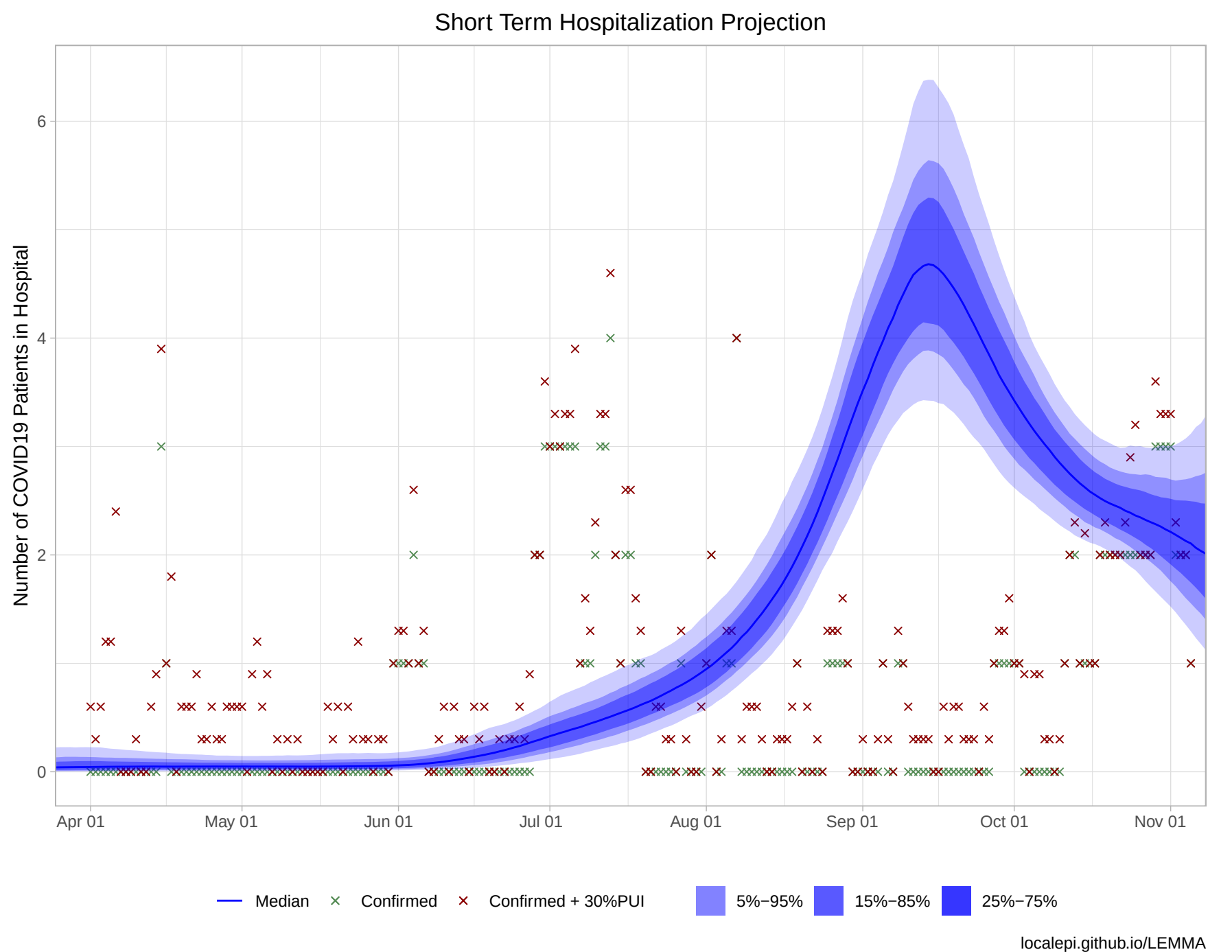
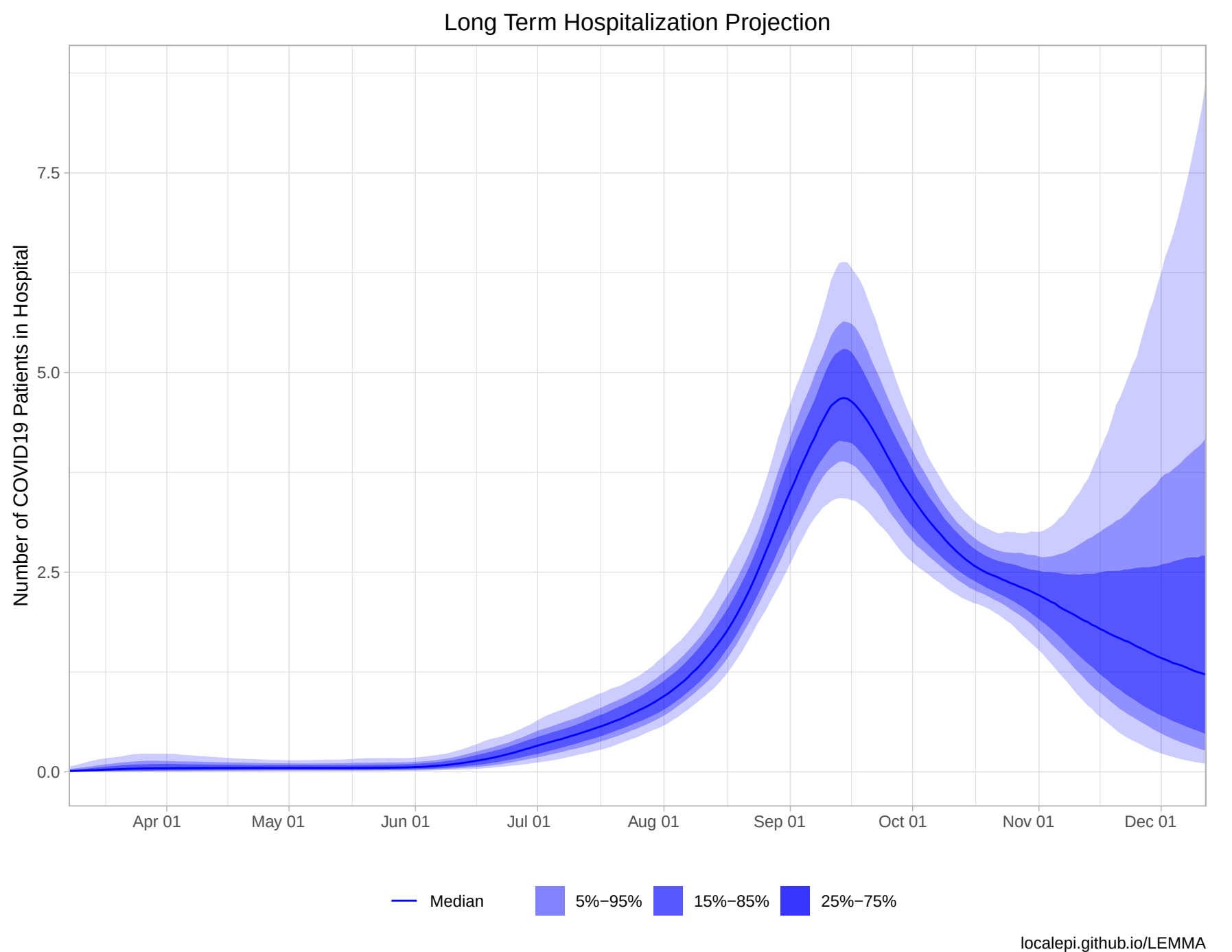
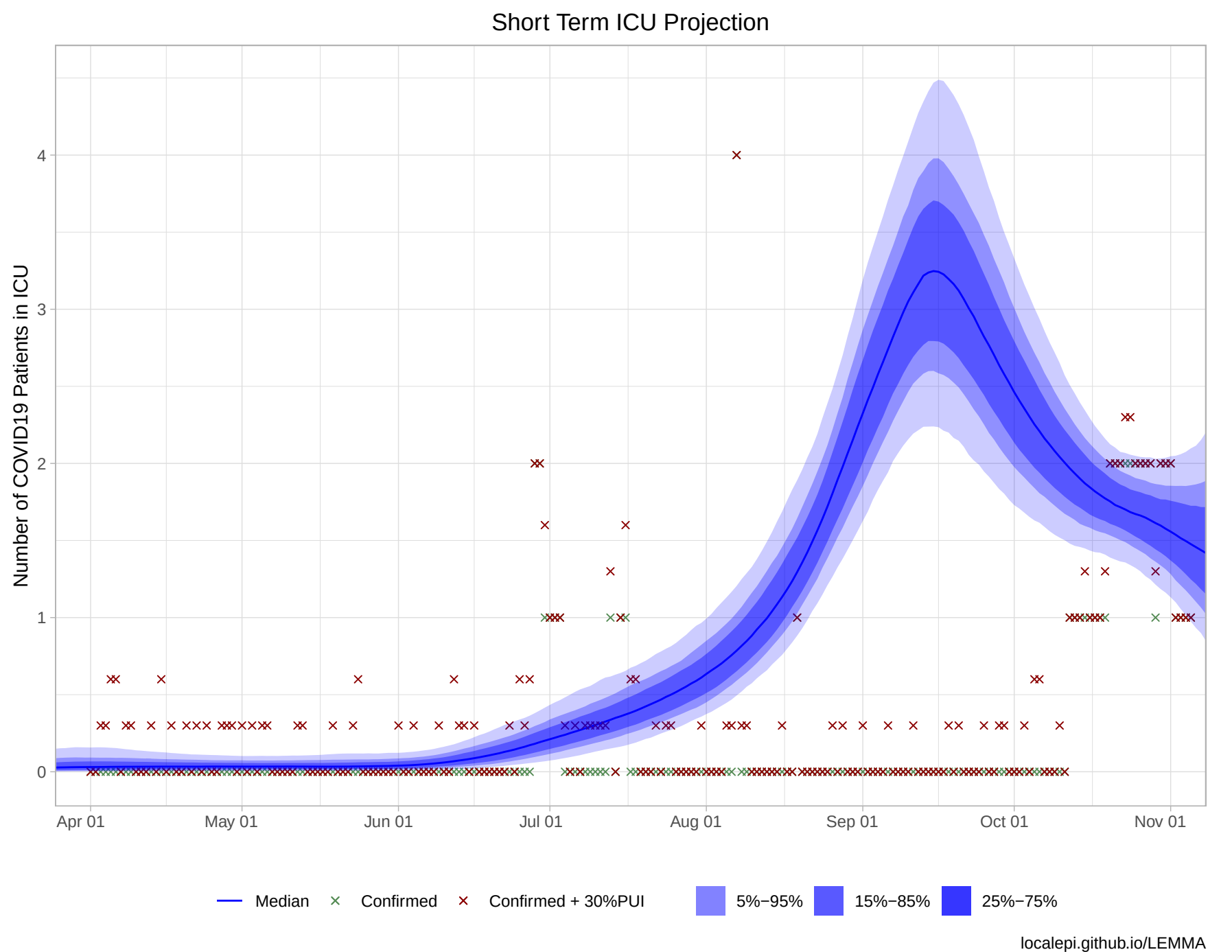
