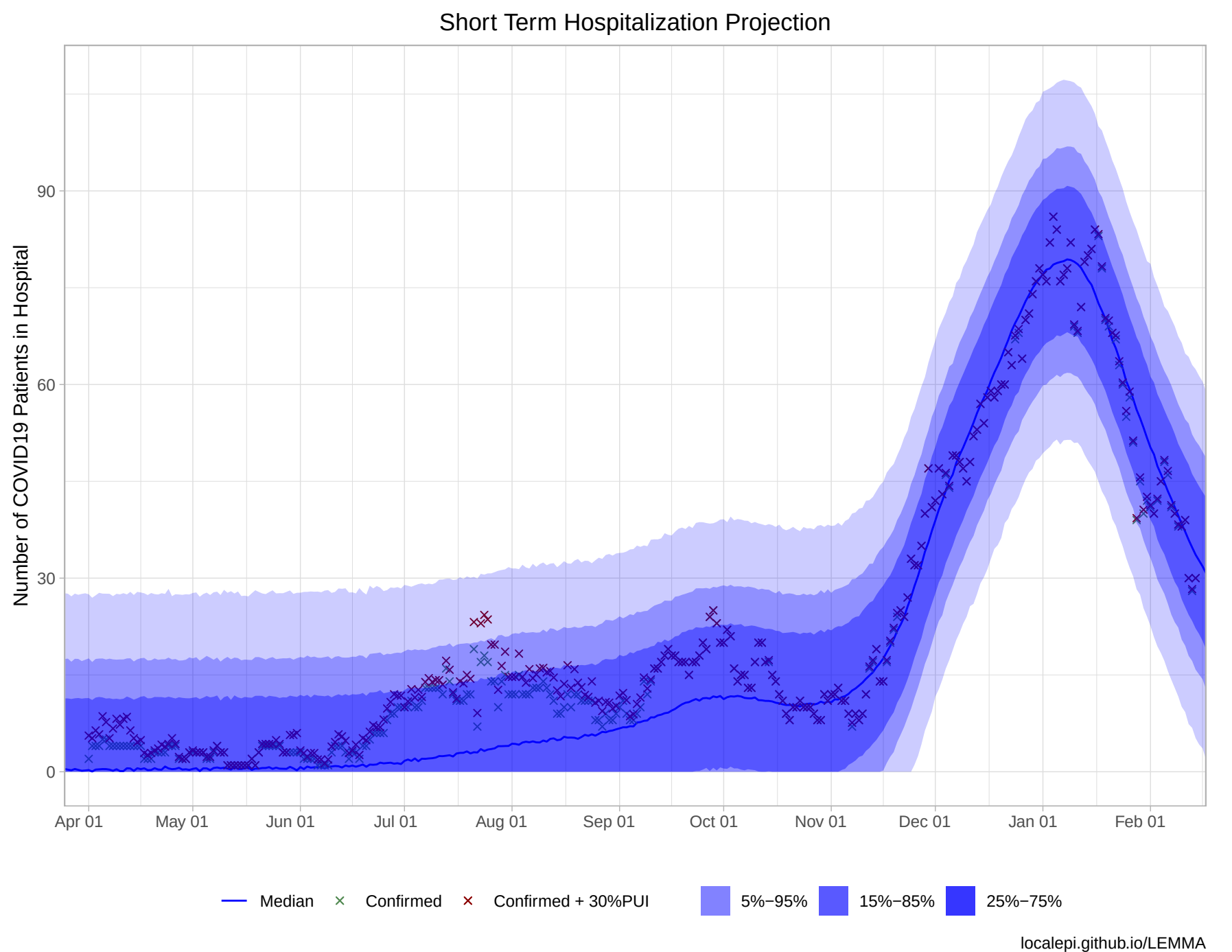
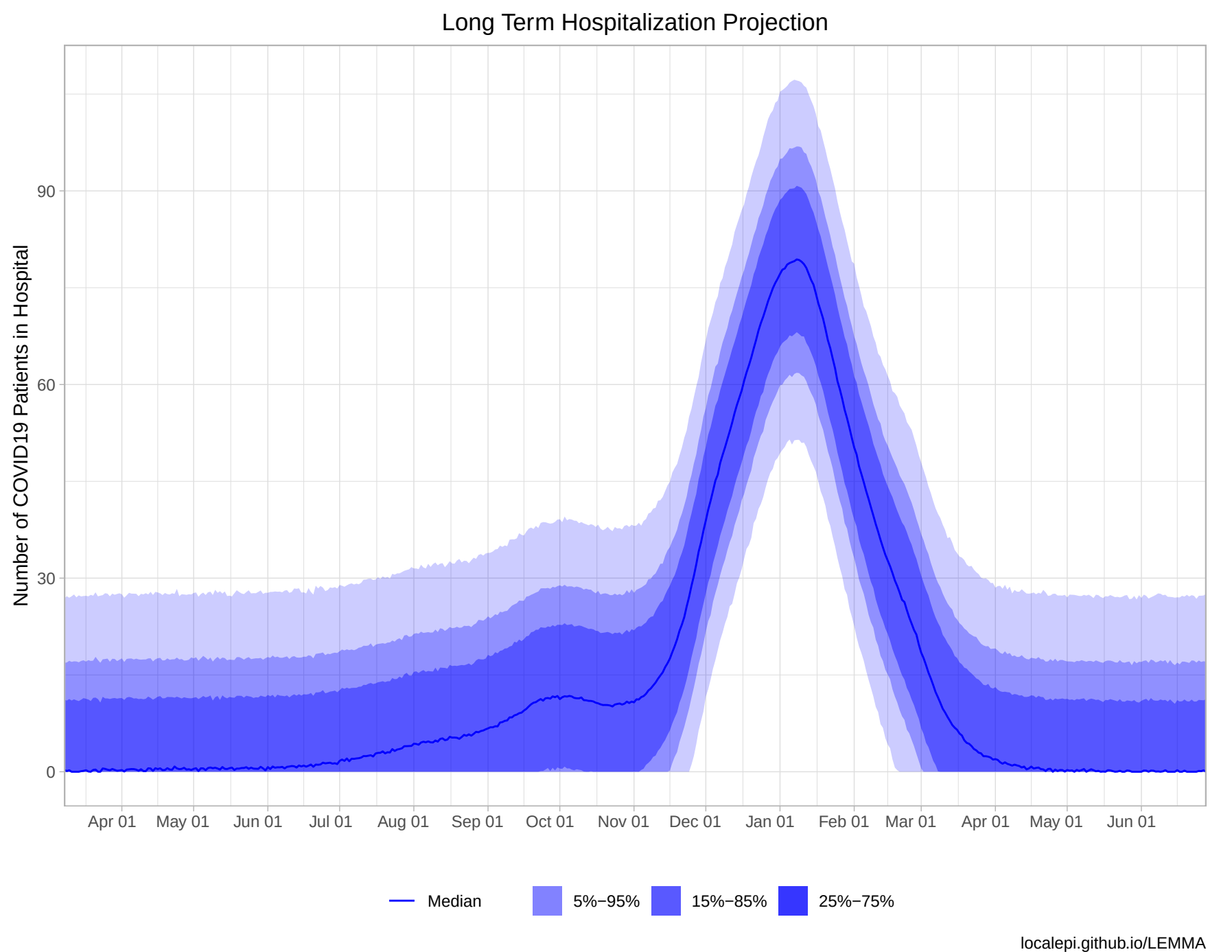
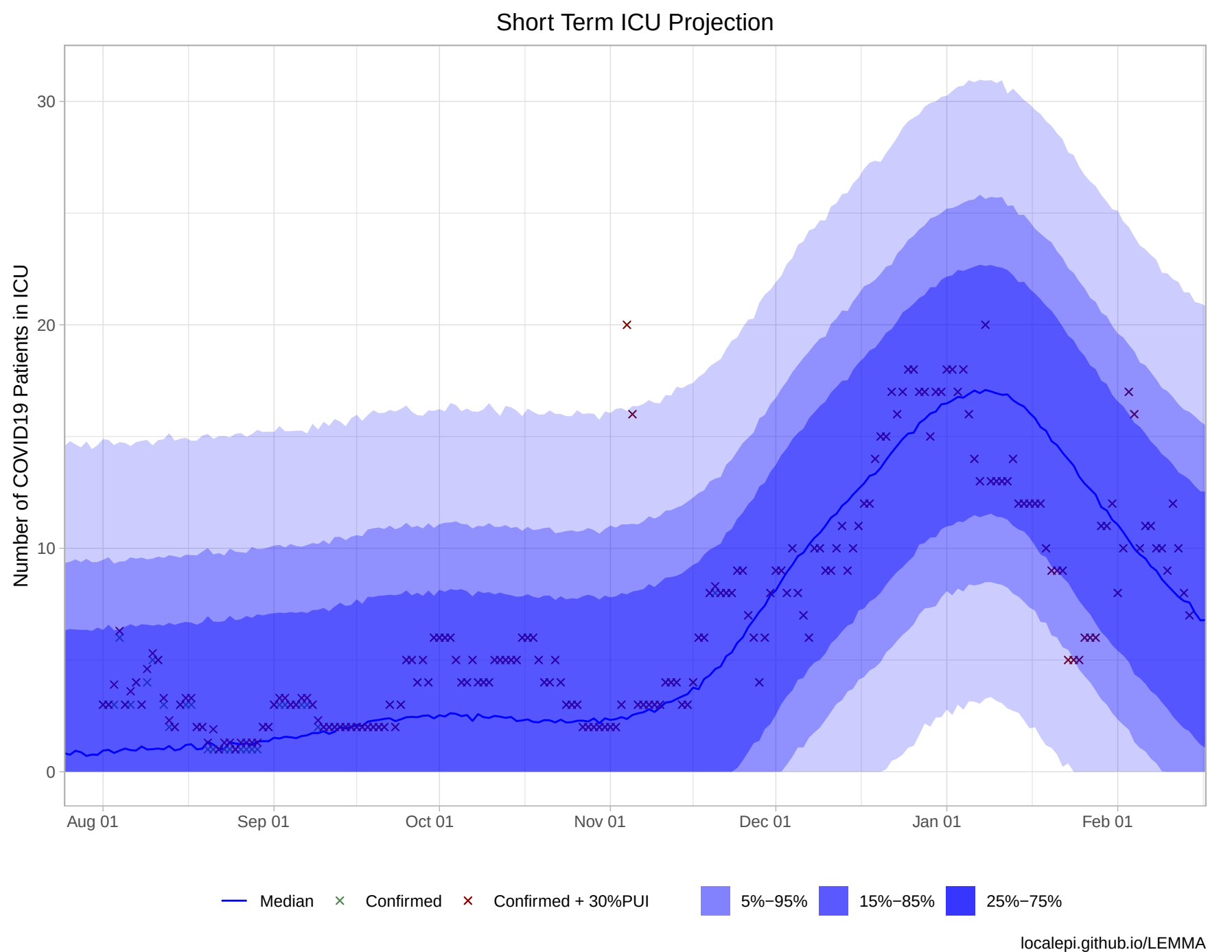
