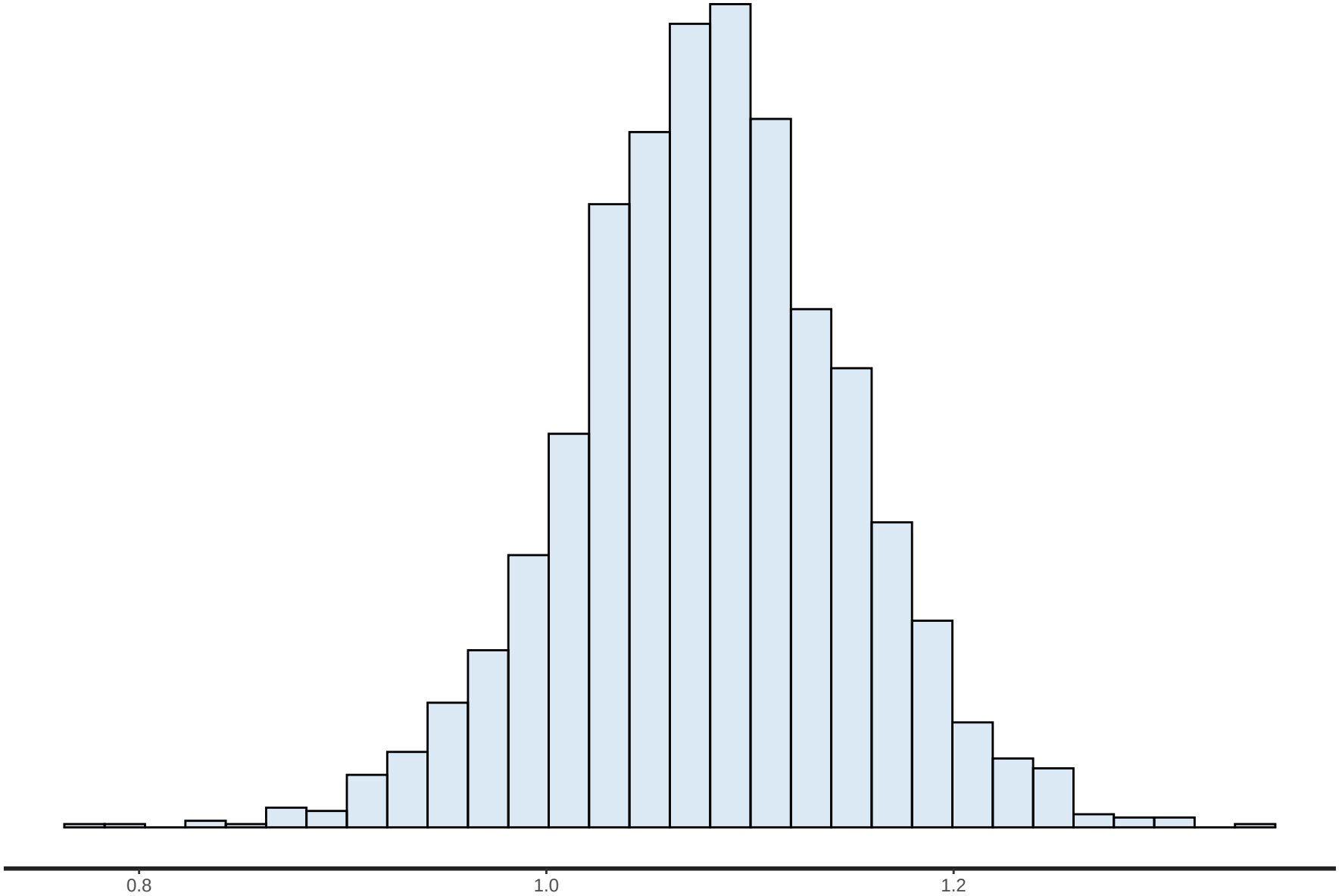

Short Term Death Projection
Number of COVID19 Deaths
125
100
75
50
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

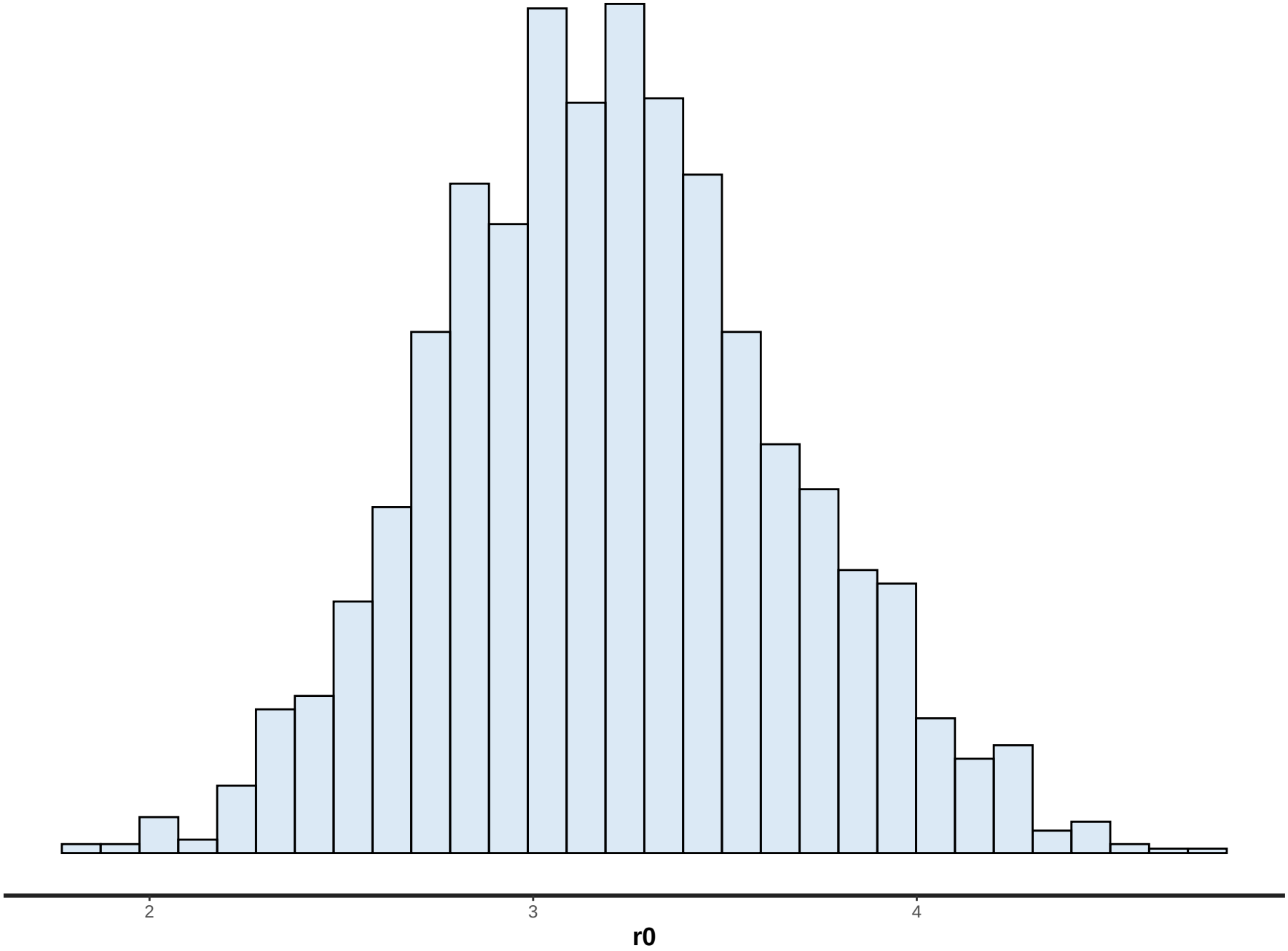

Long Term Death Projection
Number of COVID19 Deaths
300
200
100
0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