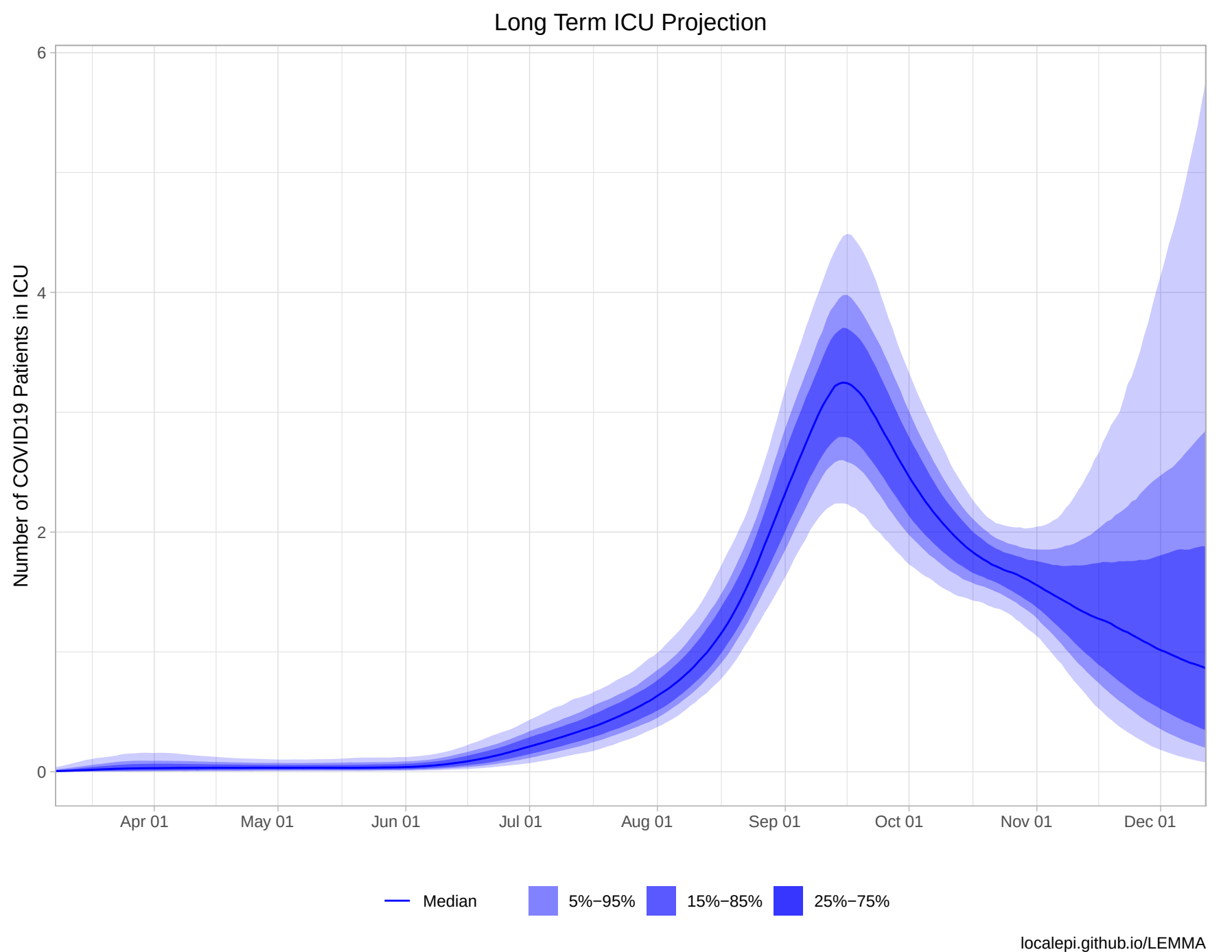
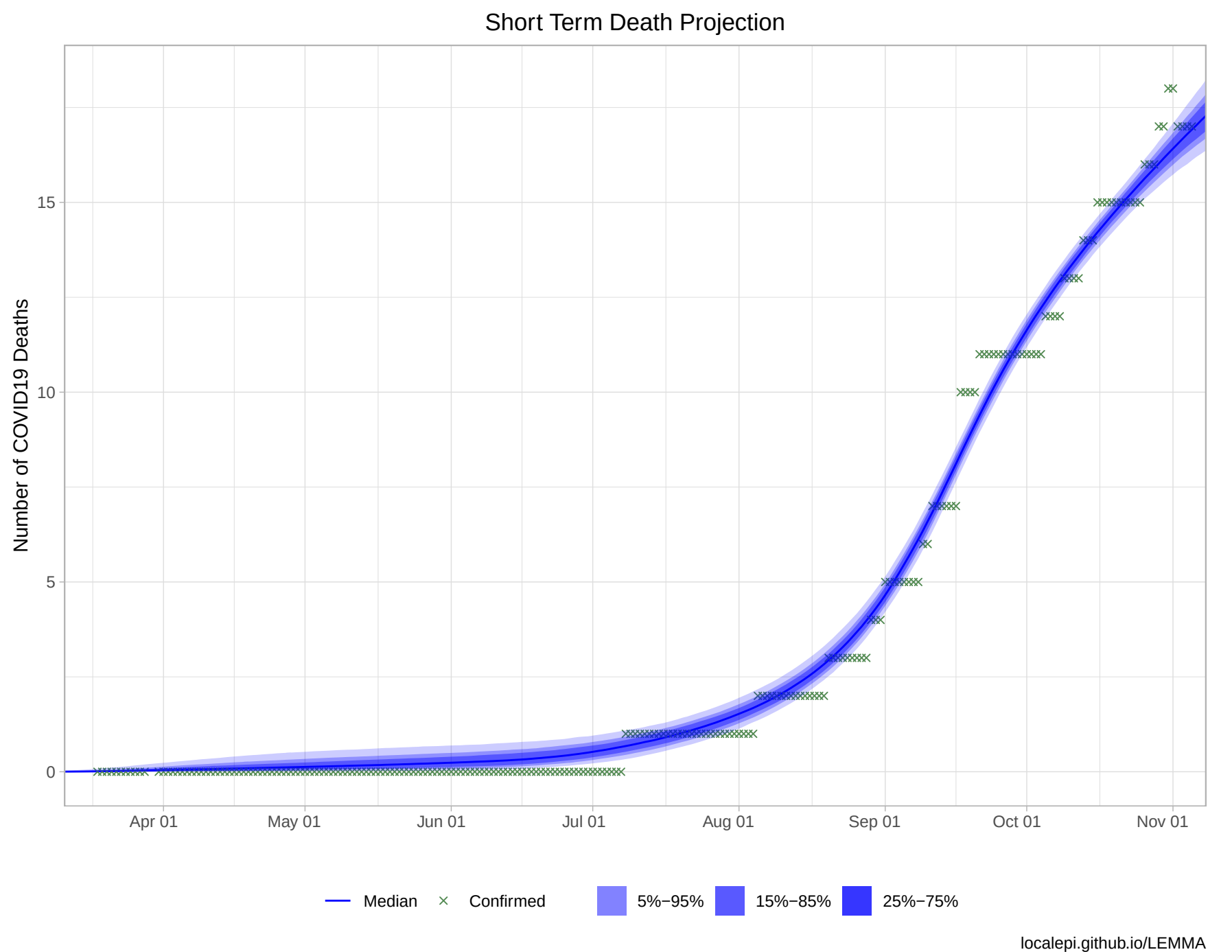
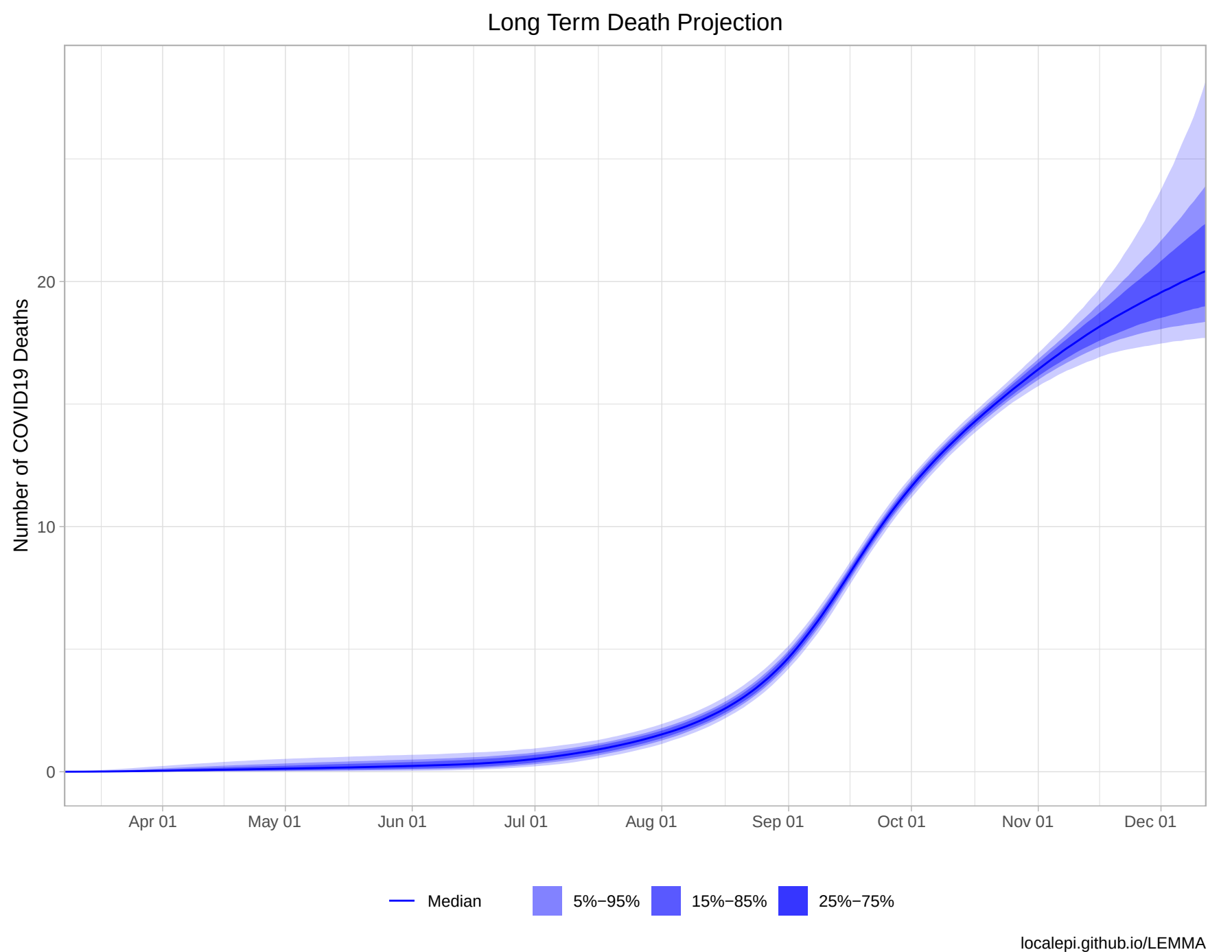

