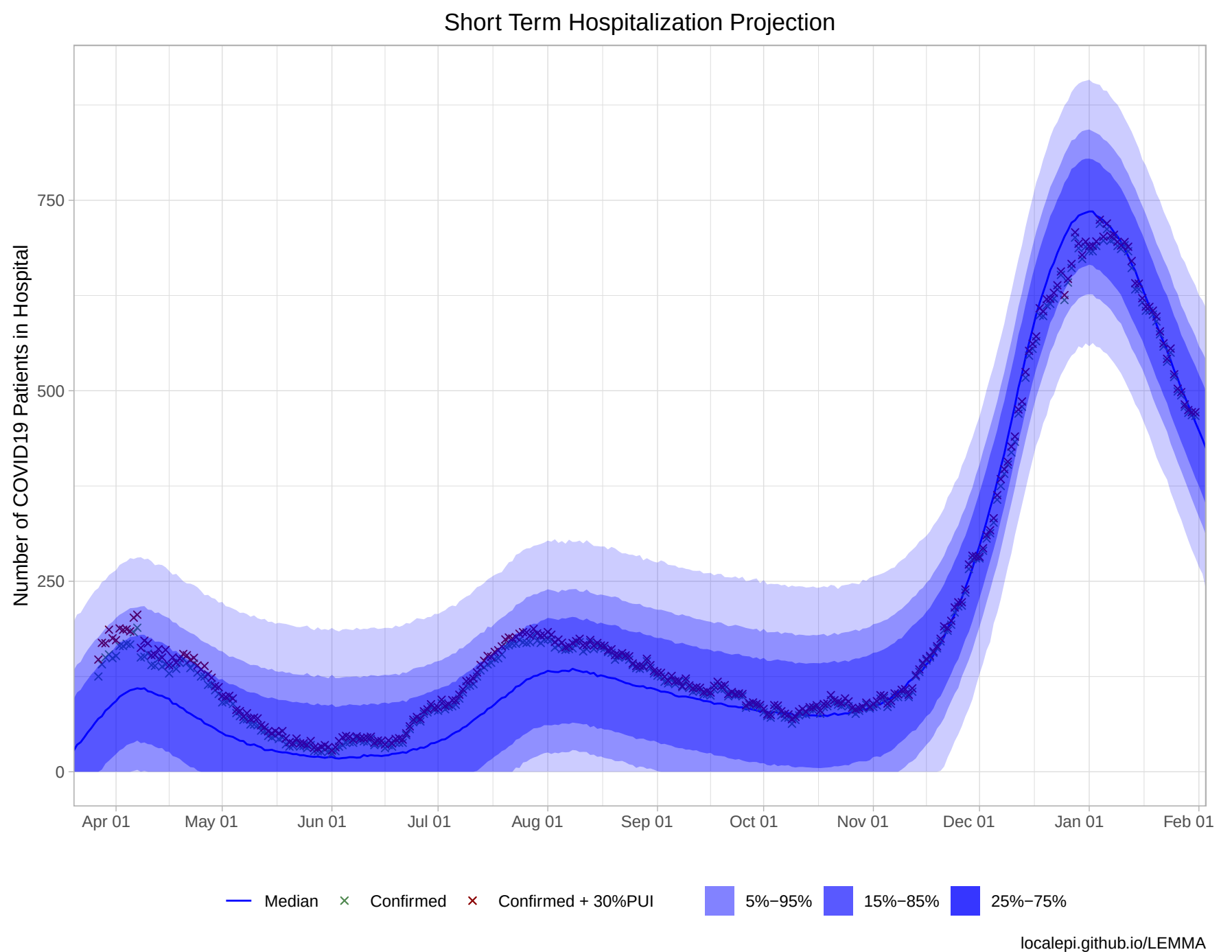
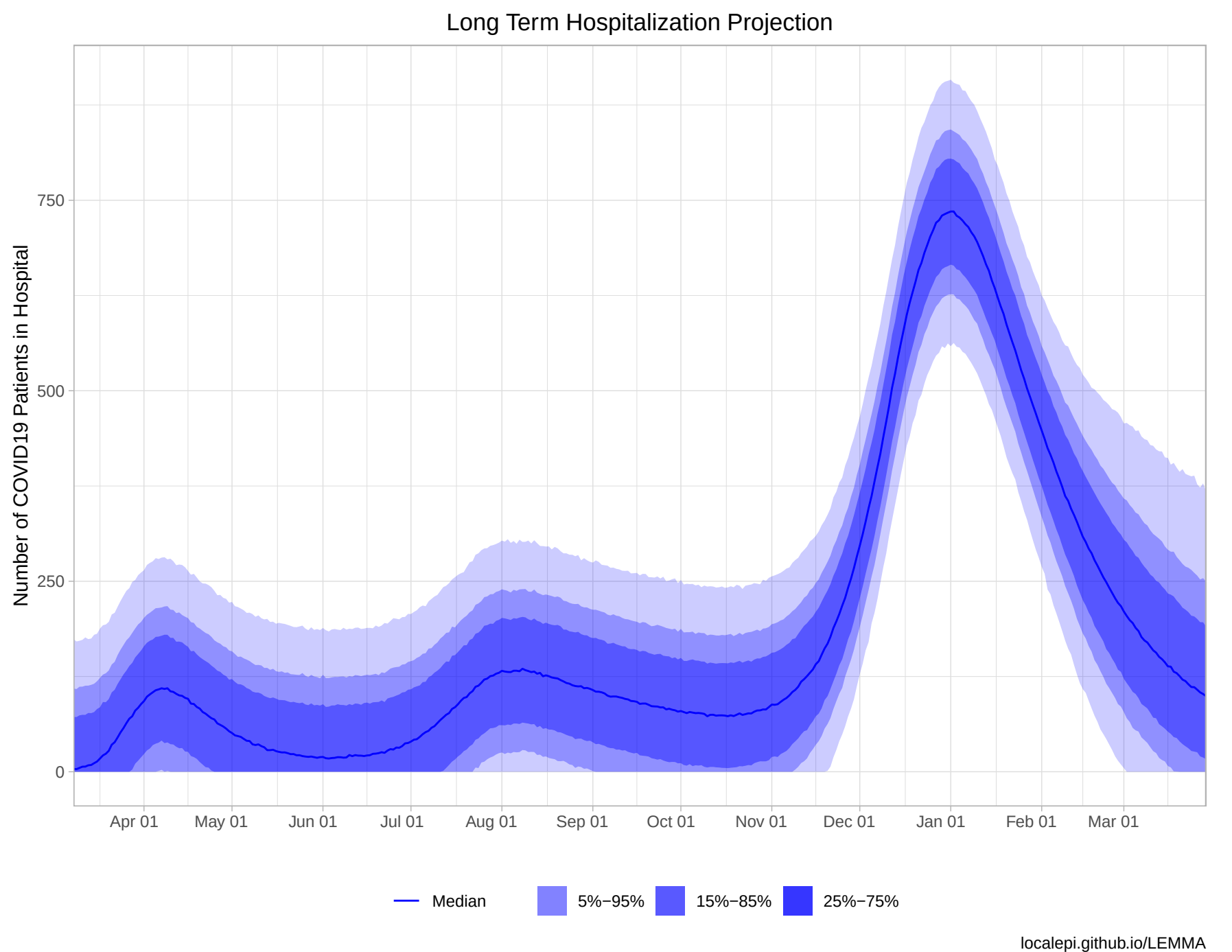
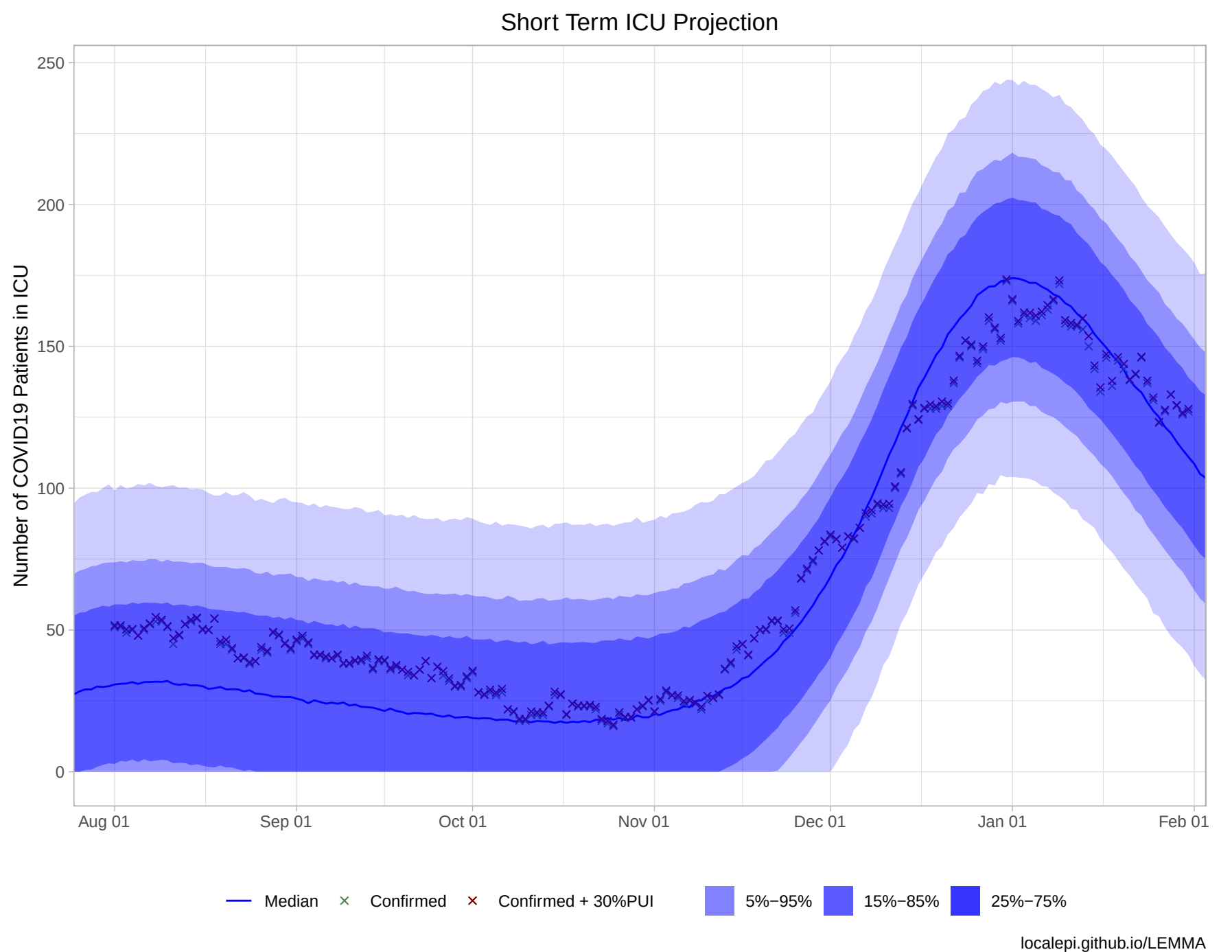