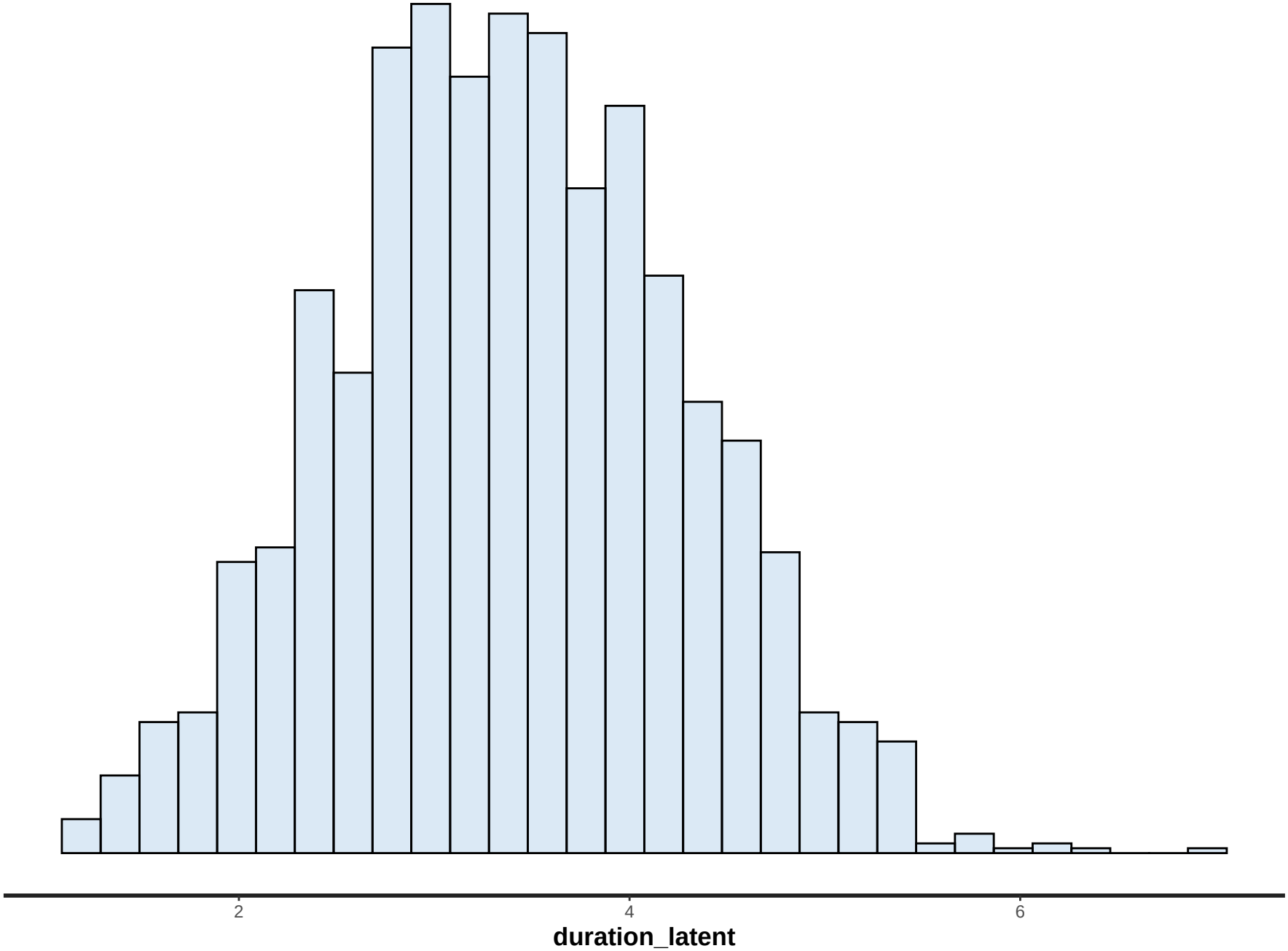

Effective Reproduction Number
2.0
1.5
1.0
Re
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
5%−95%
15%−85%
25%−75%

