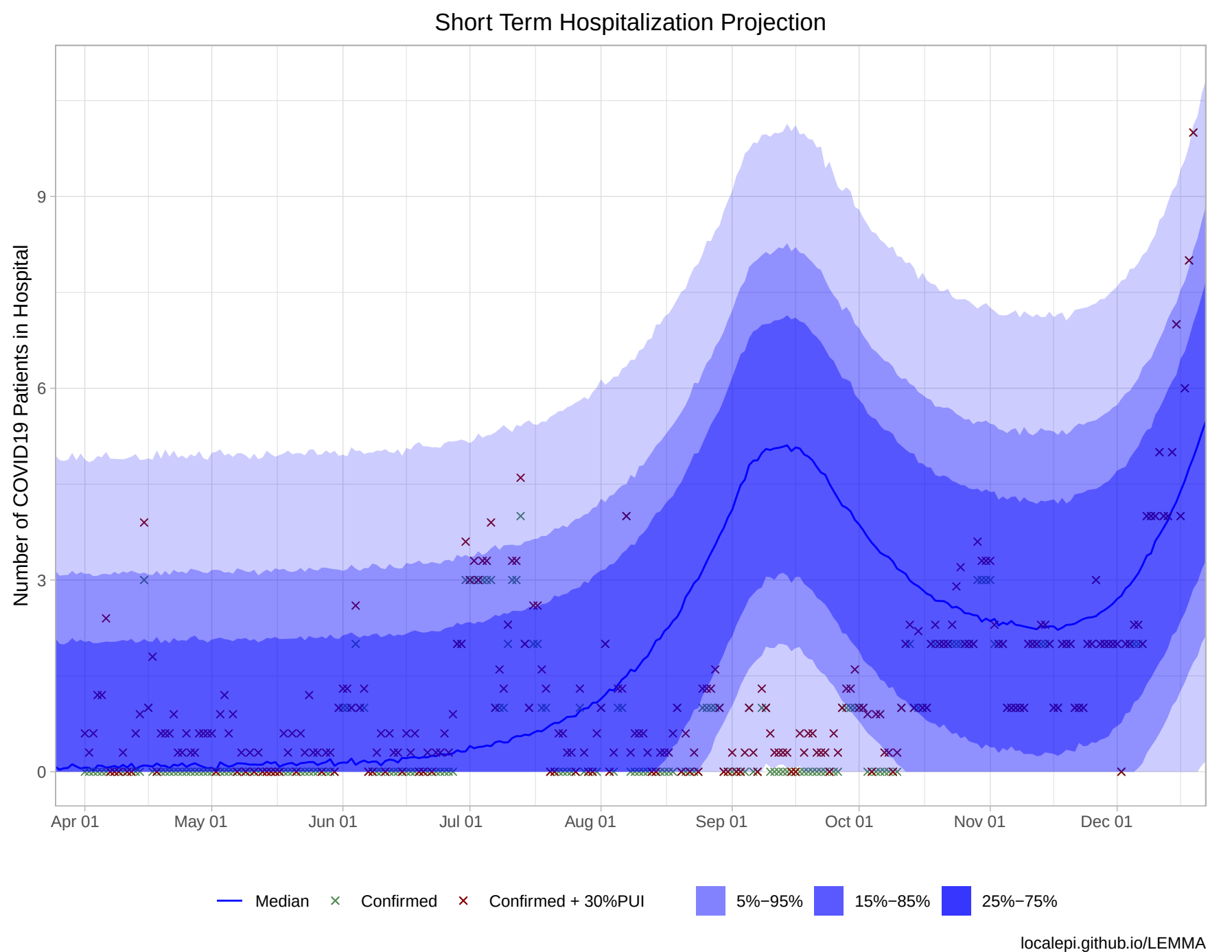
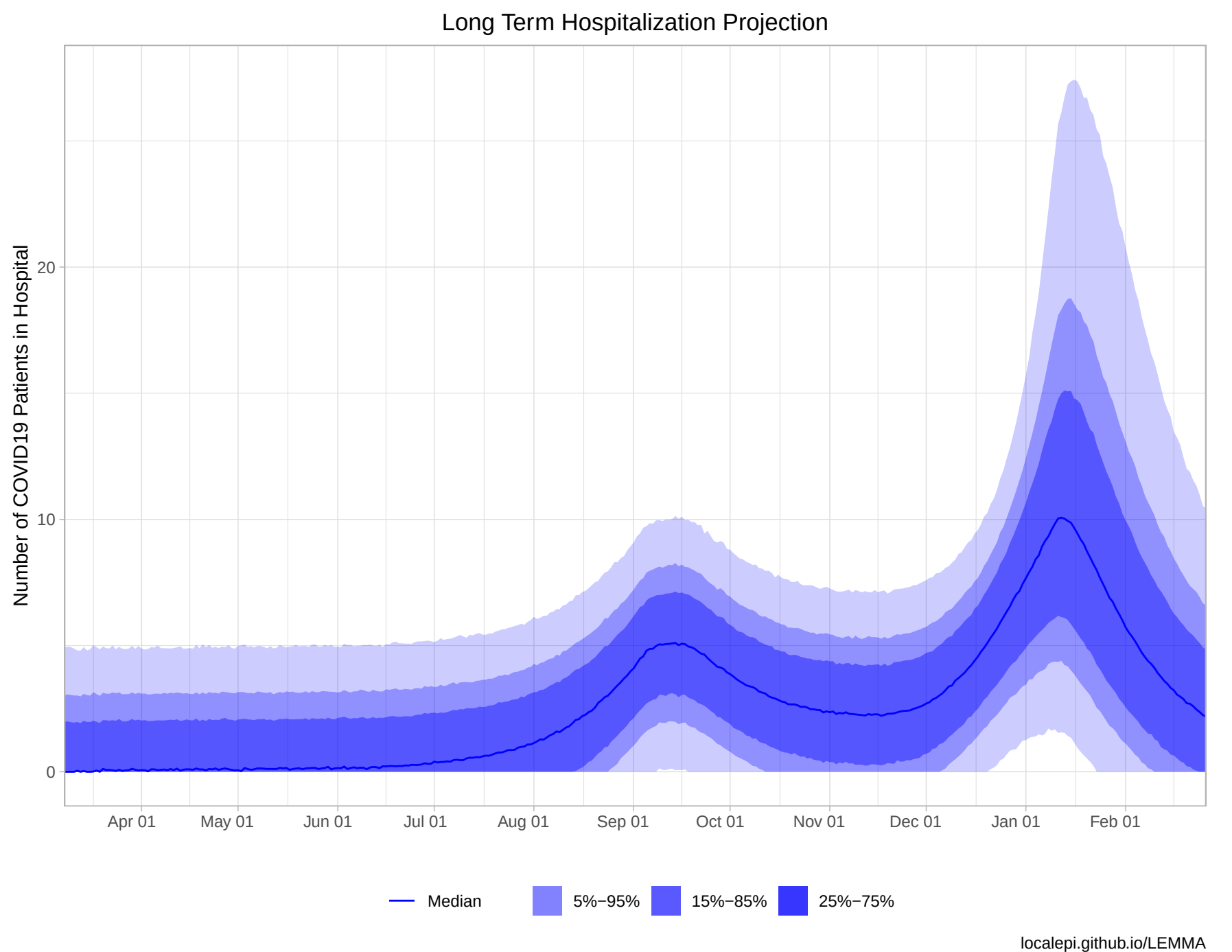
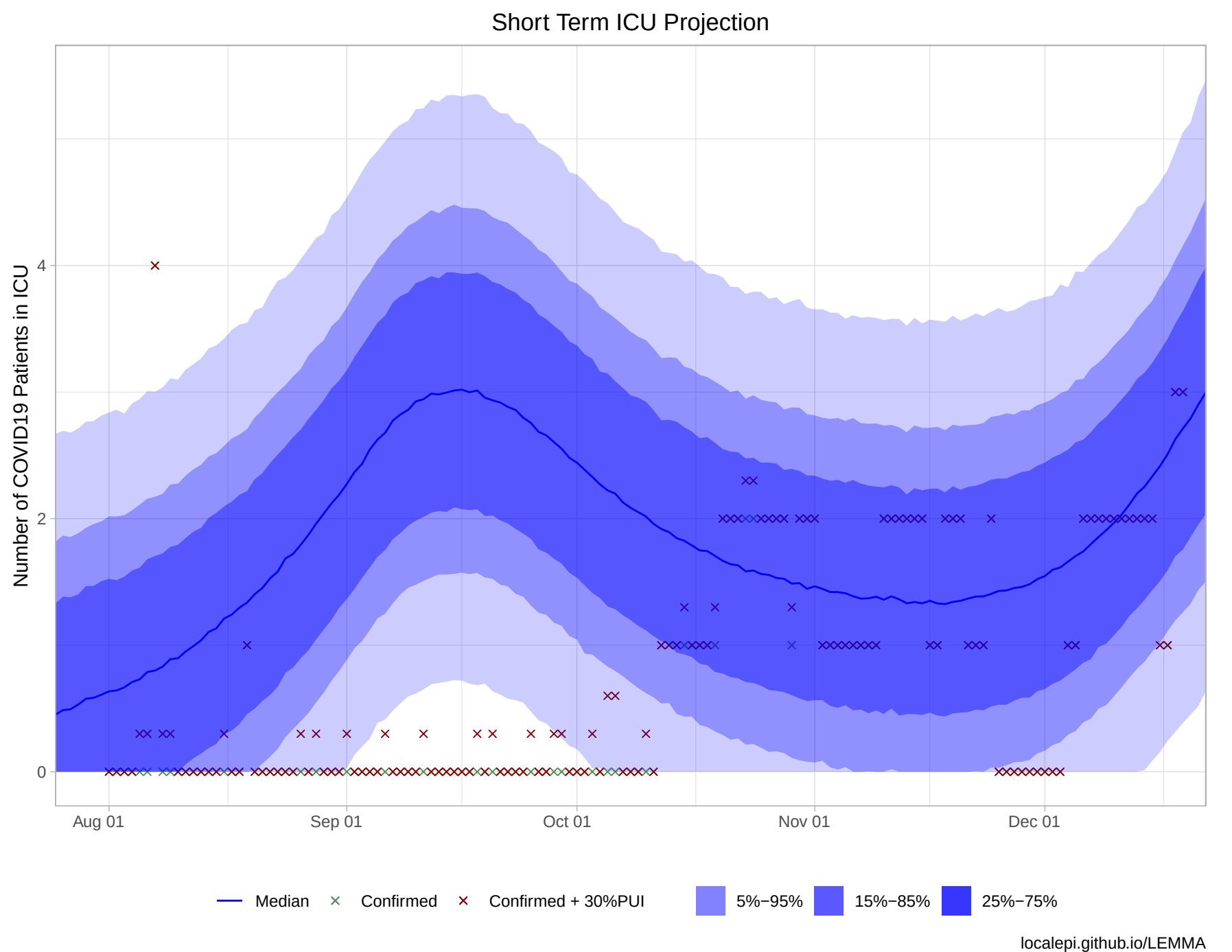