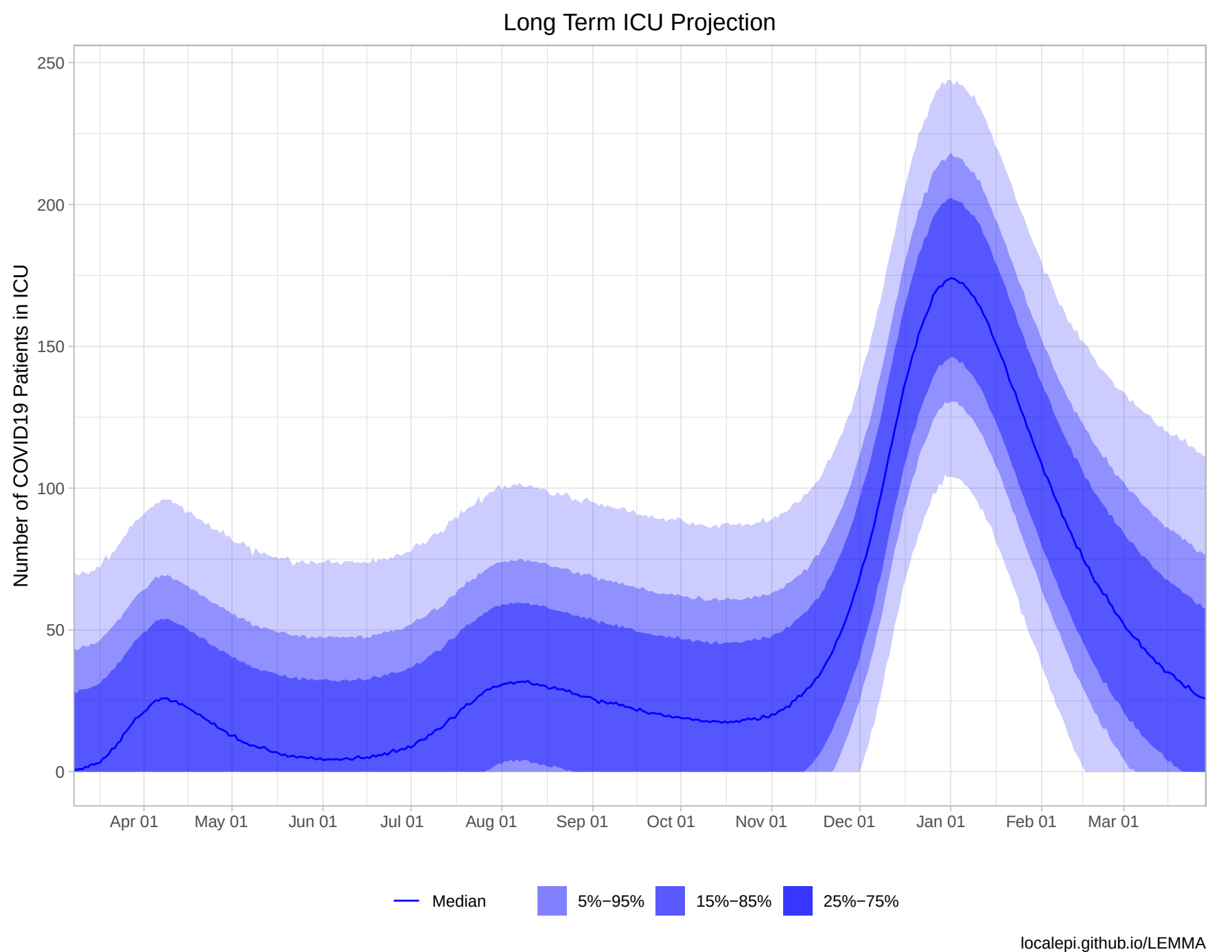
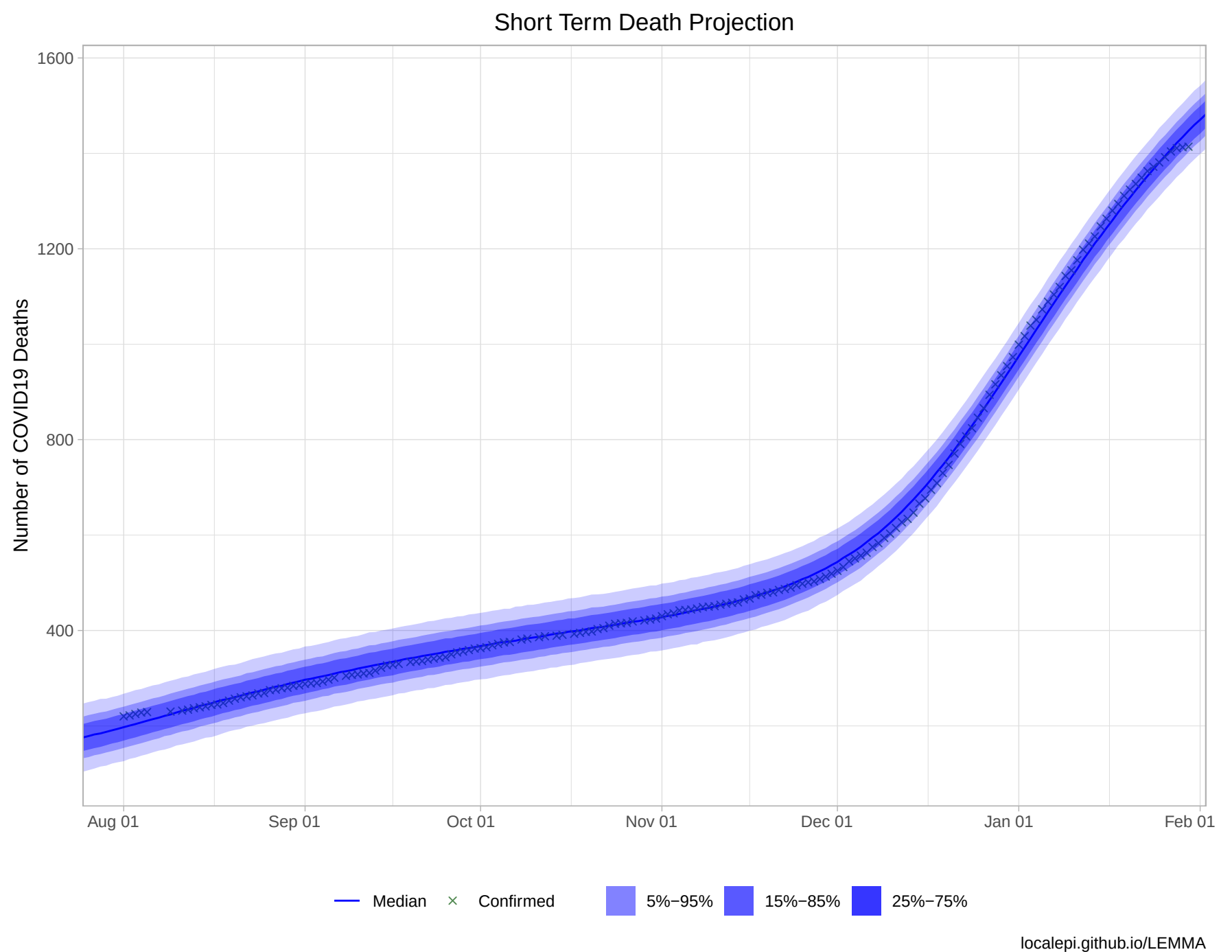
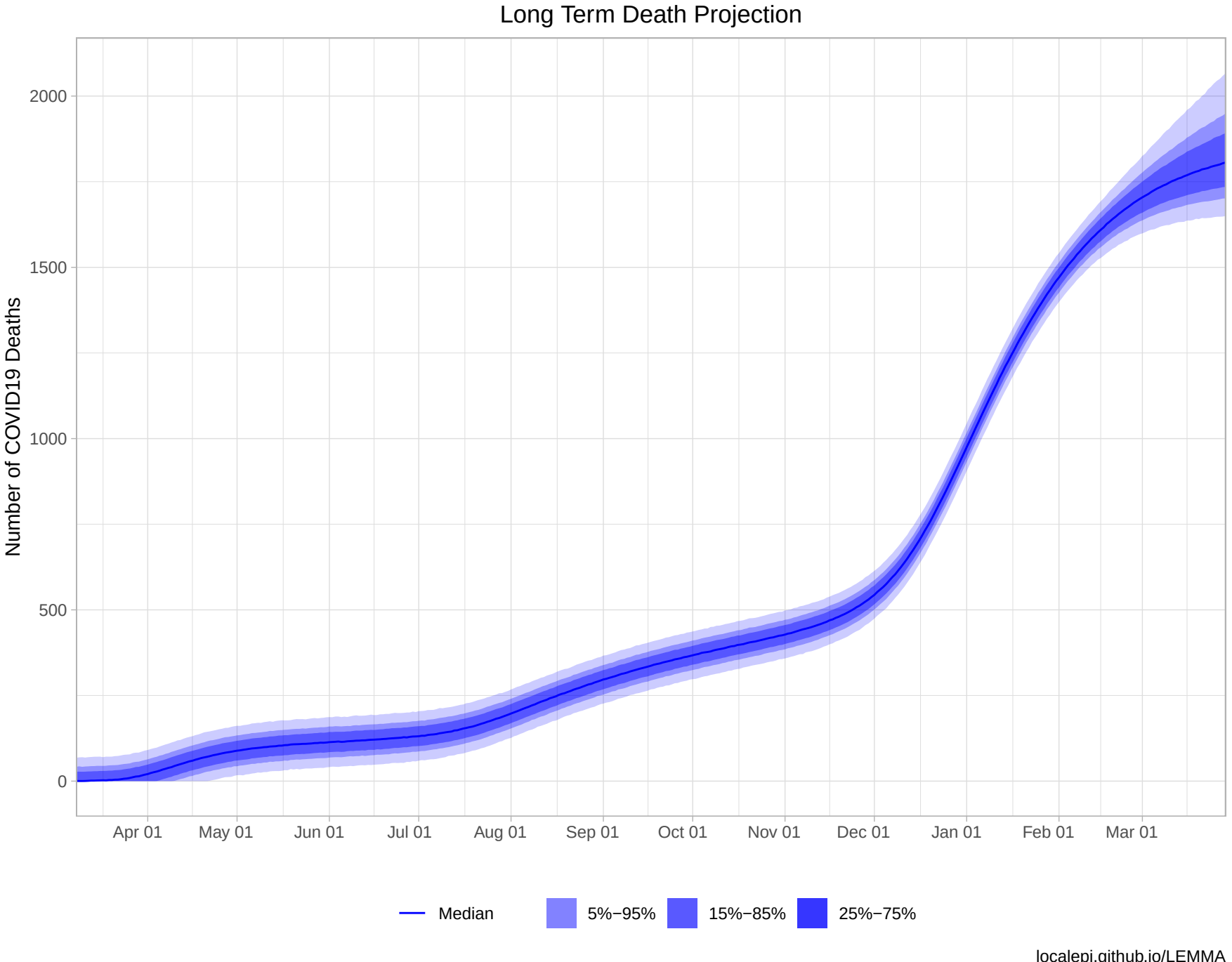

