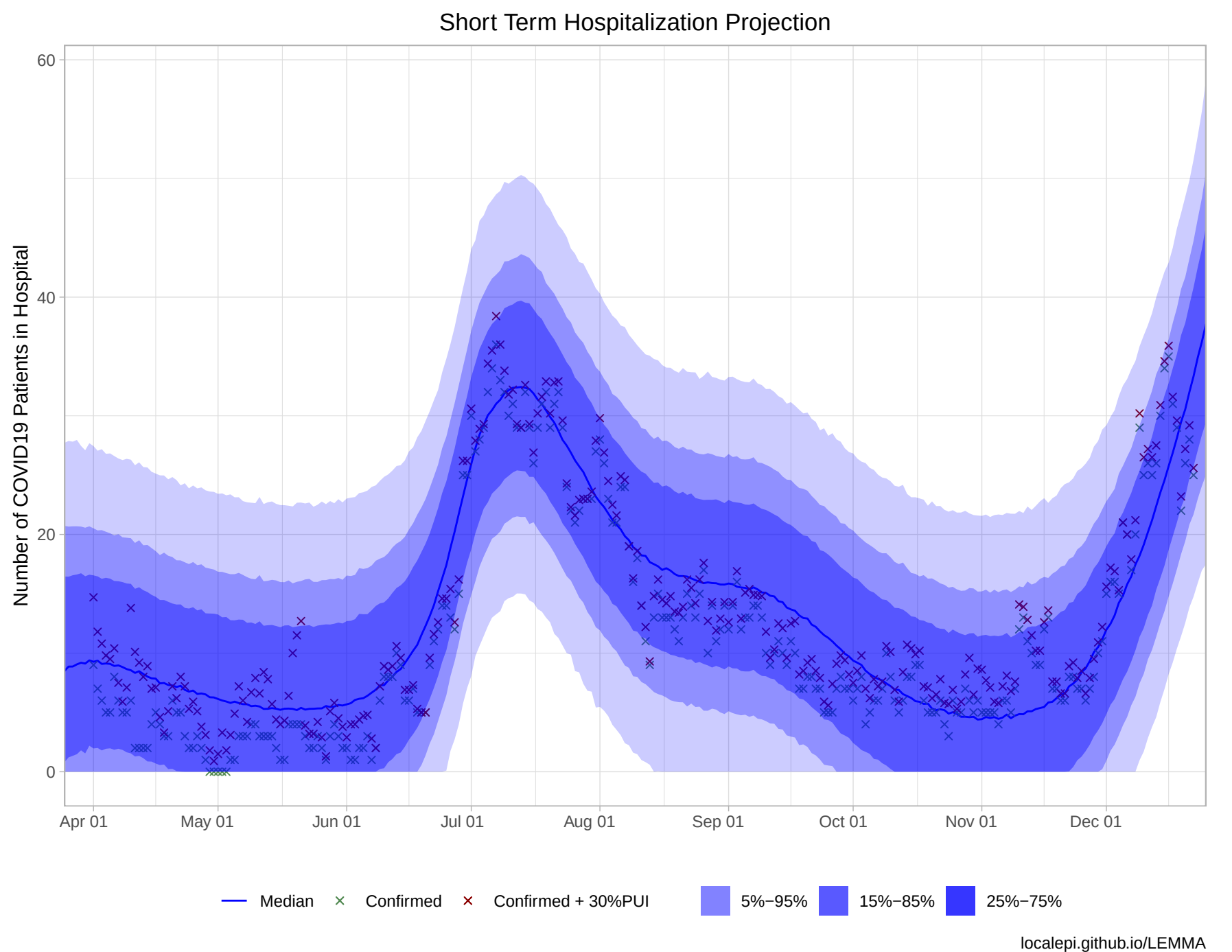
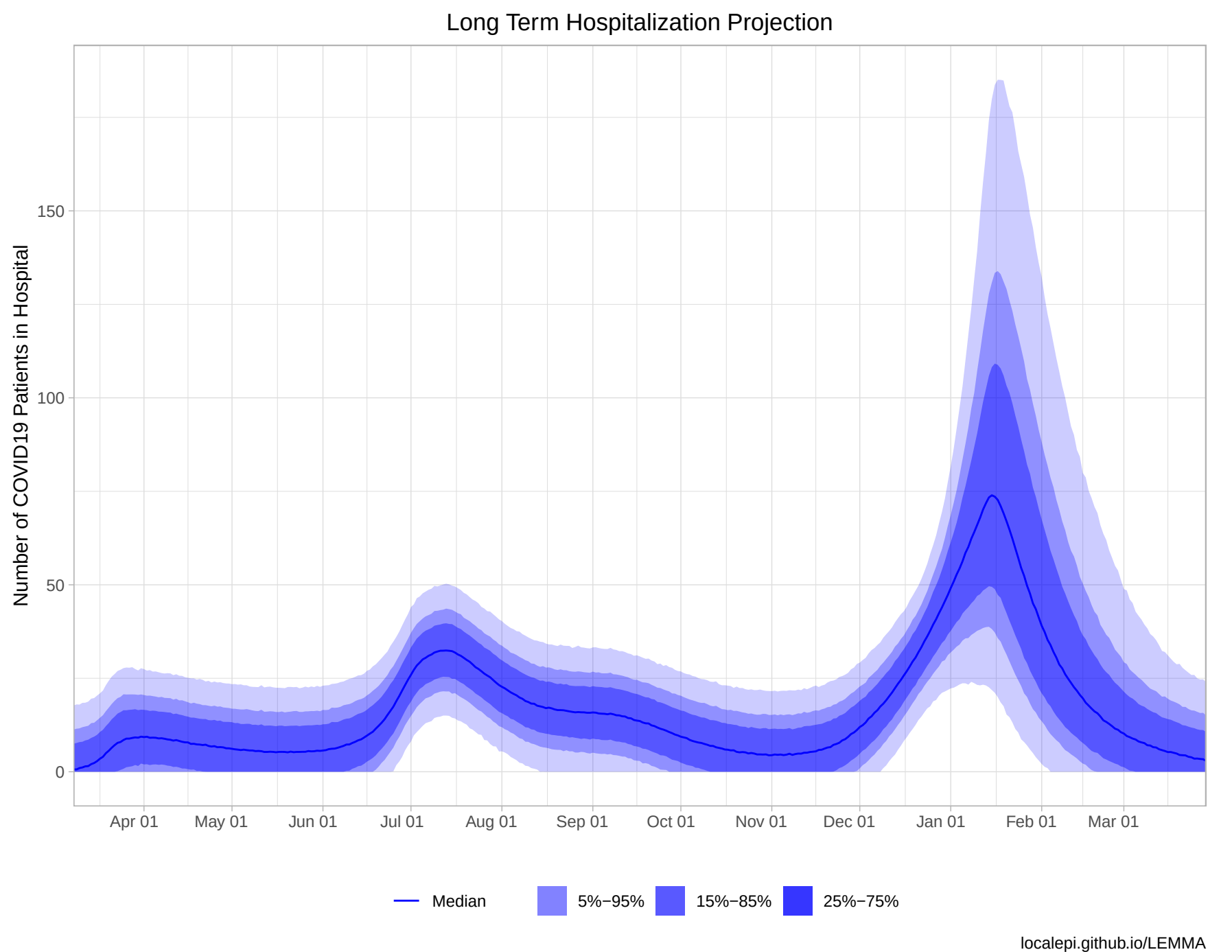
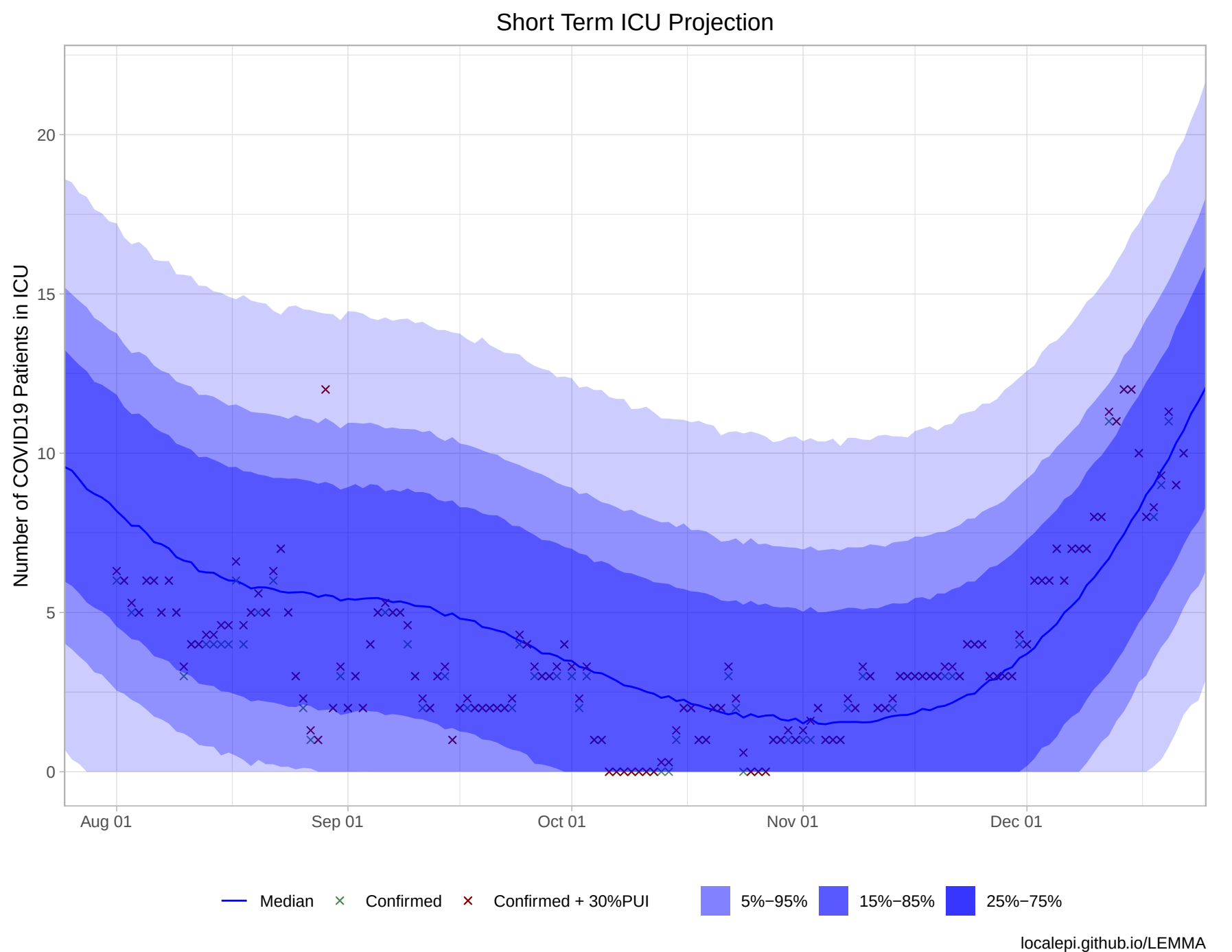