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
2
4
6
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

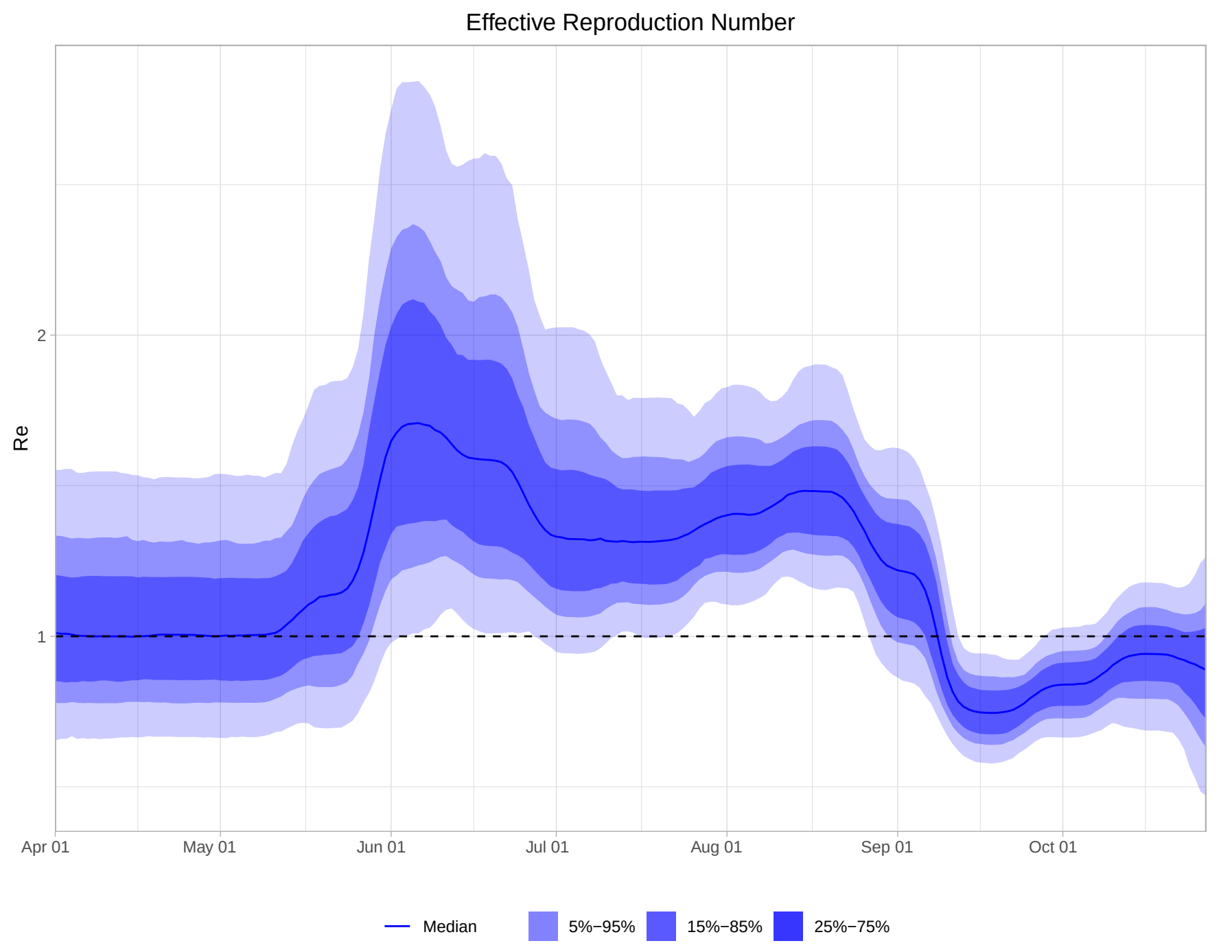

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
7.5
5.0
2.5
0.0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


Short Term ICU Projection
Number of COVID19 Patients in ICU
0
1
2
3
4
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 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
6
4
2
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%
localepi.github.io/LEMMA

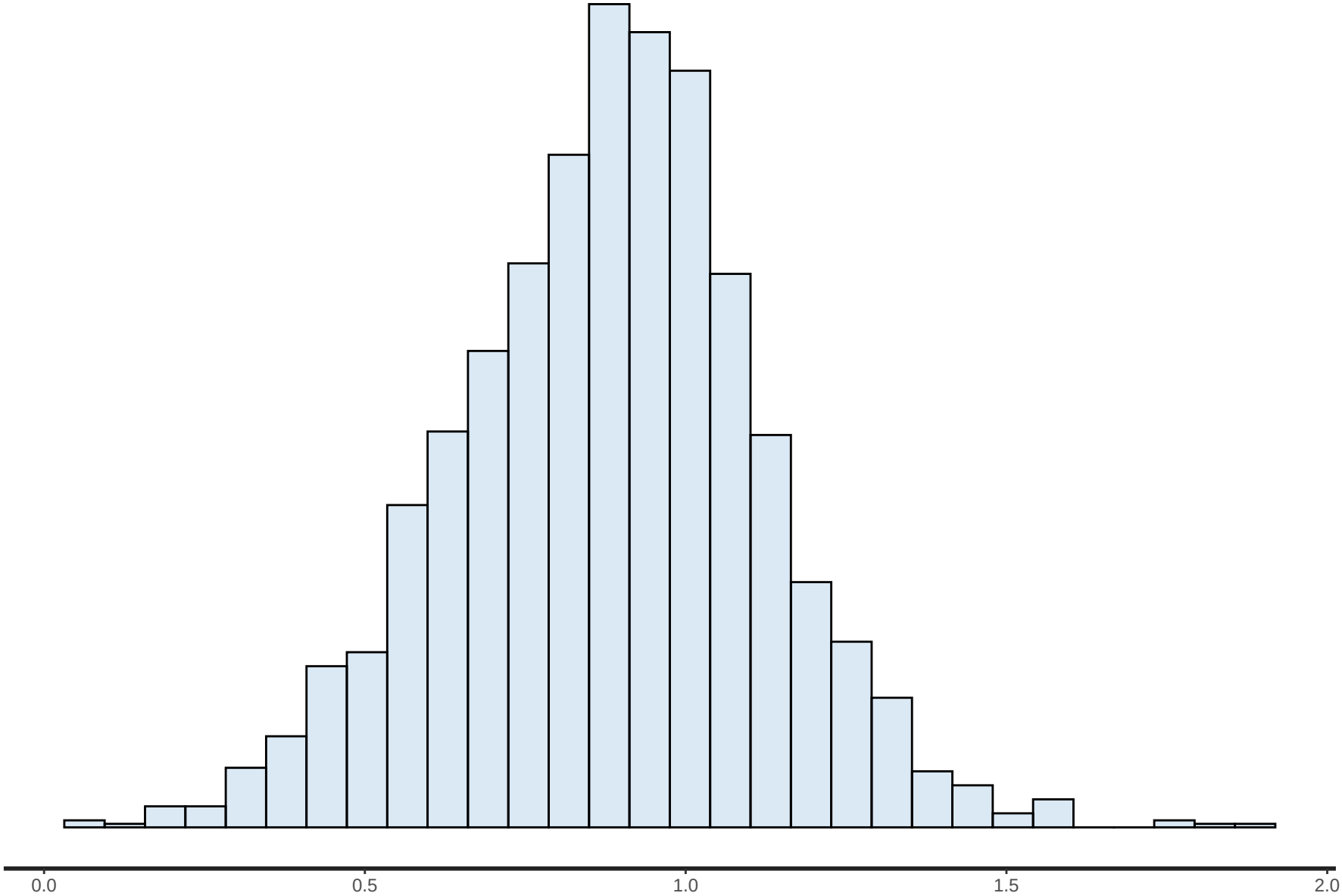

Short Term Death Projection
Number of COVID19 Deaths
0
5
10
15
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