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
250
500
750
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

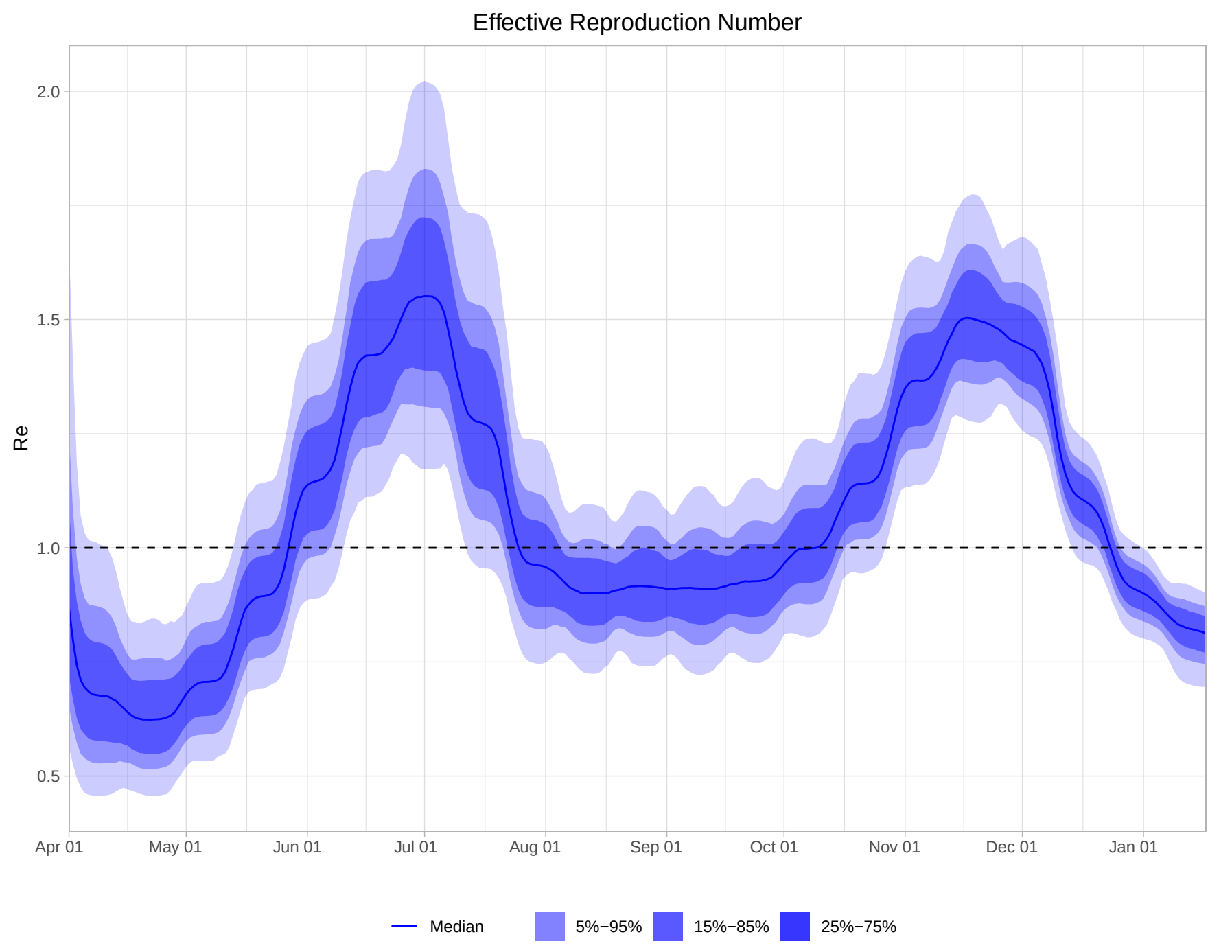

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
750
500
250
0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


Short Term ICU Projection
Number of COVID19 Patients in ICU
250
200
150
100
50
0
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 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
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

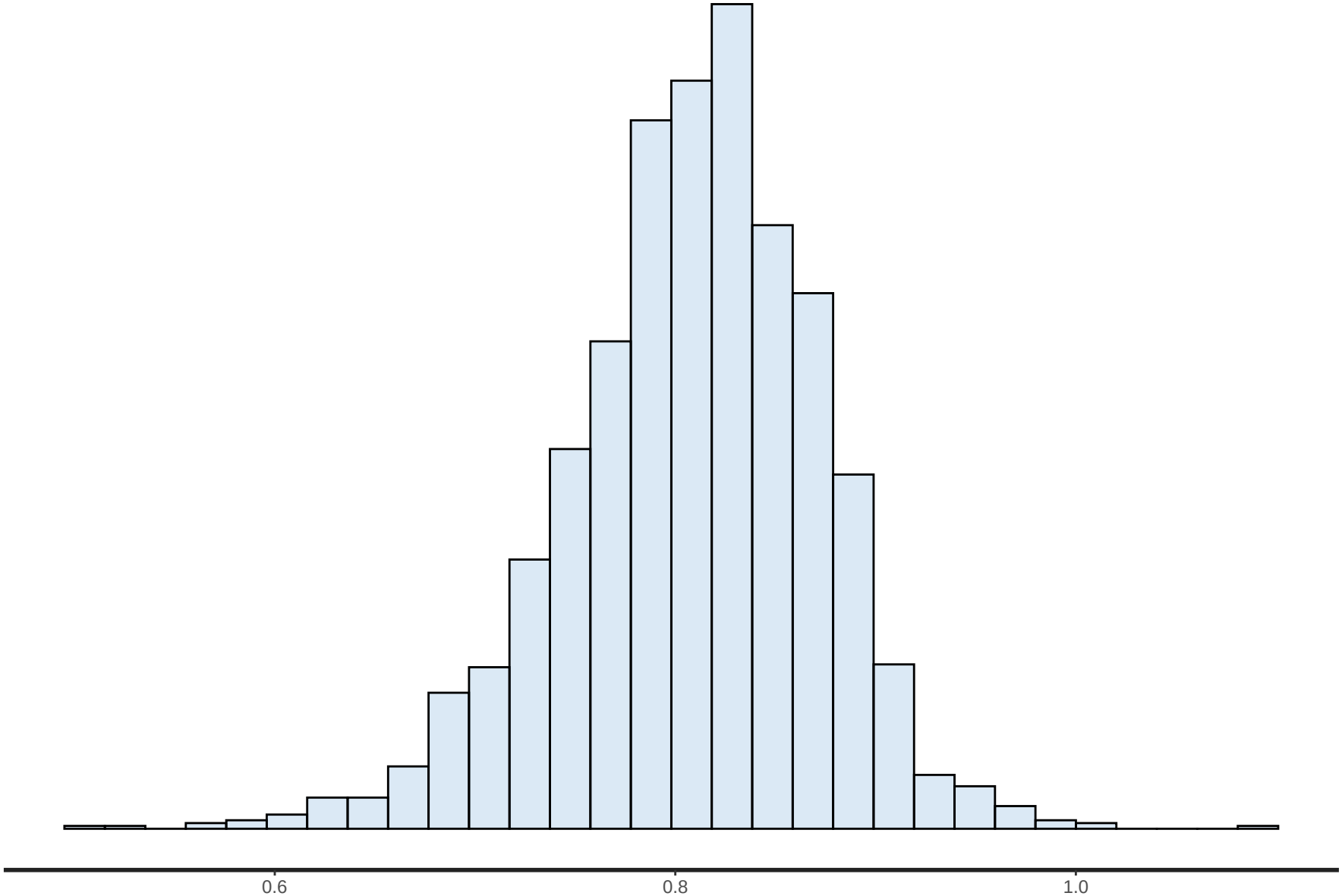

Short Term Death Projection
Number of COVID19 Deaths
1600
1200
800
400
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