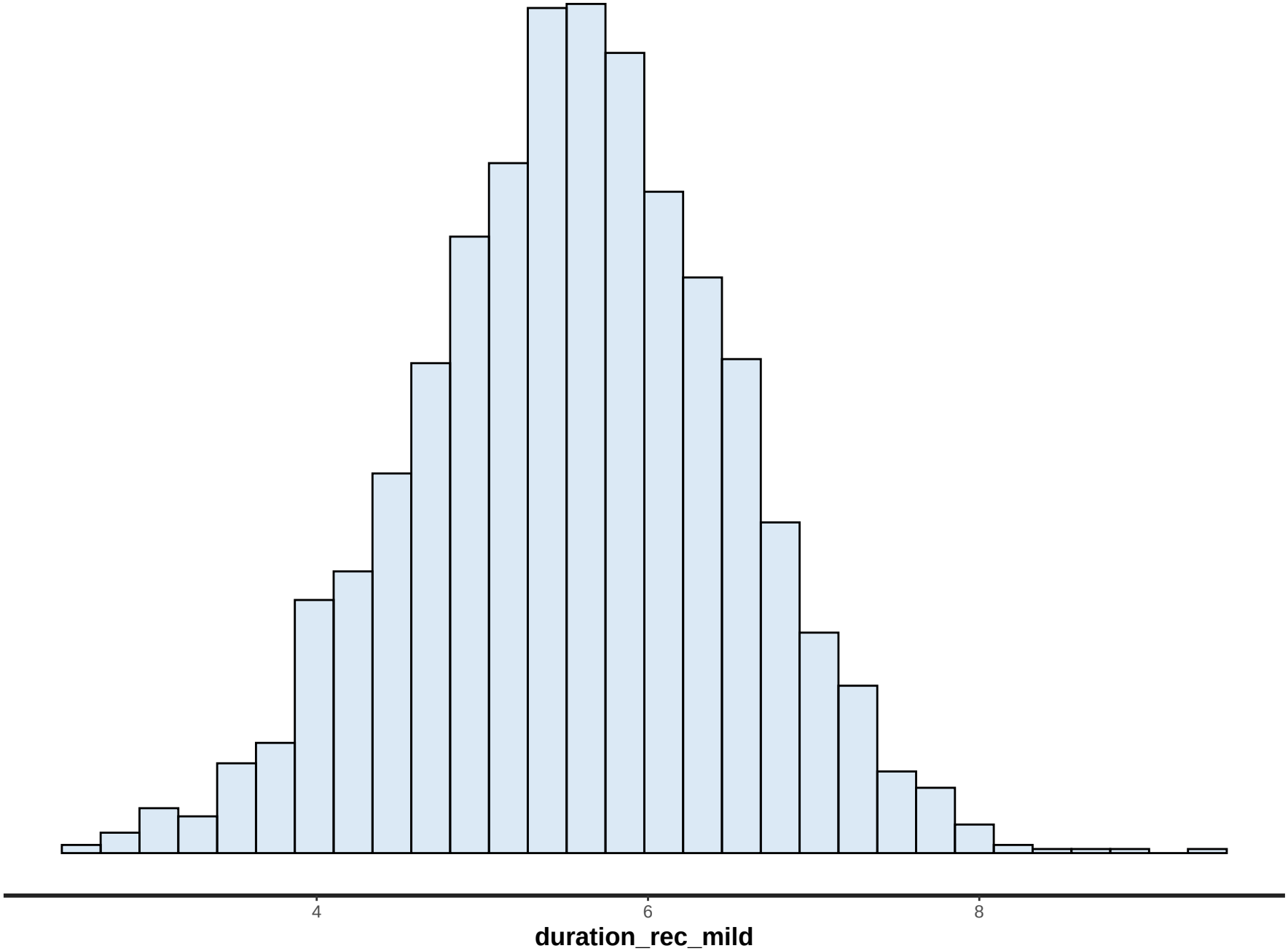
Rt as of 2020−12−15

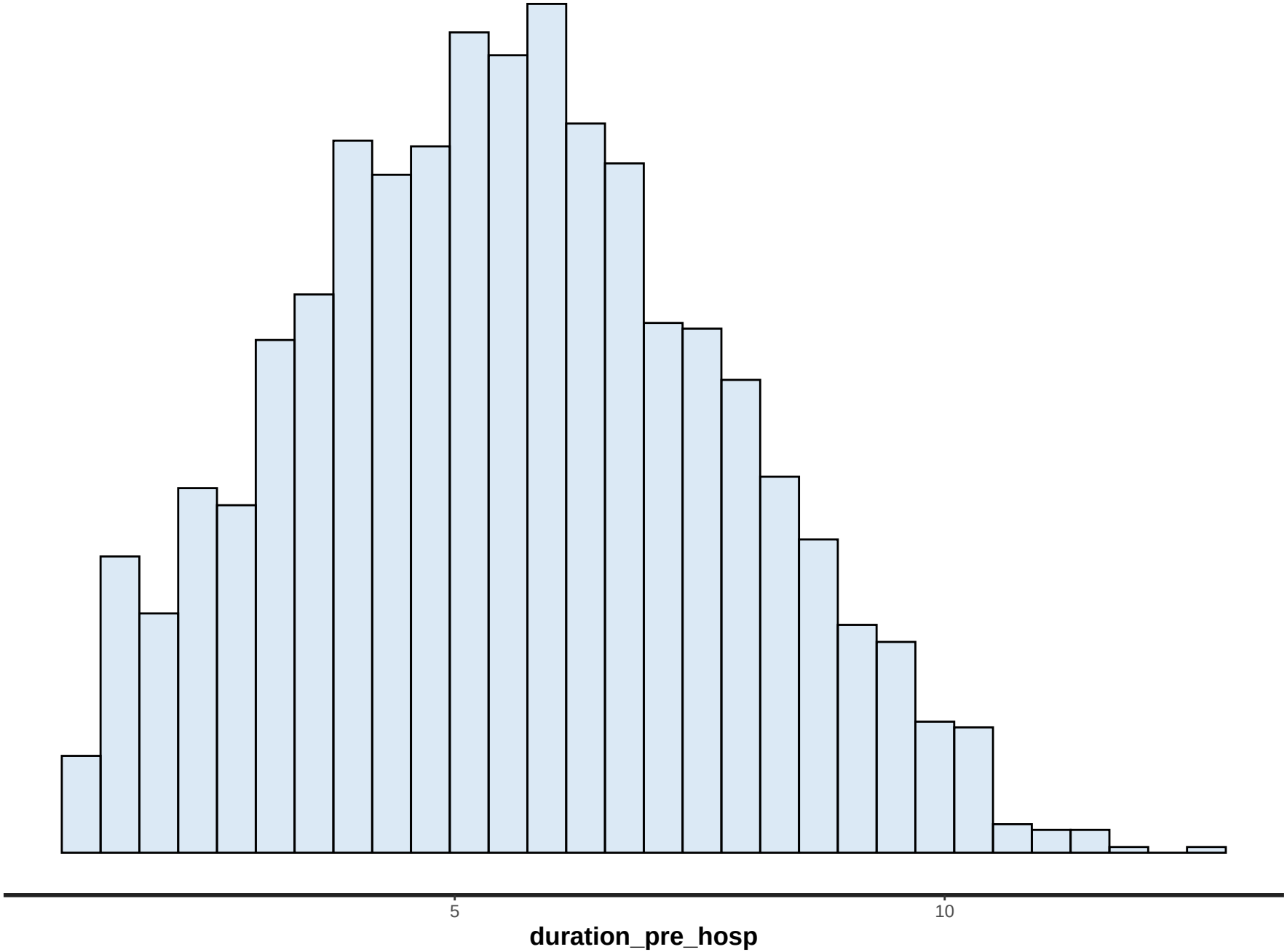
5%	10%	25%	50%	75%	90%	95%
0.97	1.00	1.04	1.08	1.12	1.17	1.19