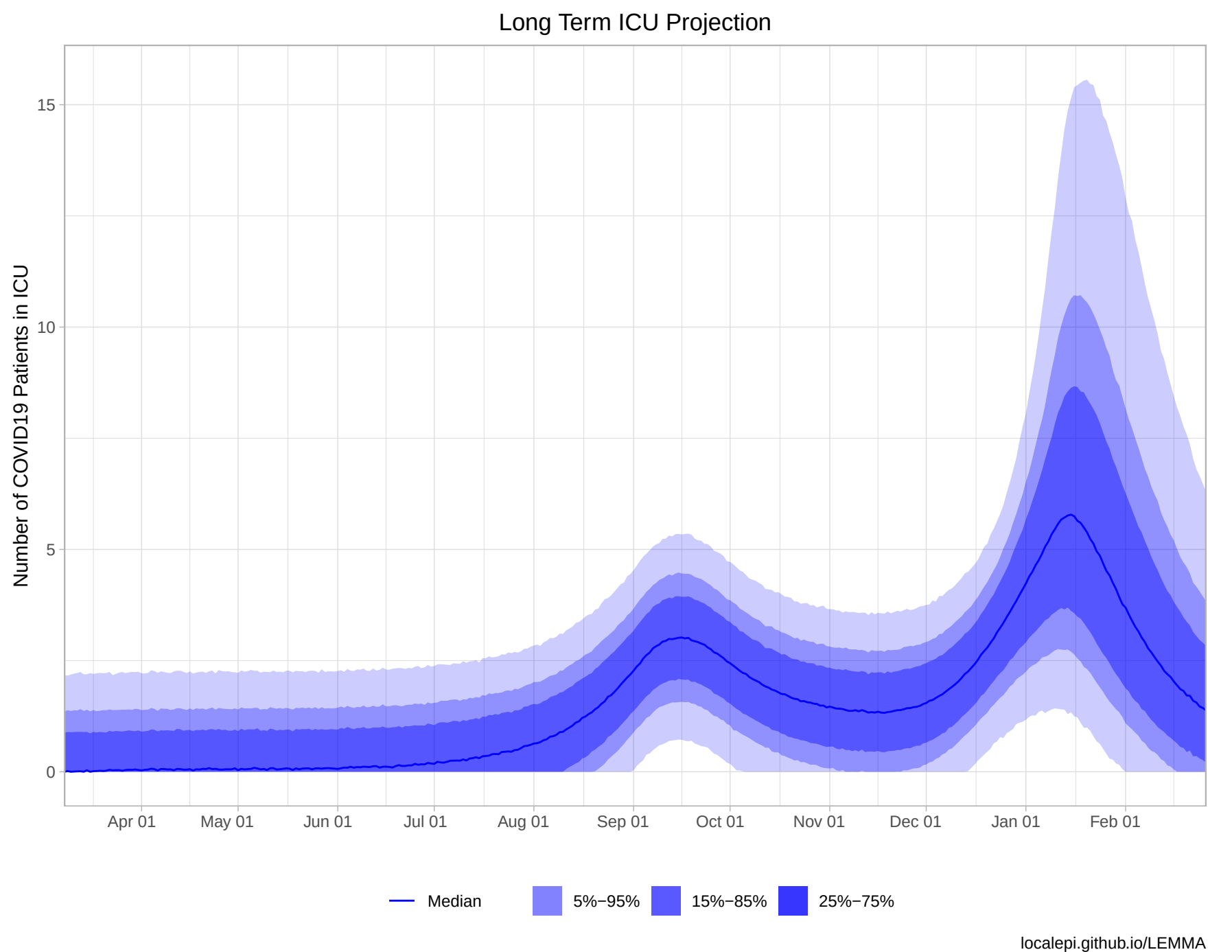
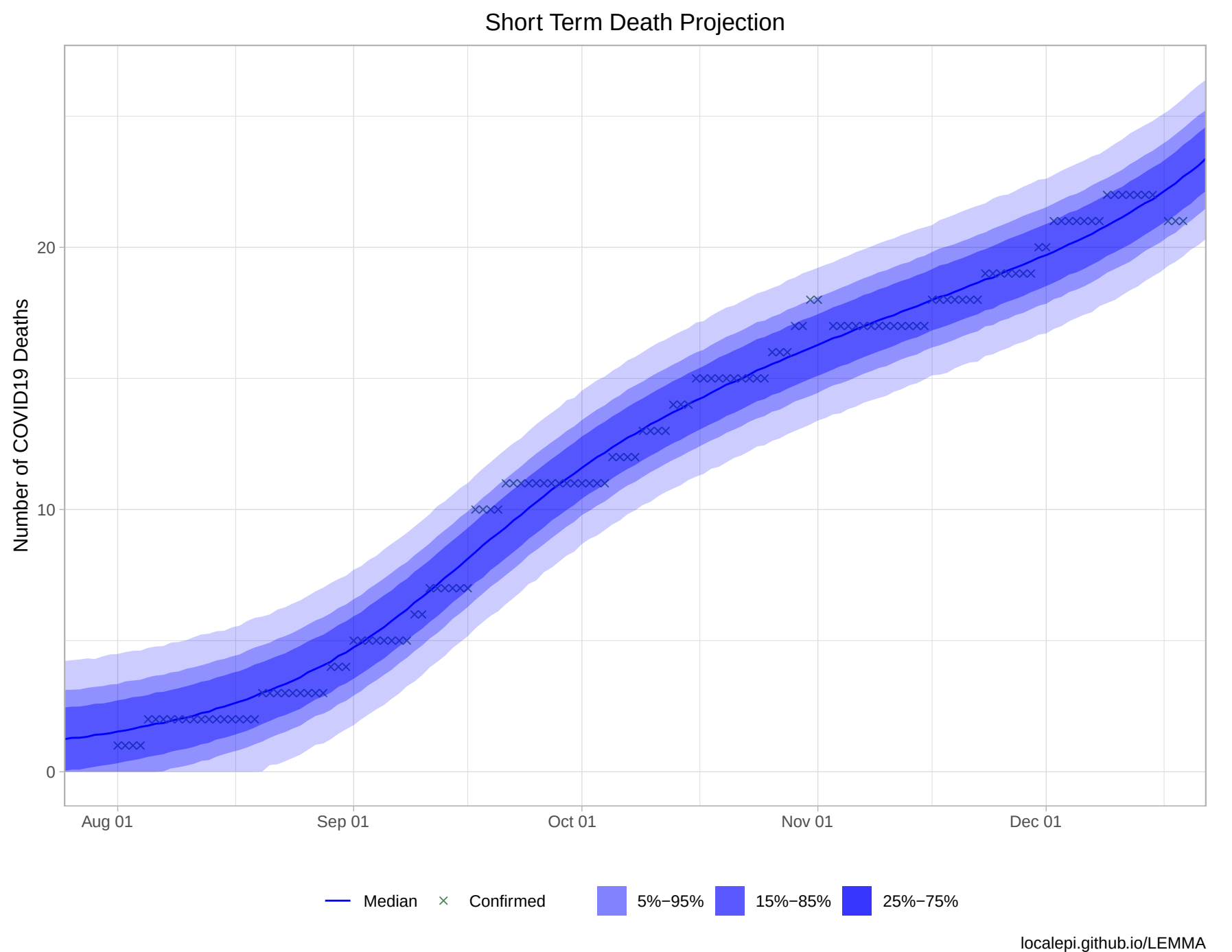
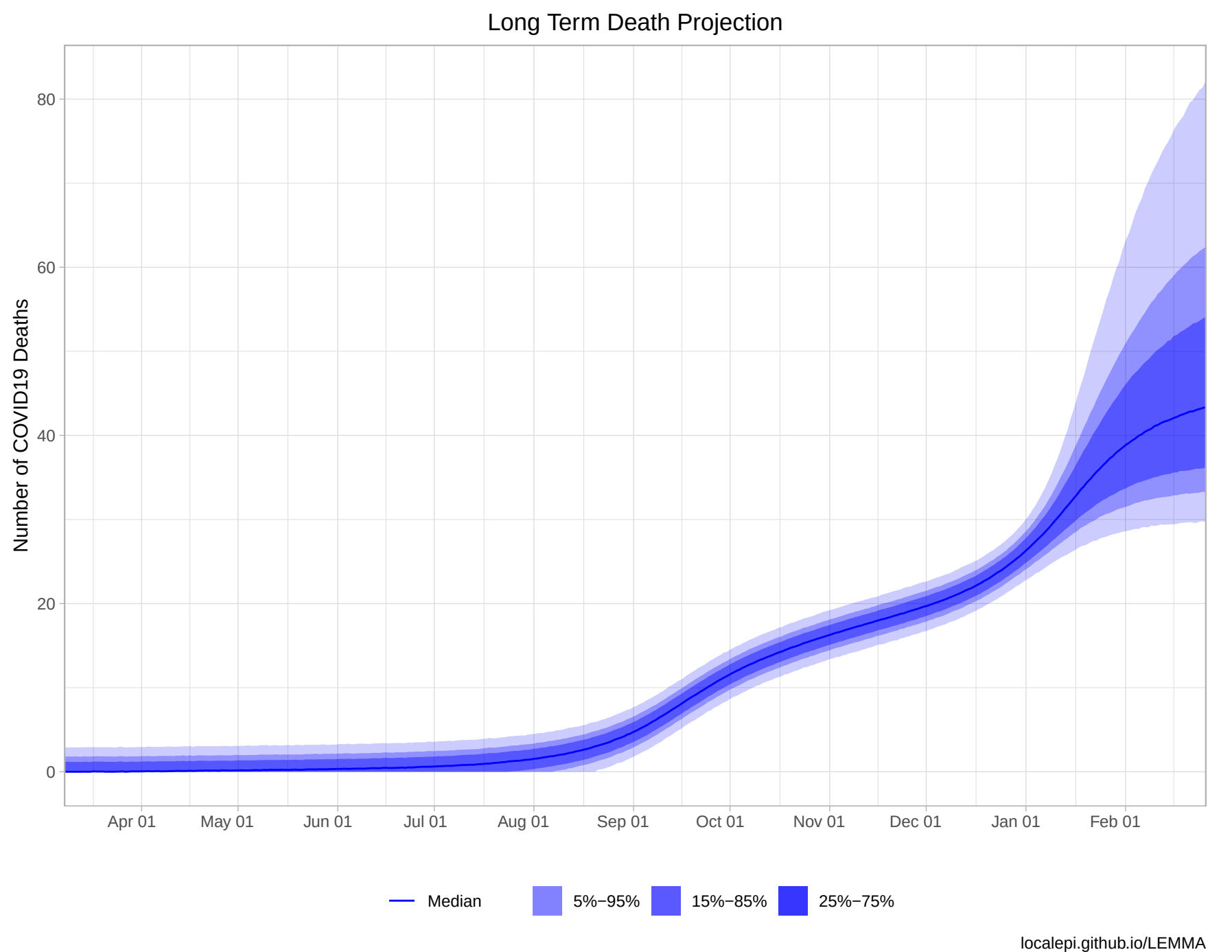