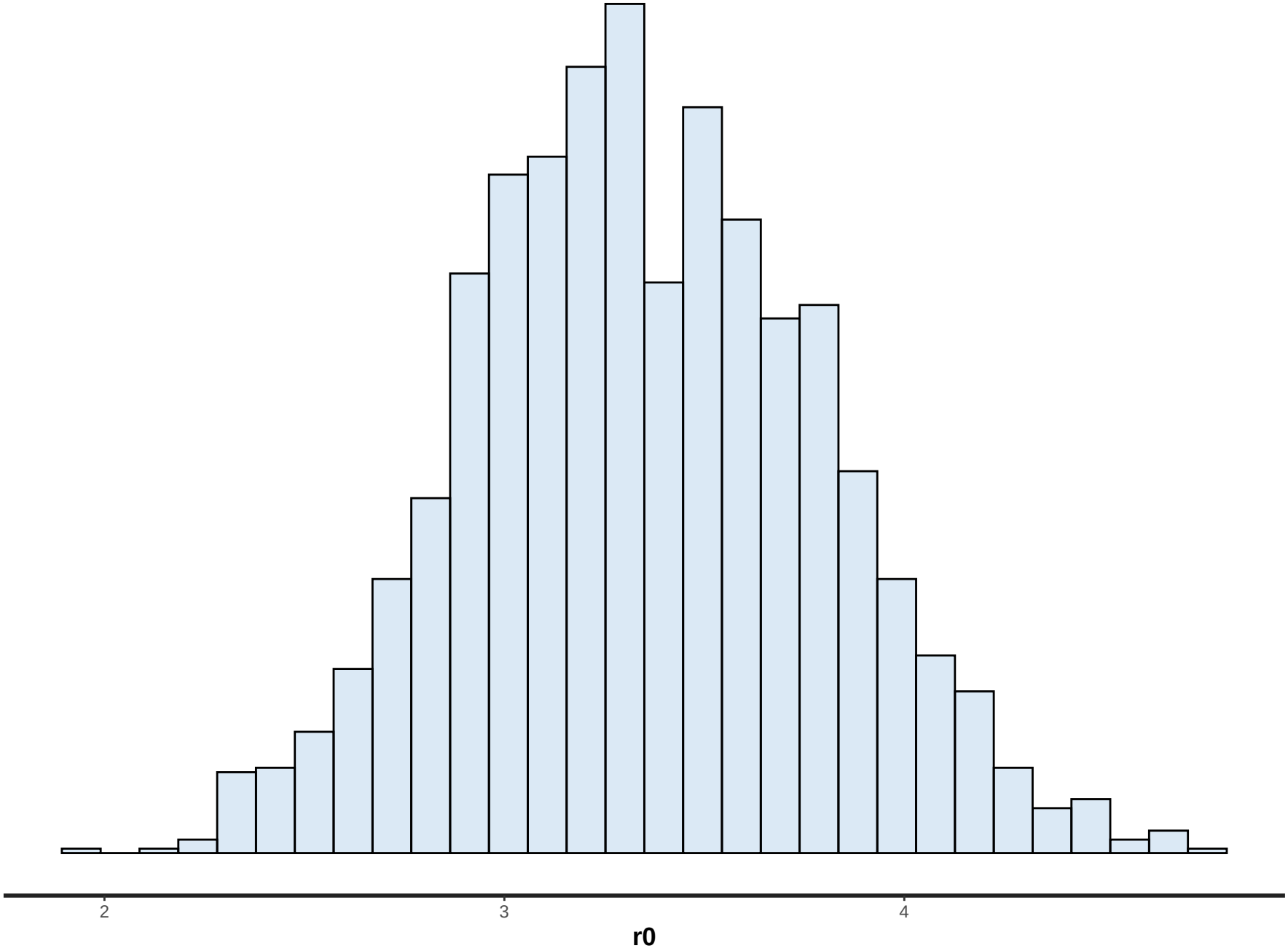

Long Term Death Projection
Number of COVID19 Deaths
2000
1500
1000
500
0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

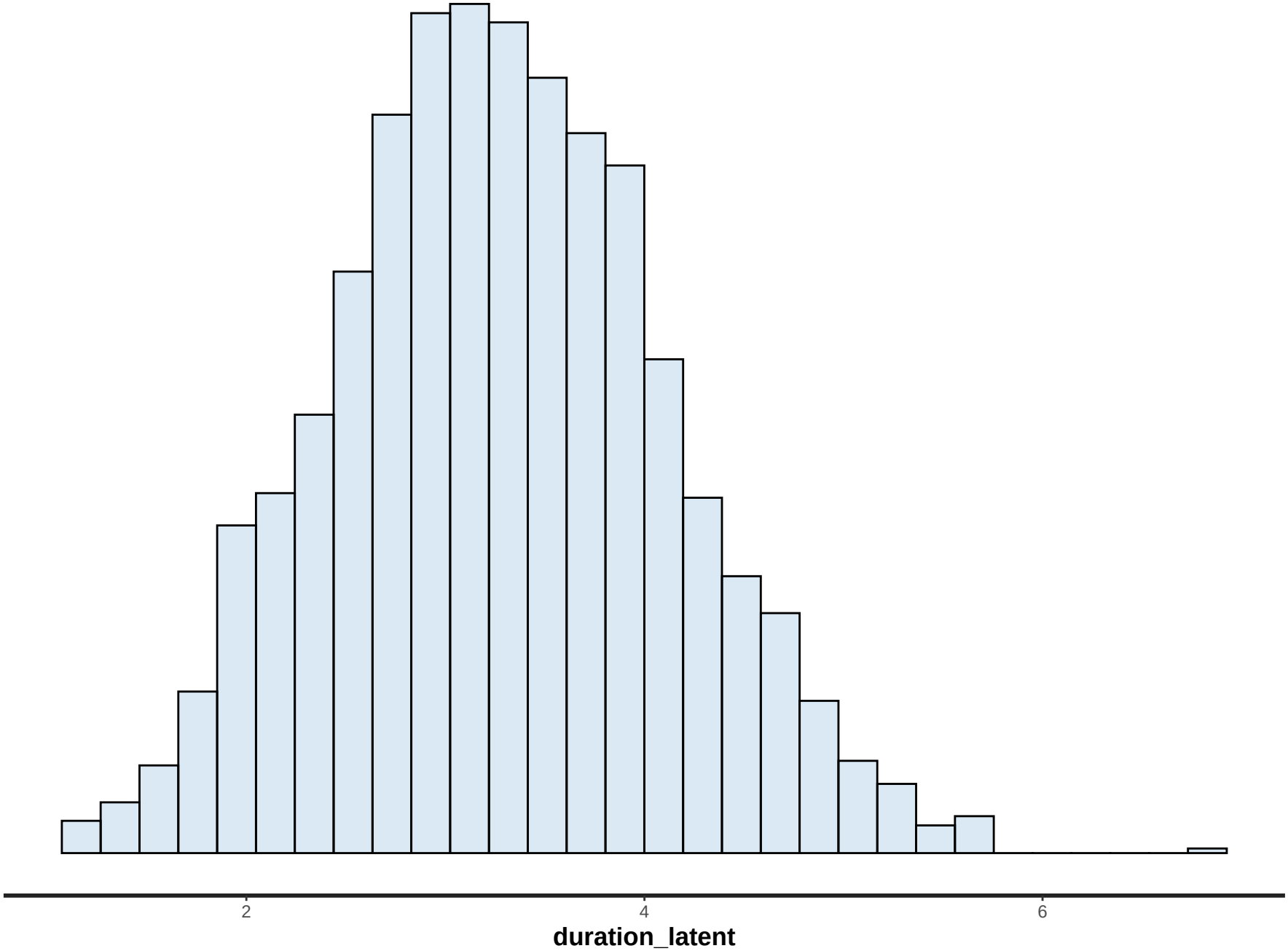

Effective Reproduction Number
Re
2.0
1.5
1.0
0.5
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Median
5%−95%
15%−85%
25%−75%