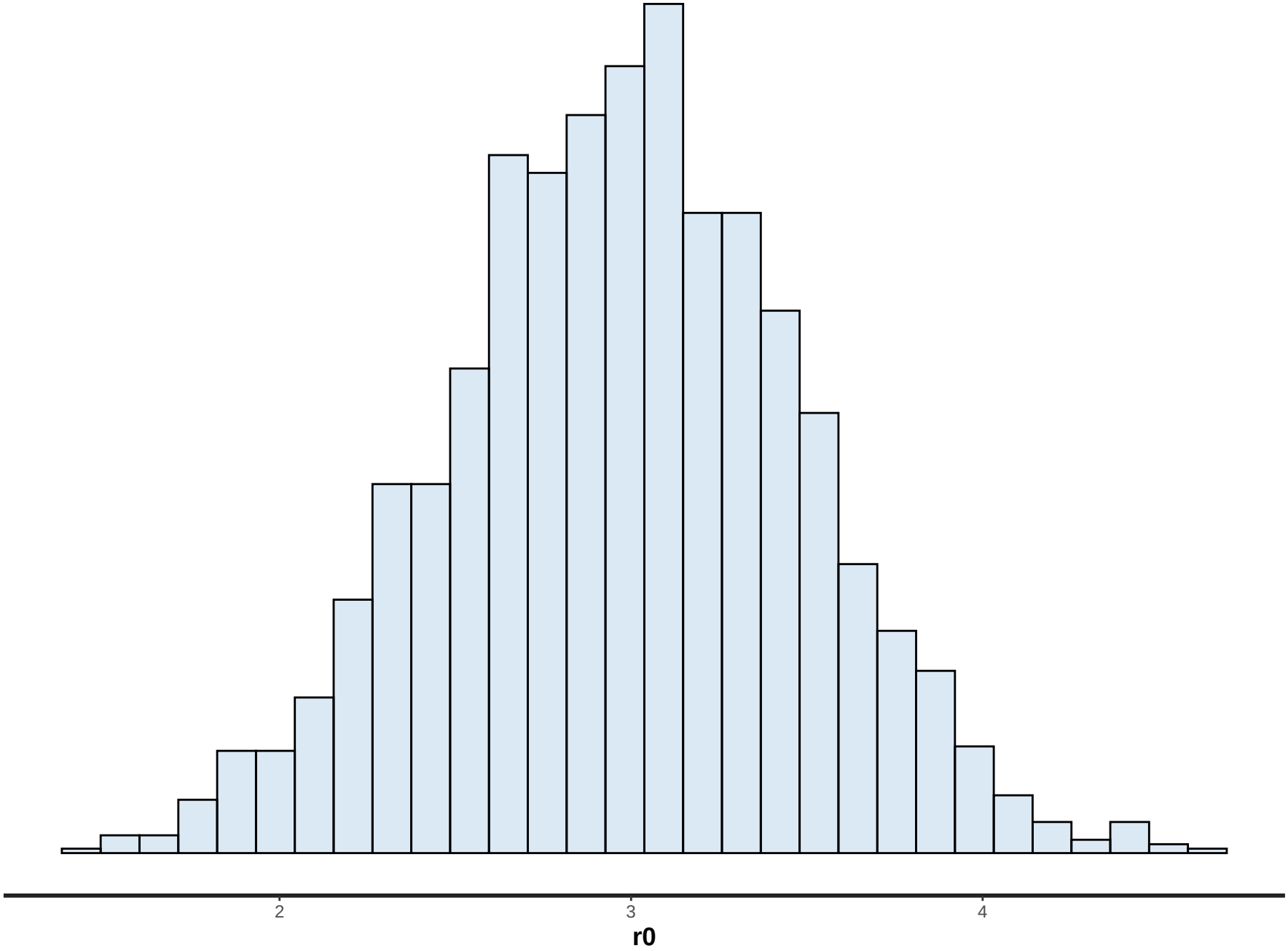

Long Term Death Projection
Number of COVID19 Deaths
0
10
20
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

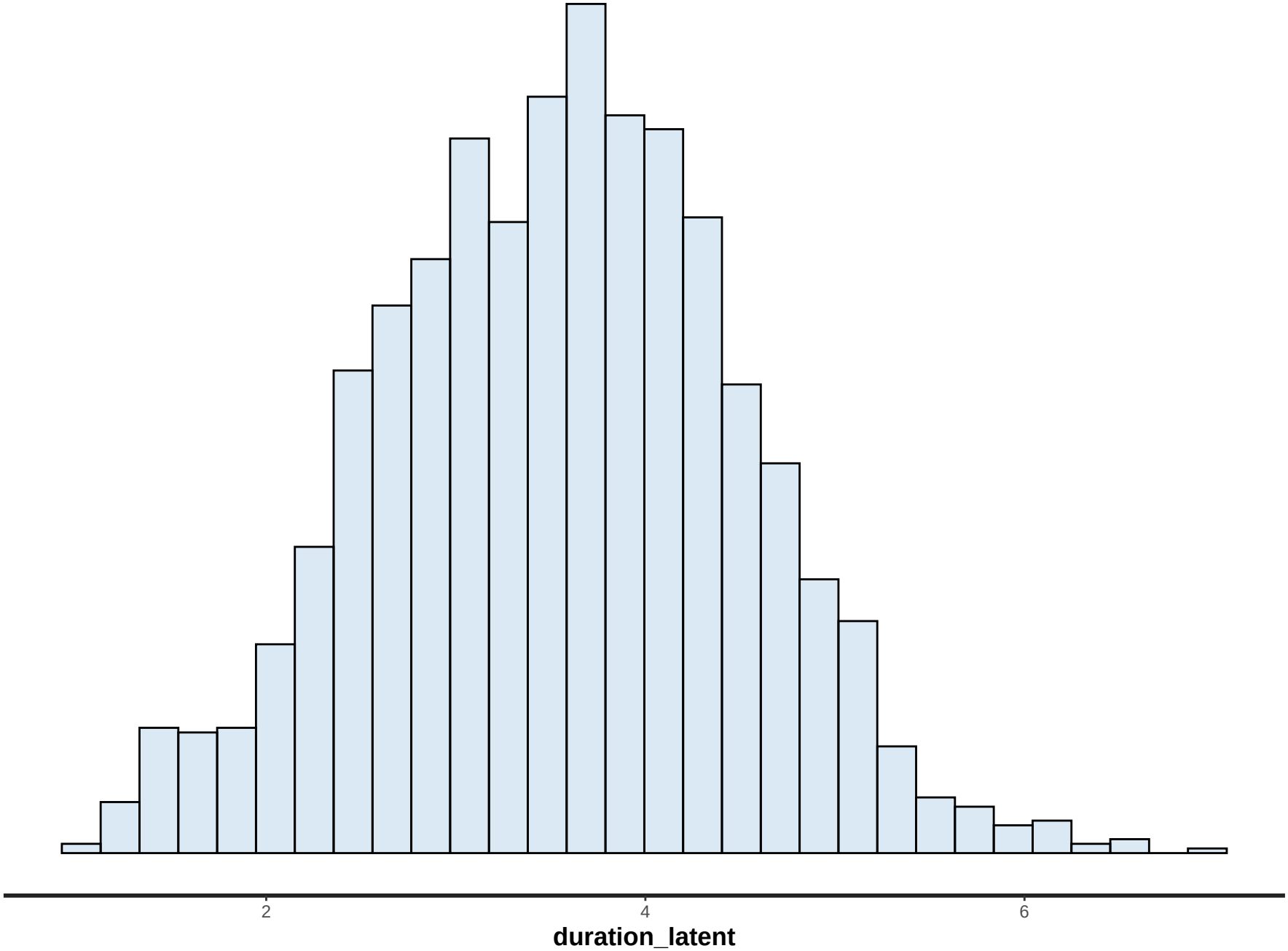

Effective Reproduction Number
Re
2
1
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Median
5%−95%
15%−85%
25%−75%