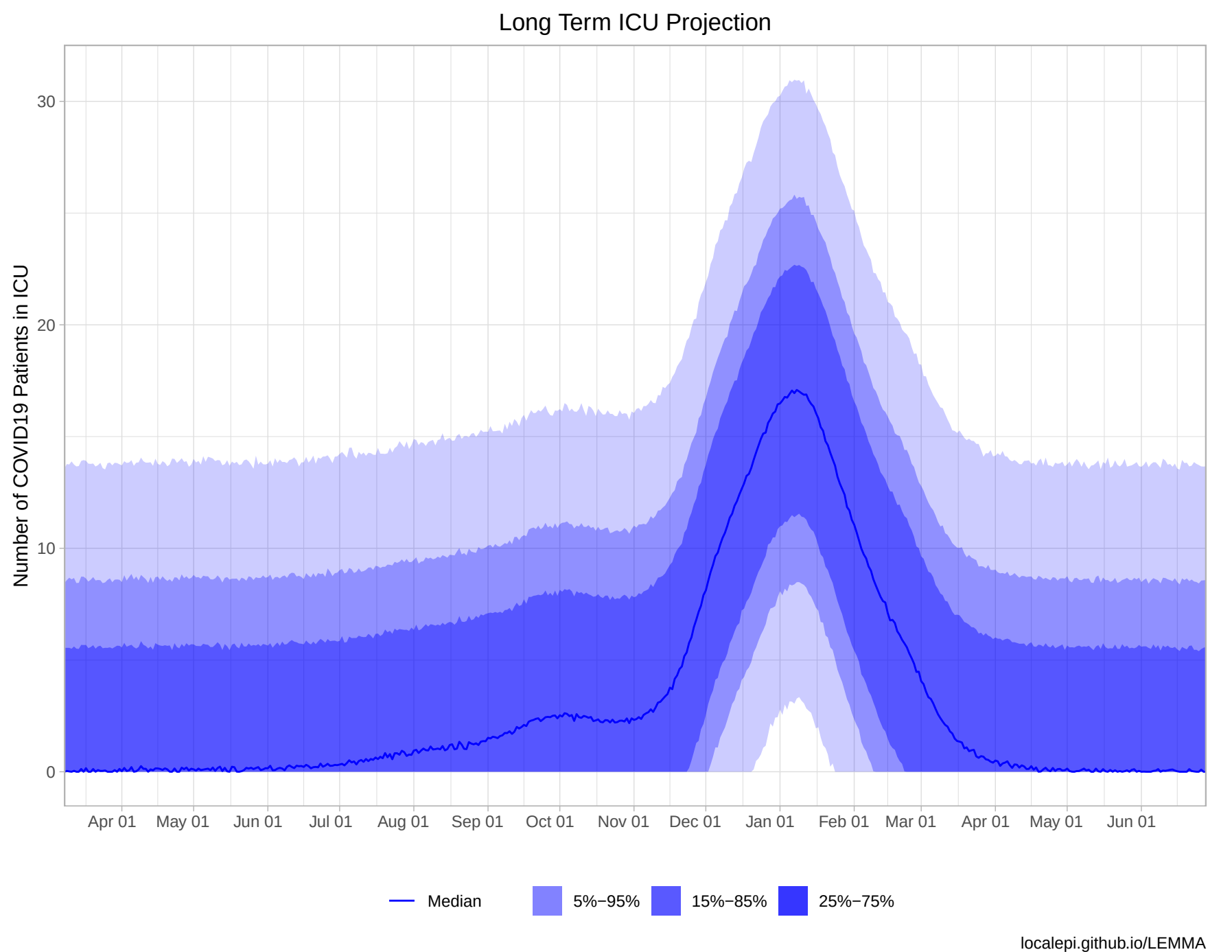
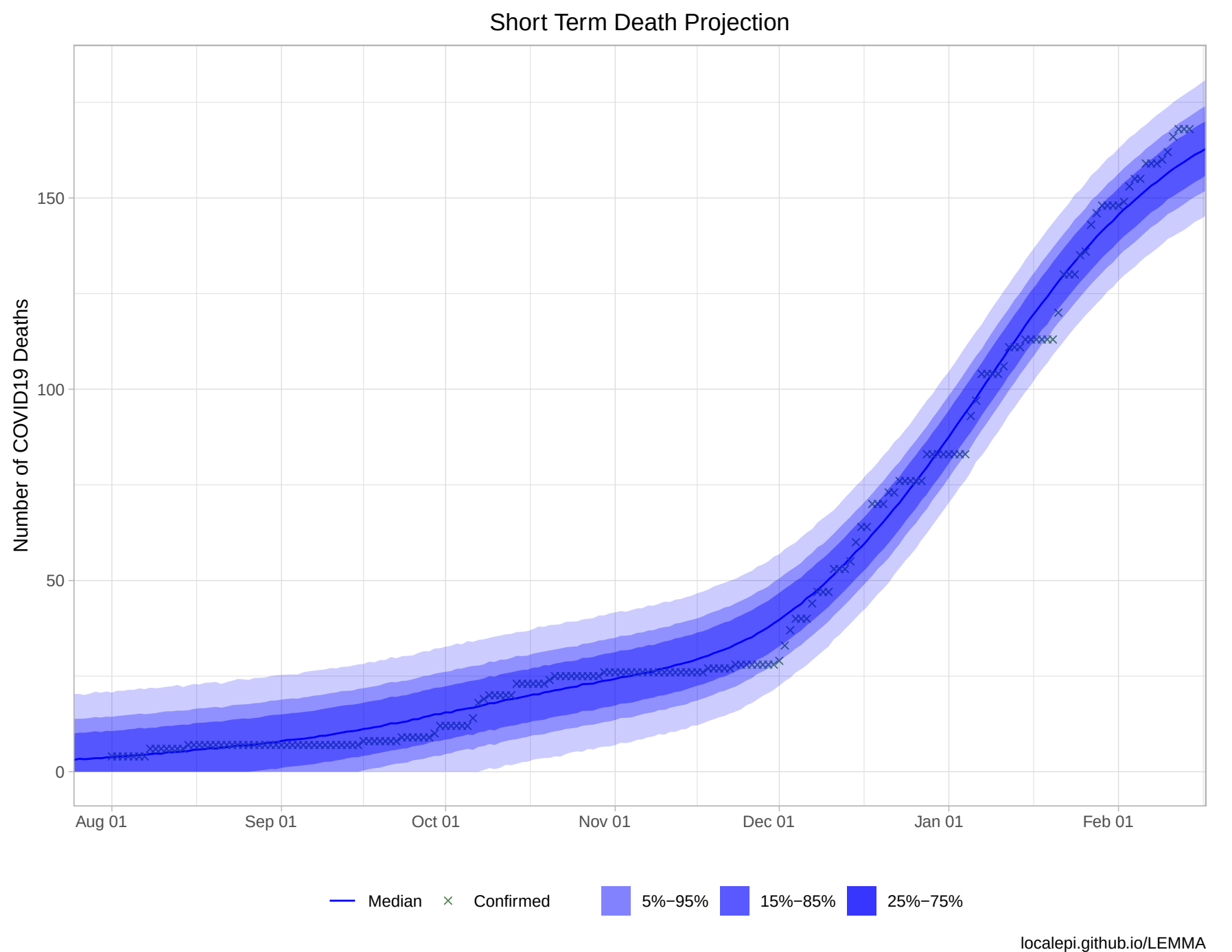
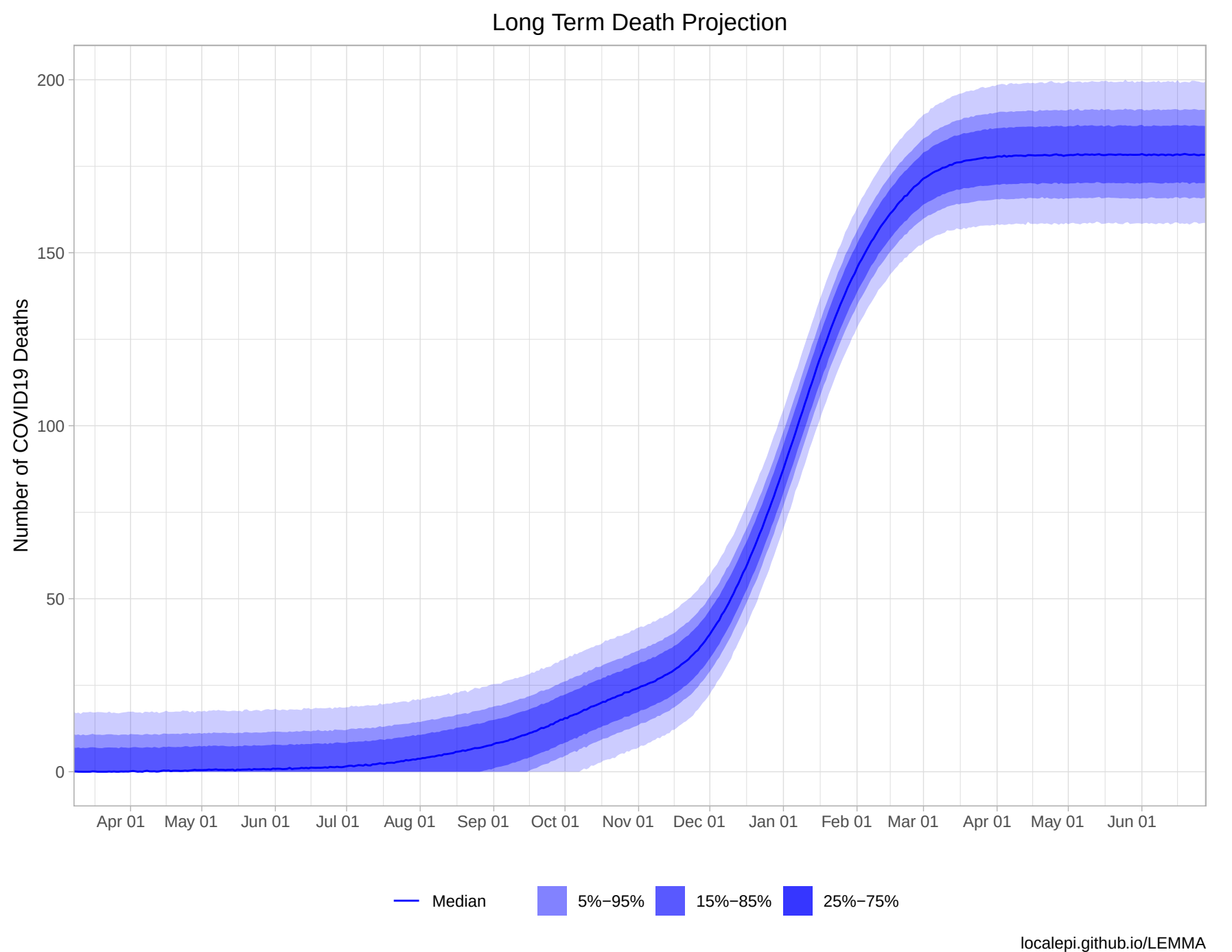