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
3
6
9
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

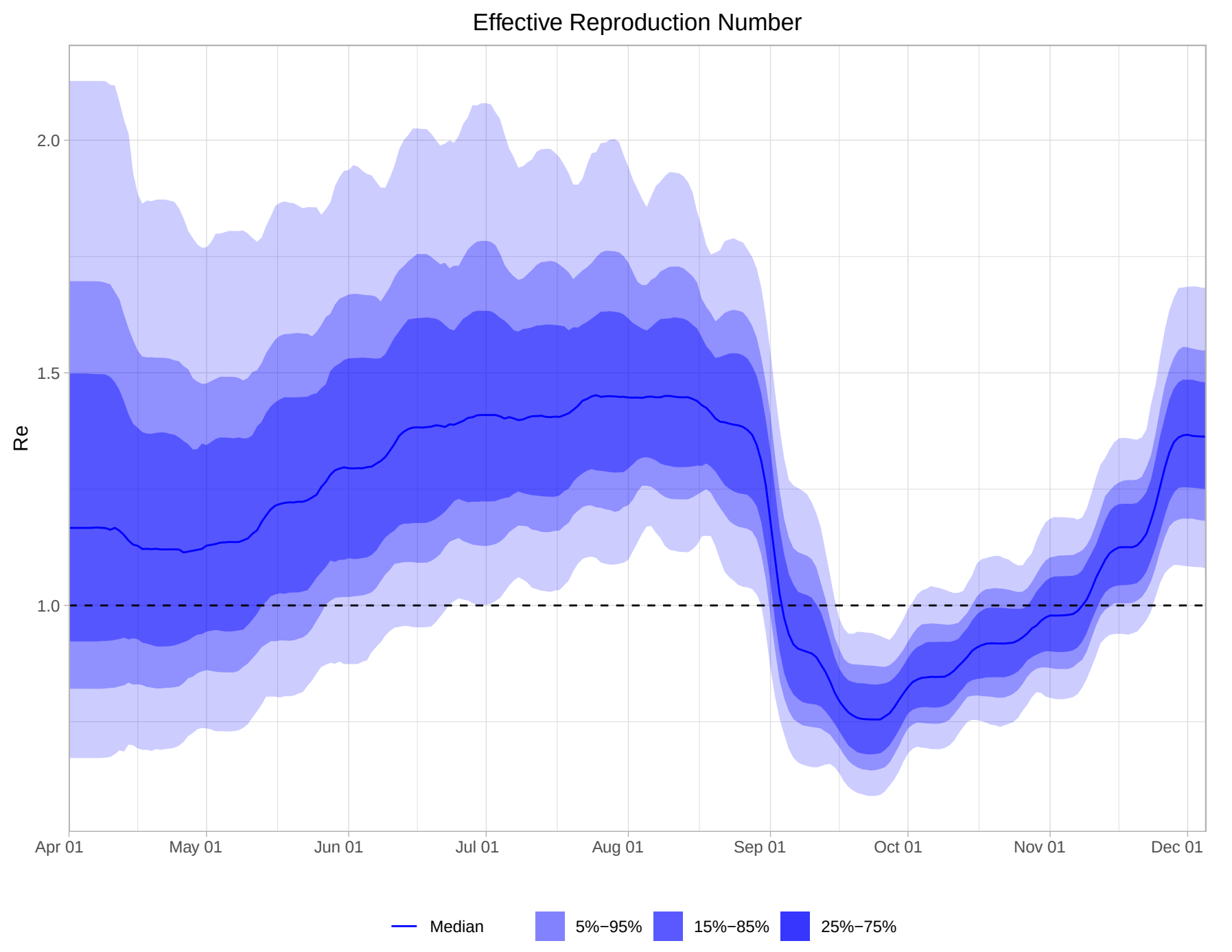

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
10
20
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


Short Term ICU Projection
Number of COVID19 Patients in ICU
0
2
4
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
15
10
5
0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

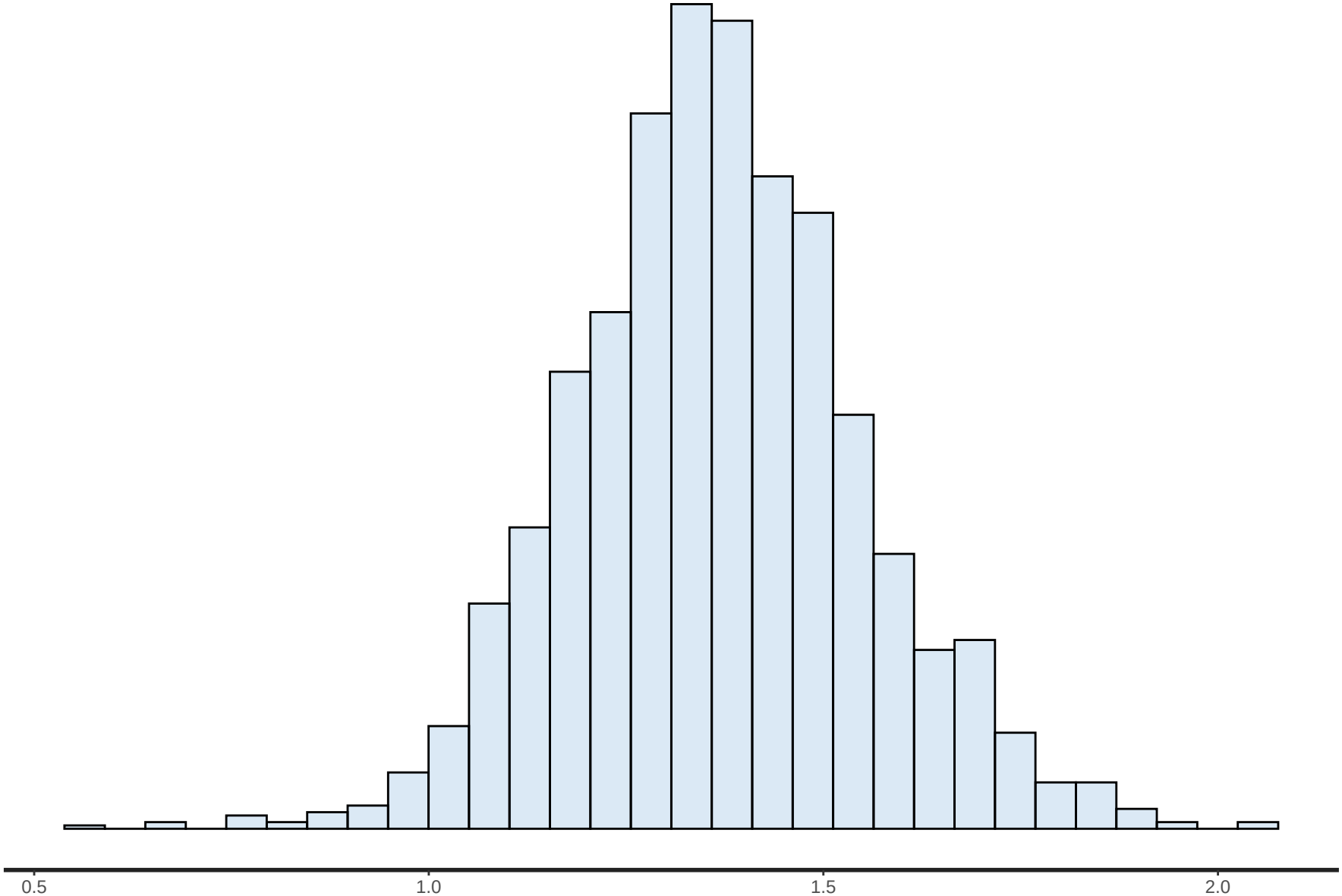

Short Term Death Projection
Number of COVID19 Deaths
0
10
20
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