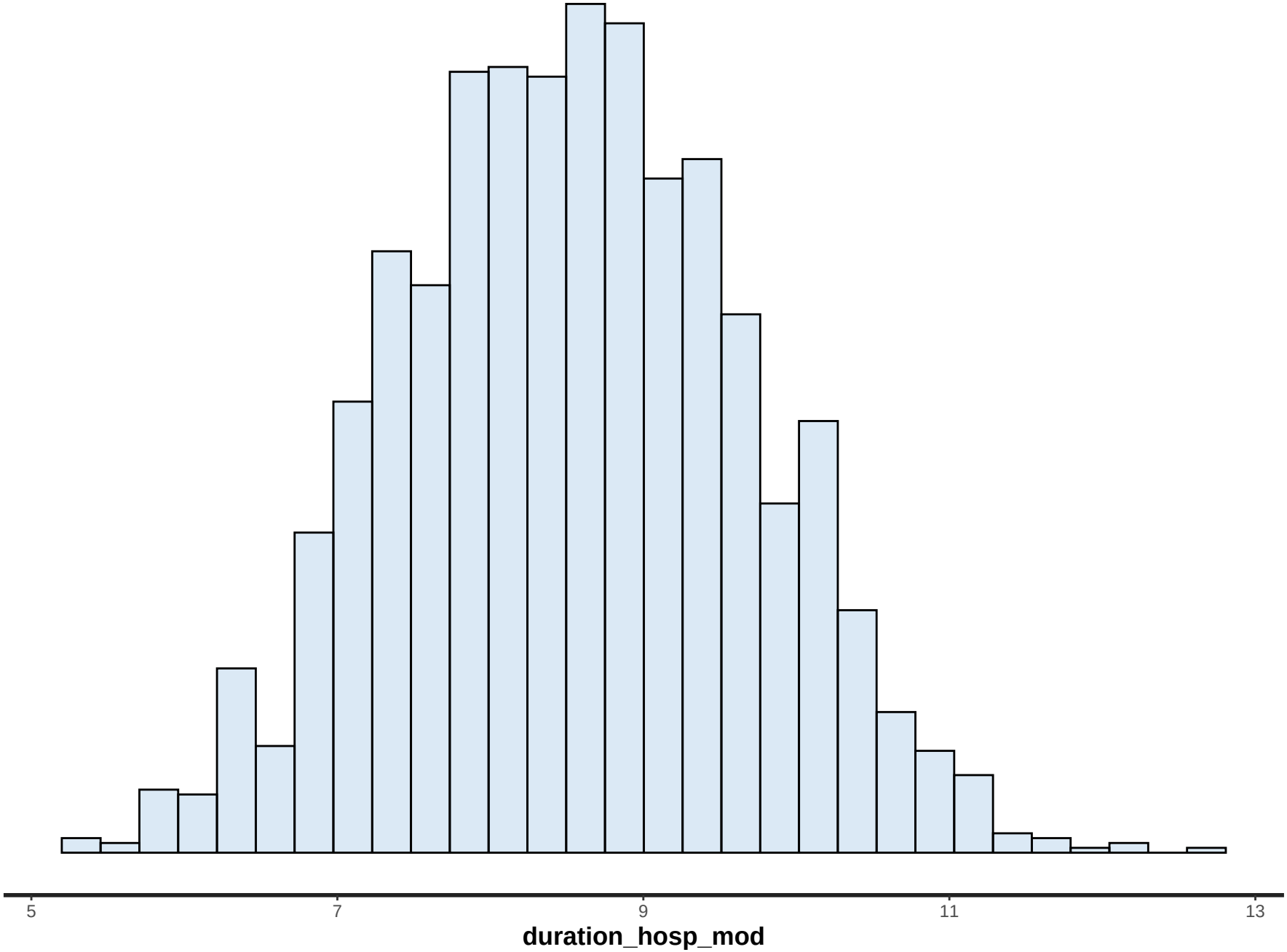


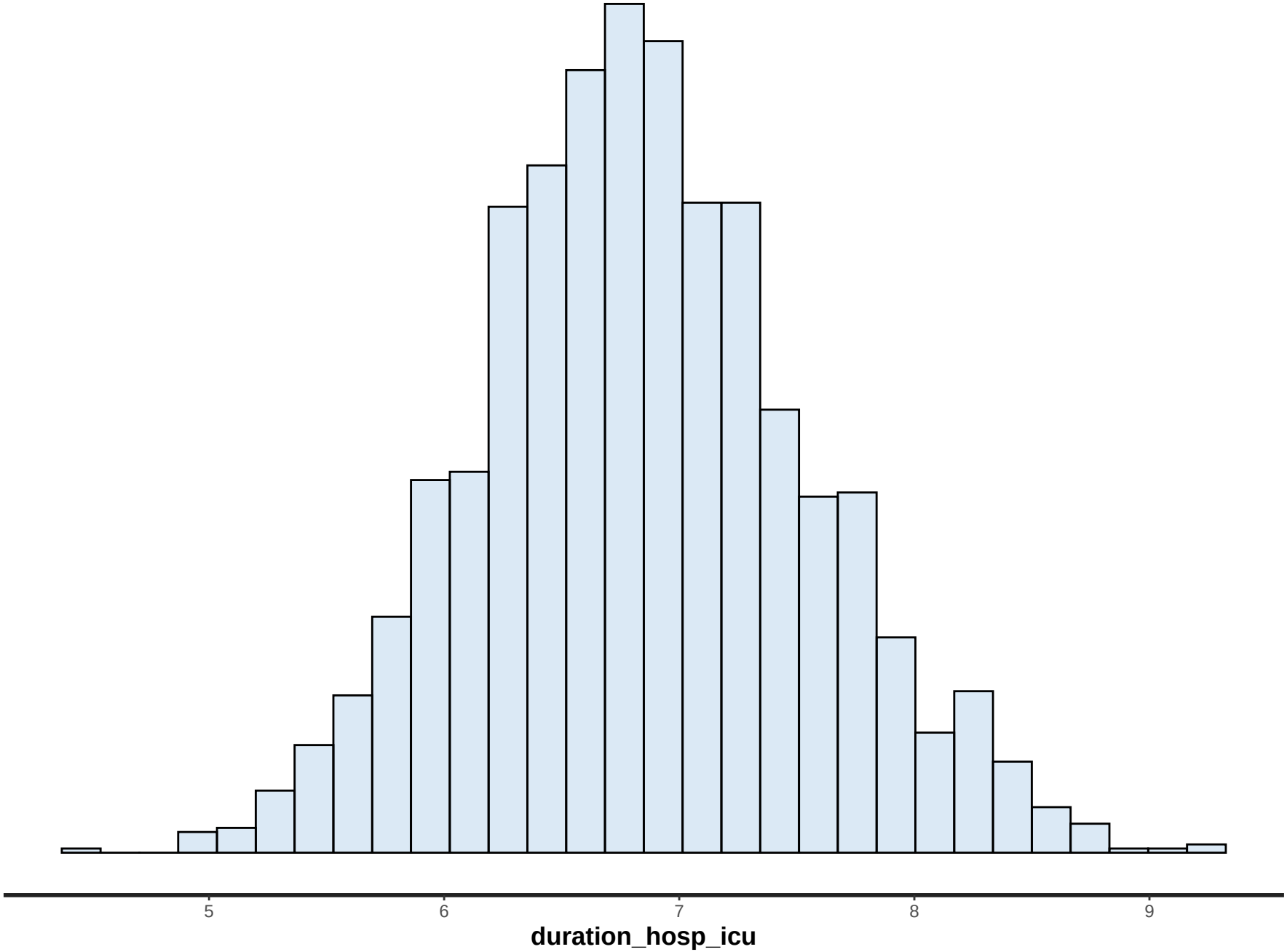

2
3
4
r0

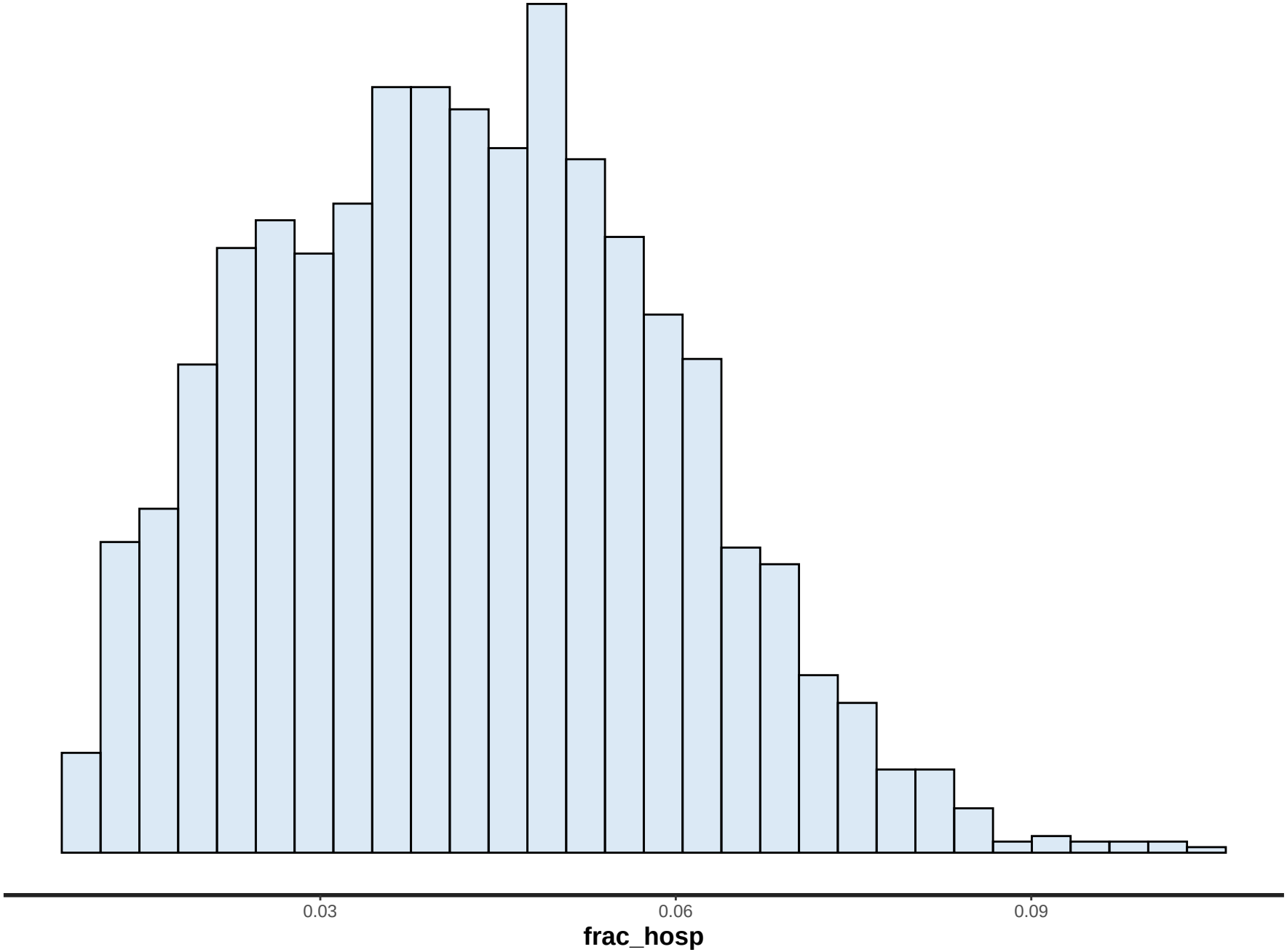

2
4
6
duration_latent