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
30
60
90
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

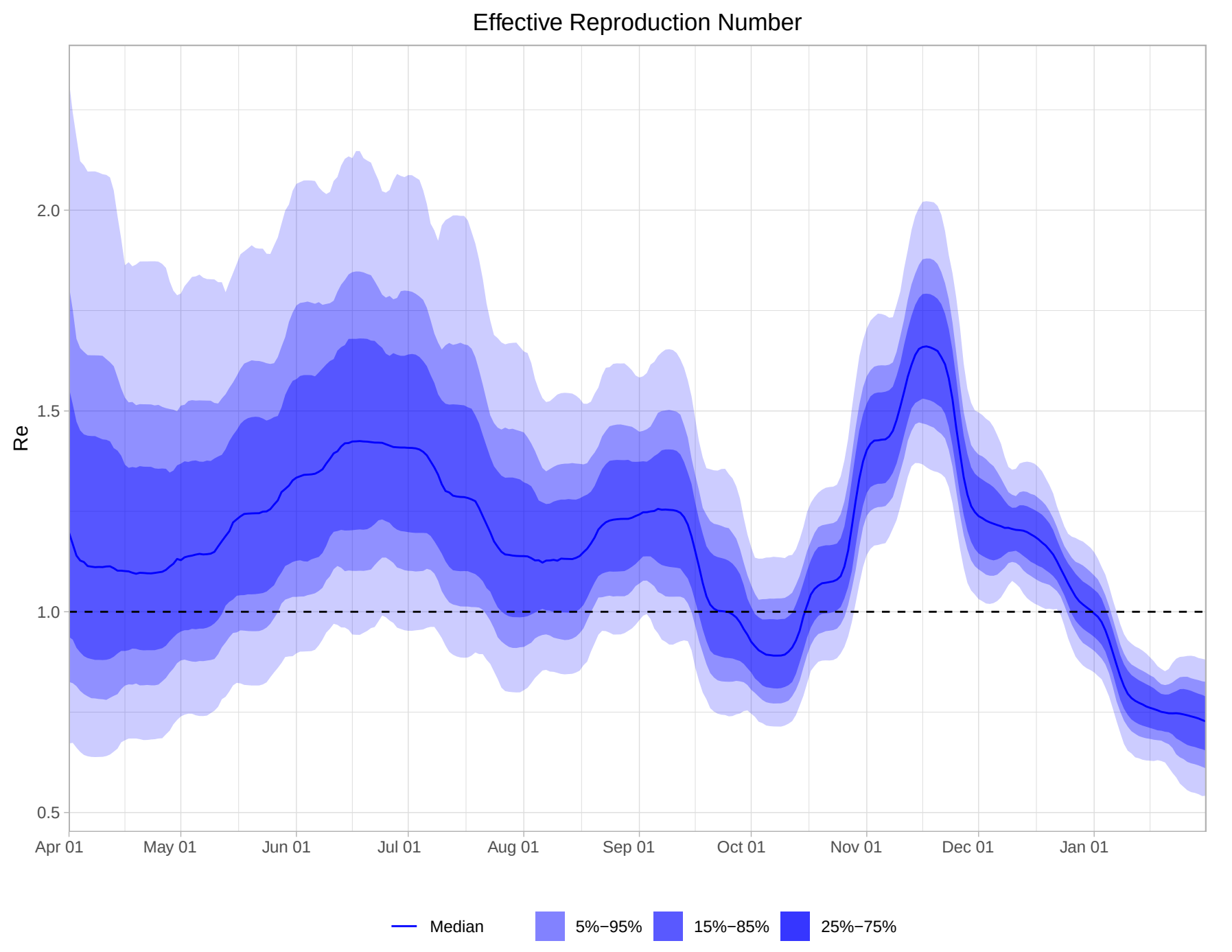

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
30
60
90
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Apr 01
May 01
Jun 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


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
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
30
20
10
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
Apr 01
May 01
Jun 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

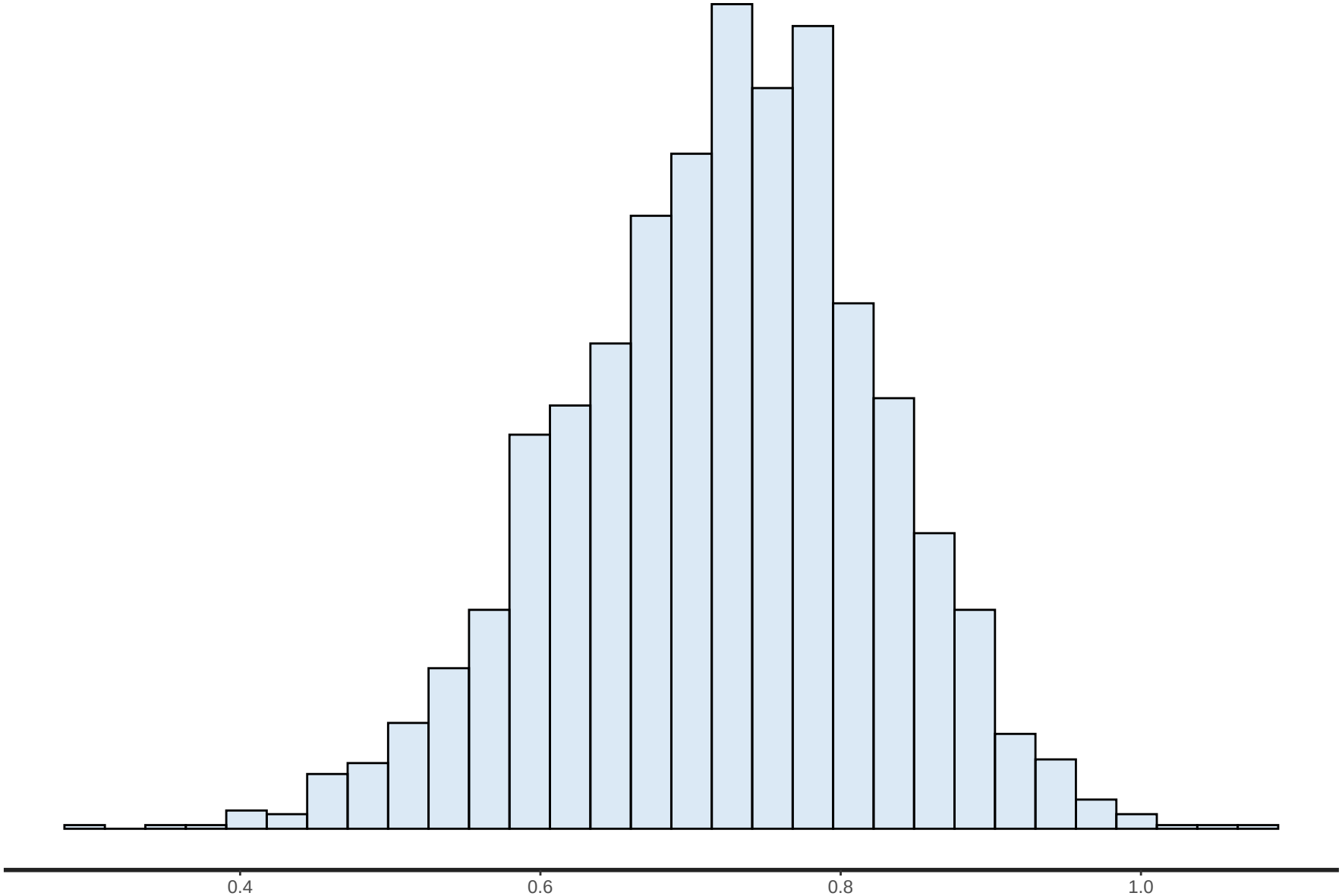

Short Term Death Projection
Number of COVID19 Deaths
0
50
100
150
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