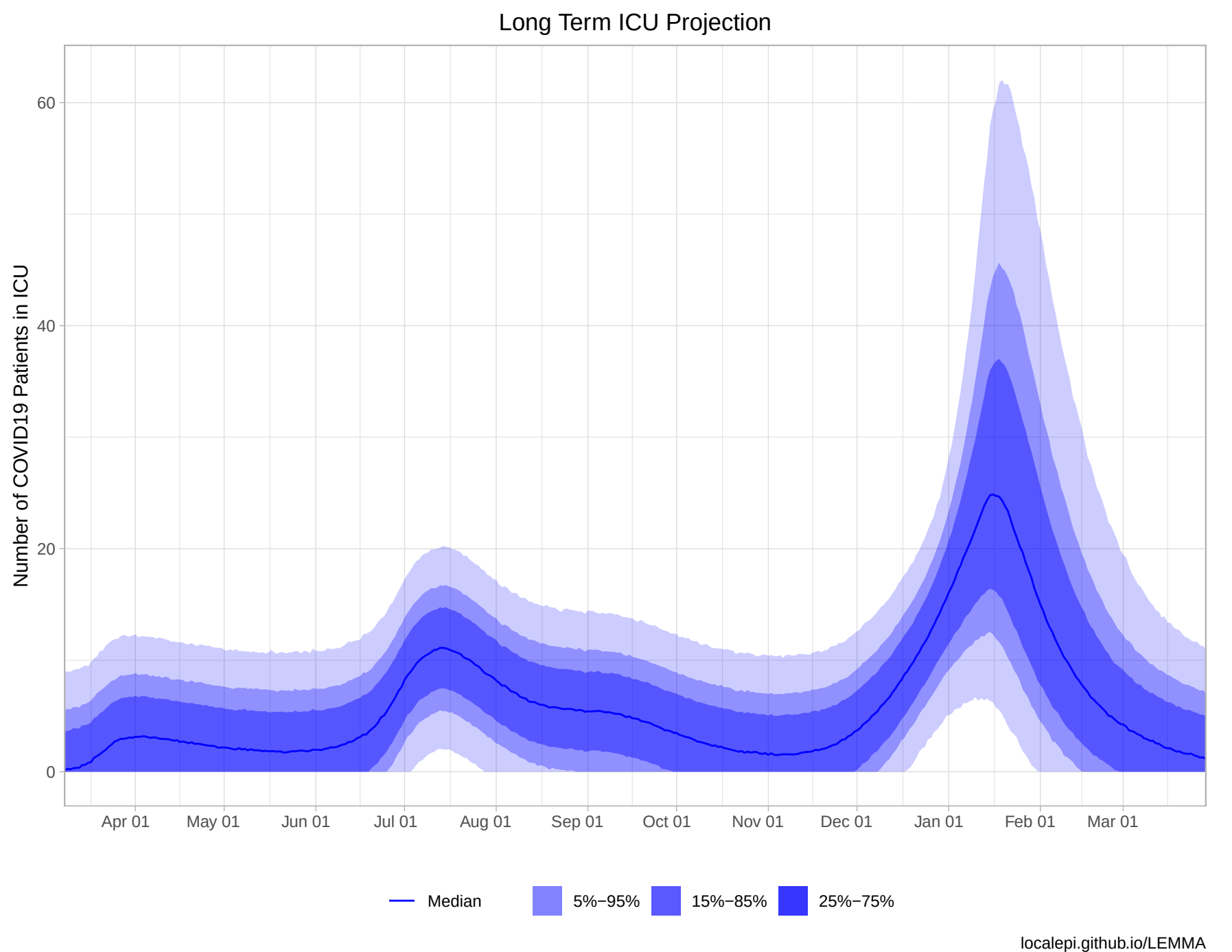
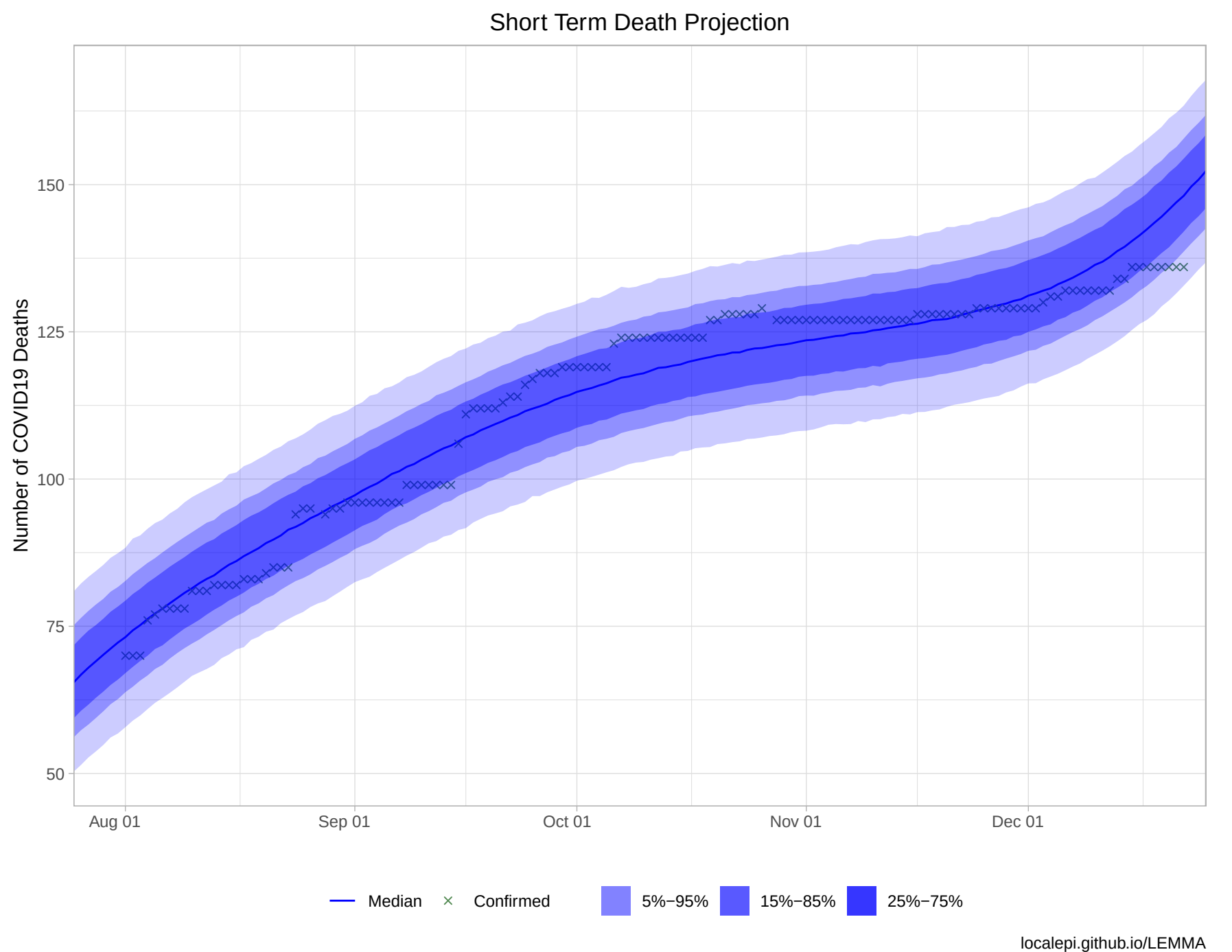
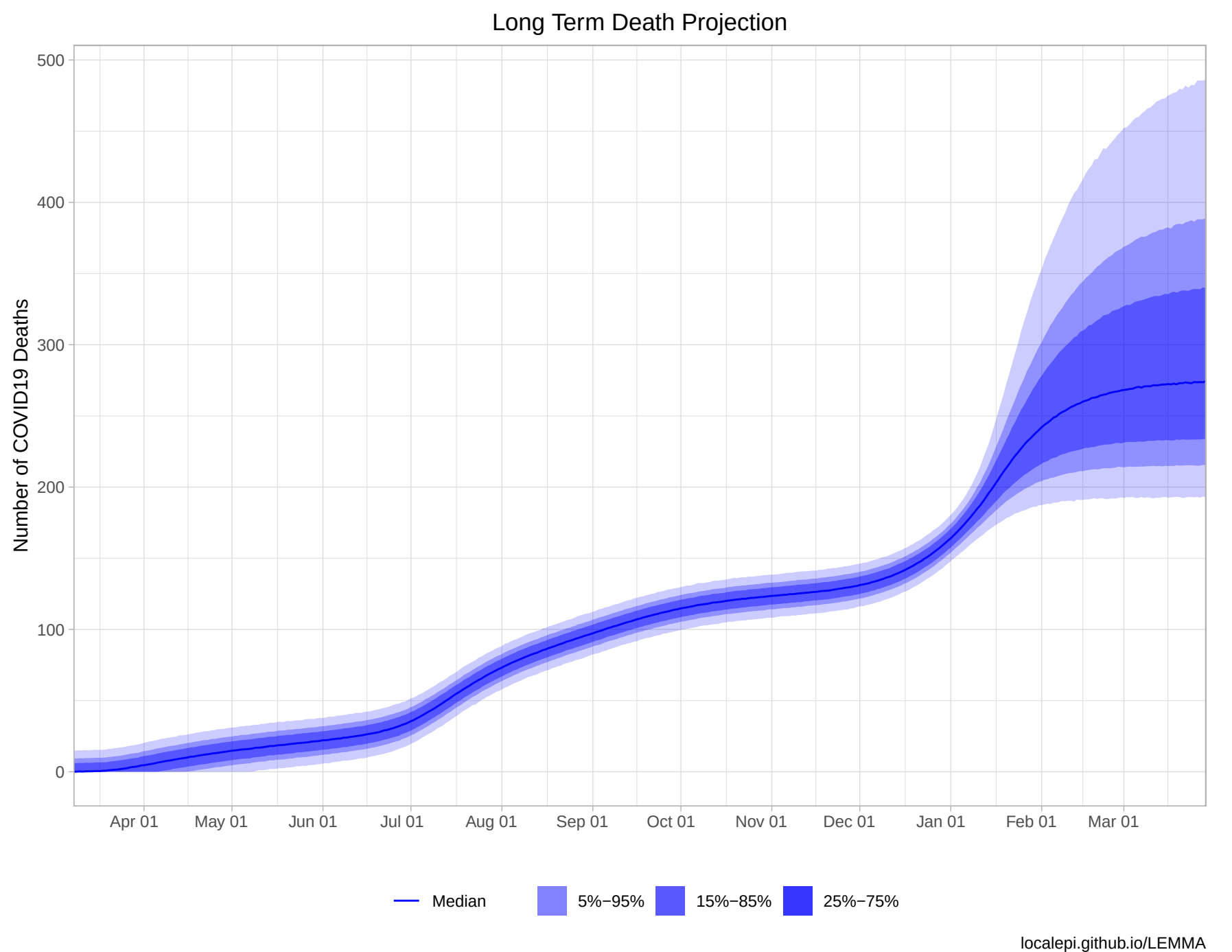