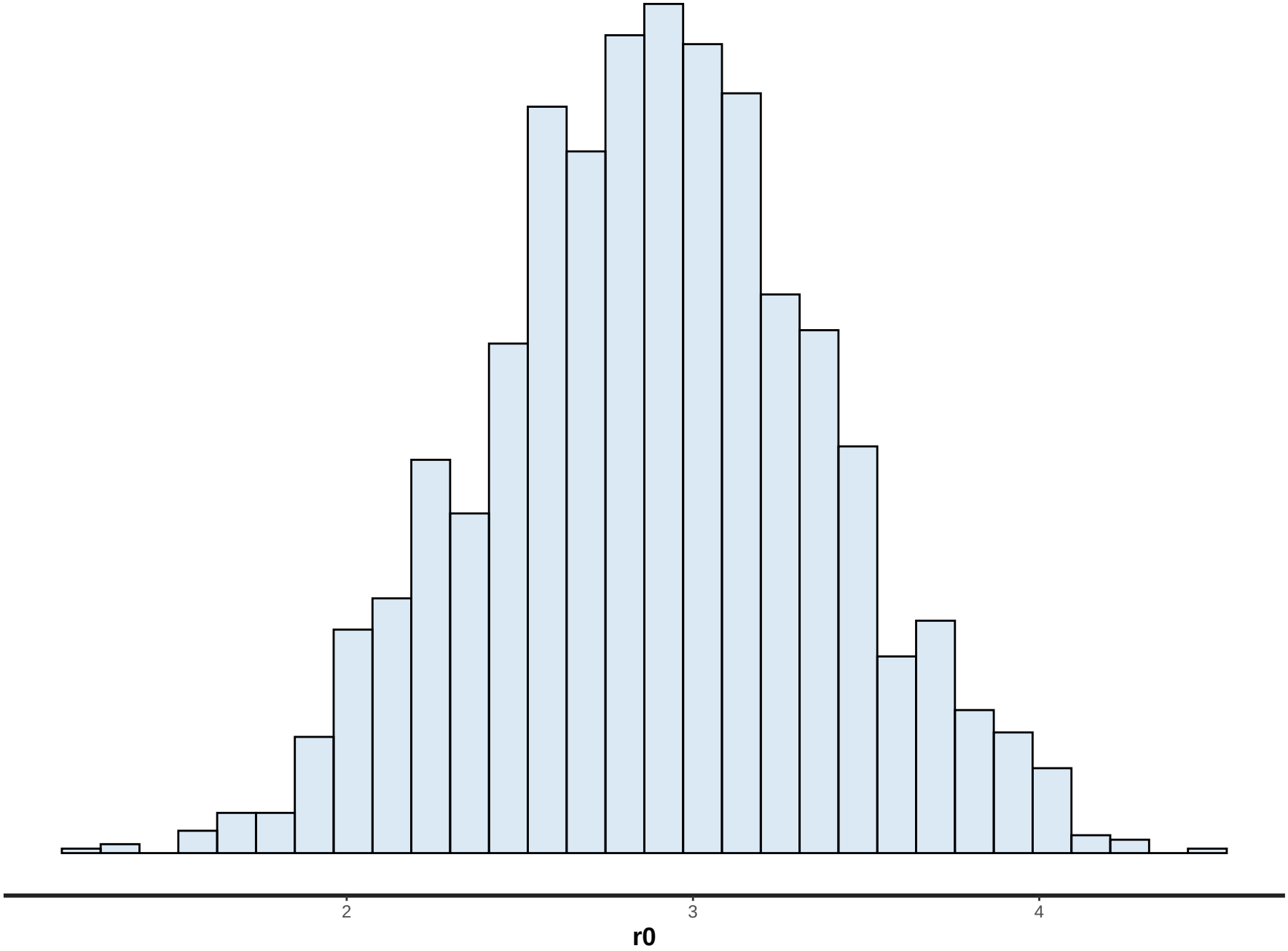

Long Term Death Projection
Number of COVID19 Deaths
0
20
40
60
80
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

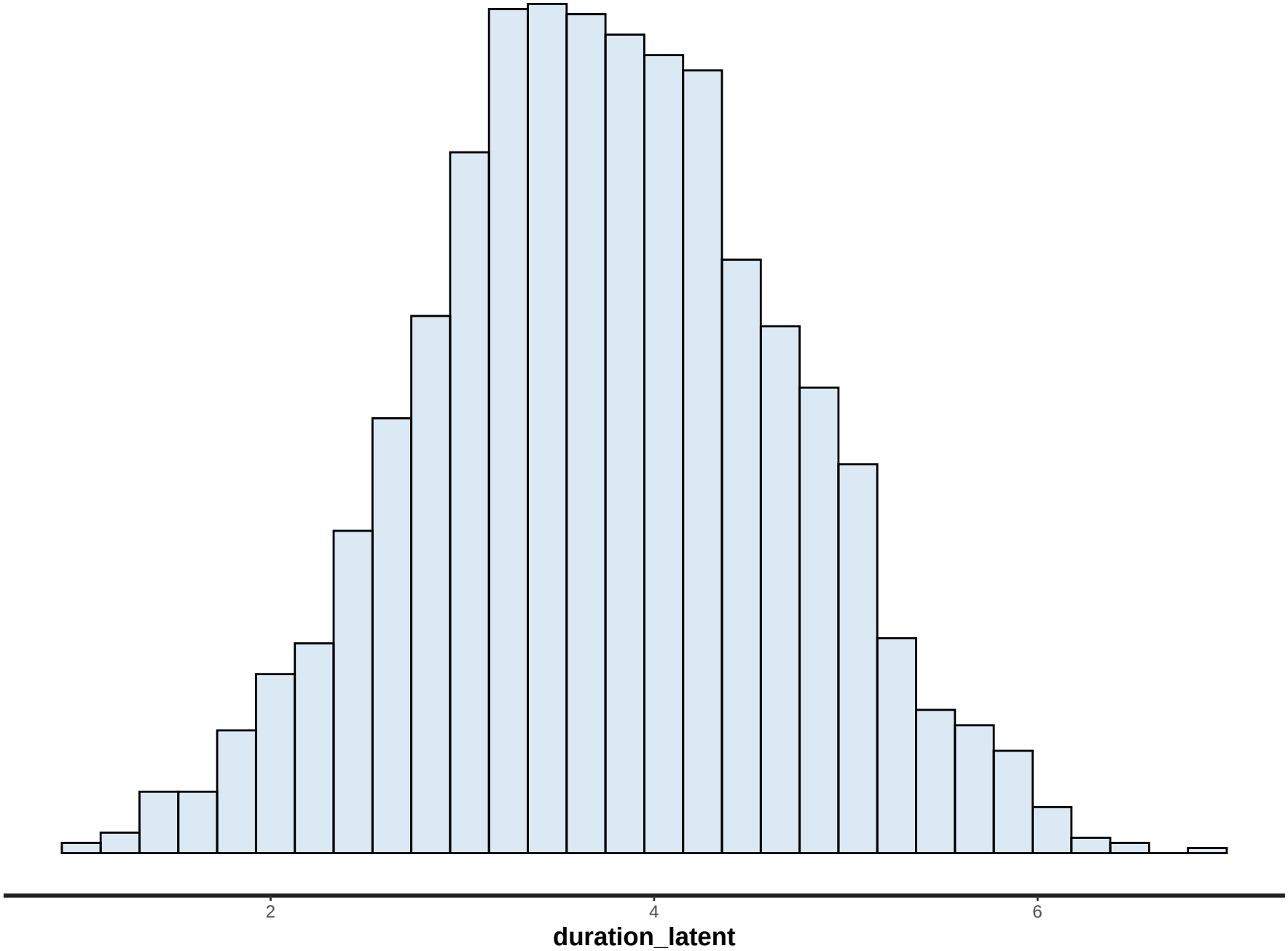

Effective Reproduction Number
Re
2.0
1.5
1.0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
5%−95%
15%−85%
25%−75%