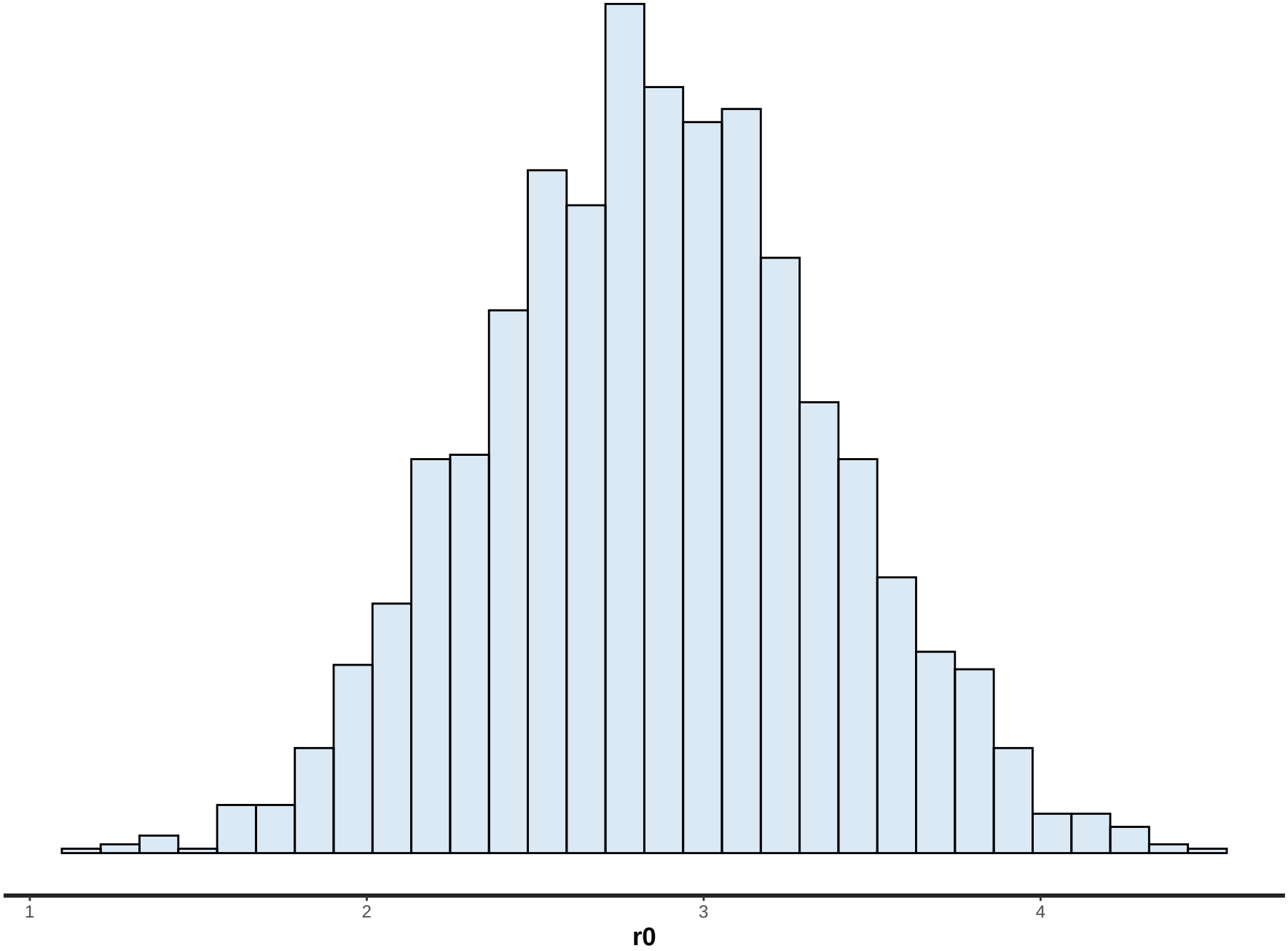

Long Term Death Projection
Number of COVID19 Deaths
200
150
100
50
0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Apr 01
May 01
Jun 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

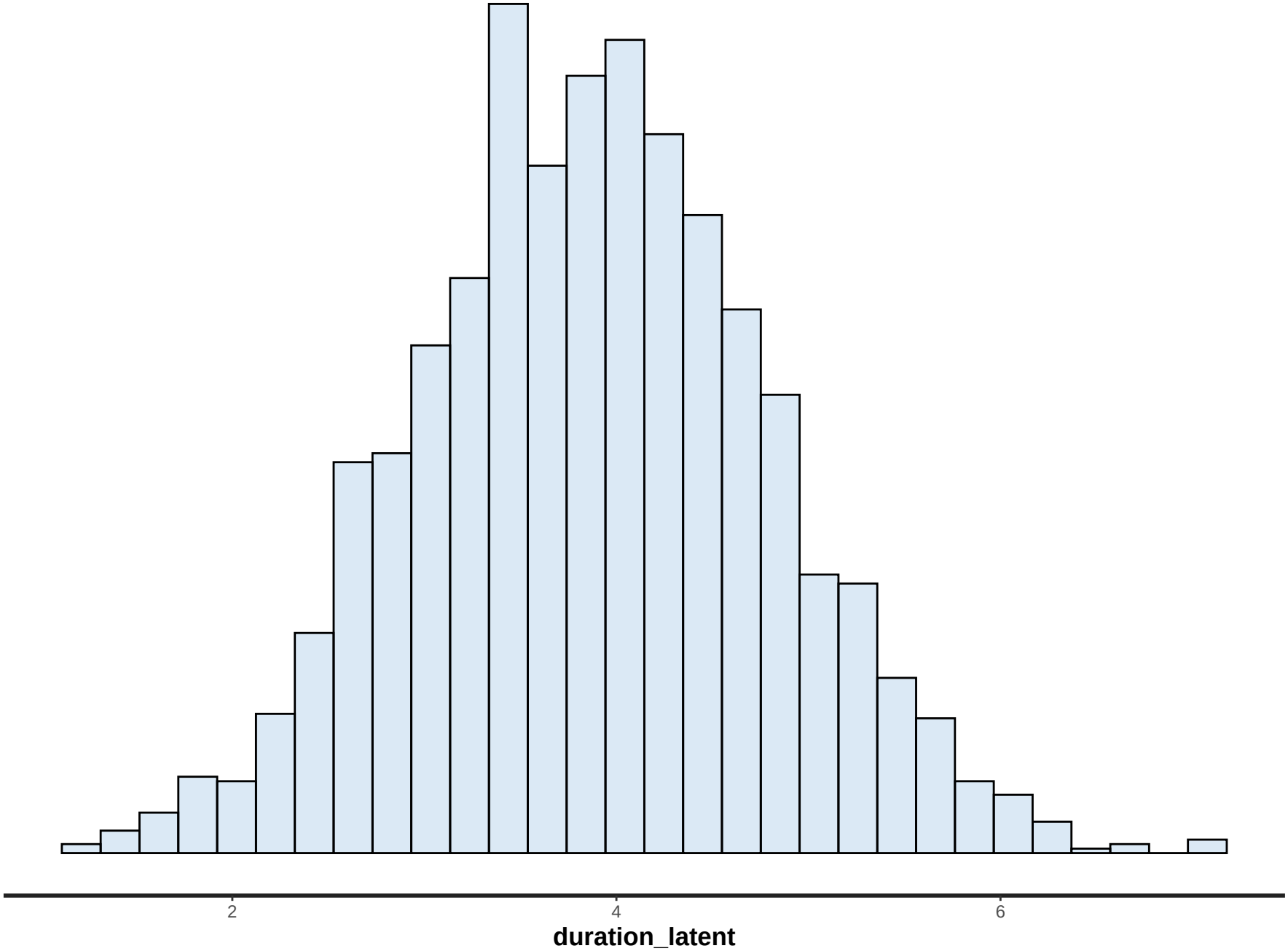

Effective Reproduction Number
Re
2.0
1.5
1.0
0.5
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Median
5%−95%
15%−85%
25%−75%