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
60
40
20
0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

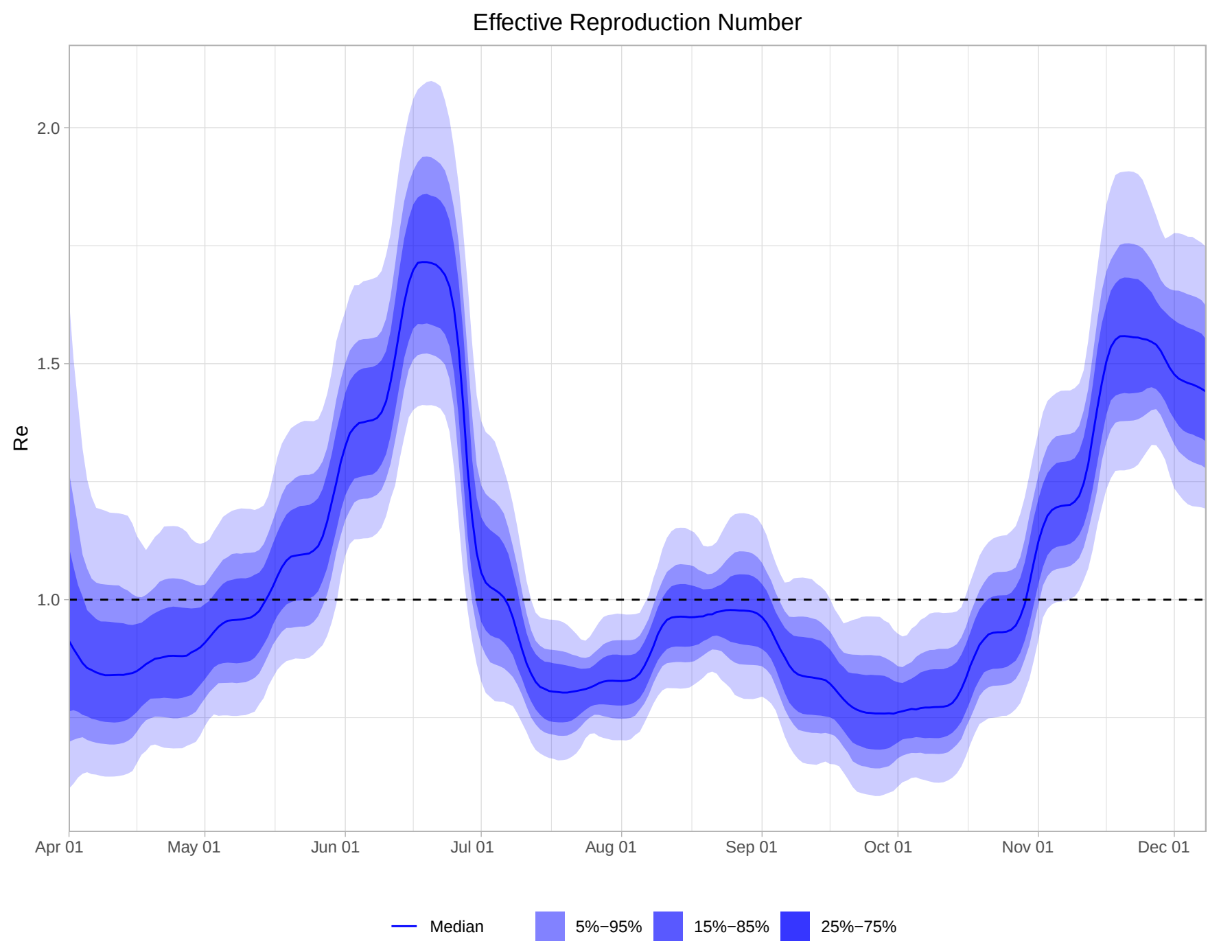

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
150
100
50
0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


Short Term ICU Projection
Number of COVID19 Patients in ICU
0
5
10
15
20
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
60
40
20
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

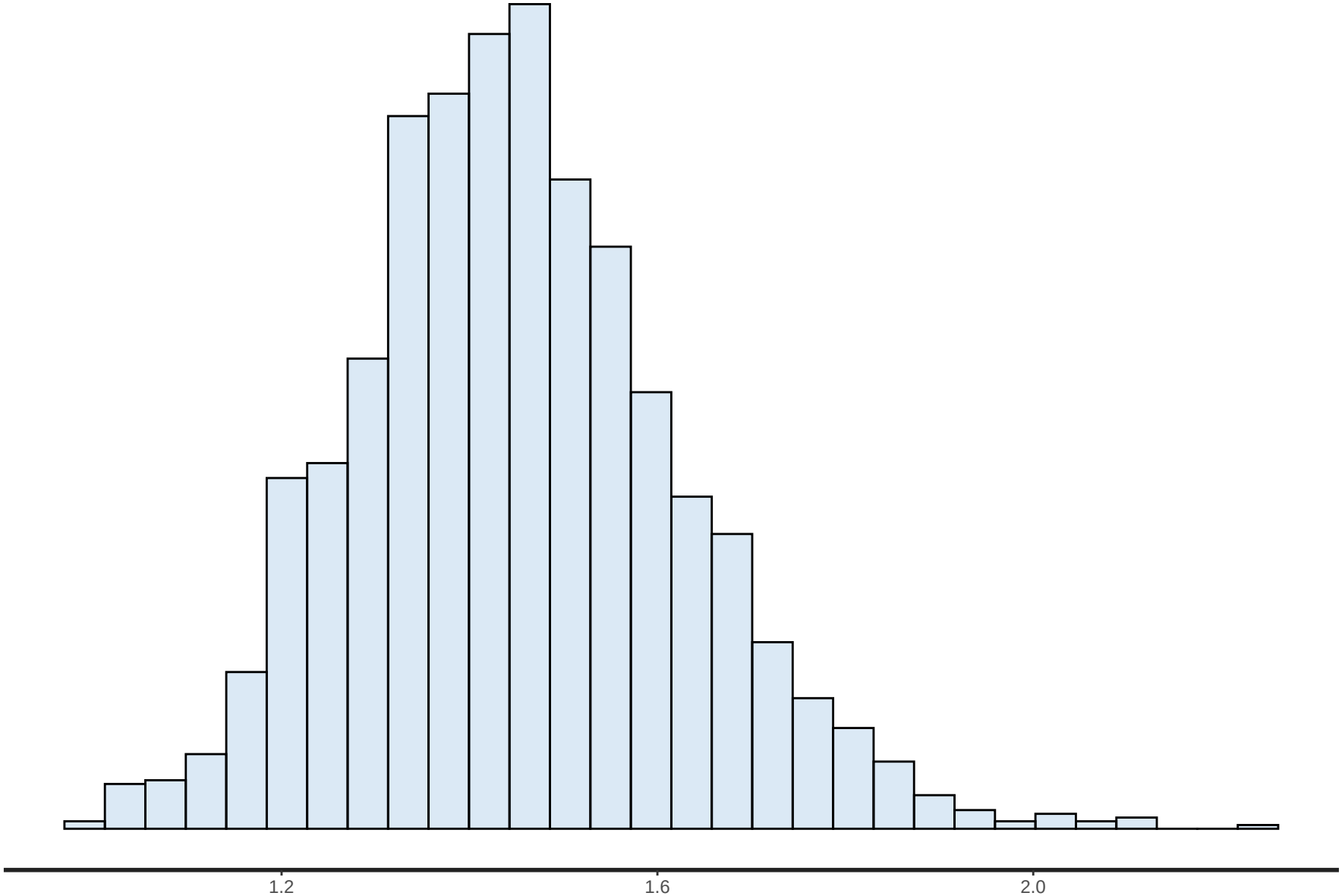

Short Term Death Projection
Number of COVID19 Deaths
150
125
100
75
50
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