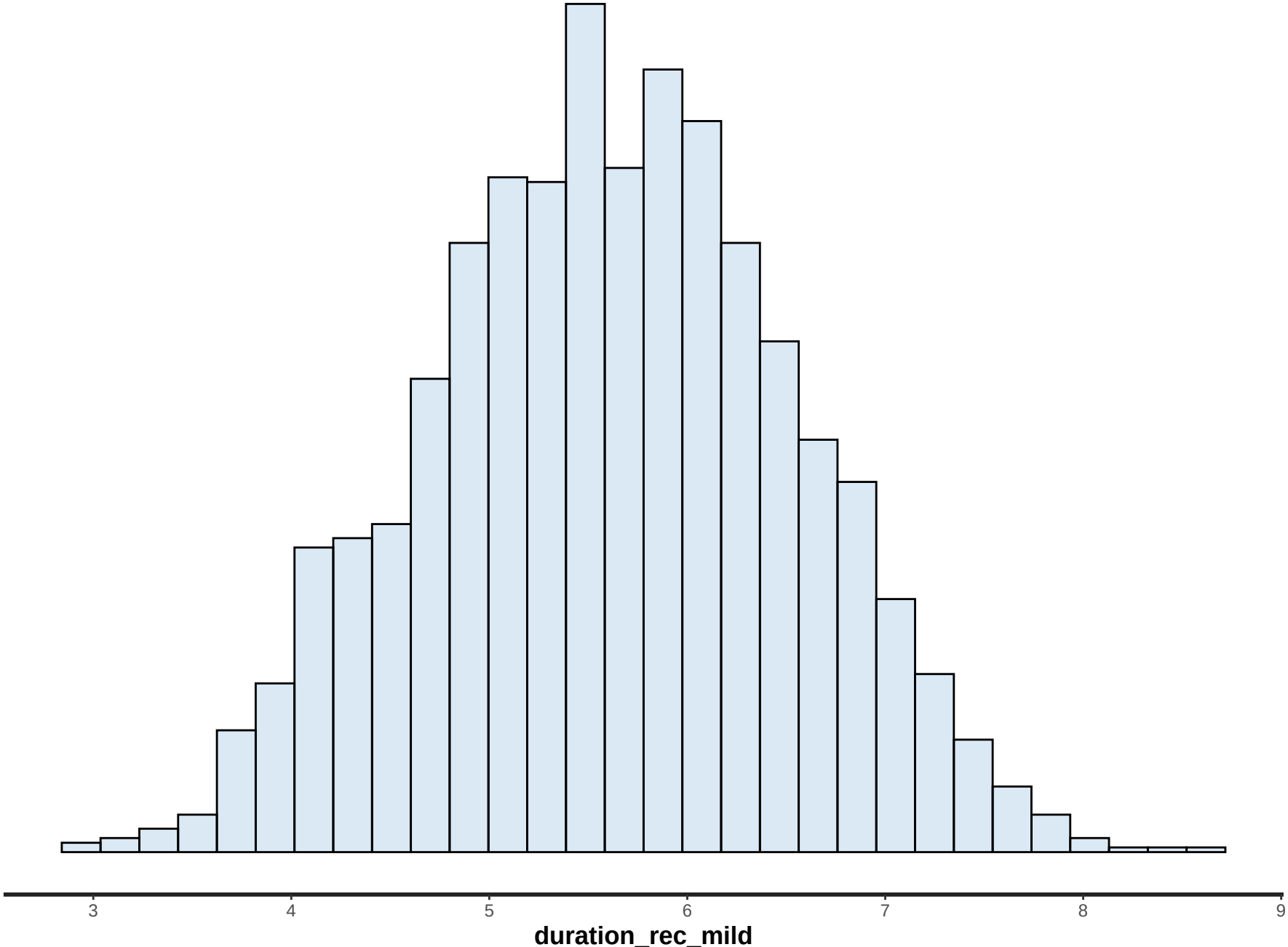
Rt as of 2020−12−05

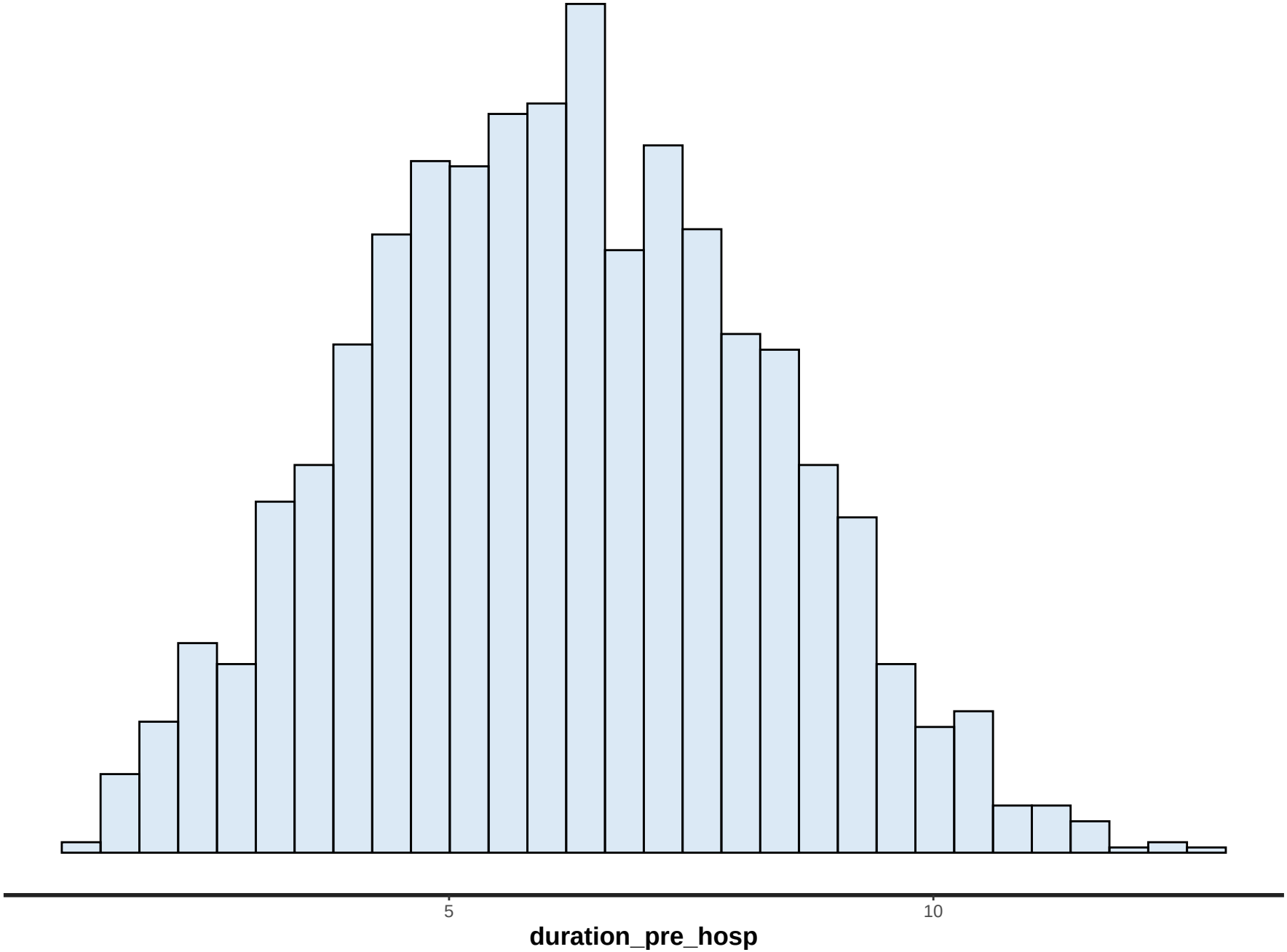
5%	10%	25%	50%	75%	90%	95%
1.08	1.14	1.25	1.36	1.48	1.60	1.68