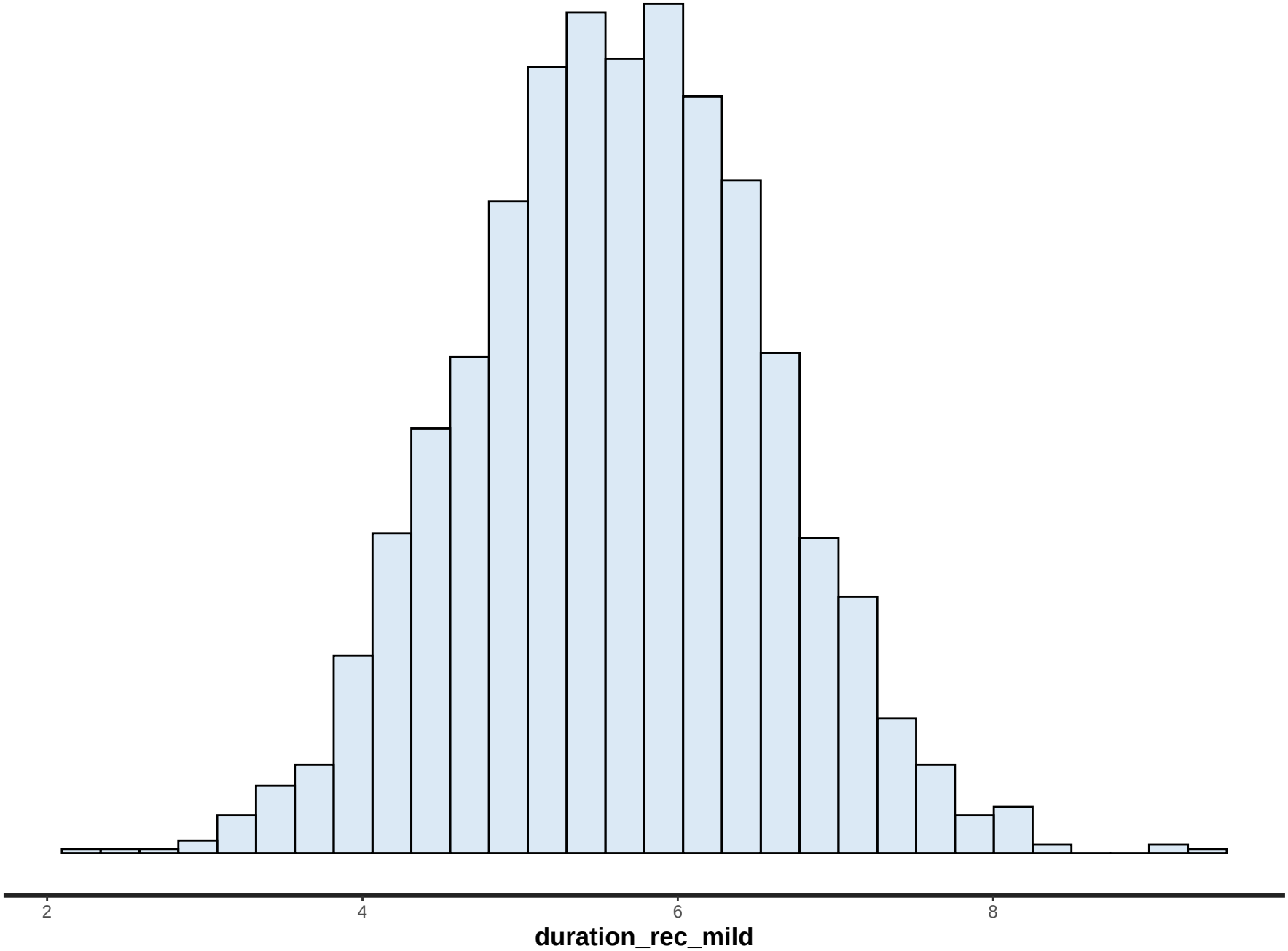
Rt as of 2021−01−31

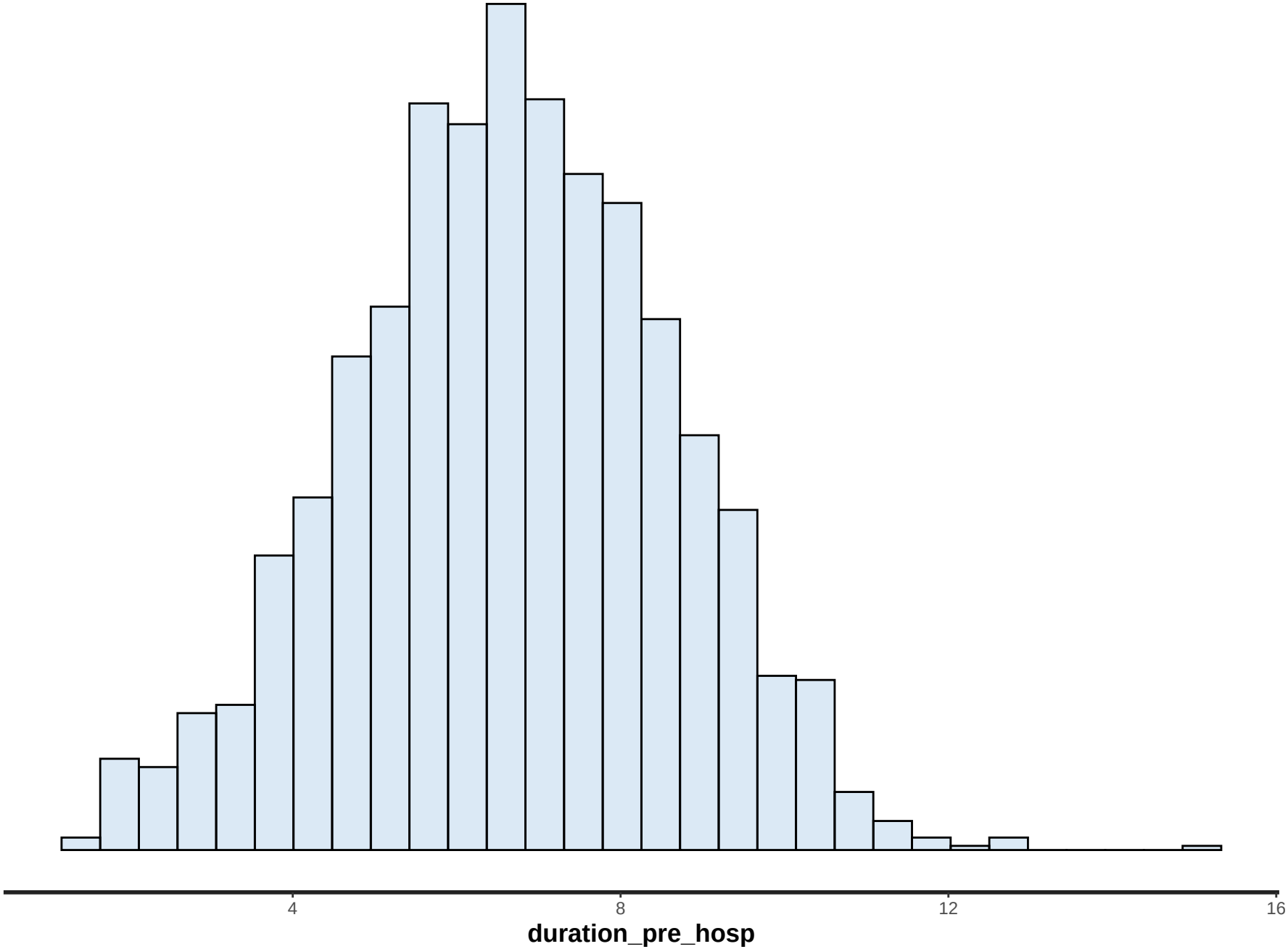
5%	10%	25%	50%	75%	90%	95%
0.54	0.59	0.65	0.73	0.79	0.85	0.88