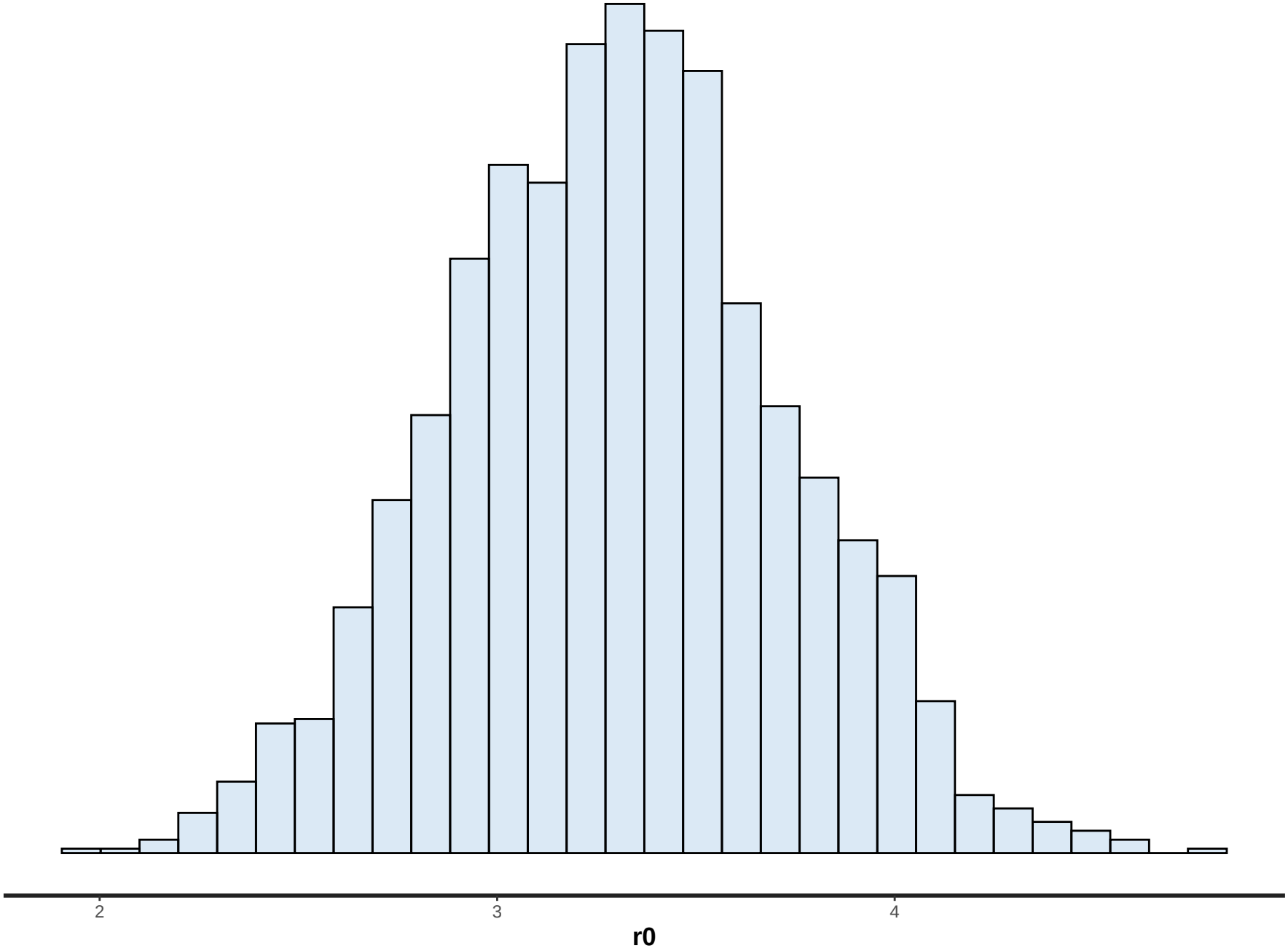

Long Term Death Projection
Number of COVID19 Deaths
500
400
300
200
100
0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

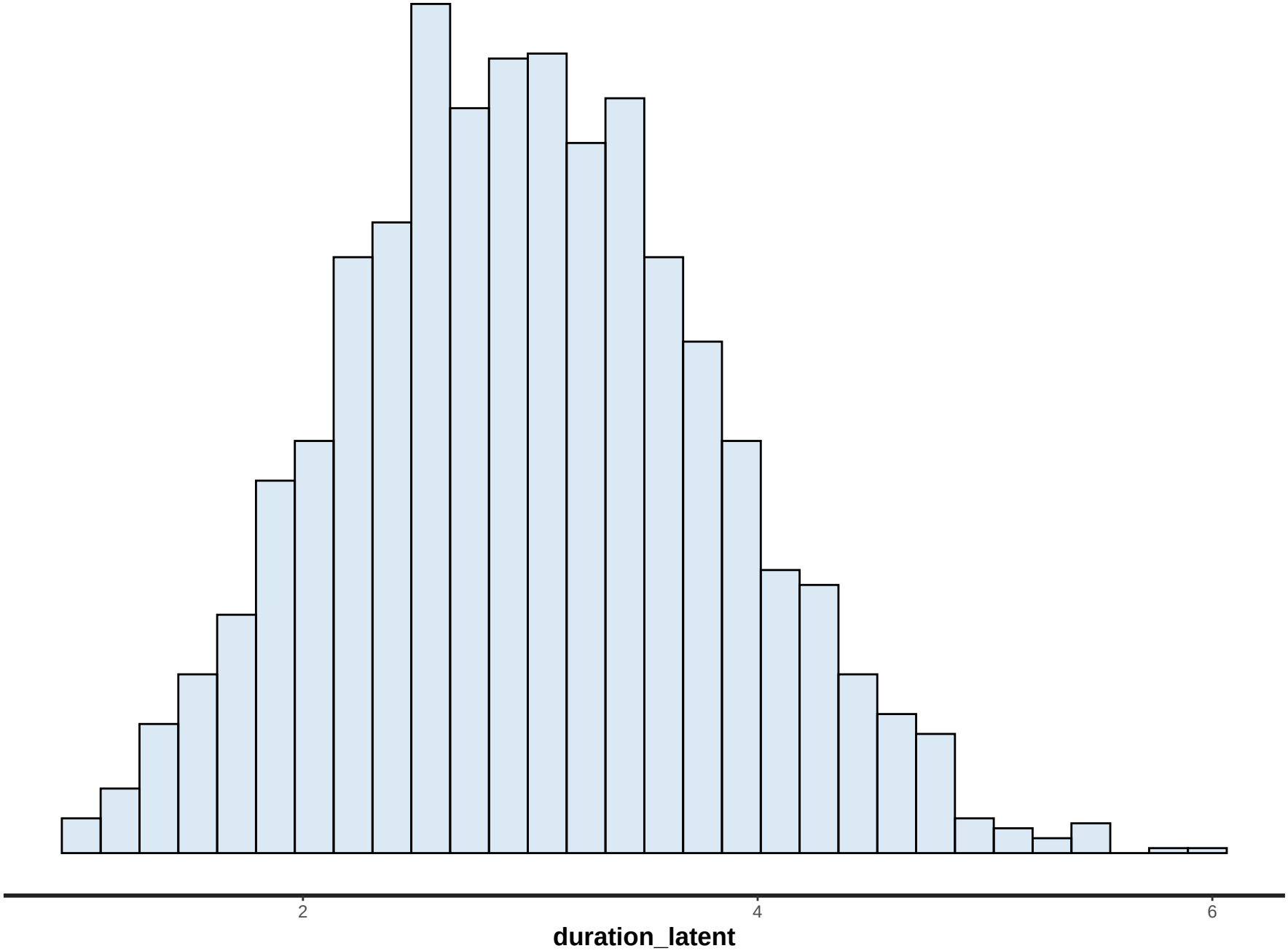

Effective Reproduction Number
Re
2.0
1.5
1.0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
5%−95%
15%−85%
25%−75%