4
6
8
duration_rec_mild


5
10
duration_pre_hosp


5
7
9
11
13
duration_hosp_mod


5
6
7
8
9
duration_hosp_icu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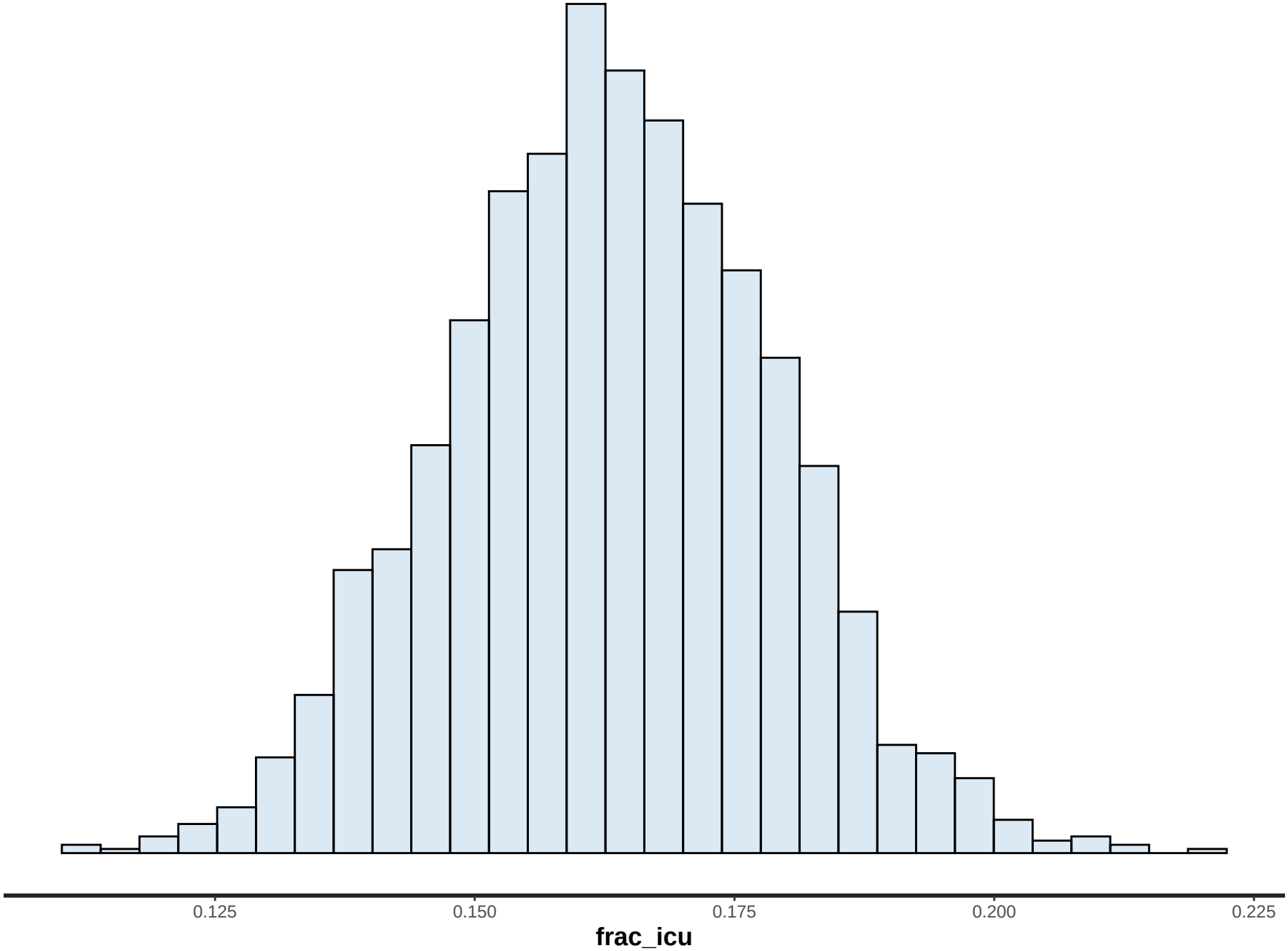
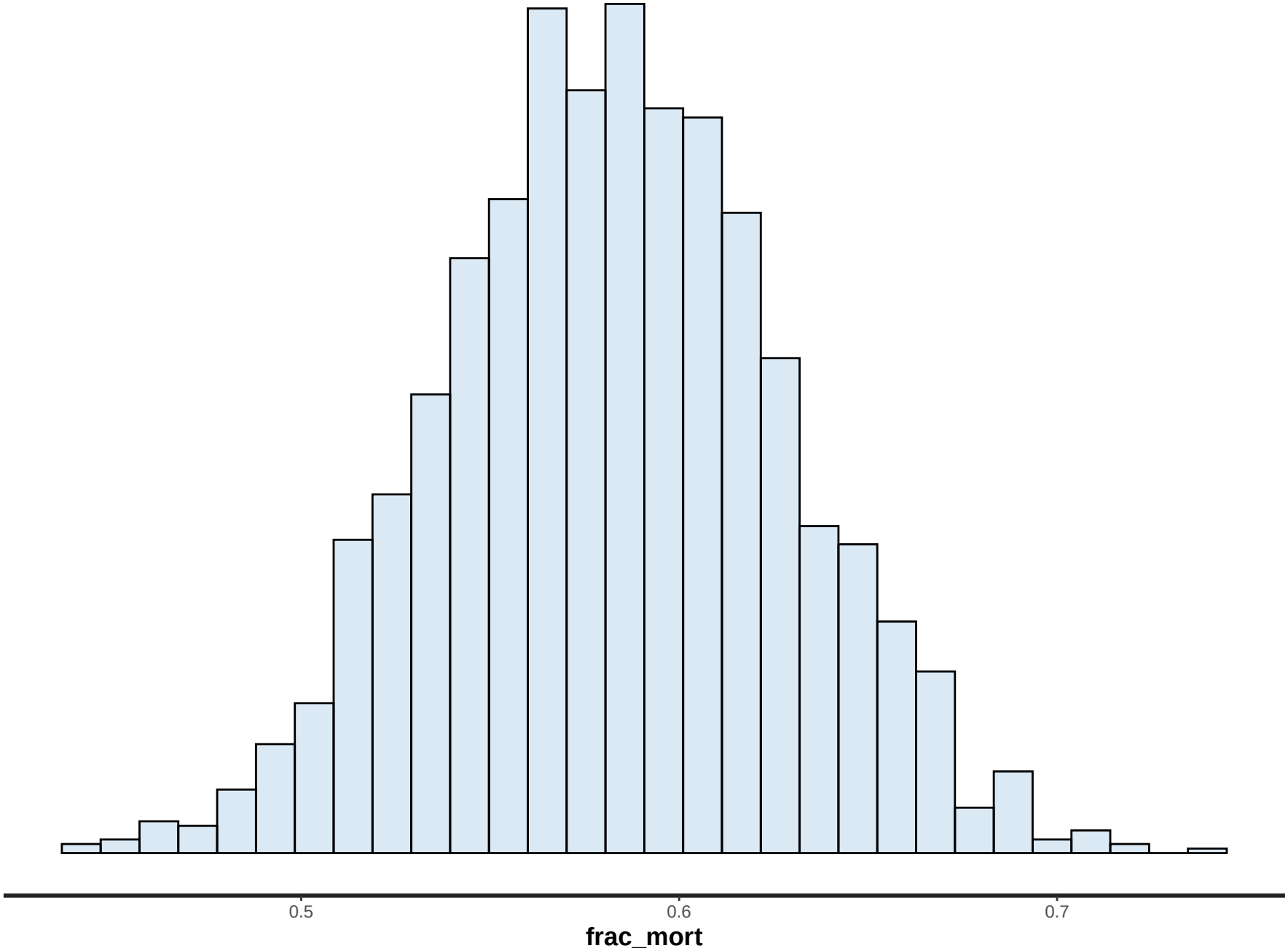
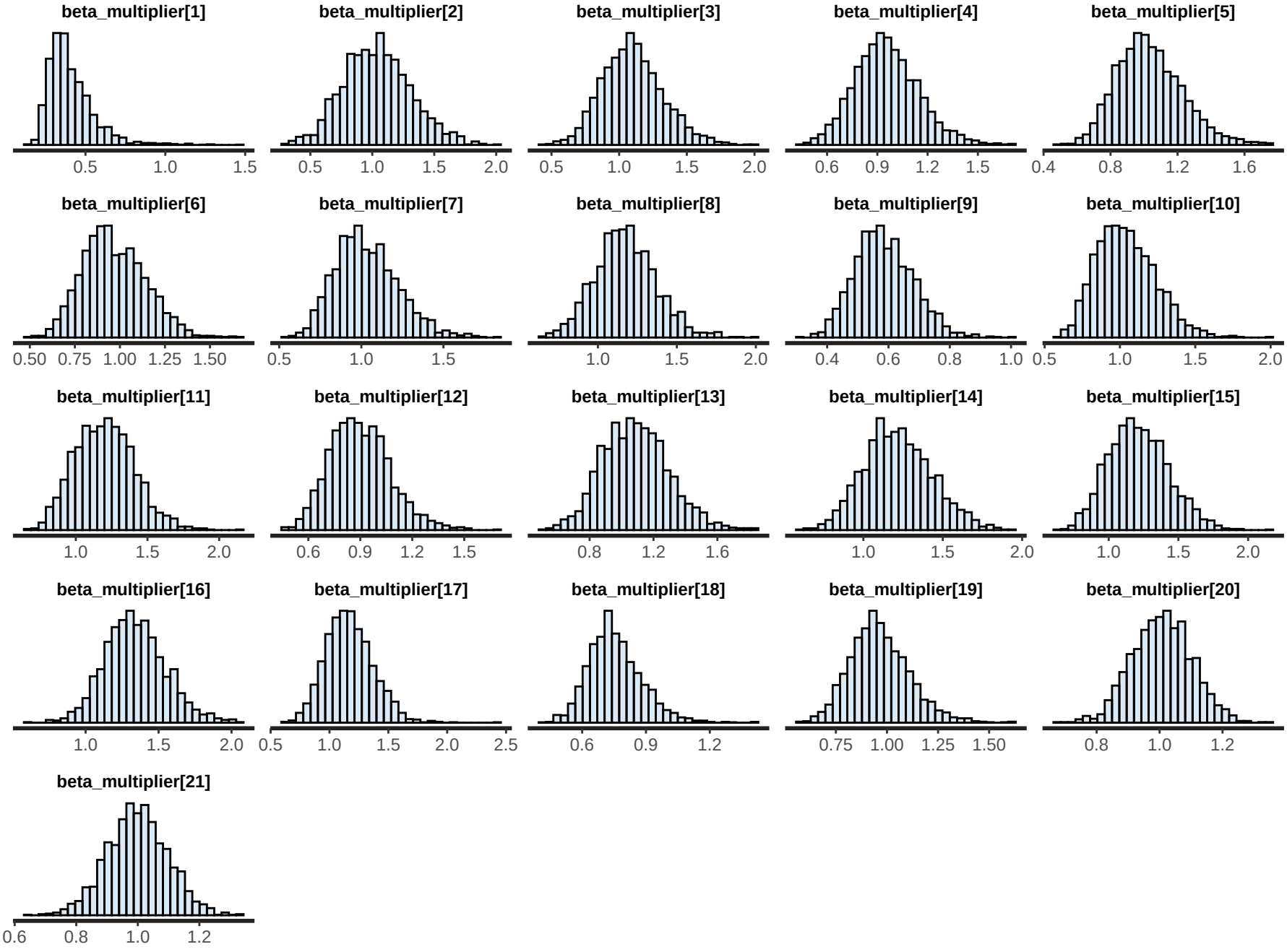
0.06
0.09
frac_hosp