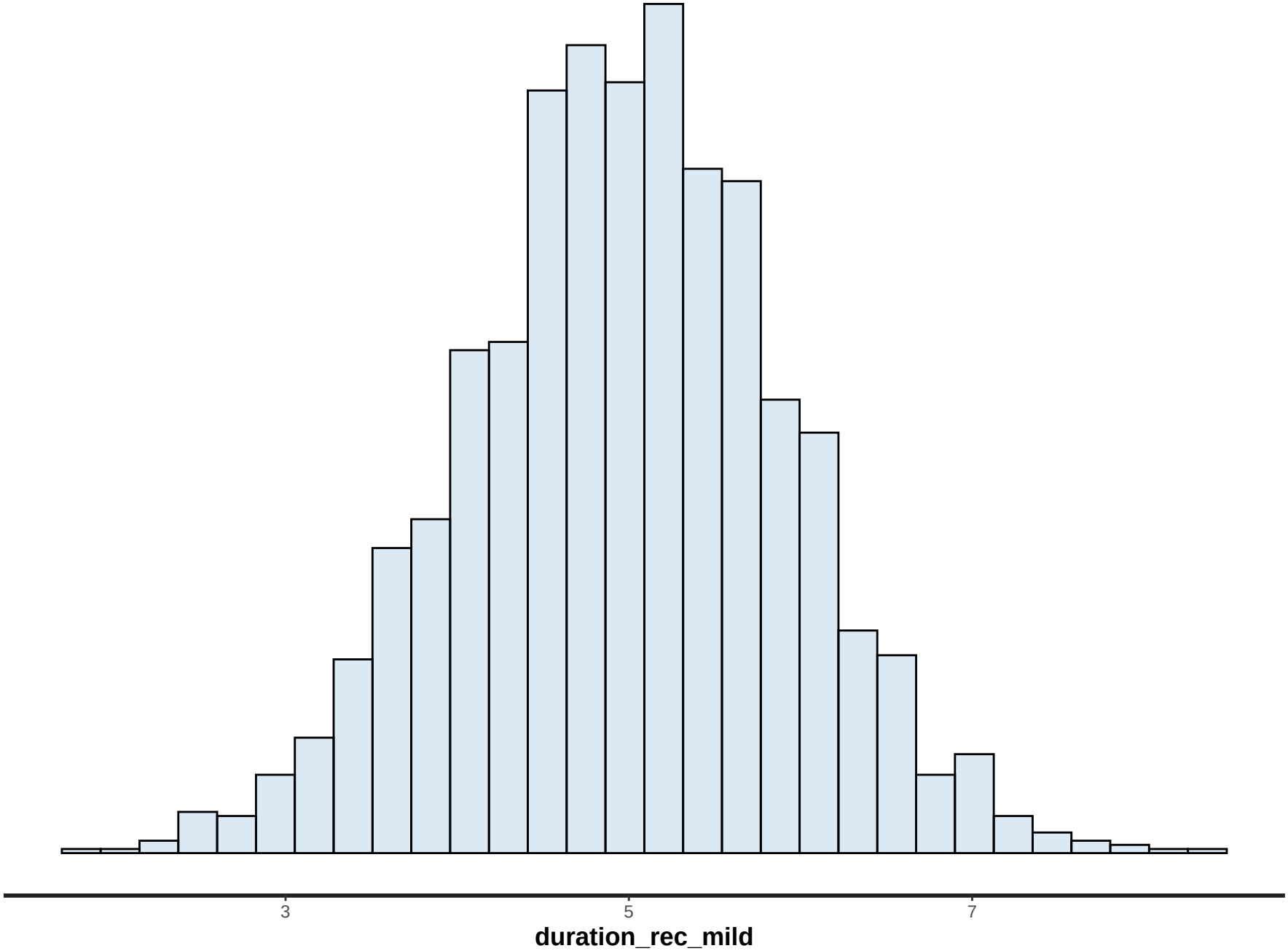
Rt as of 2021−01−17

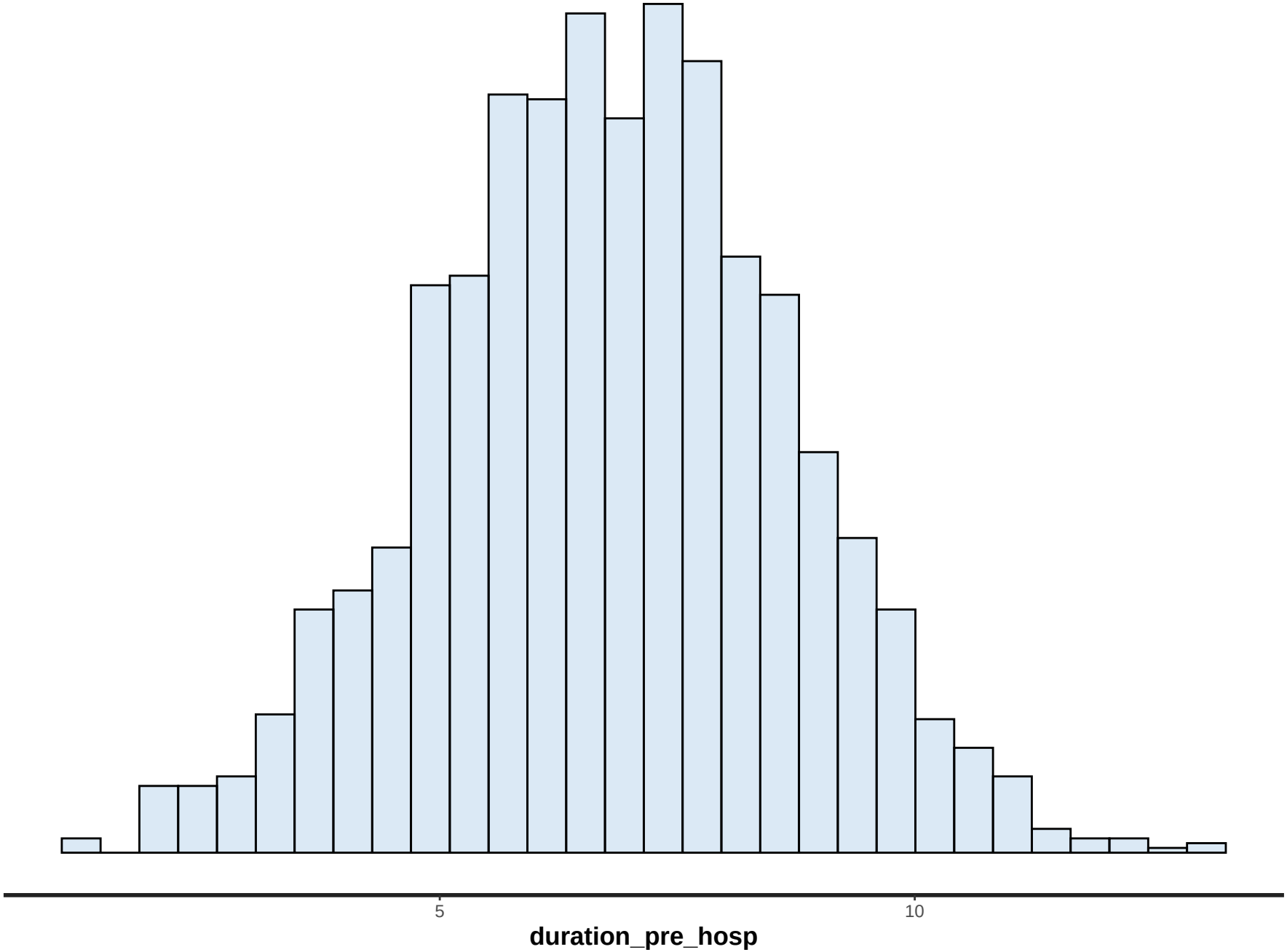
5%	10%	25%	50%	75%	90%	95%
0.70	0.73	0.77	0.81	0.85	0.88	0.90