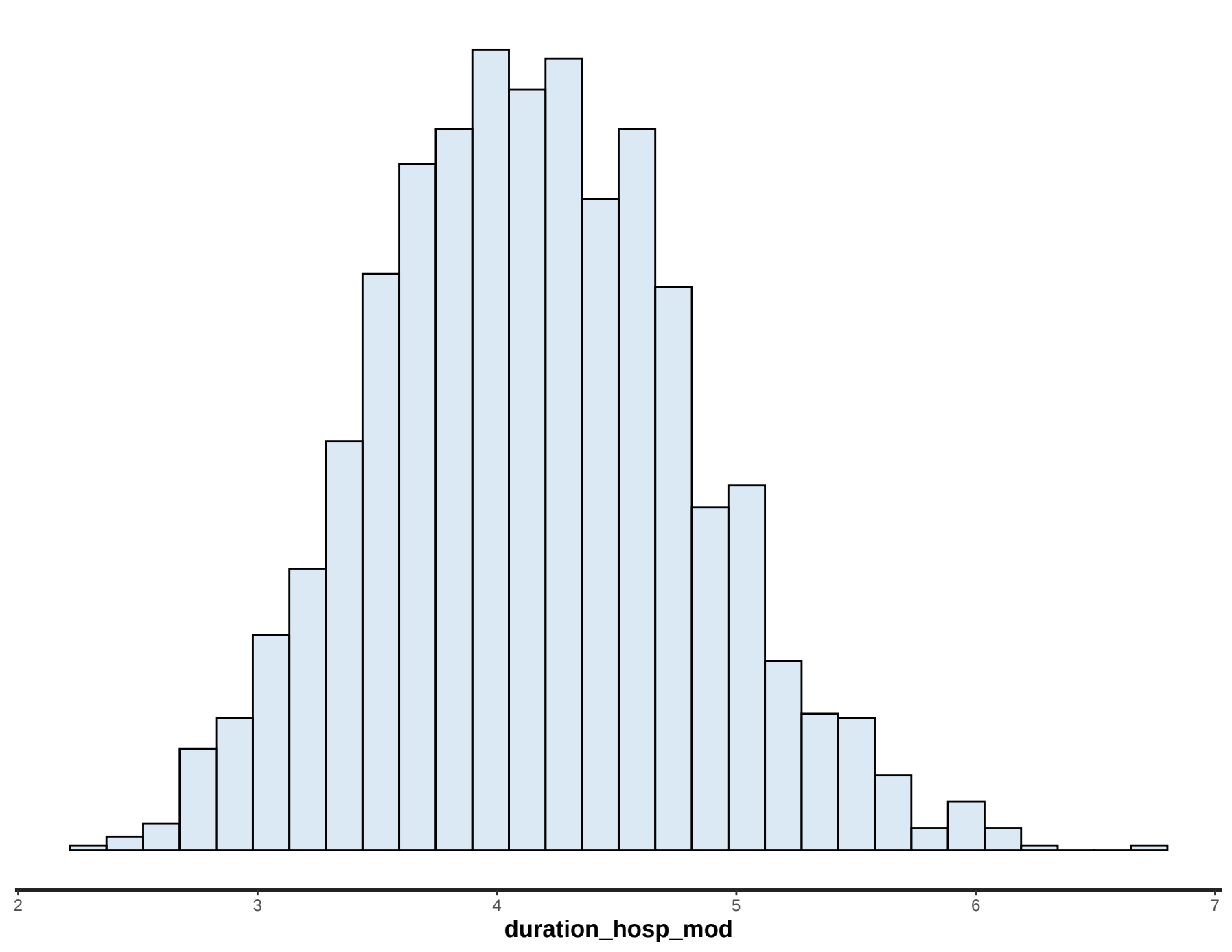


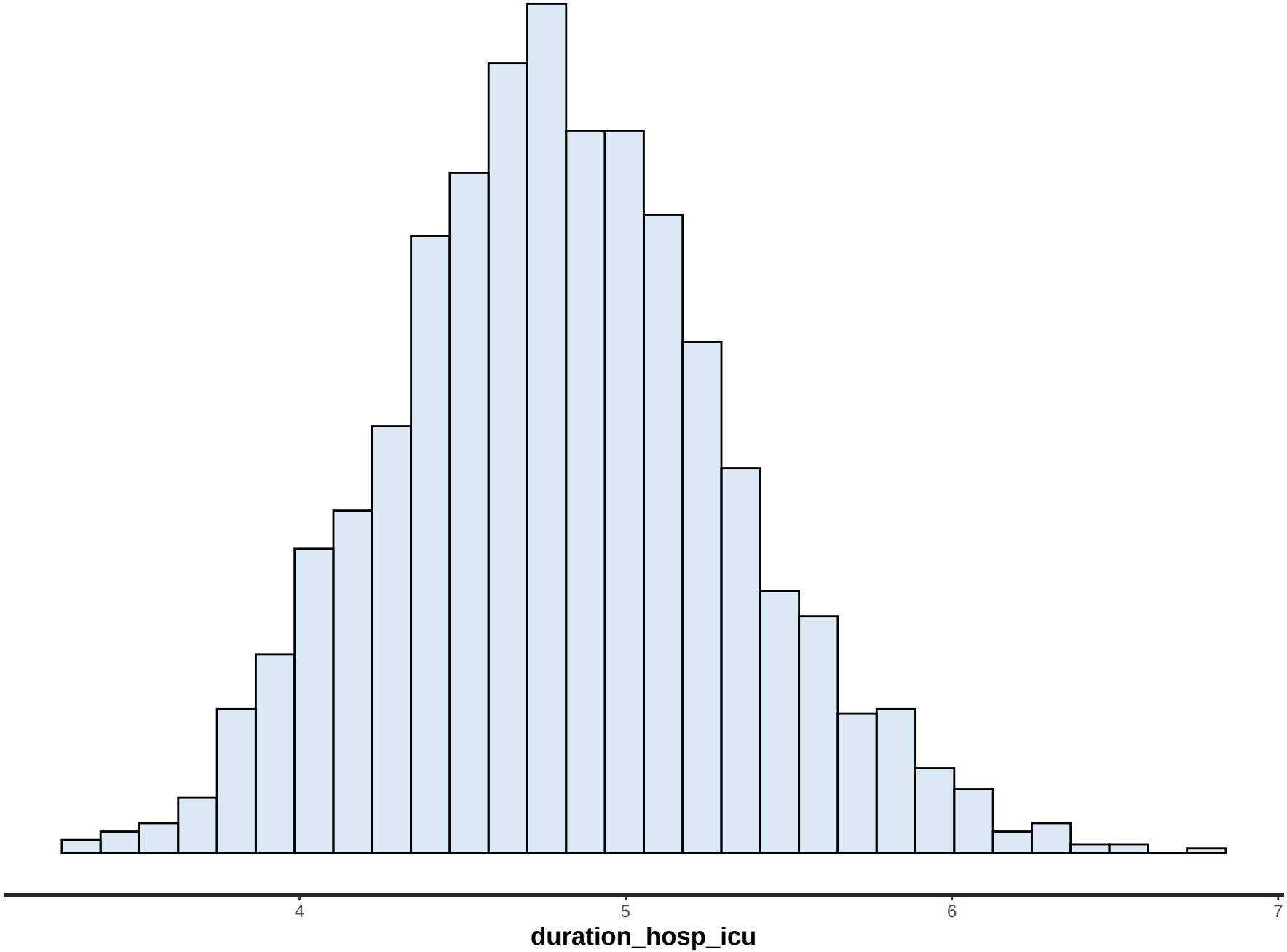

1
2
3
4
r0

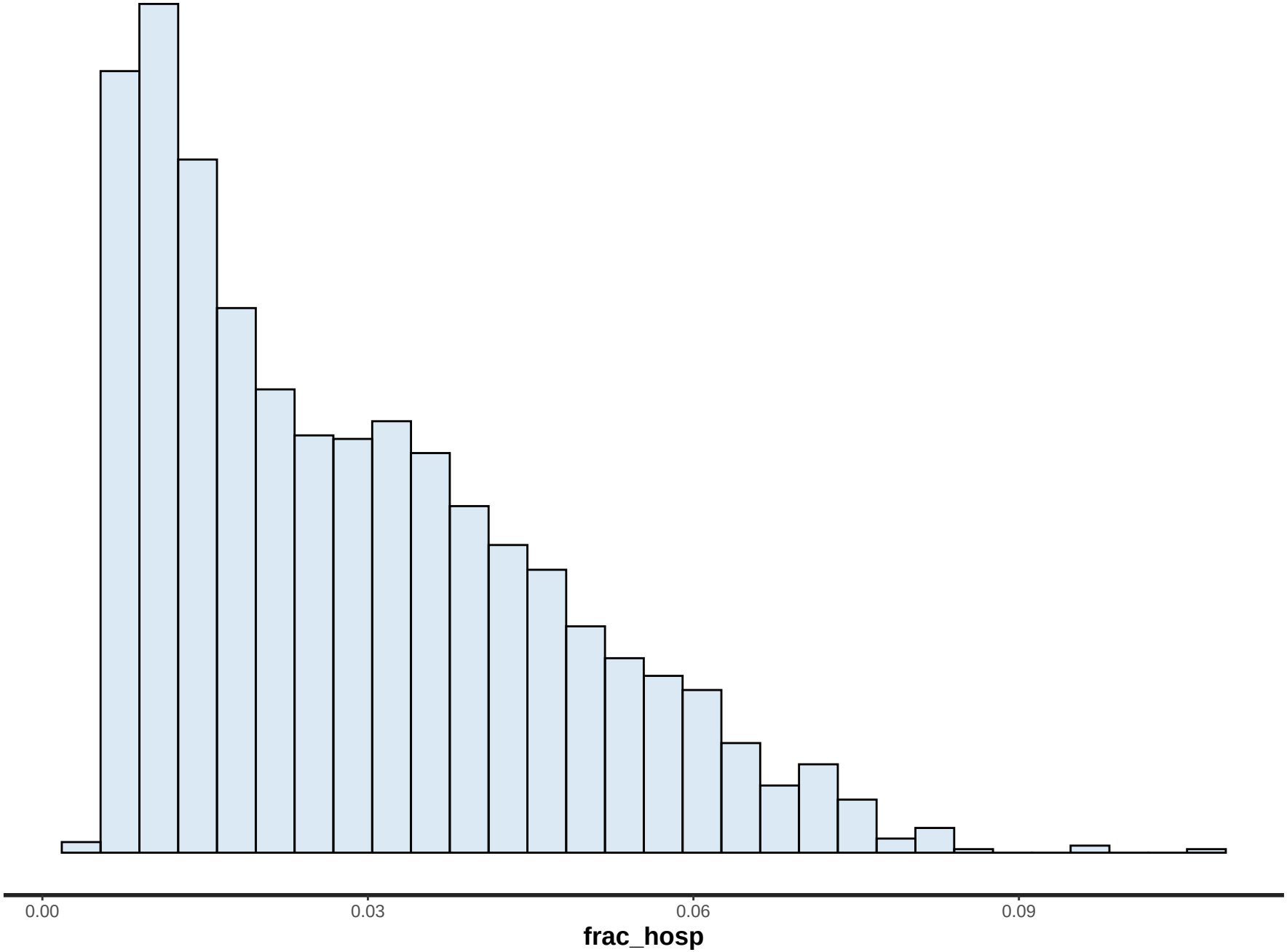

2
4
6
duration_latent

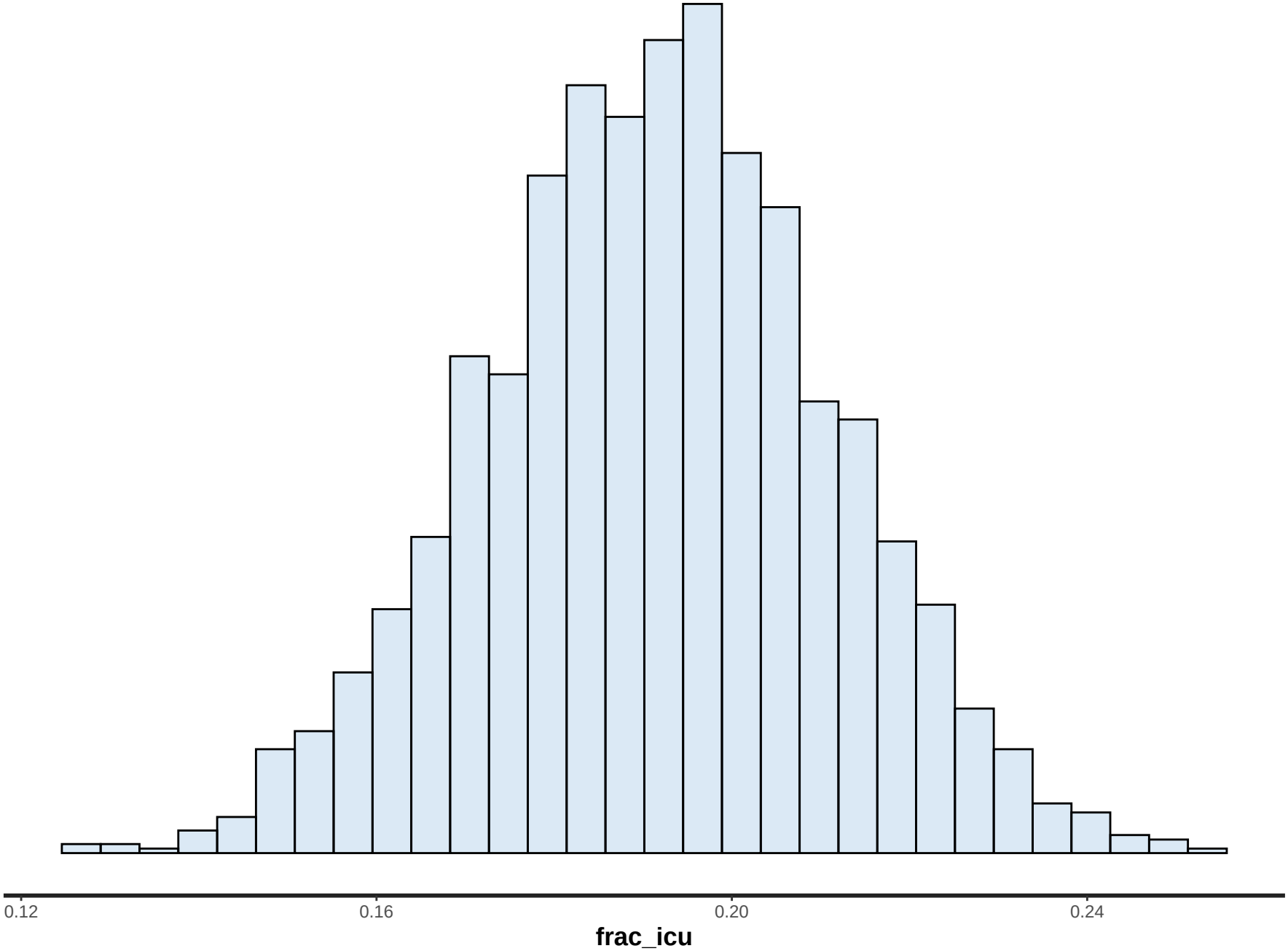

2
4
6
8
duration_rec_mild

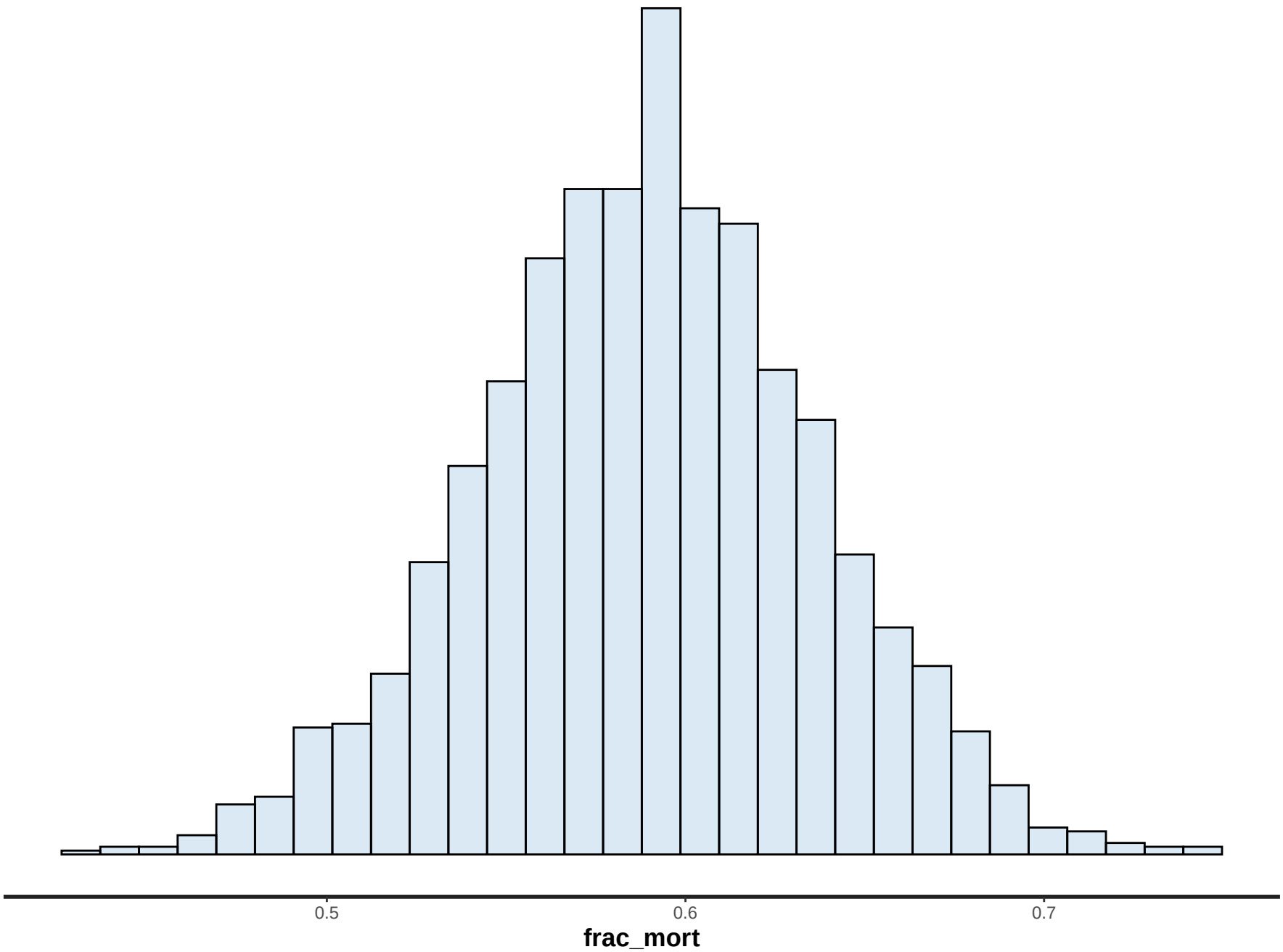

4
8
12
16
duration_pre_hosp

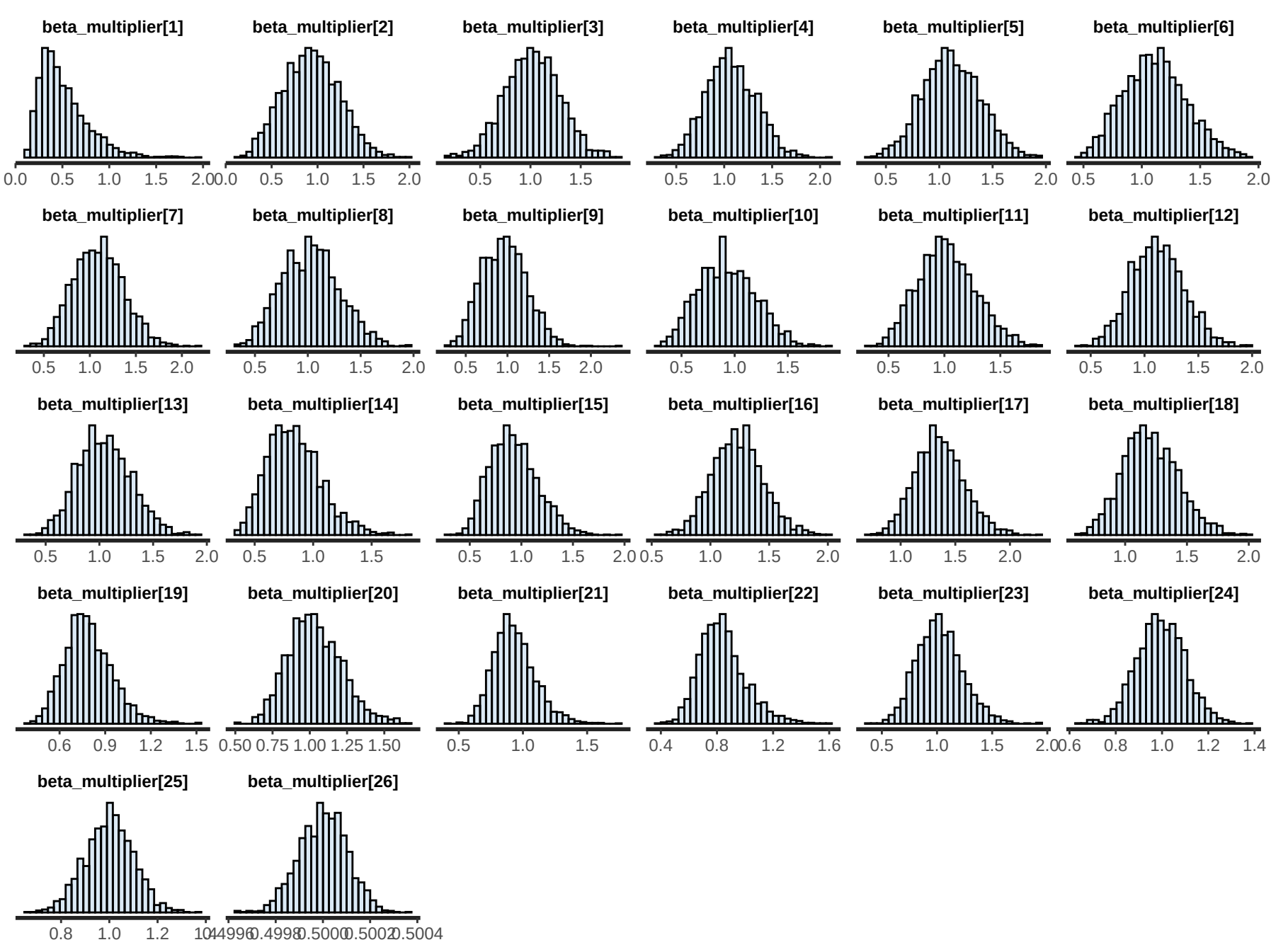

2
3
4
5
6
7
duration_hosp_mod


4
5
6
7
duration_hosp_icu


0.00
0.03
0.06
0.09
frac_hosp


0.12
0.16
0.20
0.24
frac_icu


0.5
0.6
0.7
frac_mort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beta_multiplier[25]