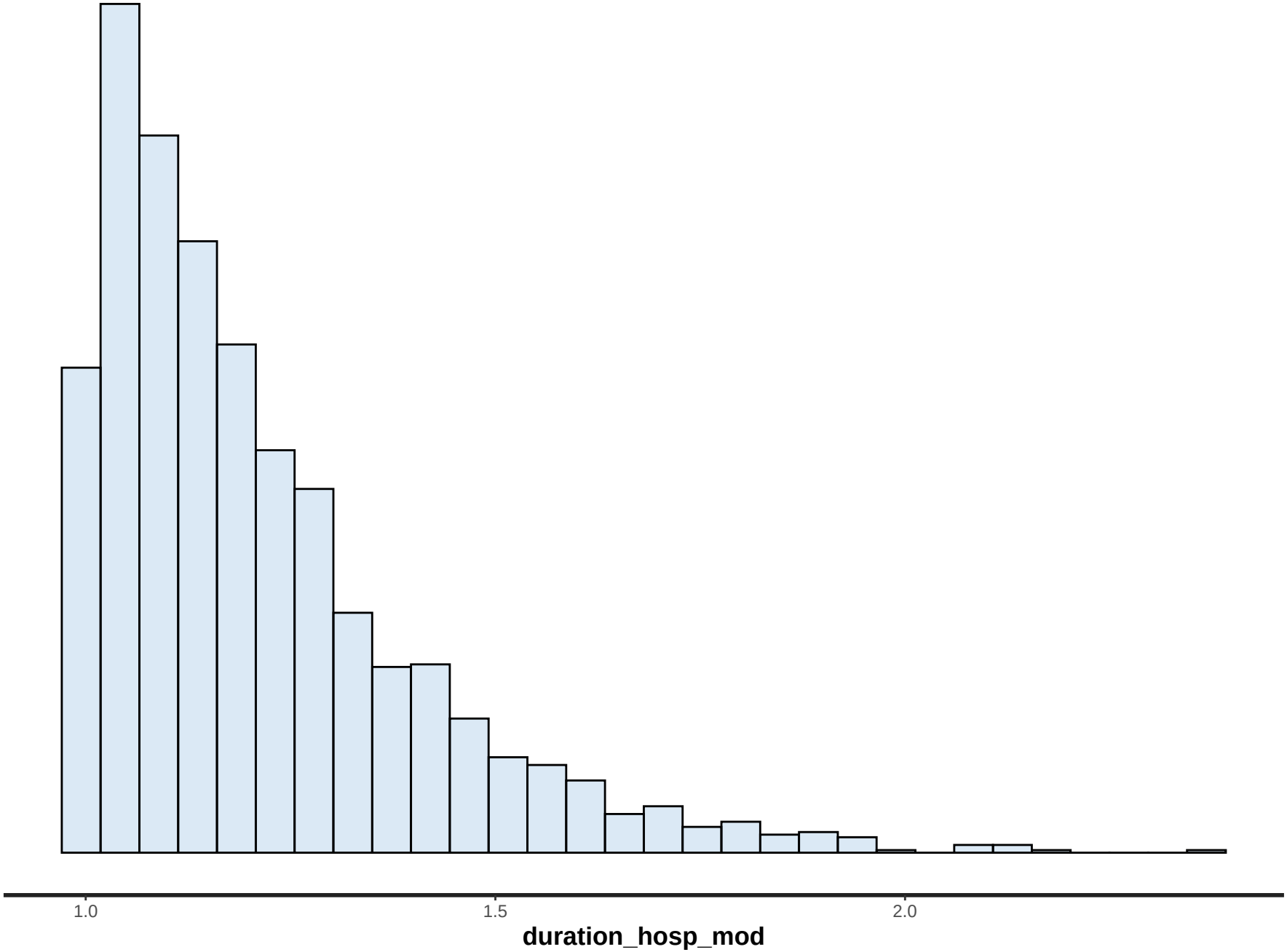


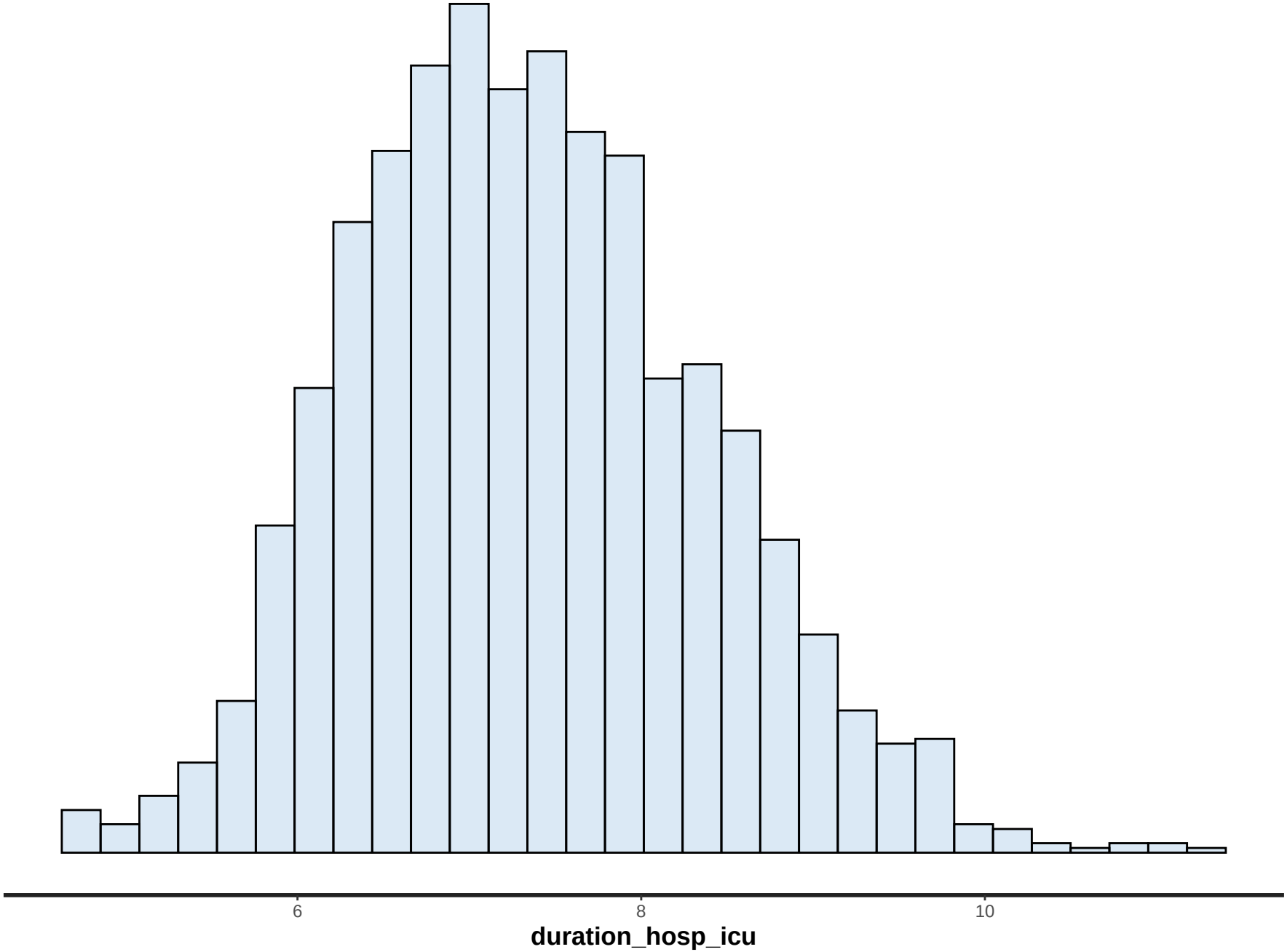

2
3
4
r0

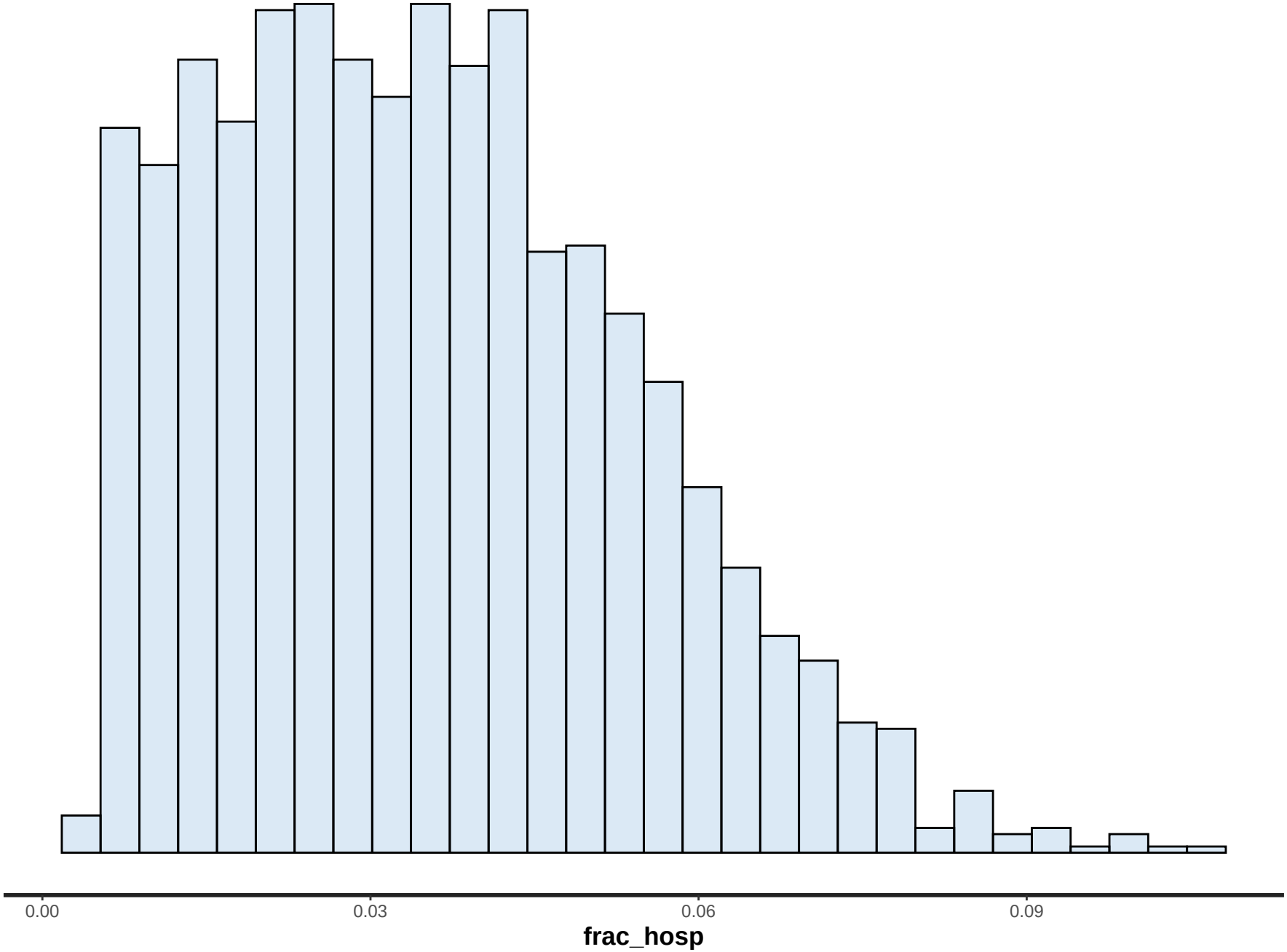

2
4
6
duration_latent


3
4
5
6
7
8
9
duration_rec_mild


5
10
duration_pre_hosp