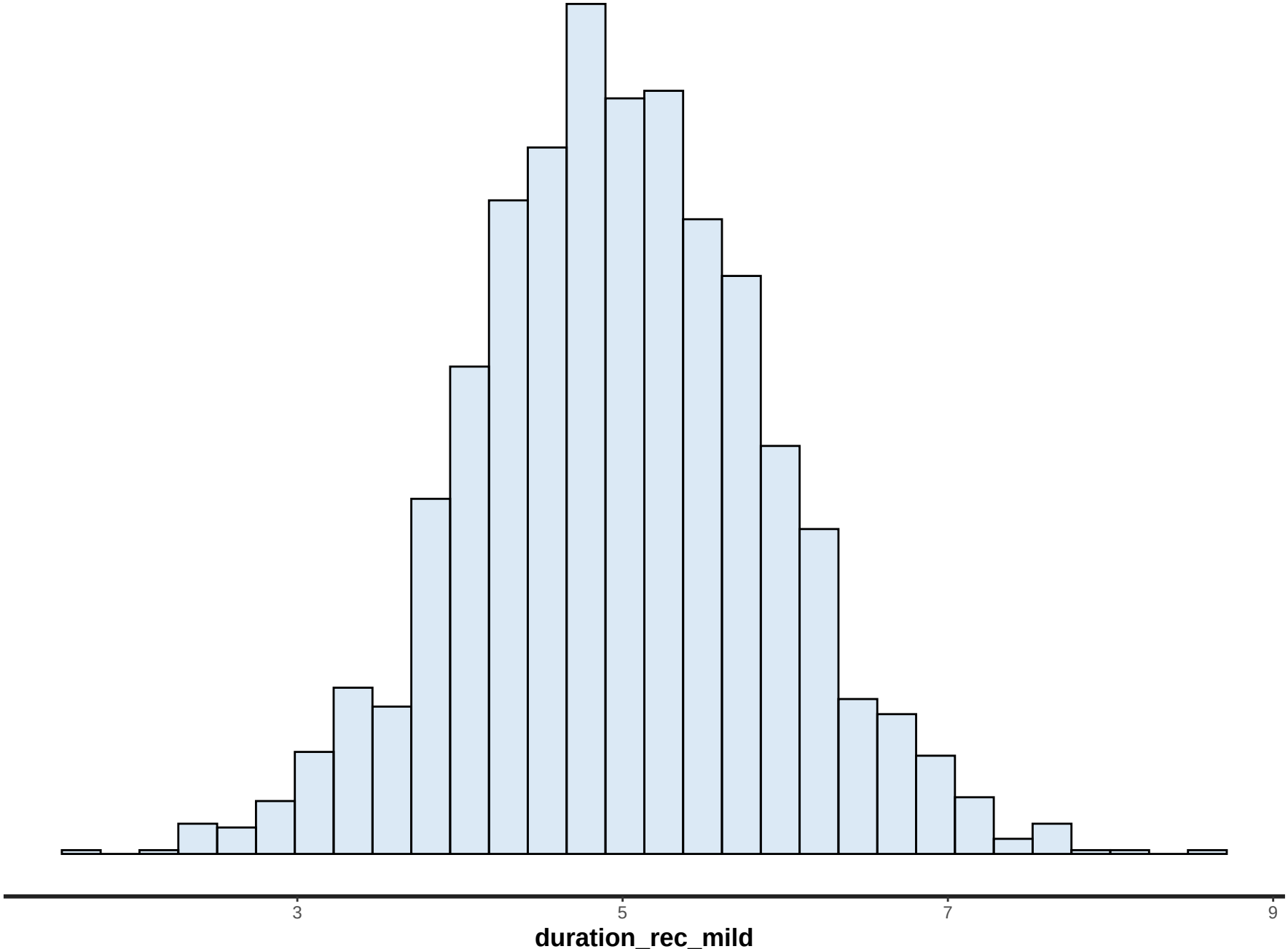
Rt as of 2020−12−08

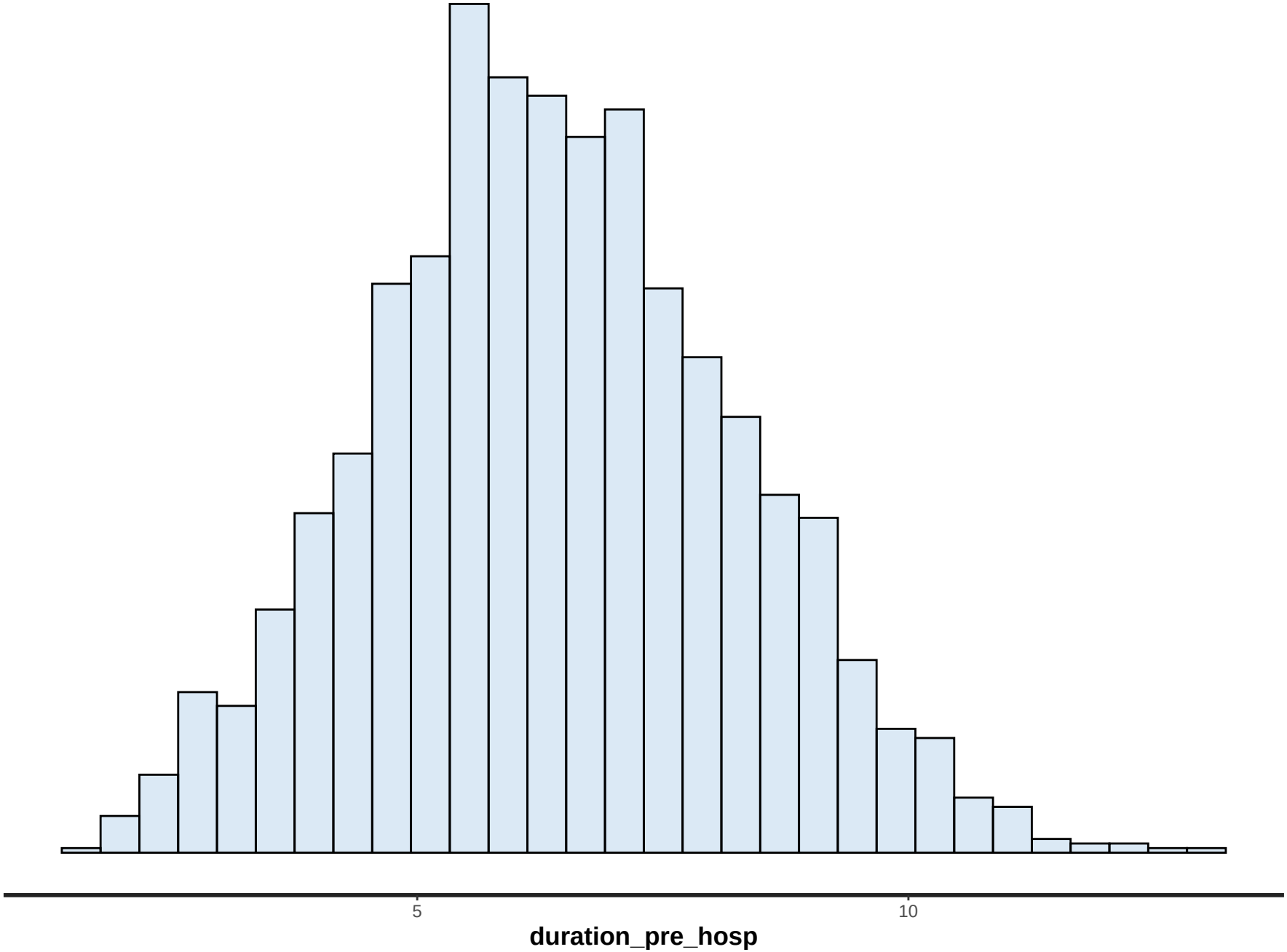
5%	10%	25%	50%	75%	90%	95%
1.19	1.24	1.34	1.44	1.55	1.67	1.75