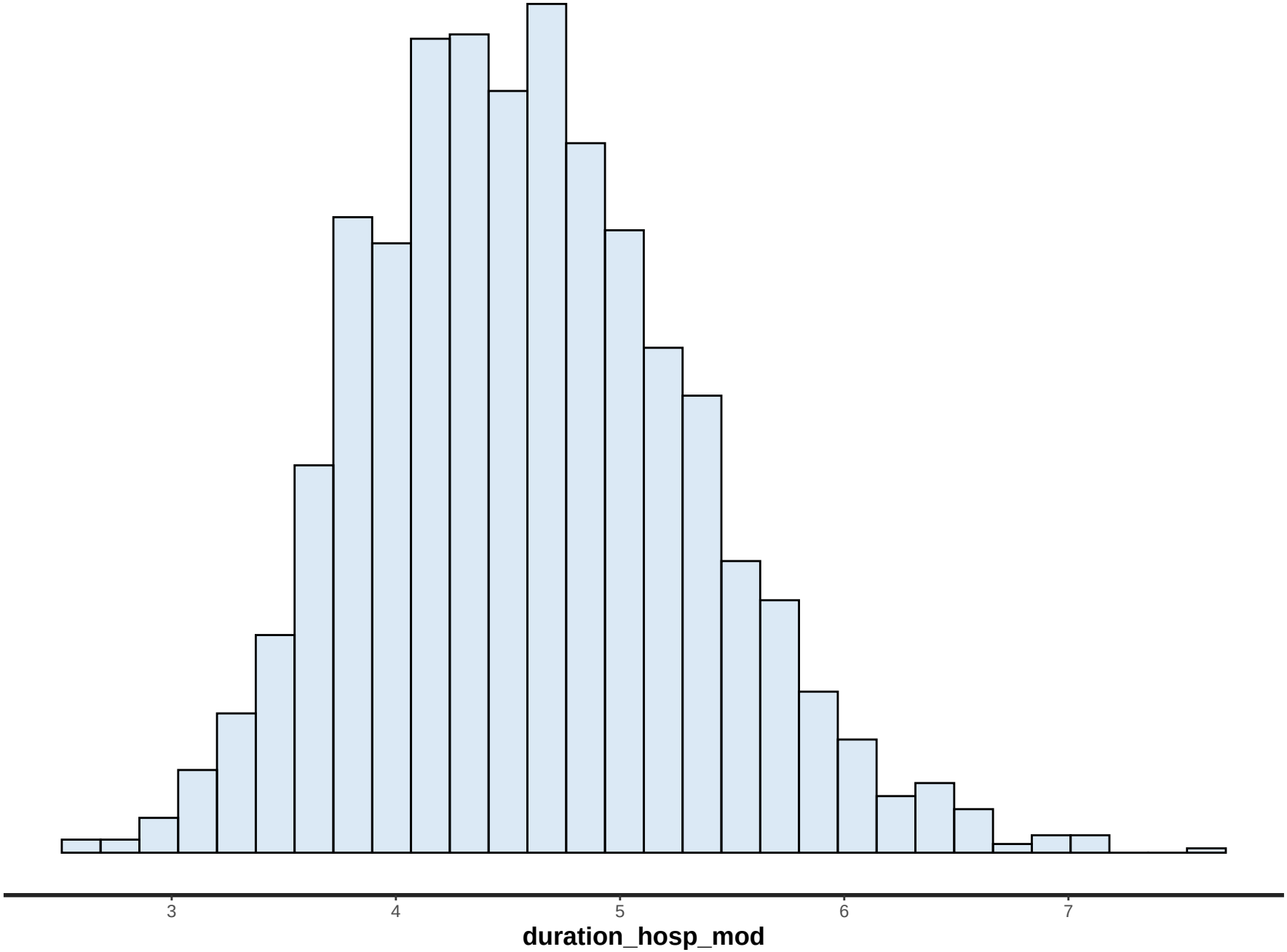


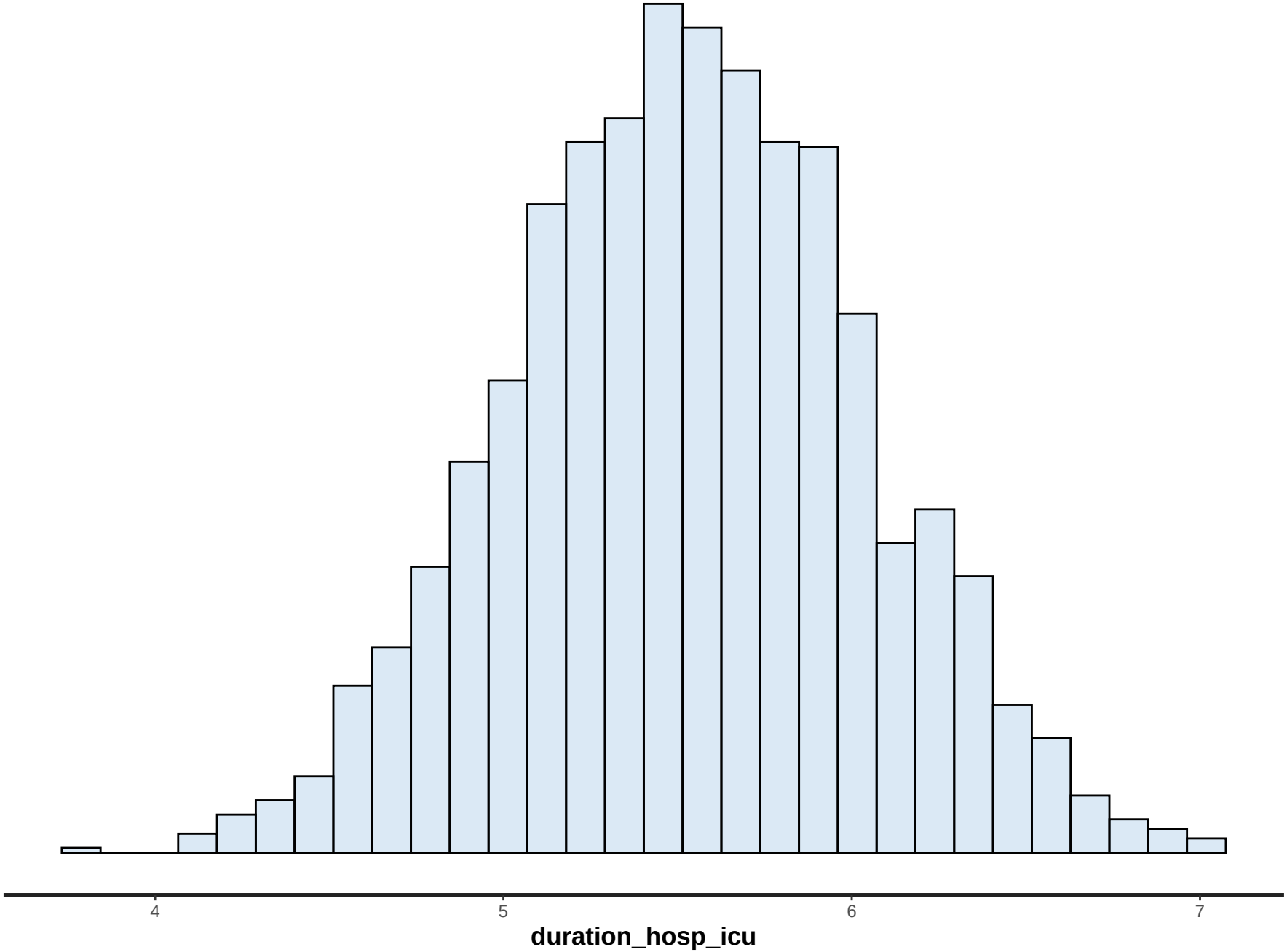

2
3
4
r0

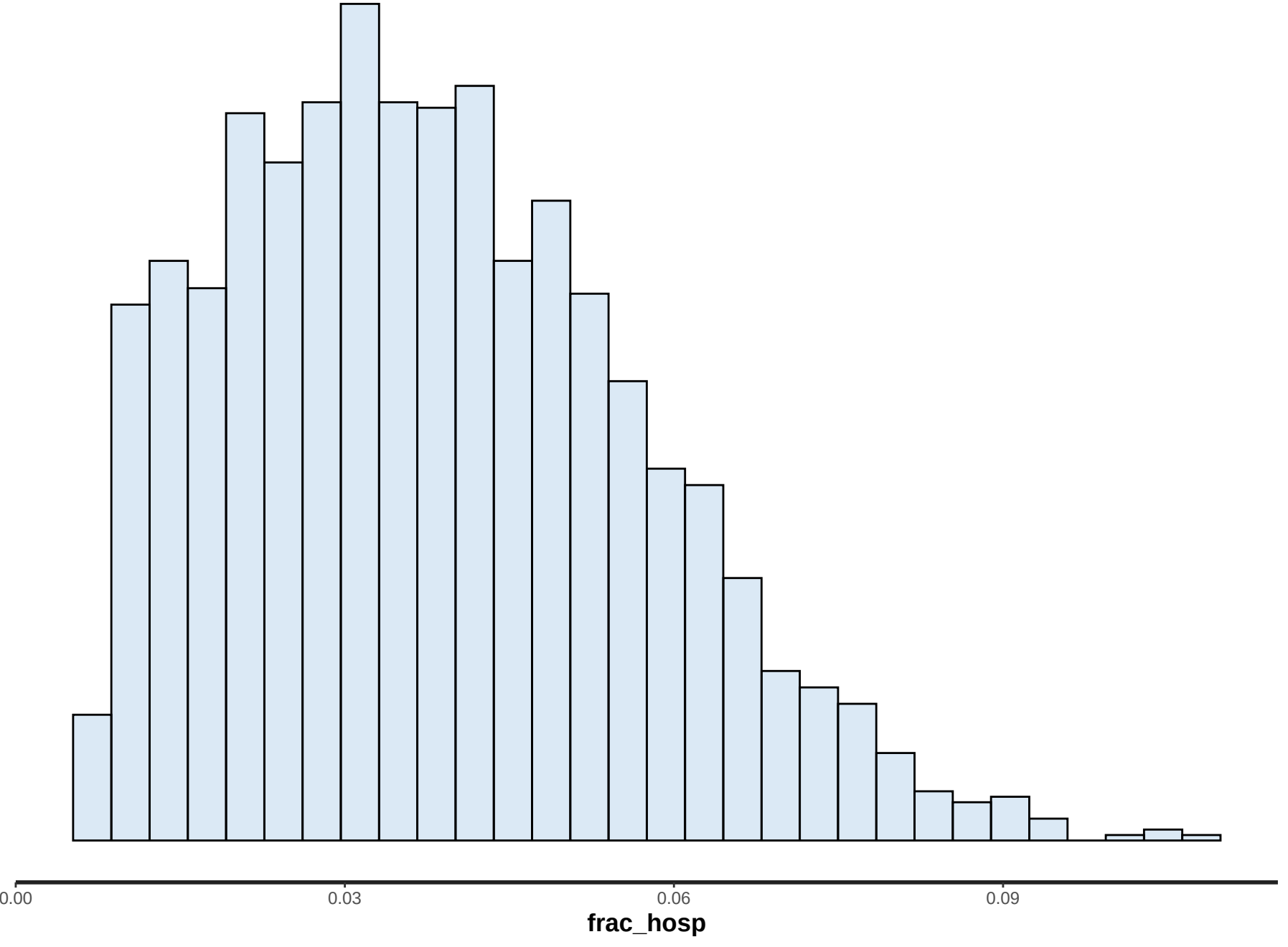

2
4
6
duration_latent


3
5
7
duration_rec_mild


5
10
duration_pre_hosp


3
4
5
6
7
duration_hosp_mod