1.0
1.5
2.0
duration_hosp_mod


6
8
10
duration_hosp_icu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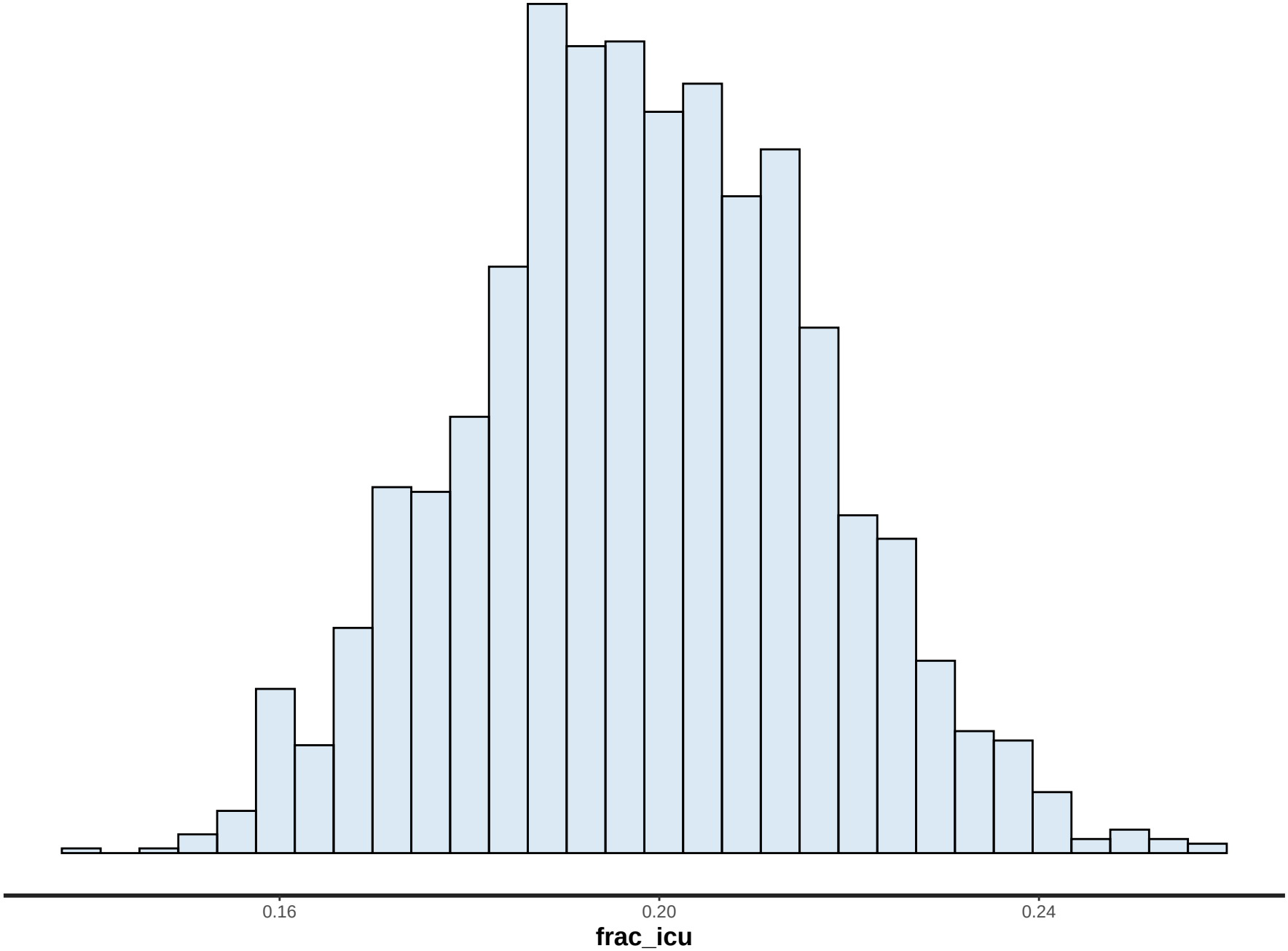
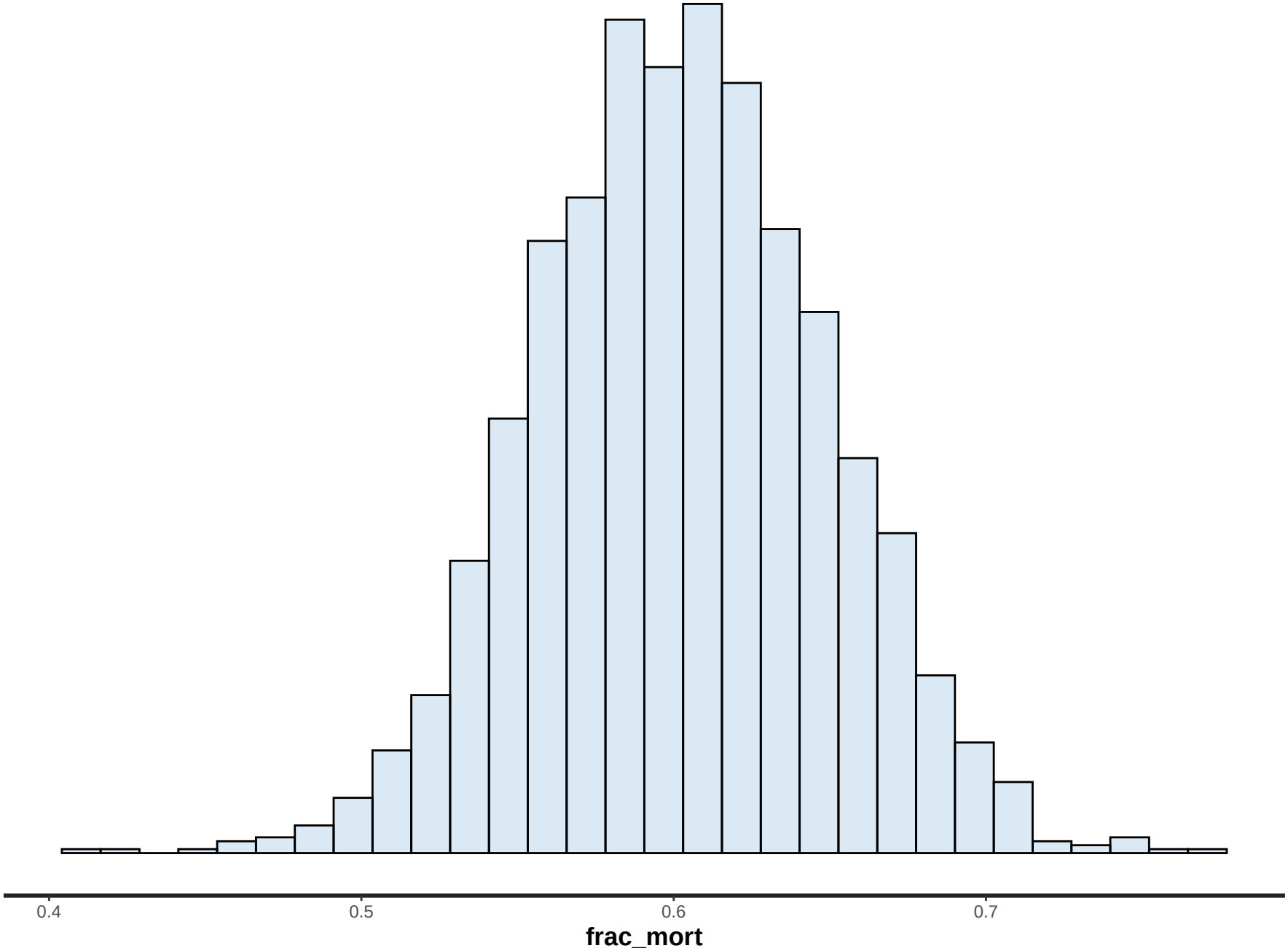
0.03
0.06
0.09
frac_hosp