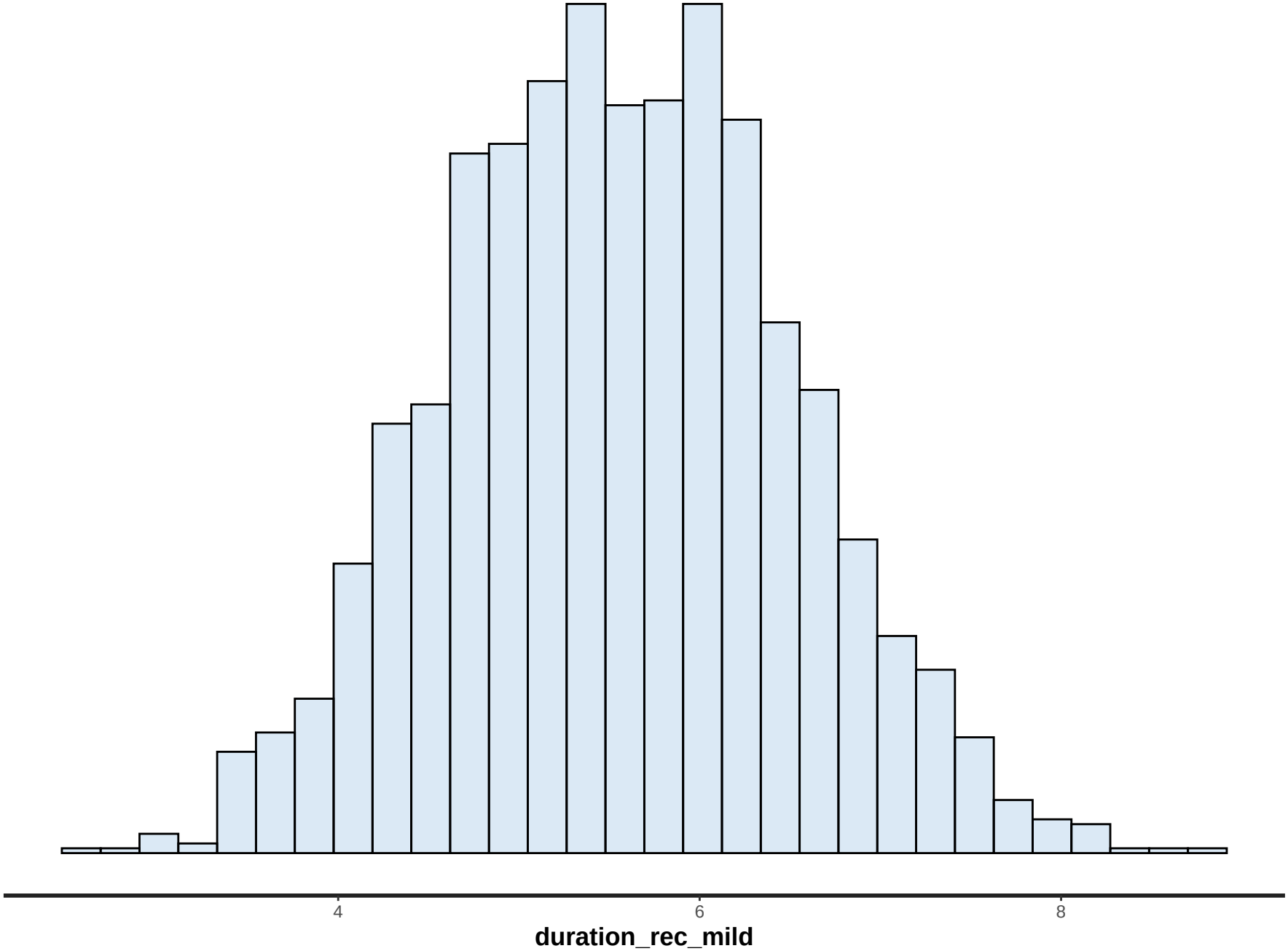
Rt as of 2020−10−27

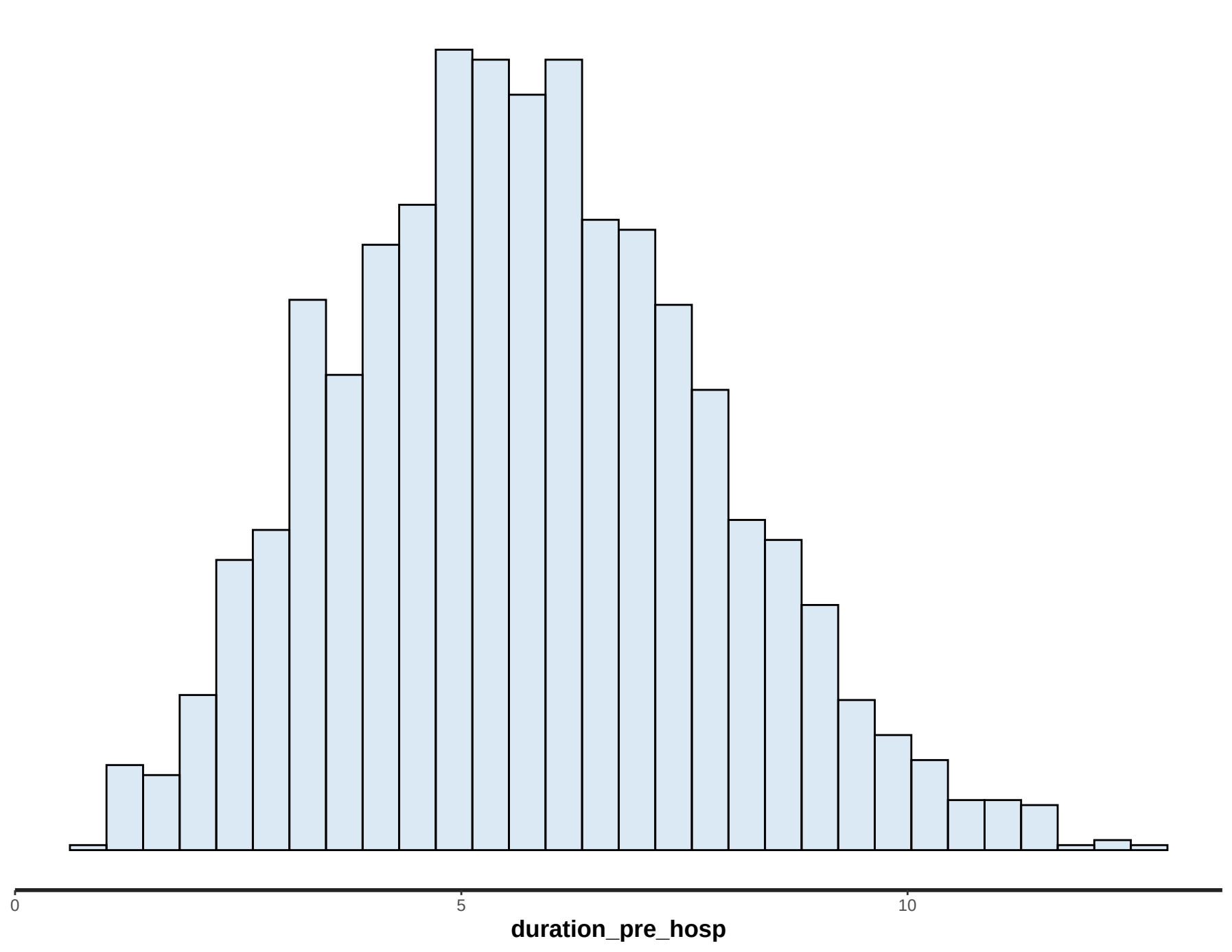
5%	10%	25%	50%	75%	90%	95%
0.47	0.57	0.73	0.89	1.03	1.17	1.26