4
5
6
7
duration_hosp_icu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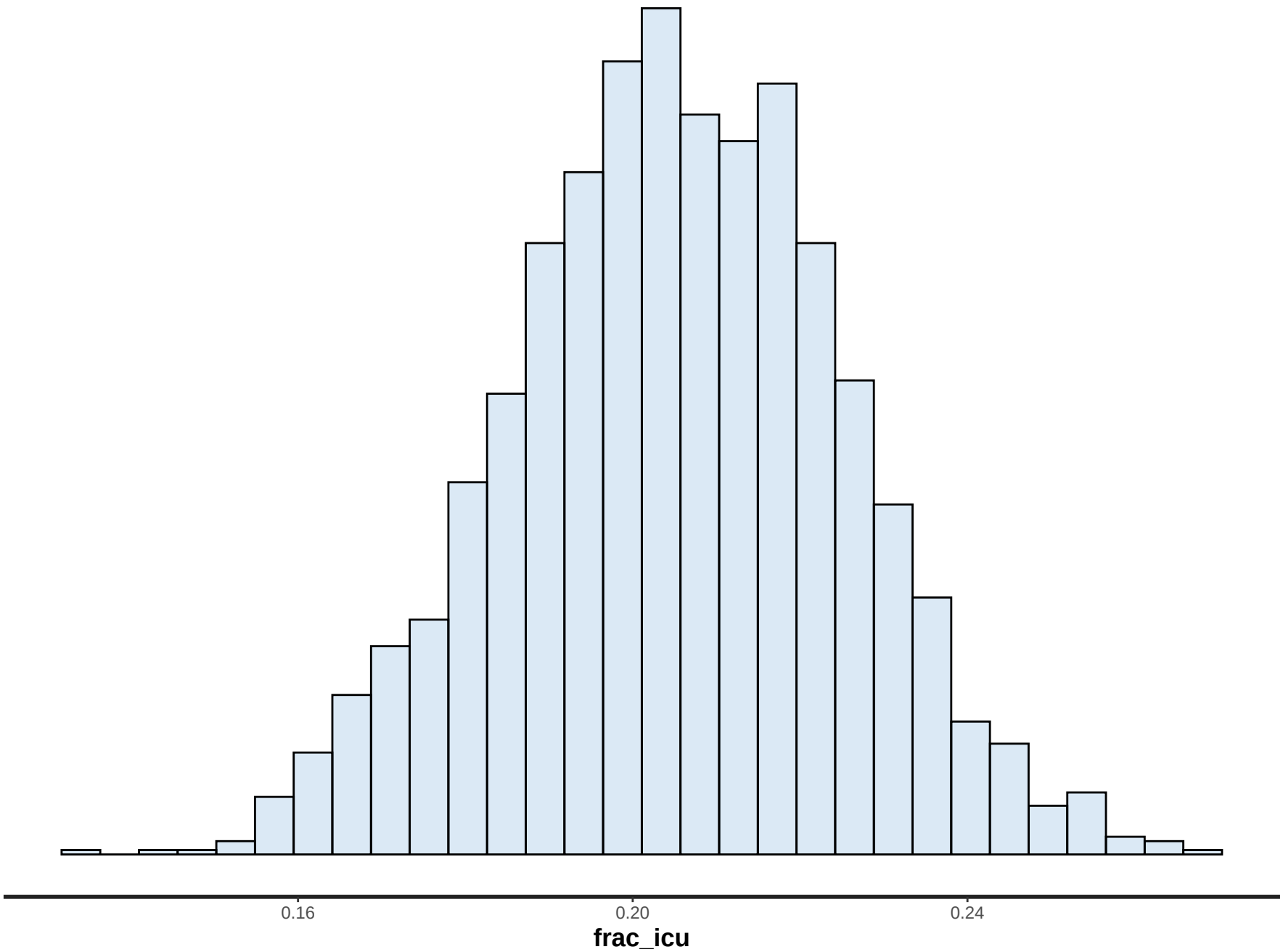
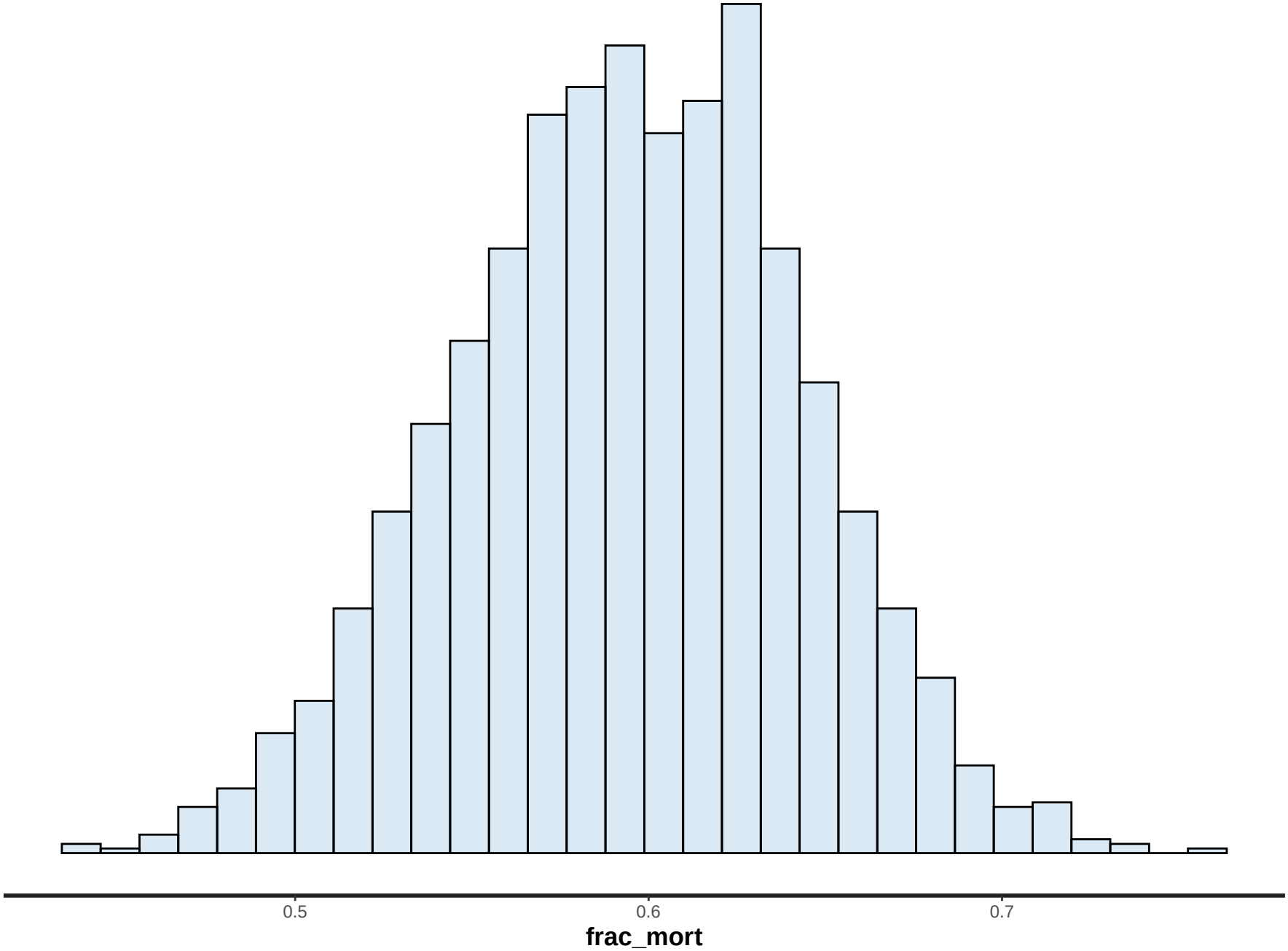
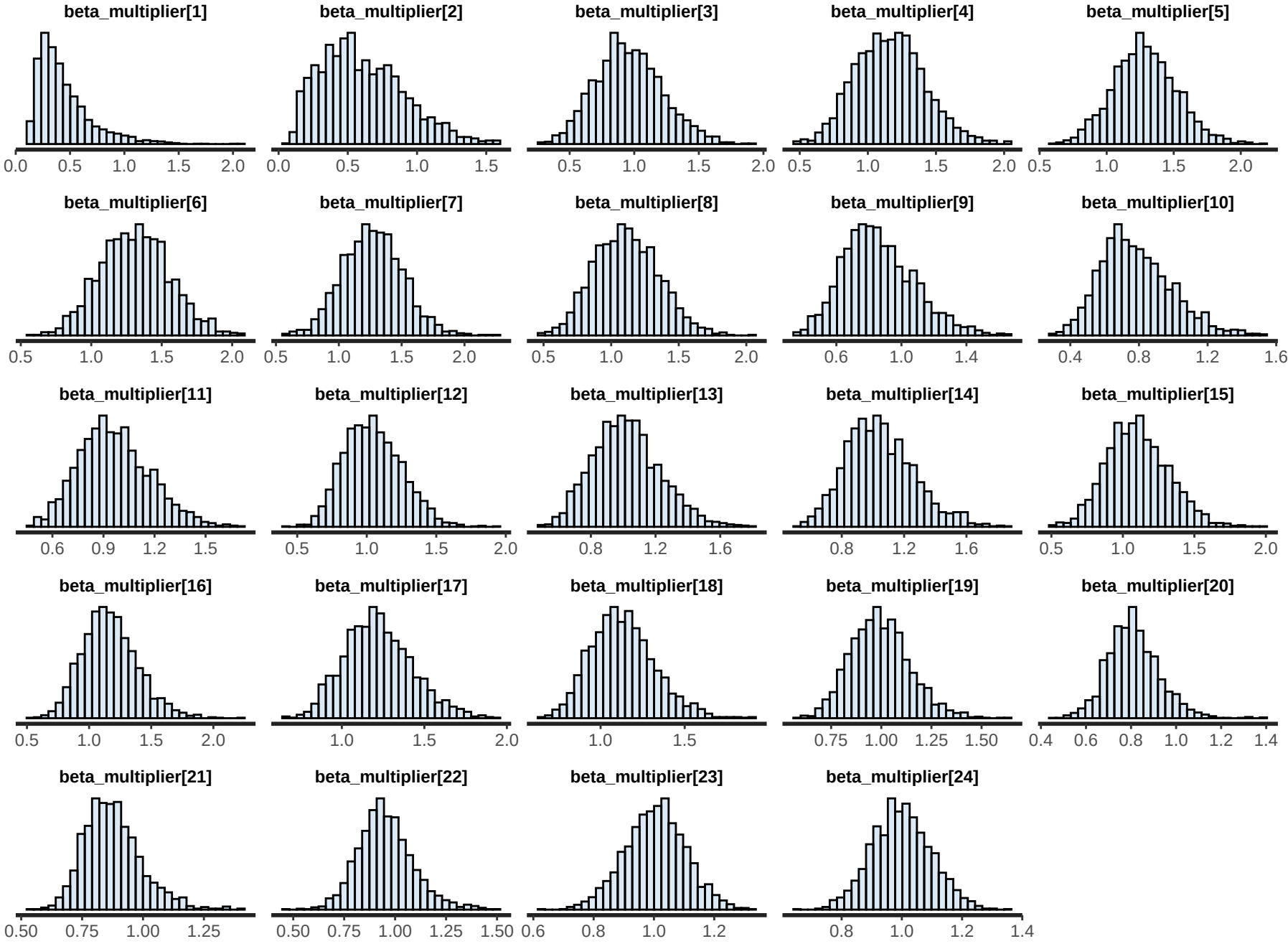
0.03
0.06
0.09
frac_hosp