0.16
0.20
0.24
frac_icu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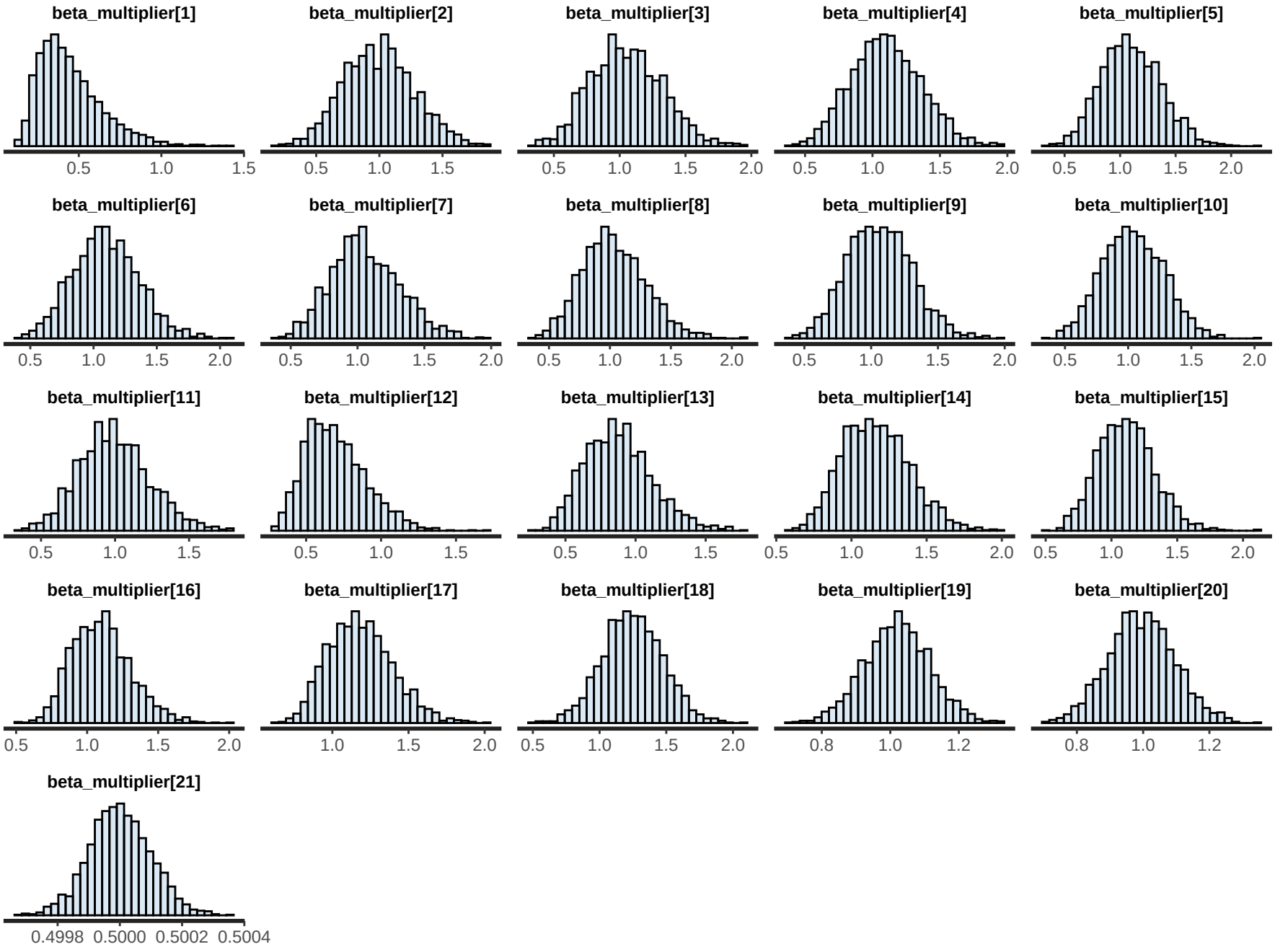
0.5
0.6
0.7
frac_mort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beta_multiplier[3]
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beta_multiplier[4]
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beta_multiplier[5]
0.5 1.0 1.5 2.0
beta_multiplier[6]
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beta_multiplier[7]
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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]
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beta_multiplier[12]
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beta_multiplier[16]
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beta_multiplier[17]
1.0 1.5 2.0
beta_multiplier[18]
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beta_multiplier[19]
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beta_multiplier[21]
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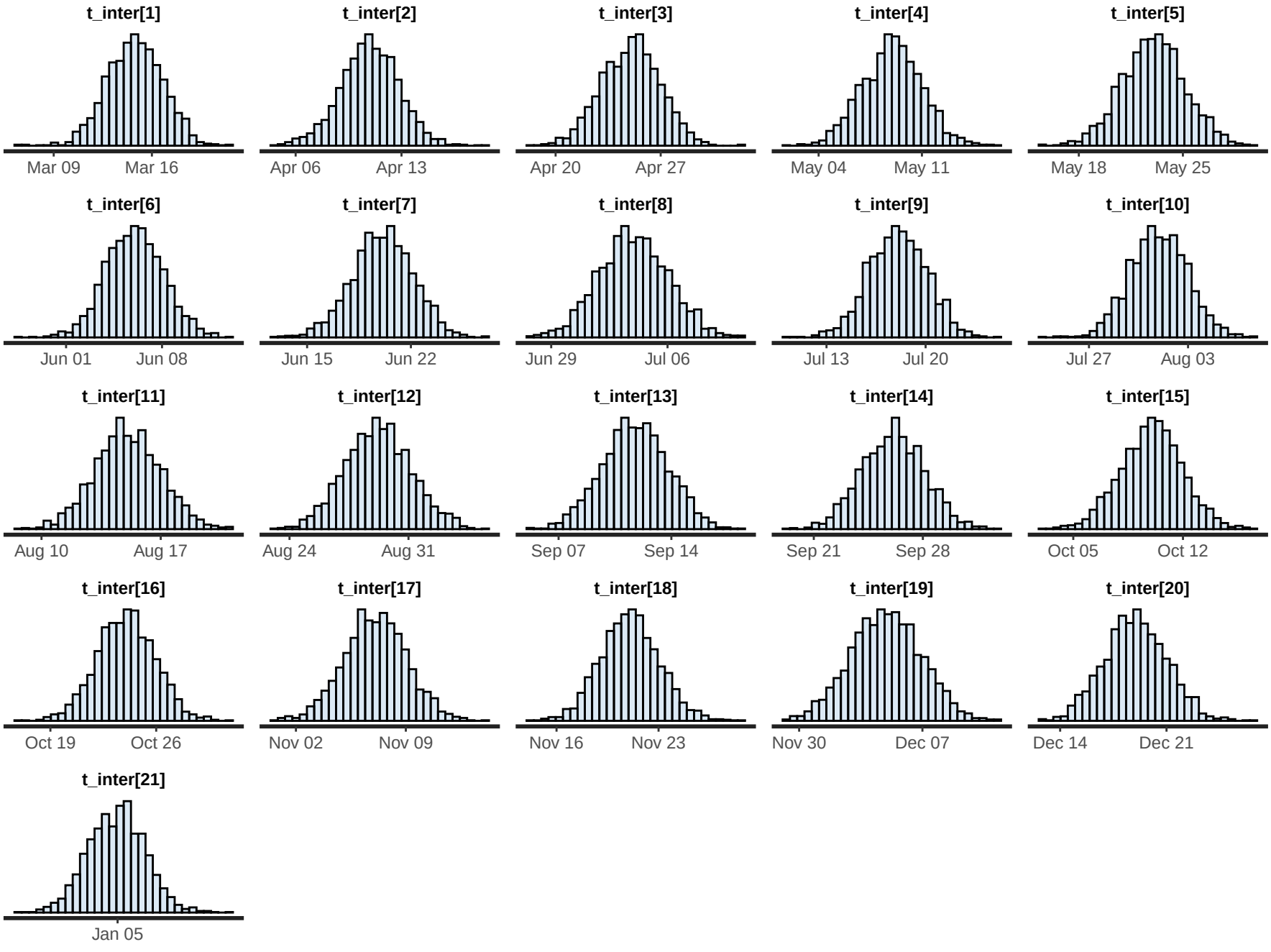
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May 18
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Jun 01
Jun 08
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Jun 15
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Jun 29
Jul 06
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Jul 27
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Nov 02
Nov 09
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Nov 30
Dec 07
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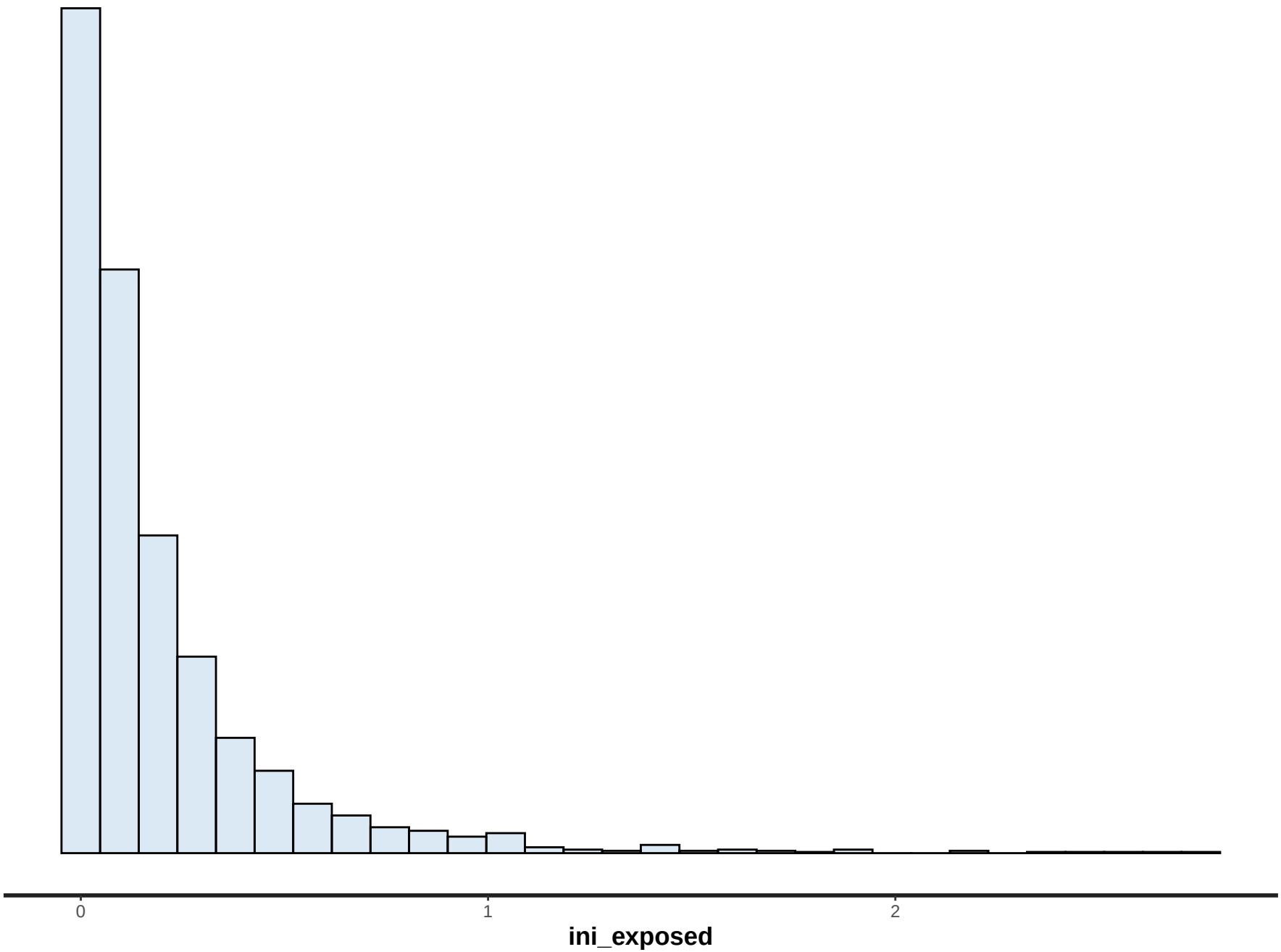
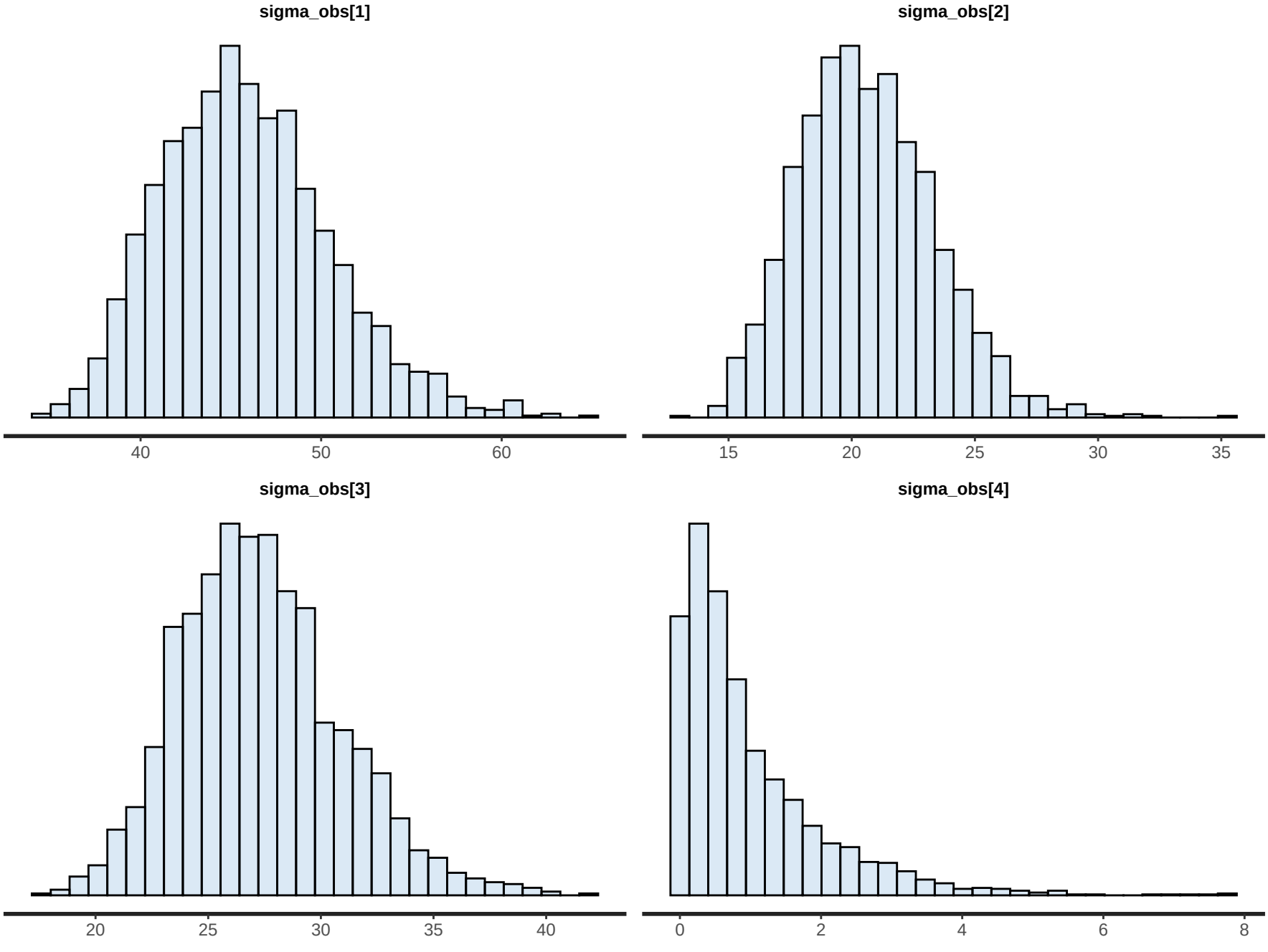
Dec 14
Dec 21
t_inter[21]
Jan 05


0
1
2
ini_exposed


sigma_obs[1]
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50
60
sigma_obs[2]
15
20
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30
35
sigma_obs[3]
20
25
30
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40
sigma_obs[4]
0
2
4
6
8