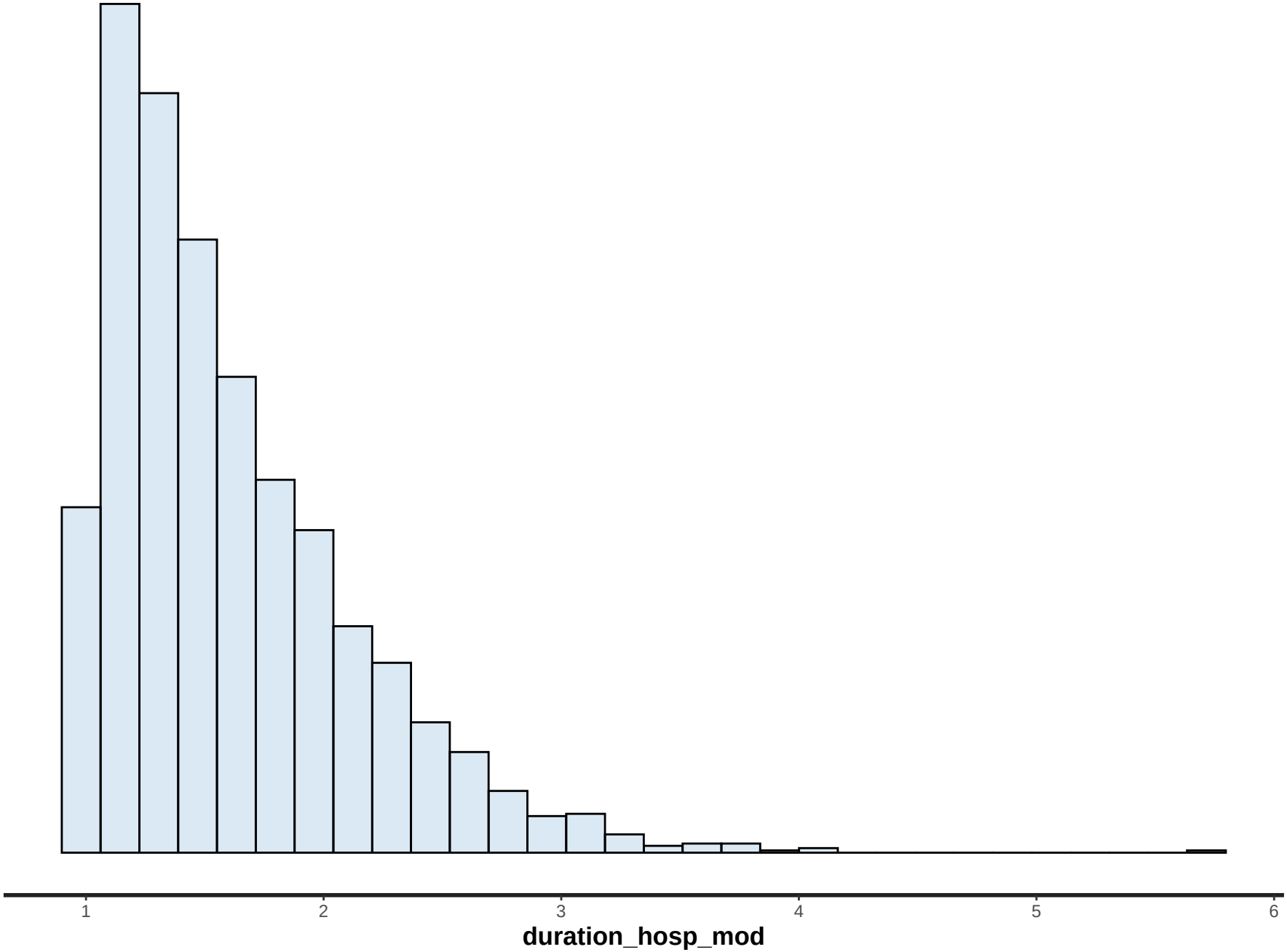


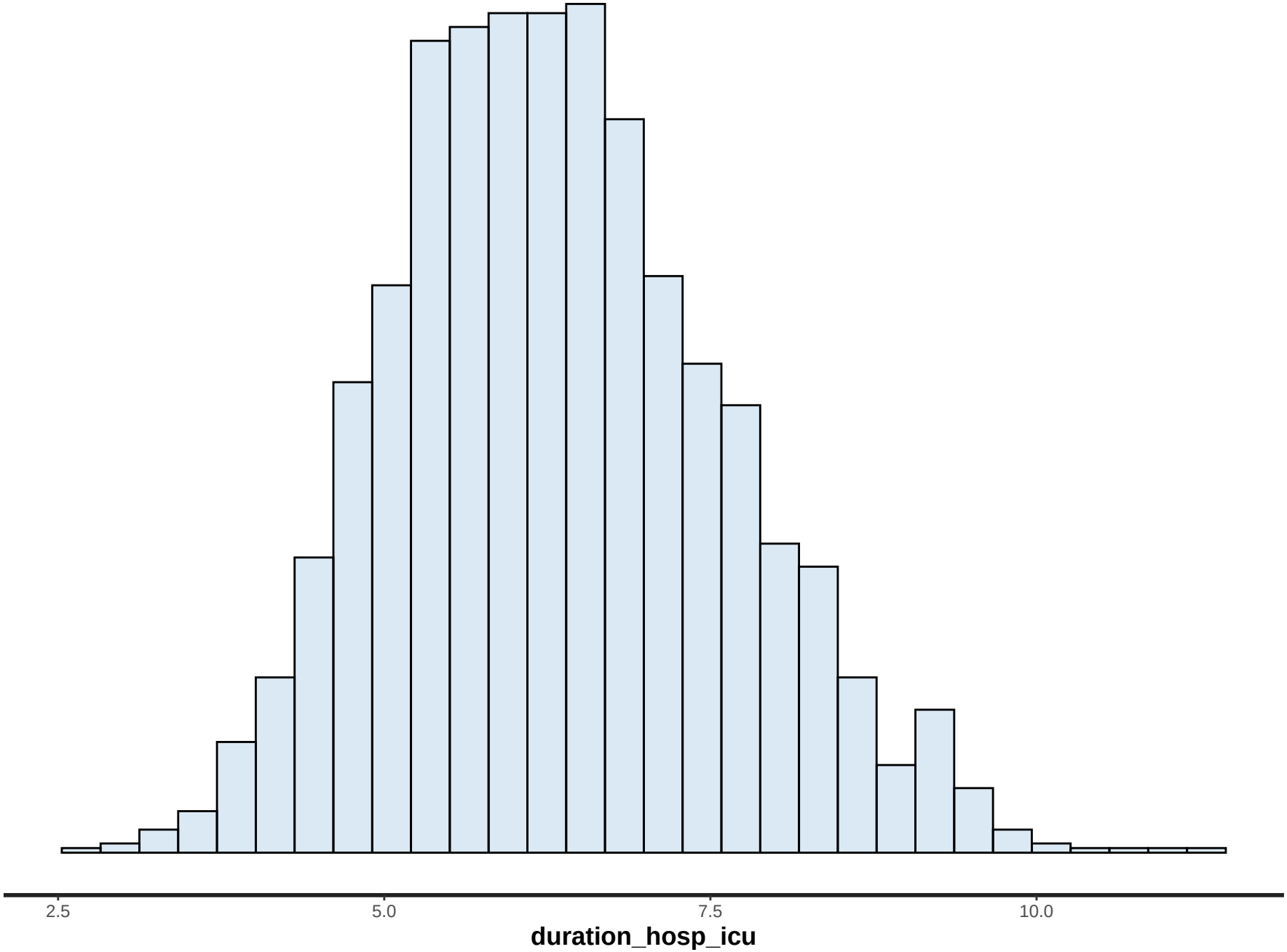

2
3
4
r0

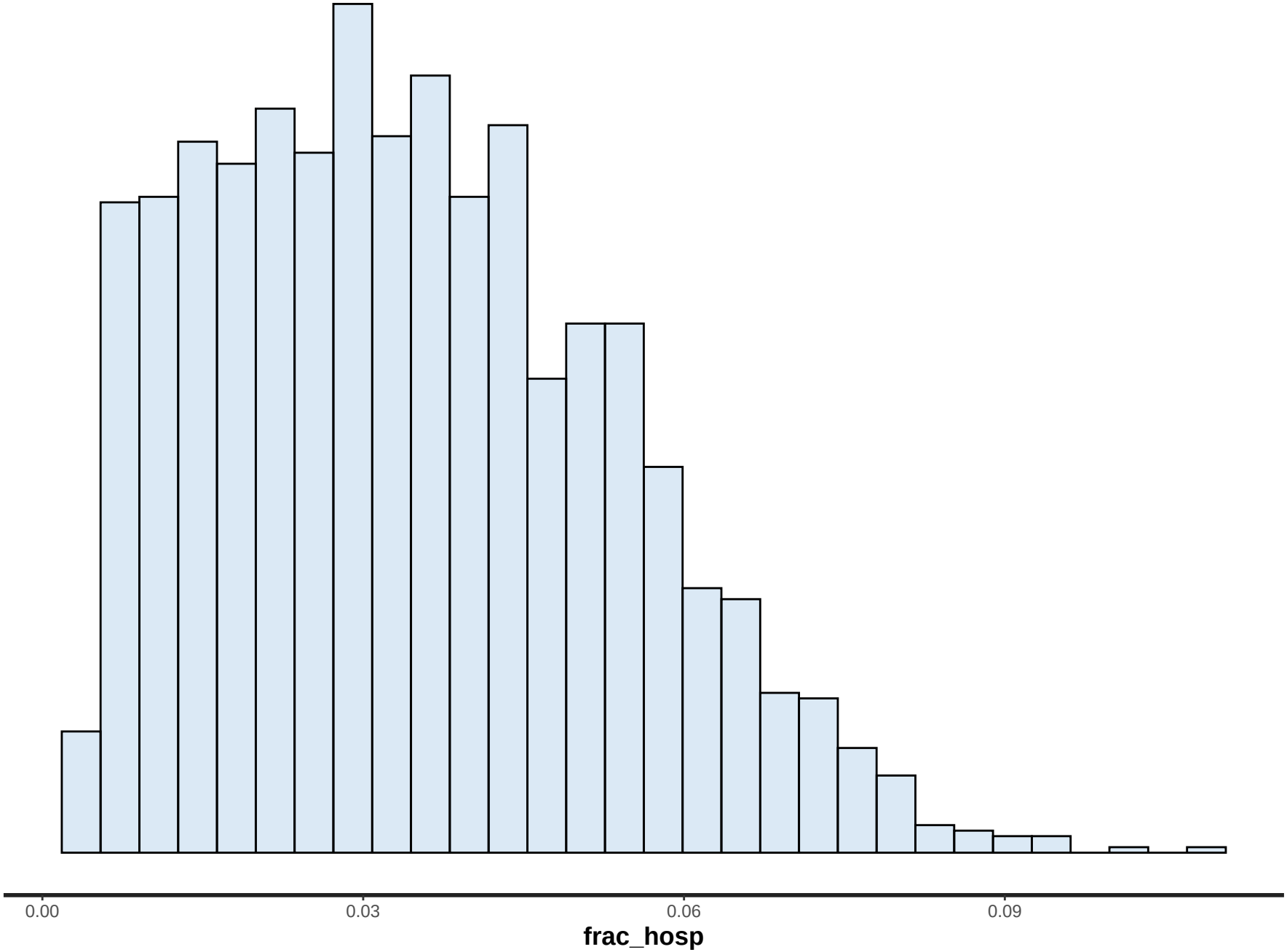

2
4
6
duration_latent

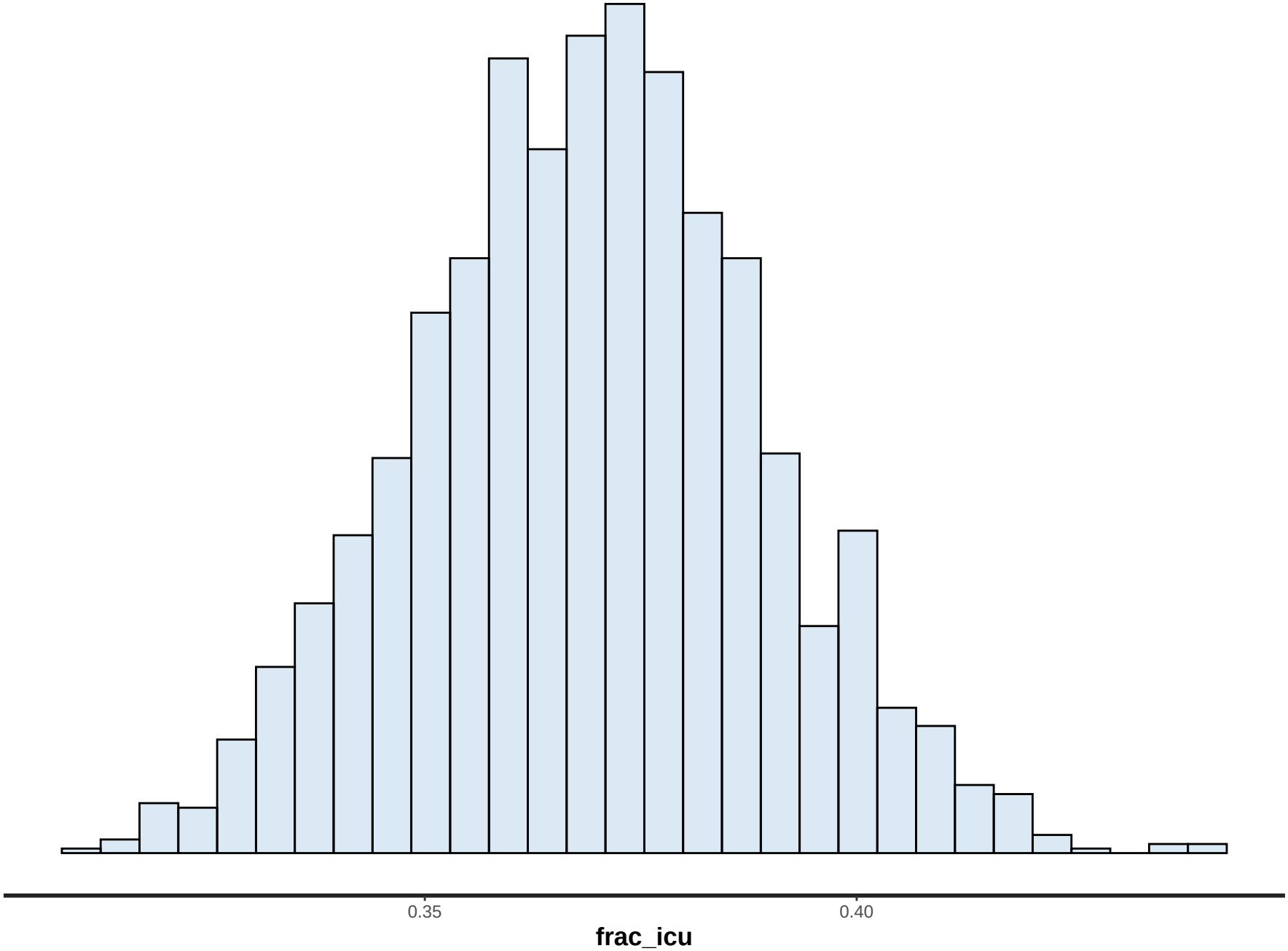

4
6
8
duration_rec_mild

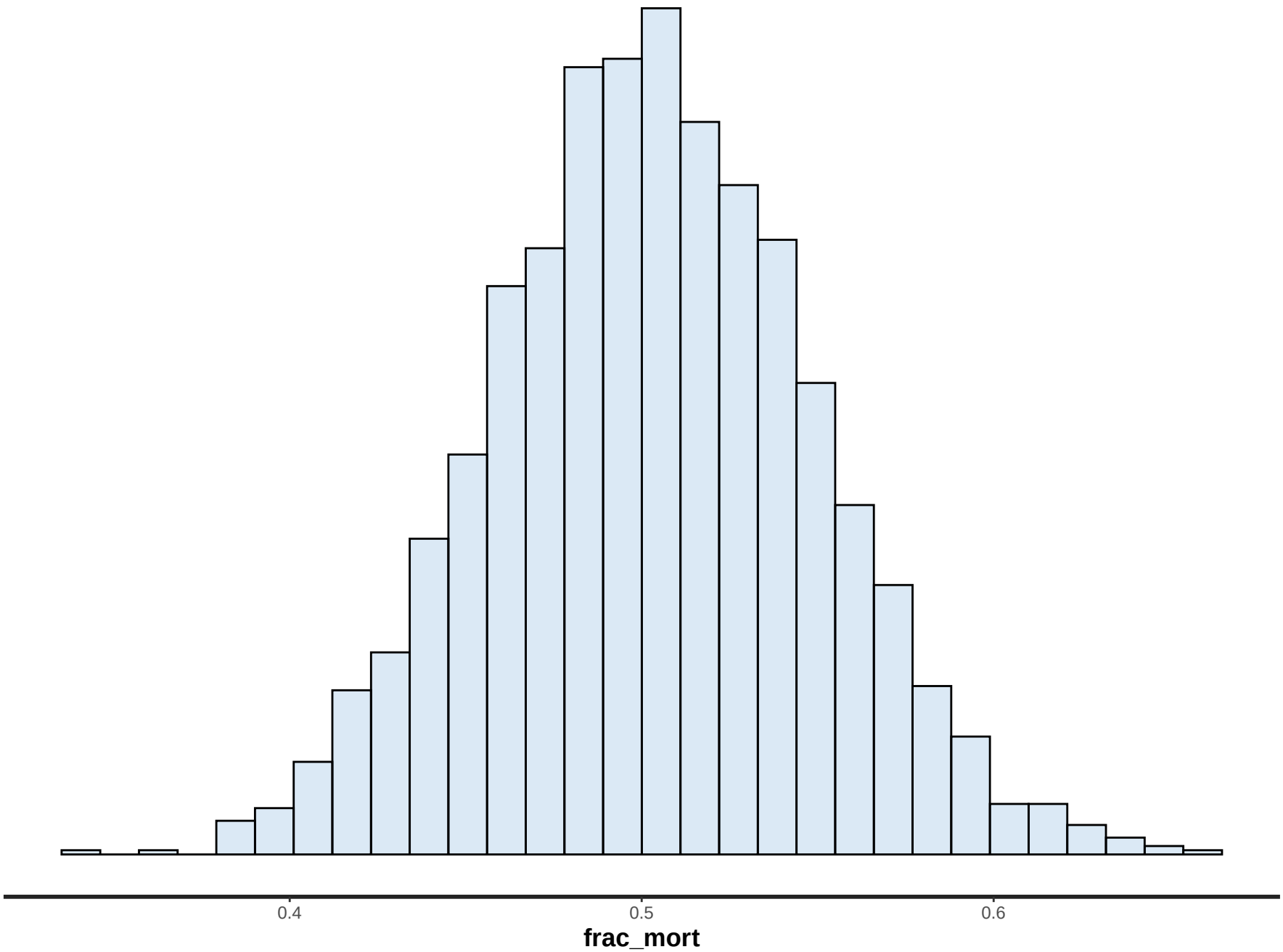

0
5
10
duration_pre_hosp

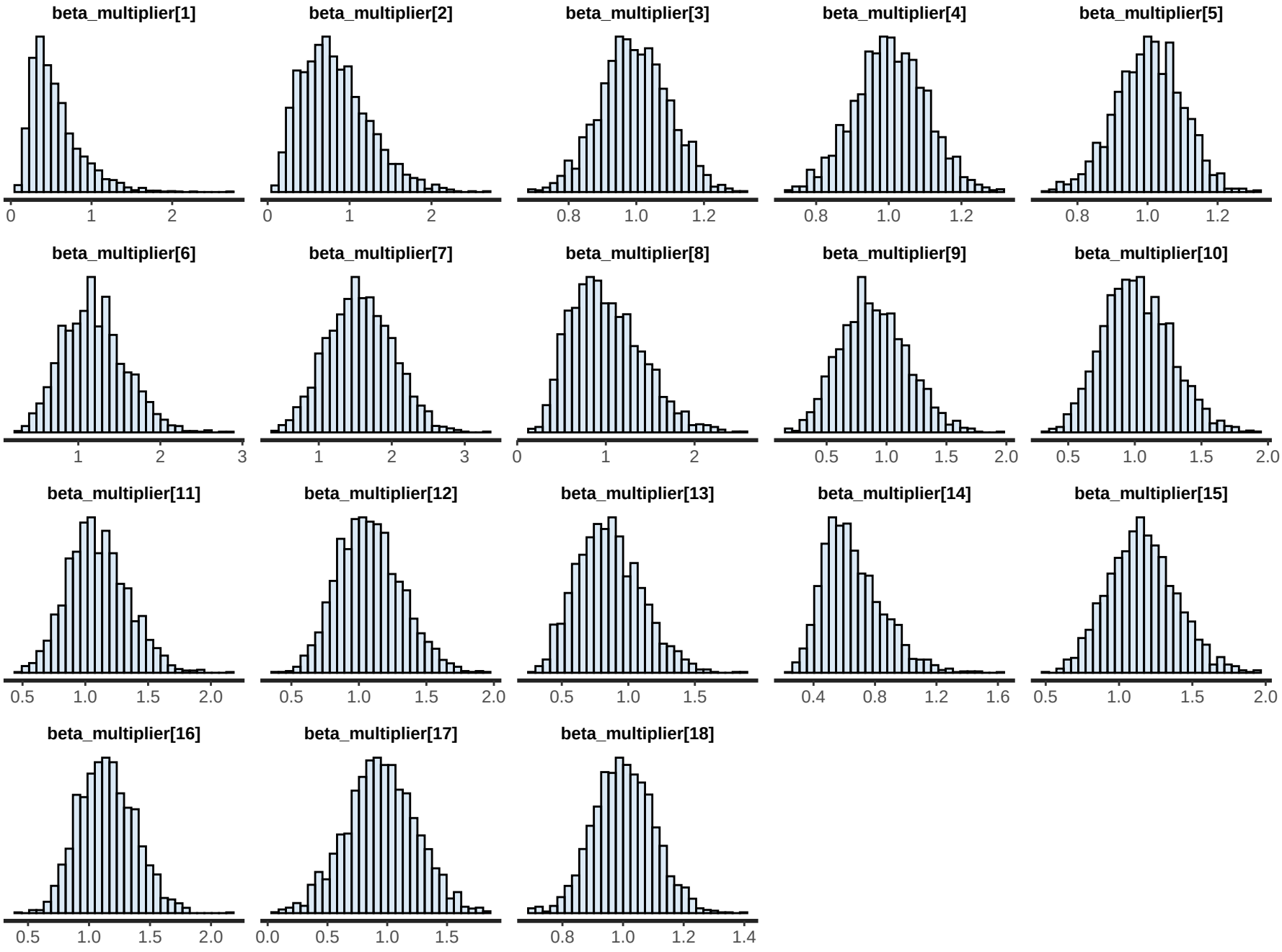

1
2
3
4
5
6
duration_hosp_mod


2.5
5.0
7.5
10.0
duration_hosp_icu


0.00
0.03
0.06
0.09
frac_hosp


0.35
0.40
frac_icu


0.4
0.5
0.6
frac_mort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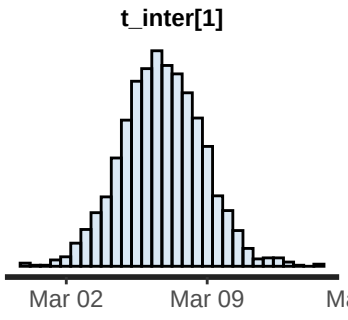
beta_multiplier[2]
beta_multiplier[3]
beta_multiplier[4]
beta_multiplier[5]
beta_multiplier[6]
beta_multiplier[7]
beta_multiplier[8]
beta_multiplier[9]
beta_multiplier[10]
beta_multiplier[11]
beta_multiplier[12]
beta_multiplier[13]
beta_multiplier[14]
beta_multiplier[15]
beta_multiplier[16]
beta_multiplier[17]