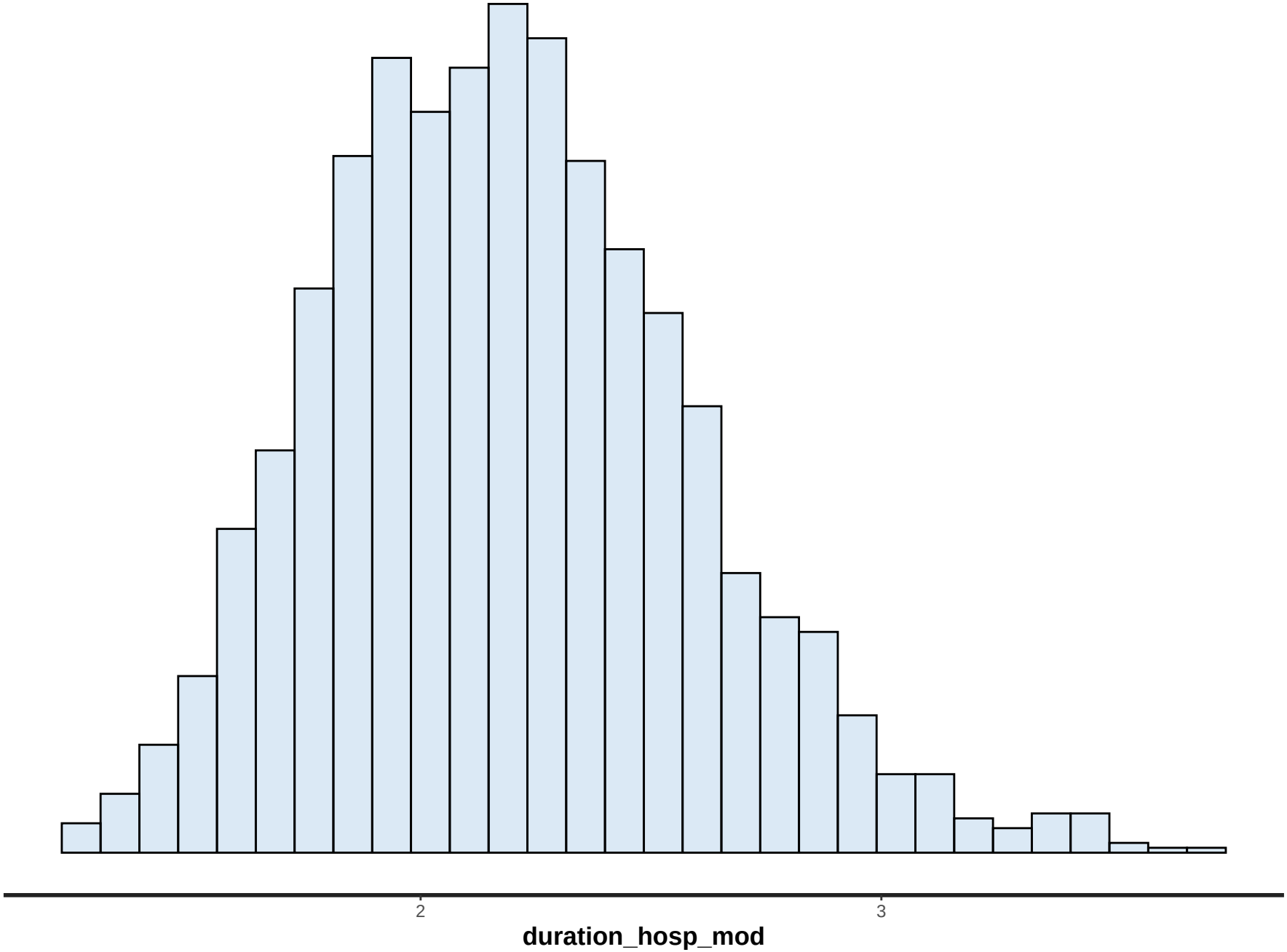


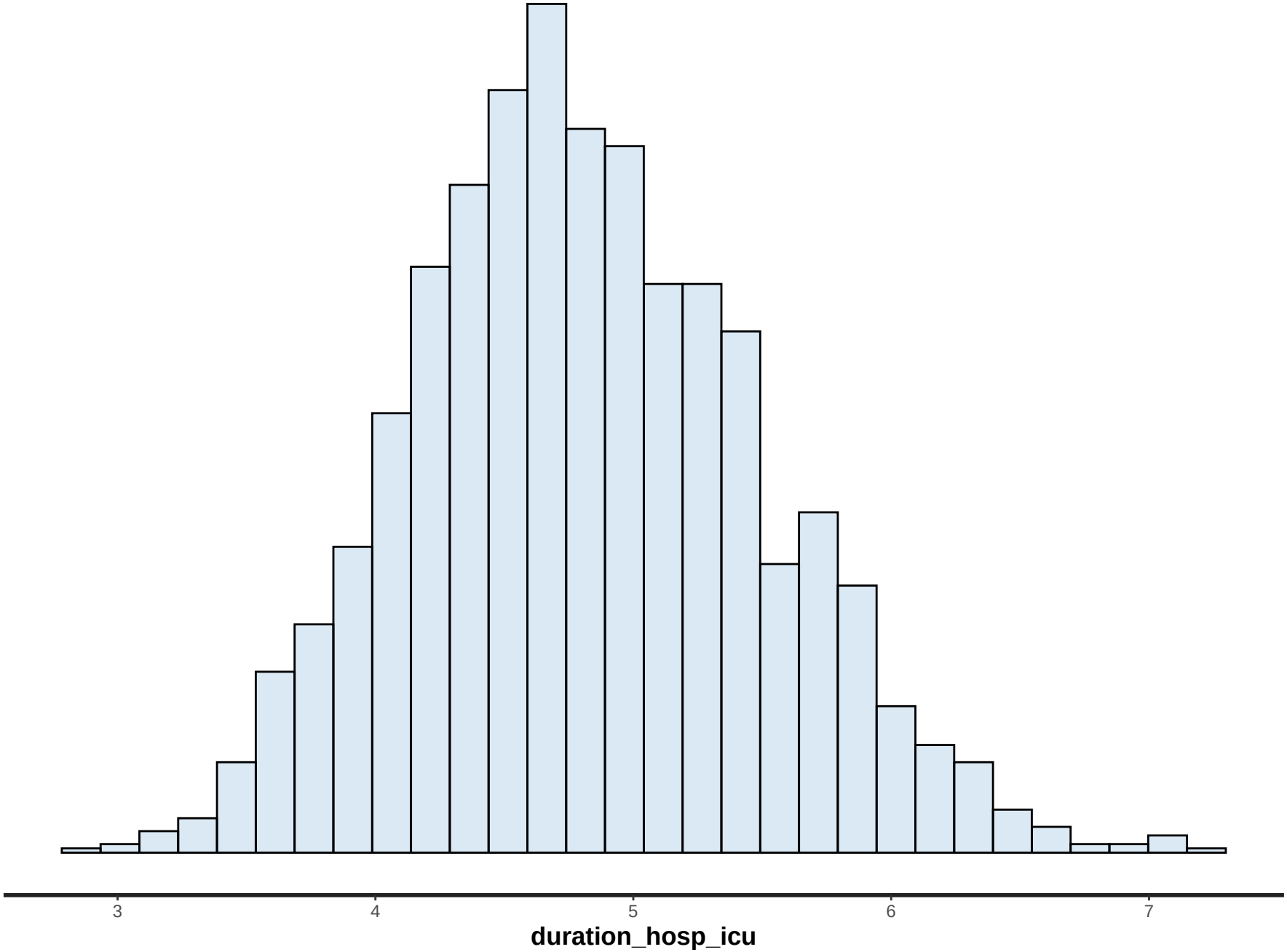

2
3
4
r0

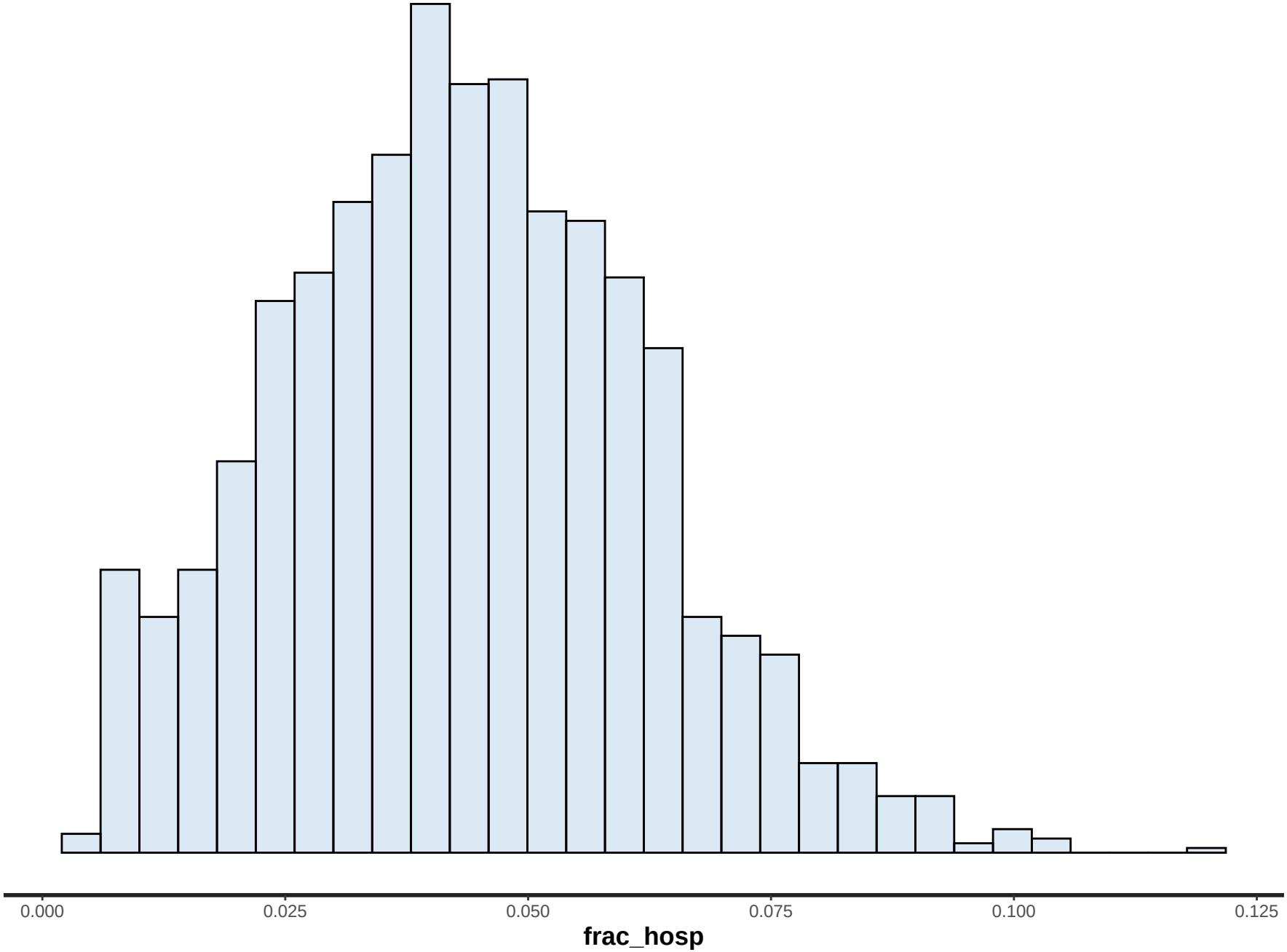

2
4
6
duration_latent


3
5
7
9
duration_rec_mild


5
10
duration_pre_hosp


2
3