0.125
0.150
0.175
0.200
0.225
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]
0.4 0.8 1.2 1.6
beta_multiplier[6]
0.50 0.75 1.00 1.25 1.50
beta_multiplier[7]
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beta_multiplier[8]
1.0 1.5 2.0
beta_multiplier[9]
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beta_multiplier[10]
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beta_multiplier[12]
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1.0 1.5 2.0
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beta_multiplier[18]
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beta_multiplier[19]
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beta_multiplier[20]
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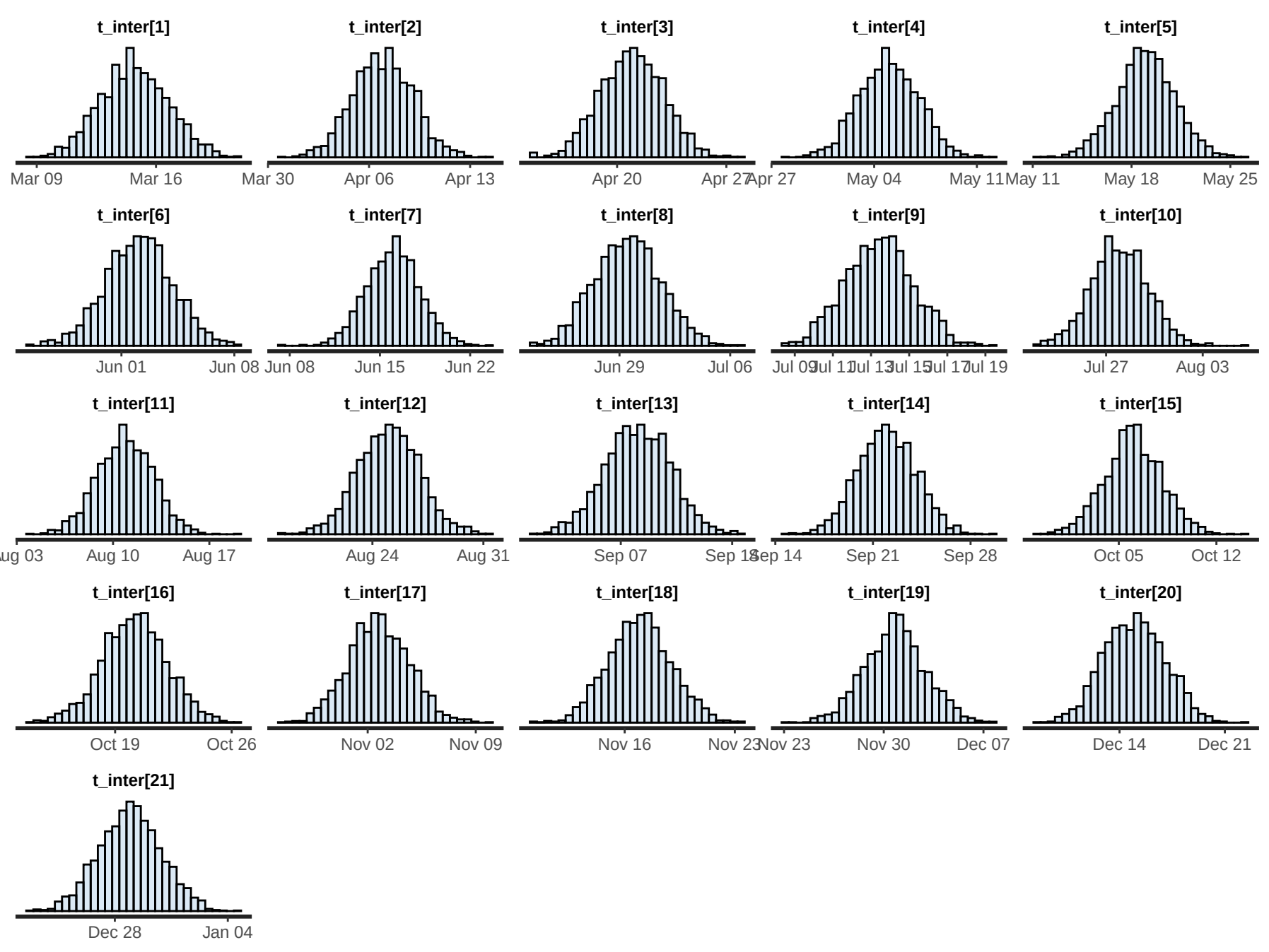
0.6 0.8 1.0 1.2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May 25
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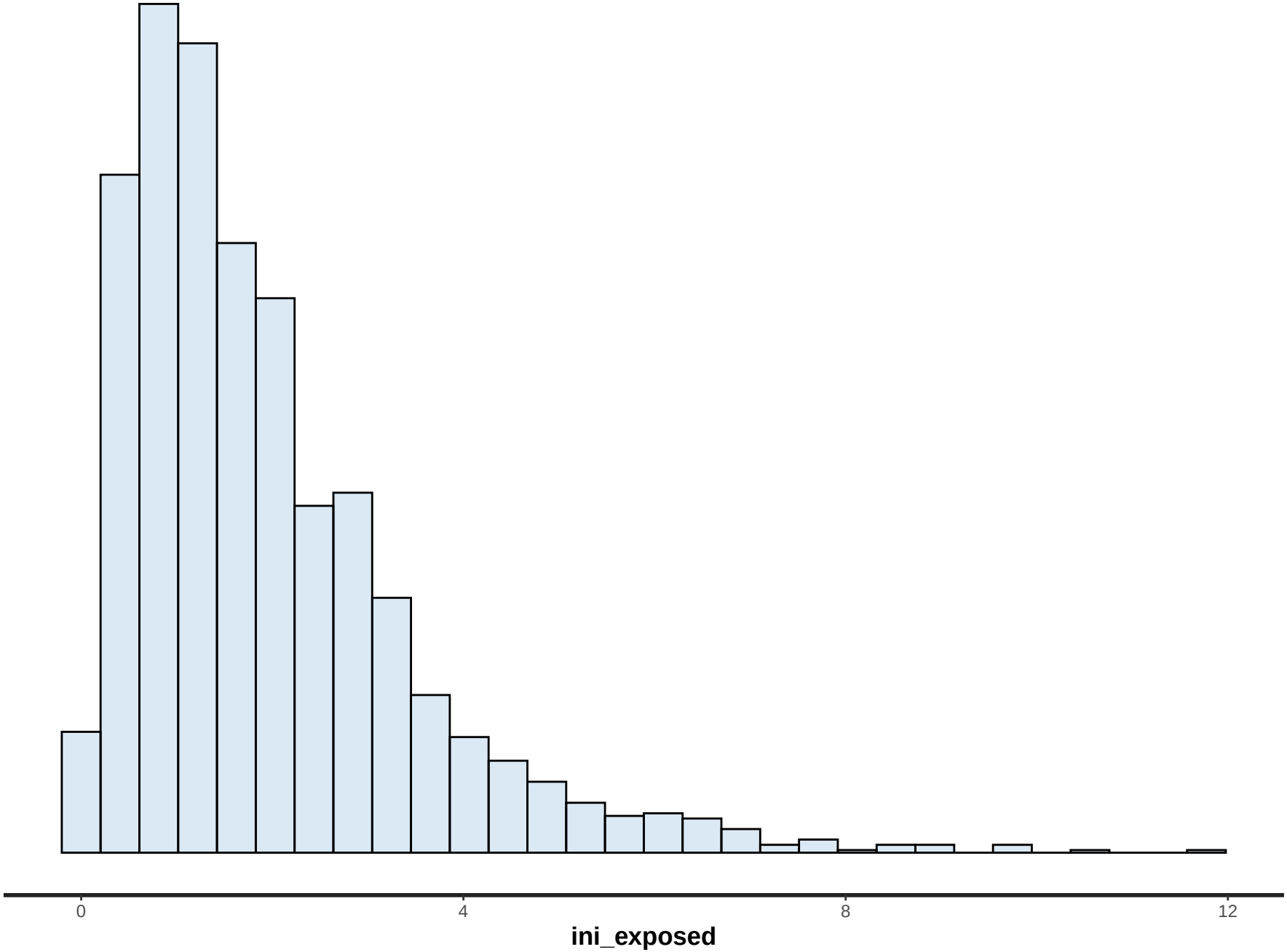
Dec 28
Jan 04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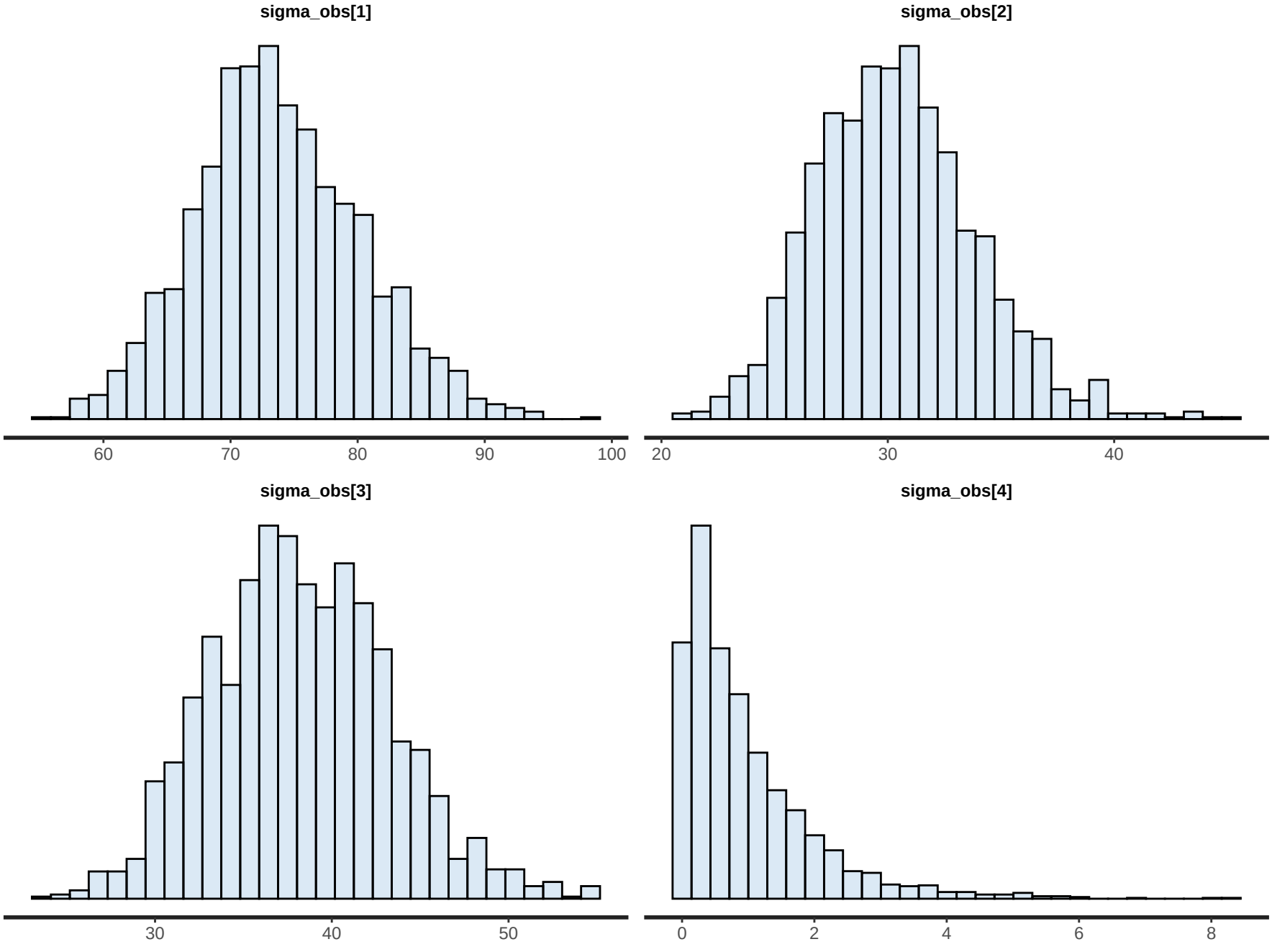
4
8
12
ini_exposed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4
6
8