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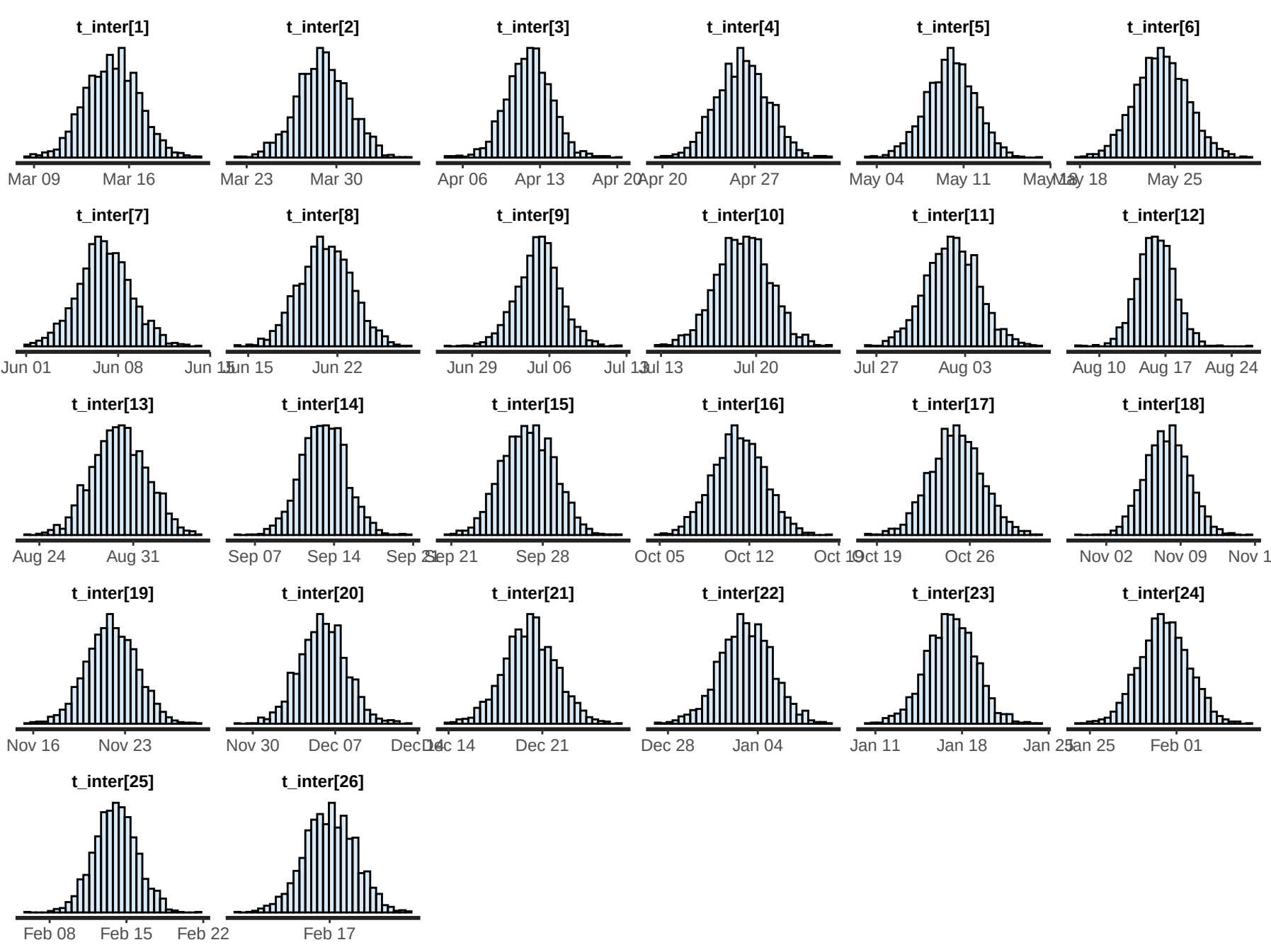
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Mar 16
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Mar 23
Mar 30
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Apr 06
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Apr 20
Apr 27
t_inter[5]
May 04
May 11
May 18
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May 18
May 25
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Jun 22
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Nov 23
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Nov 30