duration_hosp_mod


3
4
5
6
7
duration_hosp_icu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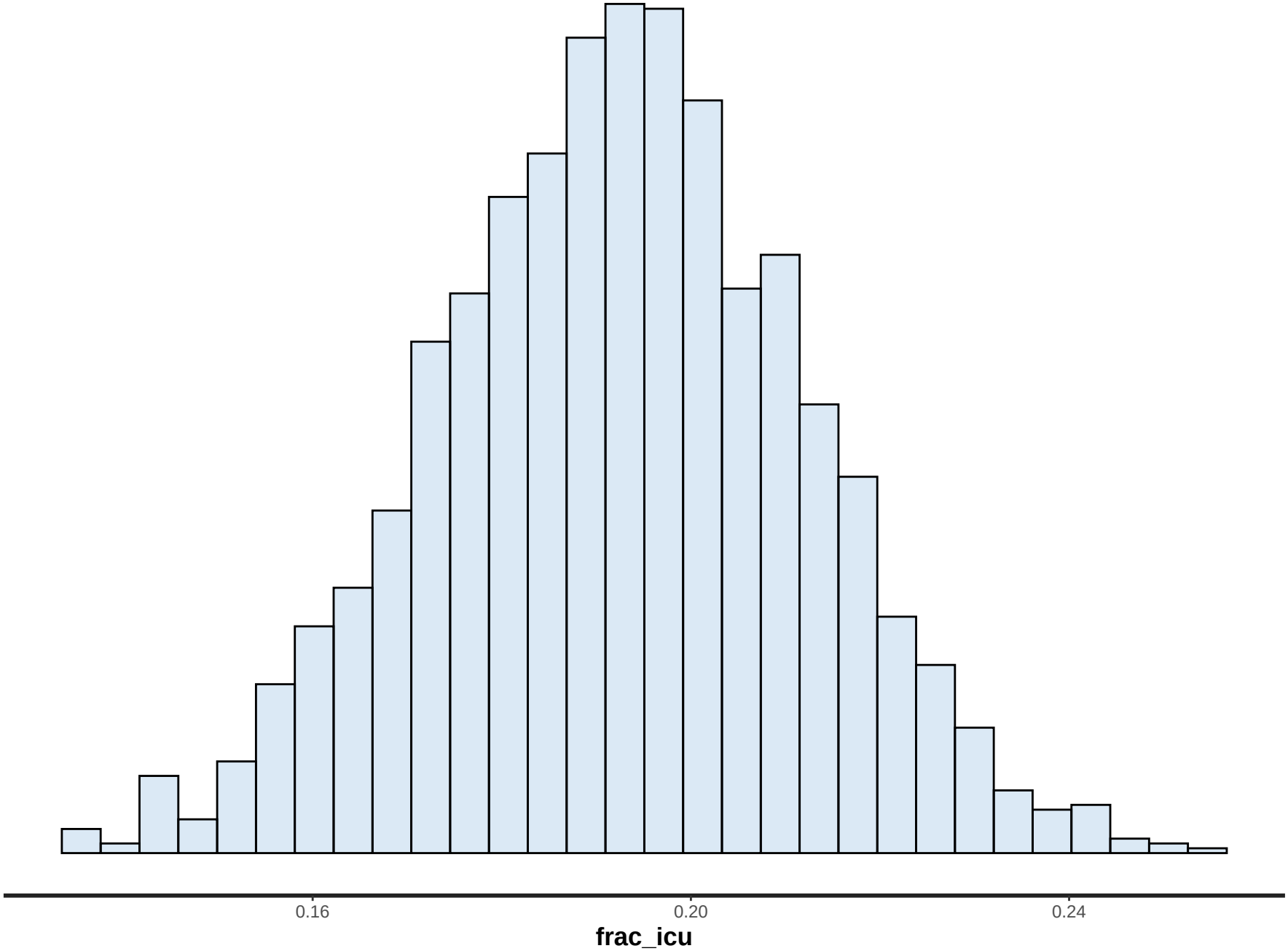
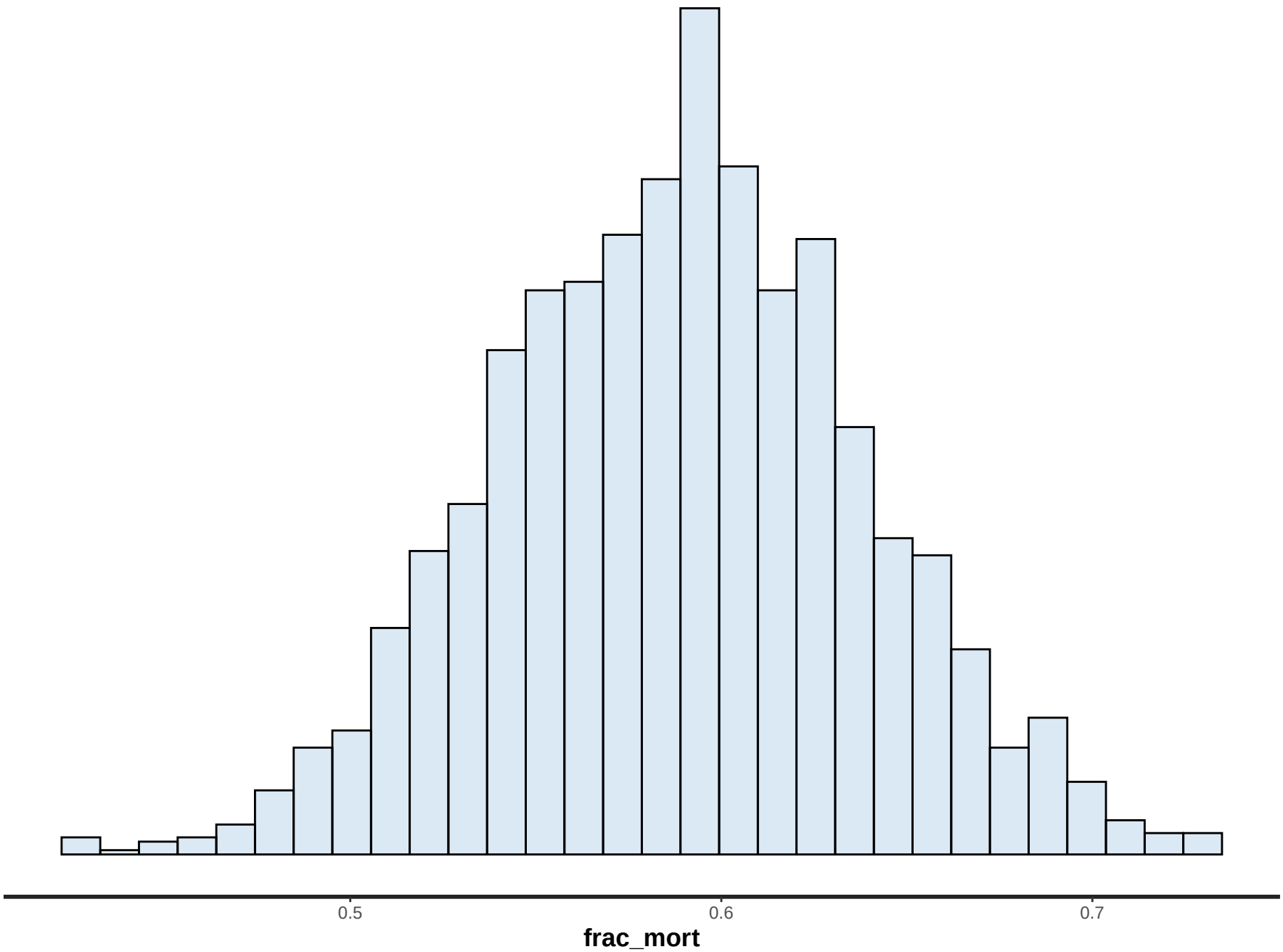
0.025
0.050
0.075
0.100
0.125
frac_hosp