0.16
0.20
0.24
frac_icu


0.5
0.6
0.7
frac_mort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beta_multiplier[4]
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beta_multiplier[5]
0.5 1.0 1.5 2.0
beta_multiplier[6]
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beta_multiplier[7]
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beta_multiplier[8]
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beta_multiplier[9]
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beta_multiplier[10]
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beta_multiplier[11]
0.6 0.9 1.2 1.5
beta_multiplier[12]
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0.8 1.2 1.6
beta_multiplier[15]
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beta_multiplier[16]
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beta_multiplier[17]
1.0 1.5 2.0
beta_multiplier[18]
1.0 1.5
beta_multiplier[19]
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beta_multiplier[20]
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beta_multiplier[21]
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beta_multiplier[22]
0.50 0.75 1.00 1.25 1.50
beta_multiplier[23]
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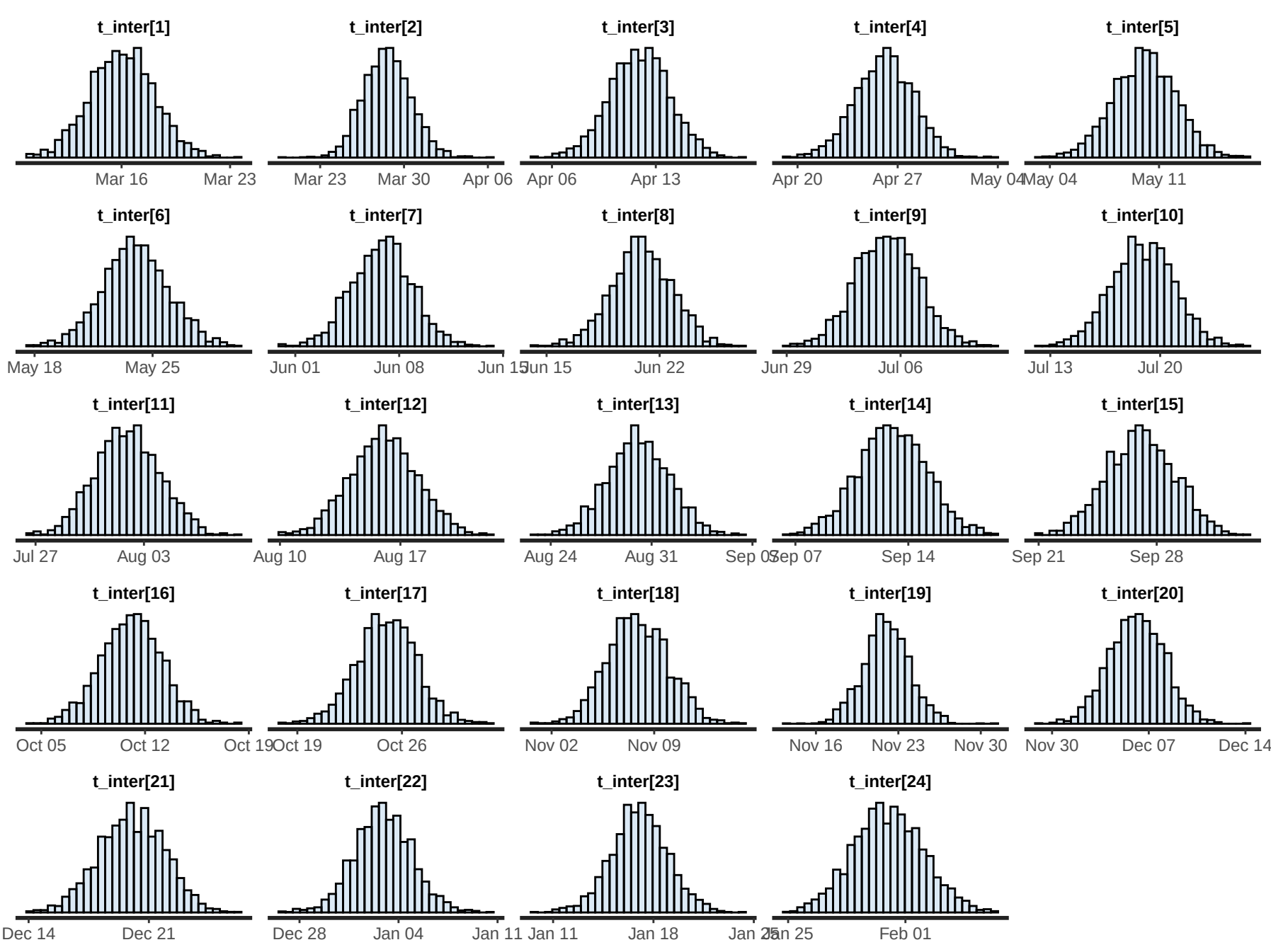
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Mar 16
Mar 23
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Mar 23
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Apr 13
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Apr 20
Apr 27
May 04
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May 04
May 11
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May 18
May 25
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Jun 22
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Jul 06
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Nov 09
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Jan 11
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Jan 11
Jan 18
Jan 25
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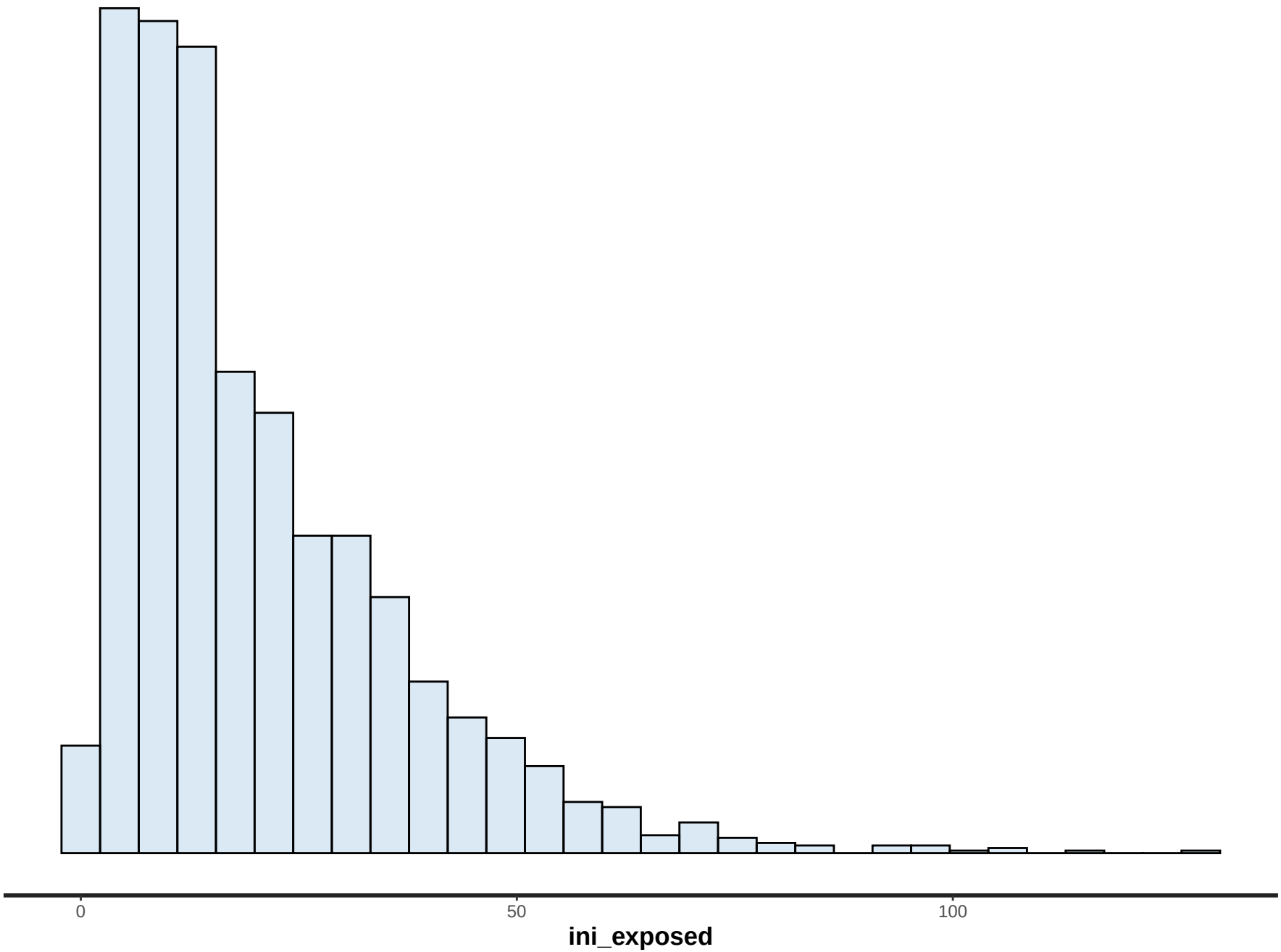
Jan 25
Feb 01


0
50
100
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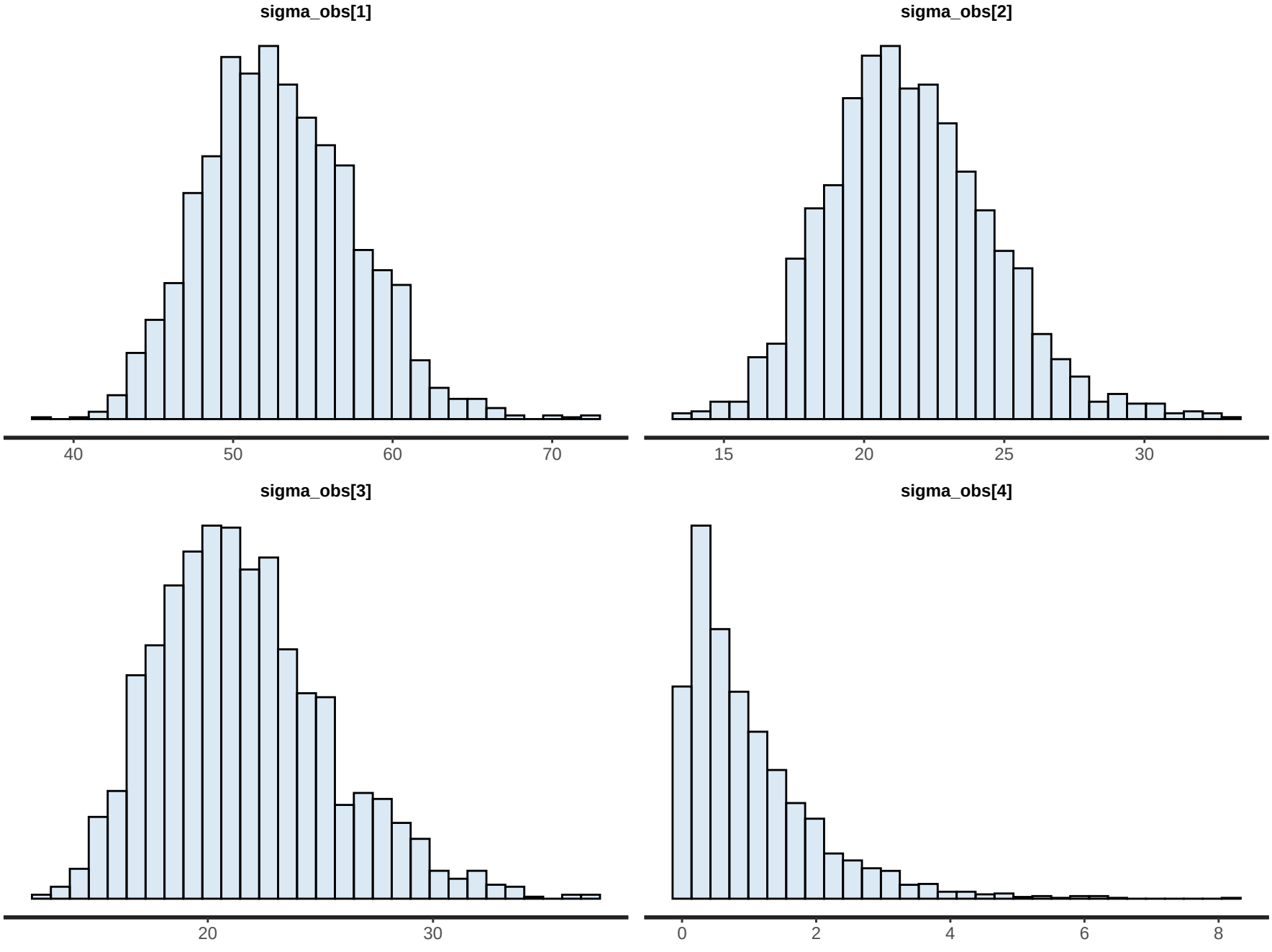
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6
8