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Dec 28
Jan 04
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Feb 08
Feb 15
Feb 22
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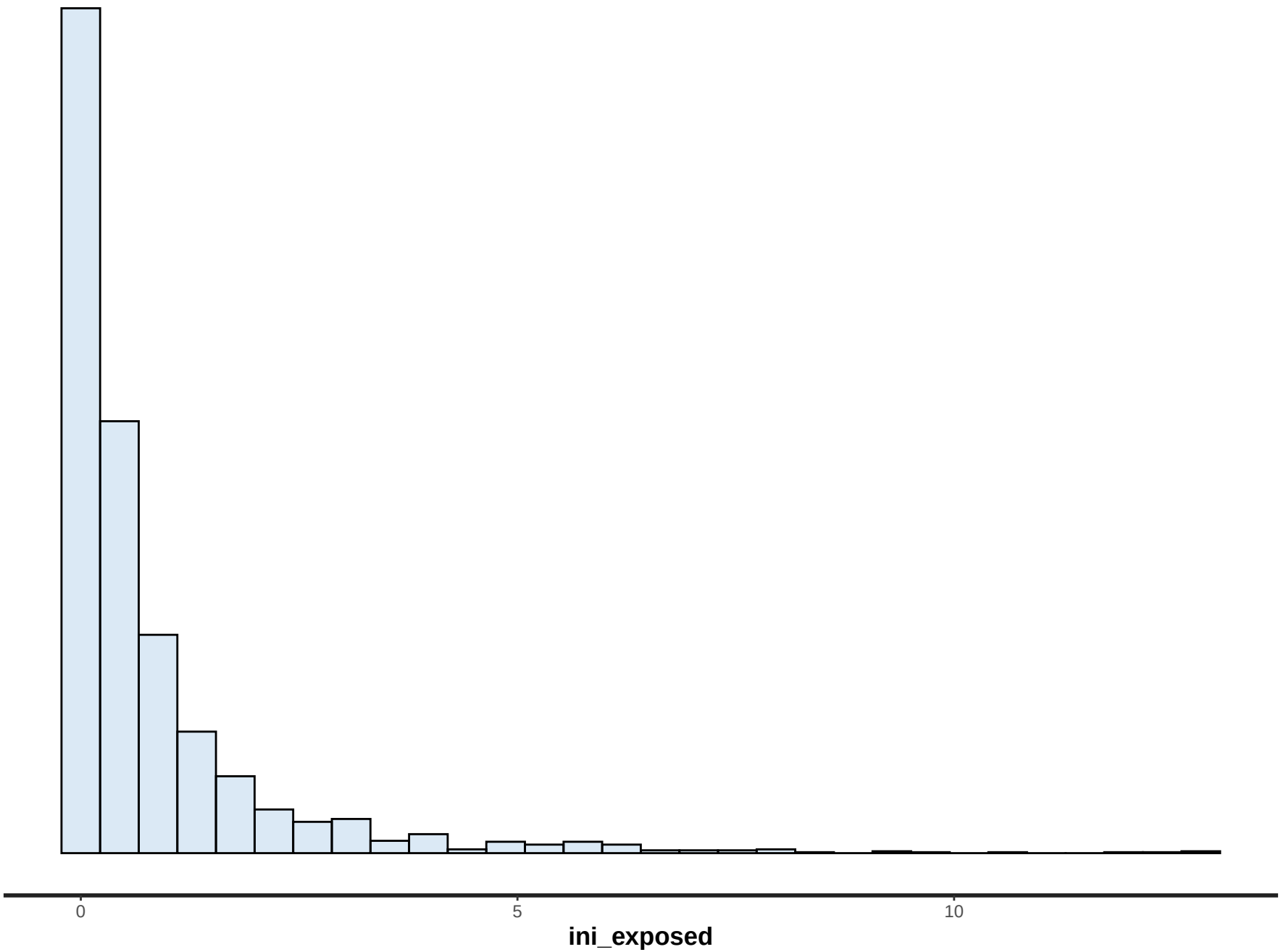
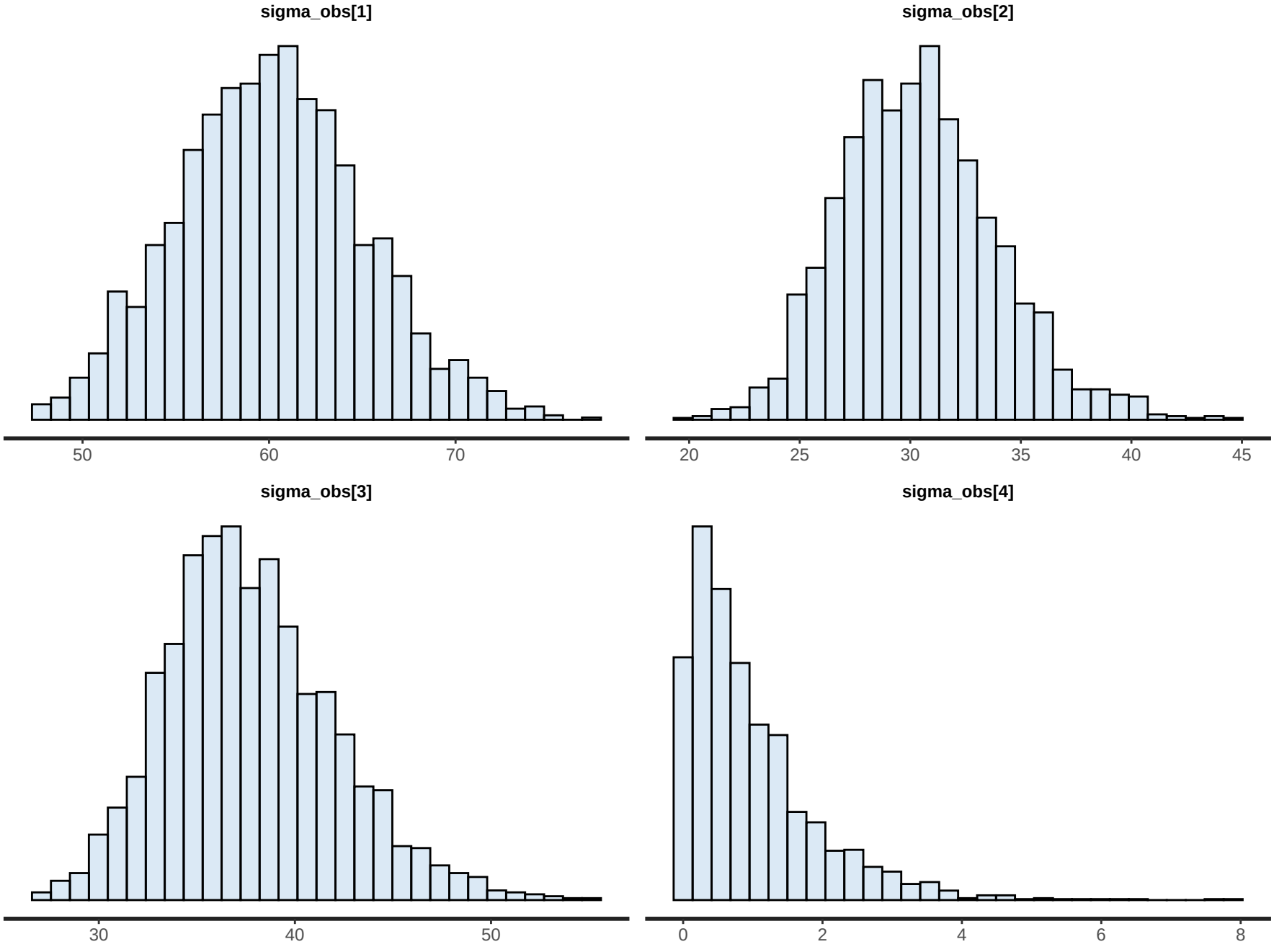
Feb 17


0
5
10
ini_exposed


sigma_obs[1]
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60
70
sigma_obs[2]
20
25
30
35
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sigma_obs[3]
30
40
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sigma_obs[4]
0
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4
6
8