beta_multiplier[18]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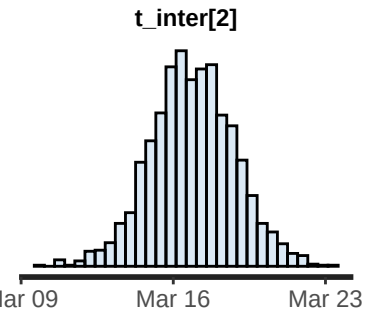
Mar 02
Mar 09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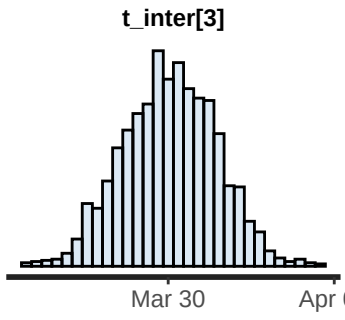
Mar 09
Mar 16
Mar 23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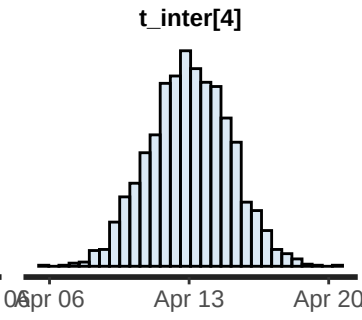
Mar 30
Apr 06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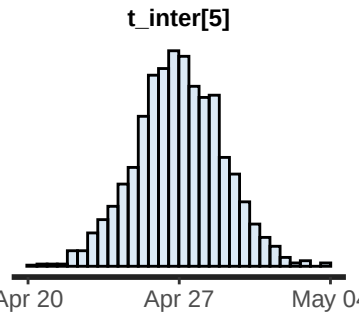
Apr 06
Apr 13
Apr 20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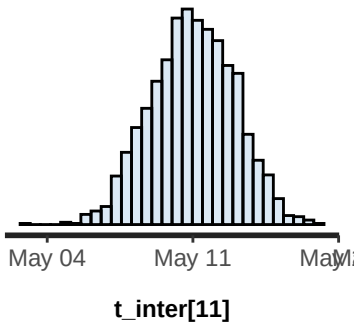
Apr 20
Apr 27
May 04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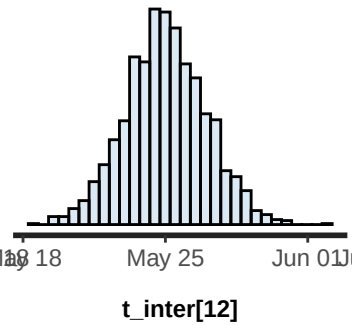
May 04
May 11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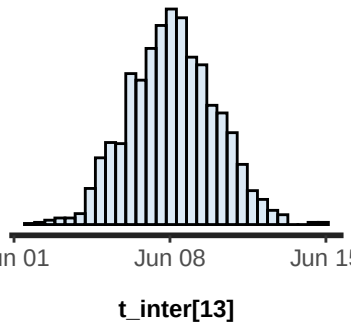
May 18
May 25
Jun 01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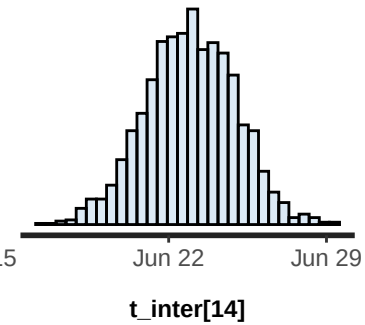
Jun 08
Jun 15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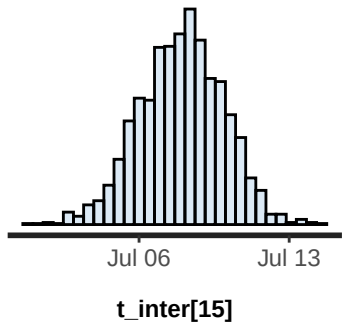