0.16
0.20
0.24
frac_icu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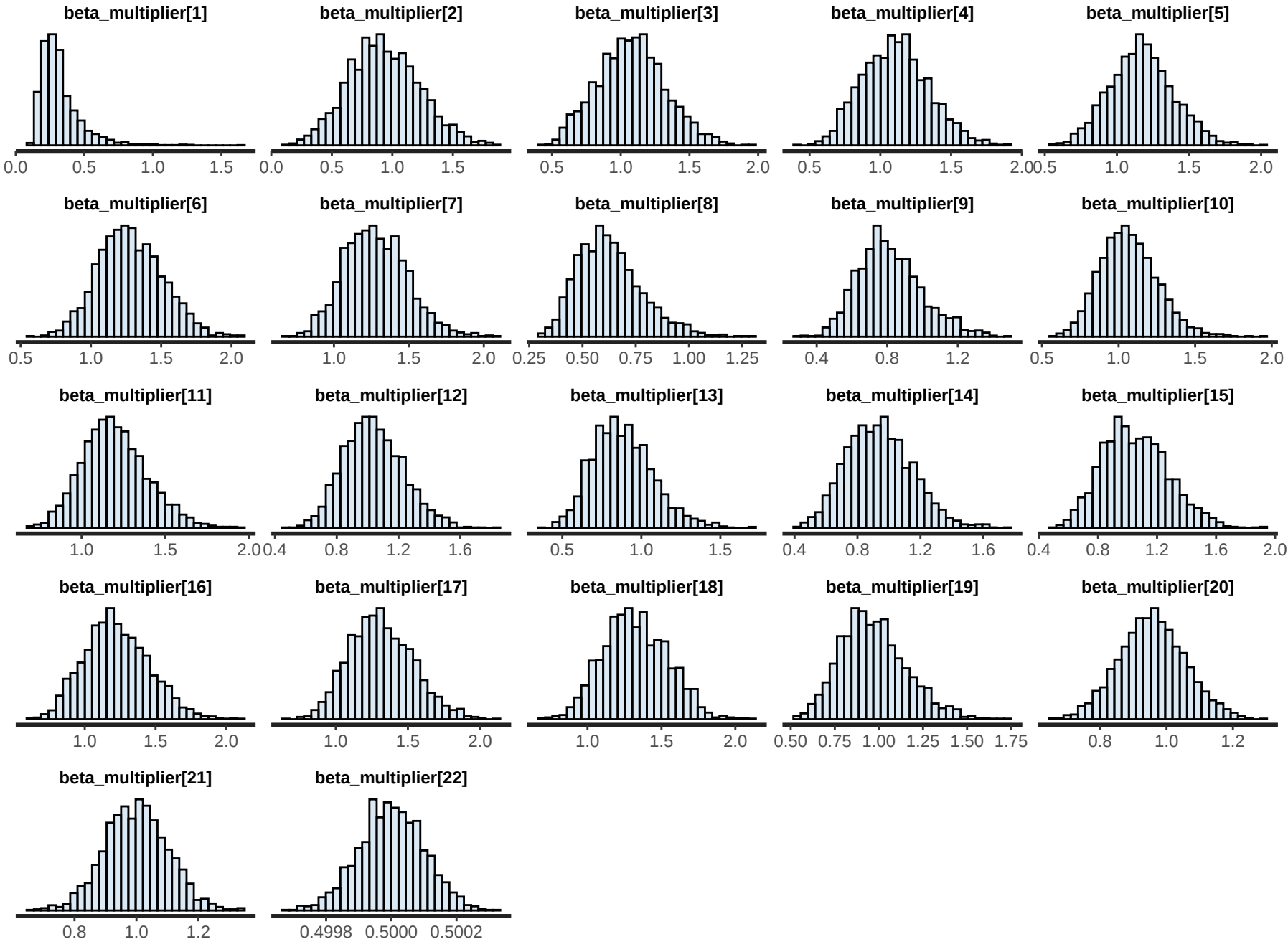
0.6
0.7
frac_mort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beta_multiplier[4]
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beta_multiplier[5]
0.5 1.0 1.5 2.0
beta_multiplier[6]
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beta_multiplier[7]
1.0 1.5 2.0
beta_multiplier[8]
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beta_multiplier[9]
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beta_multiplier[10]
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beta_multiplier[11]
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beta_multiplier[12]
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beta_multiplier[22]
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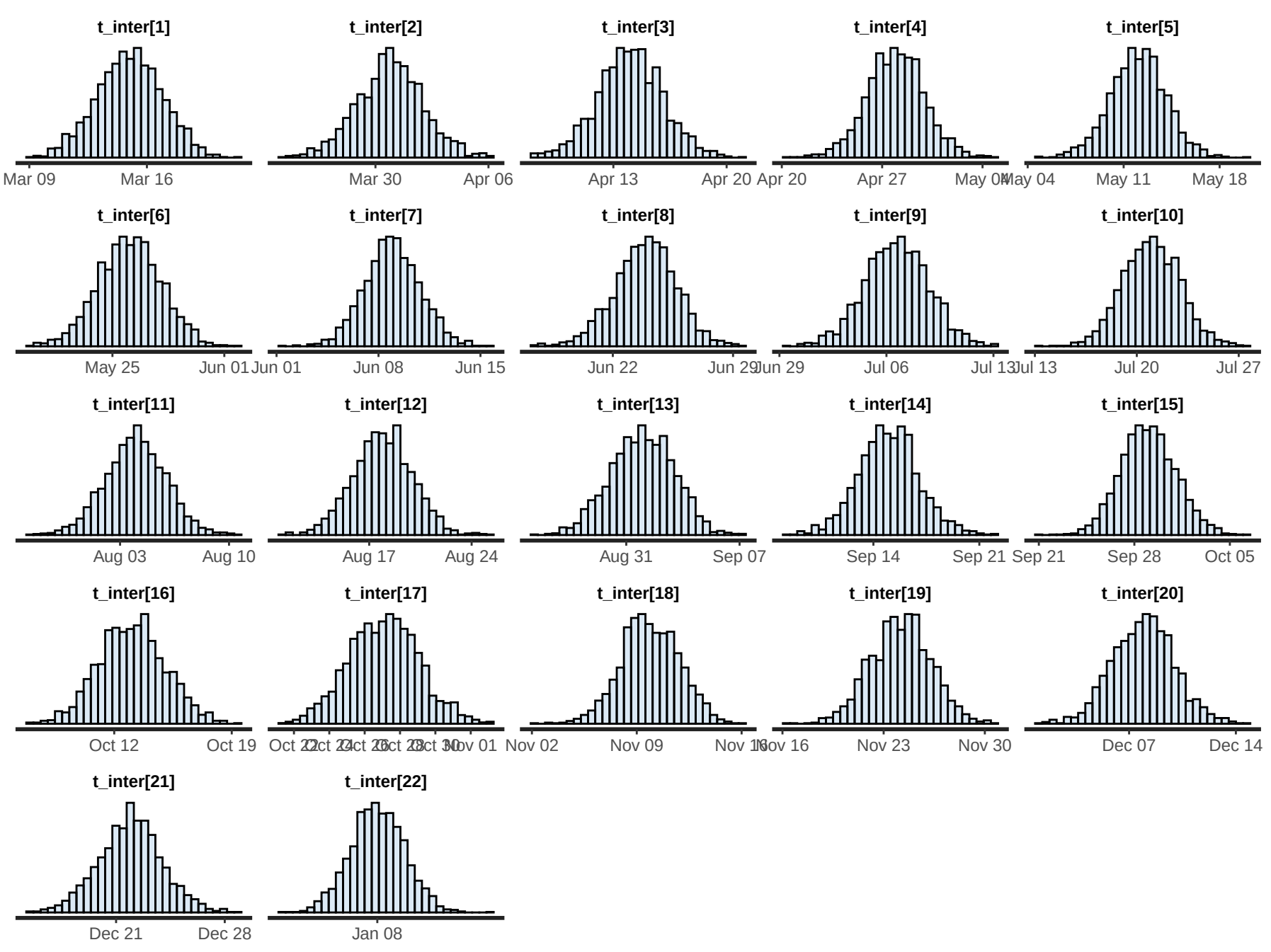
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May 04
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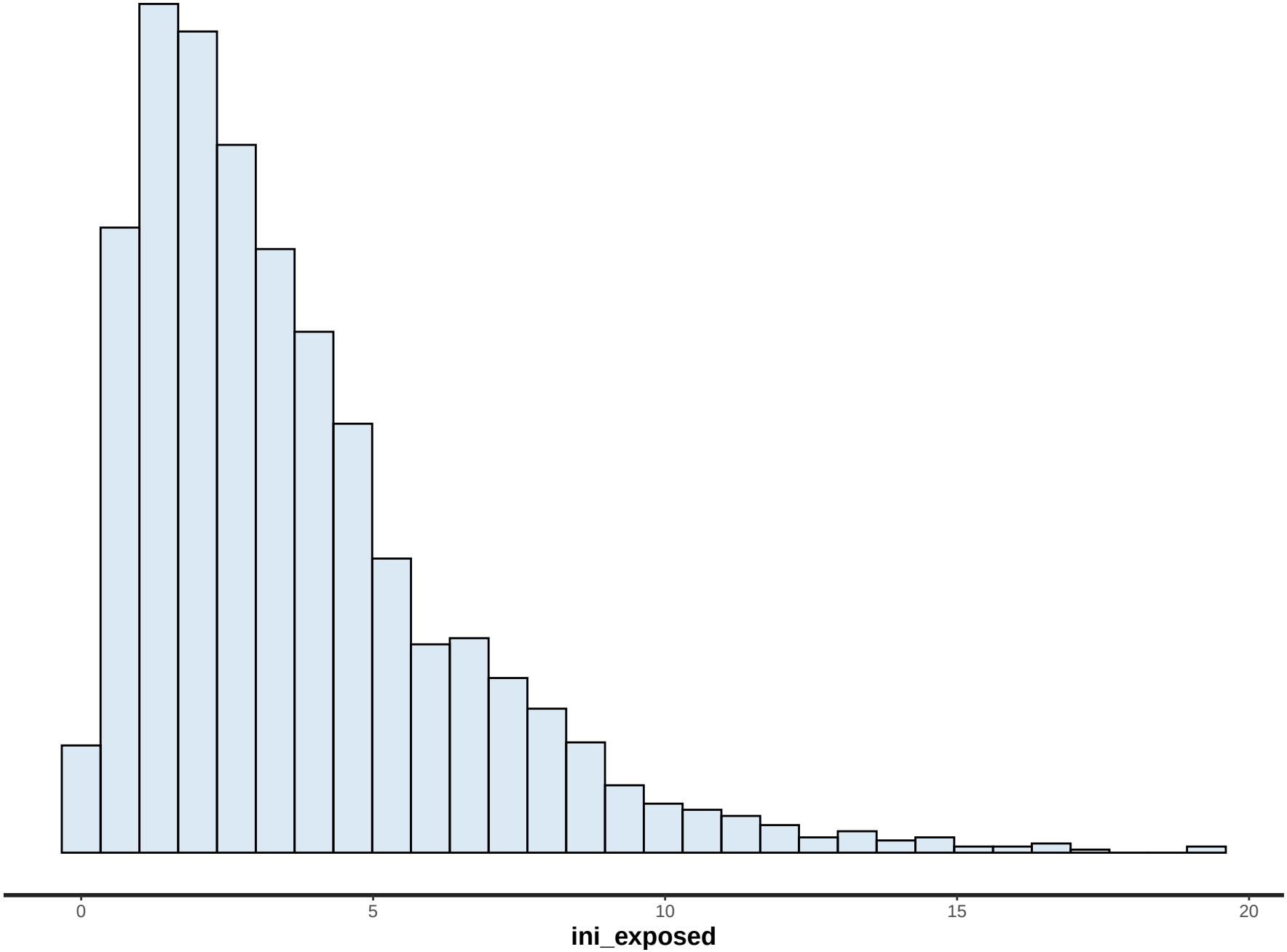
Dec 28
t_inter[22]
Jan 08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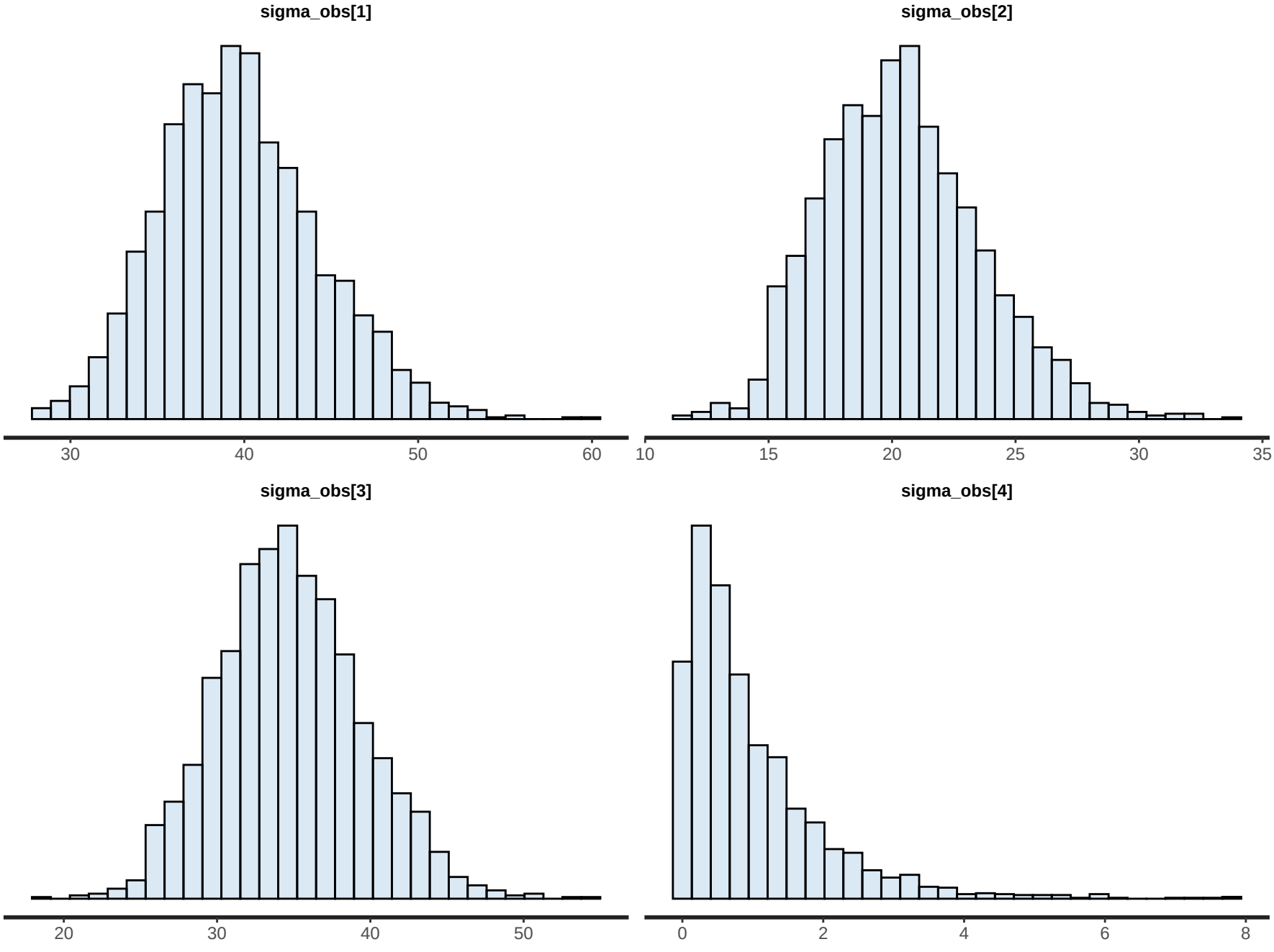
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sigma_obs[4]
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