Jun 22
Jun 29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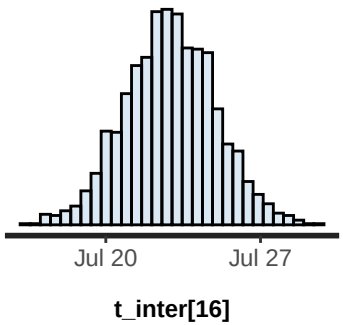
Jul 06
Jul 13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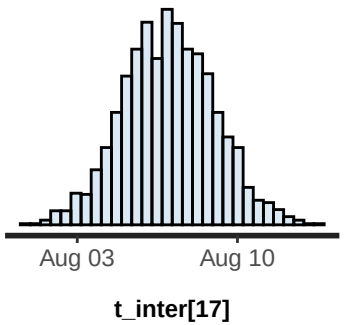
Jul 20
Jul 27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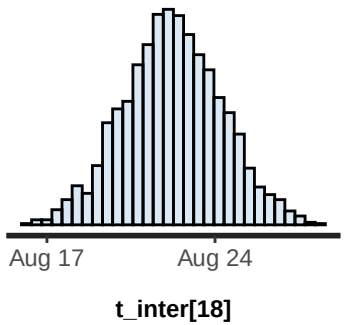
Aug 03
Aug 10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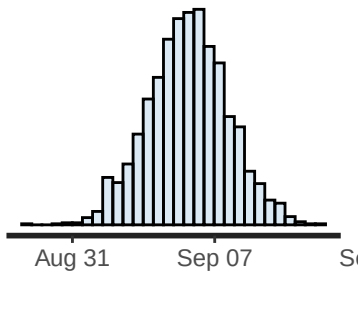
Aug 17
Aug 24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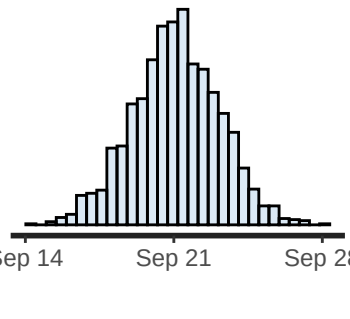
Aug 31
Sep 07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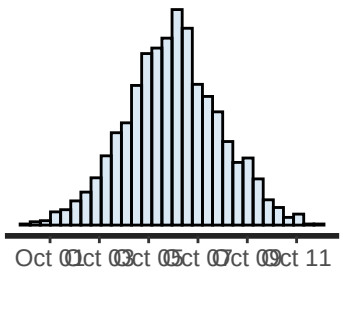
Sep 14
Sep 21
Sep 28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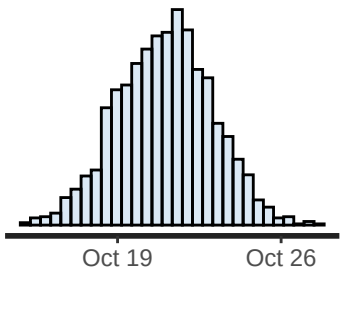
Oct 11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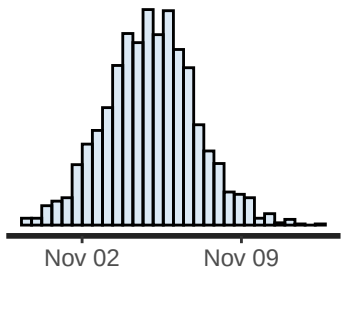
Oct 19
Oct 26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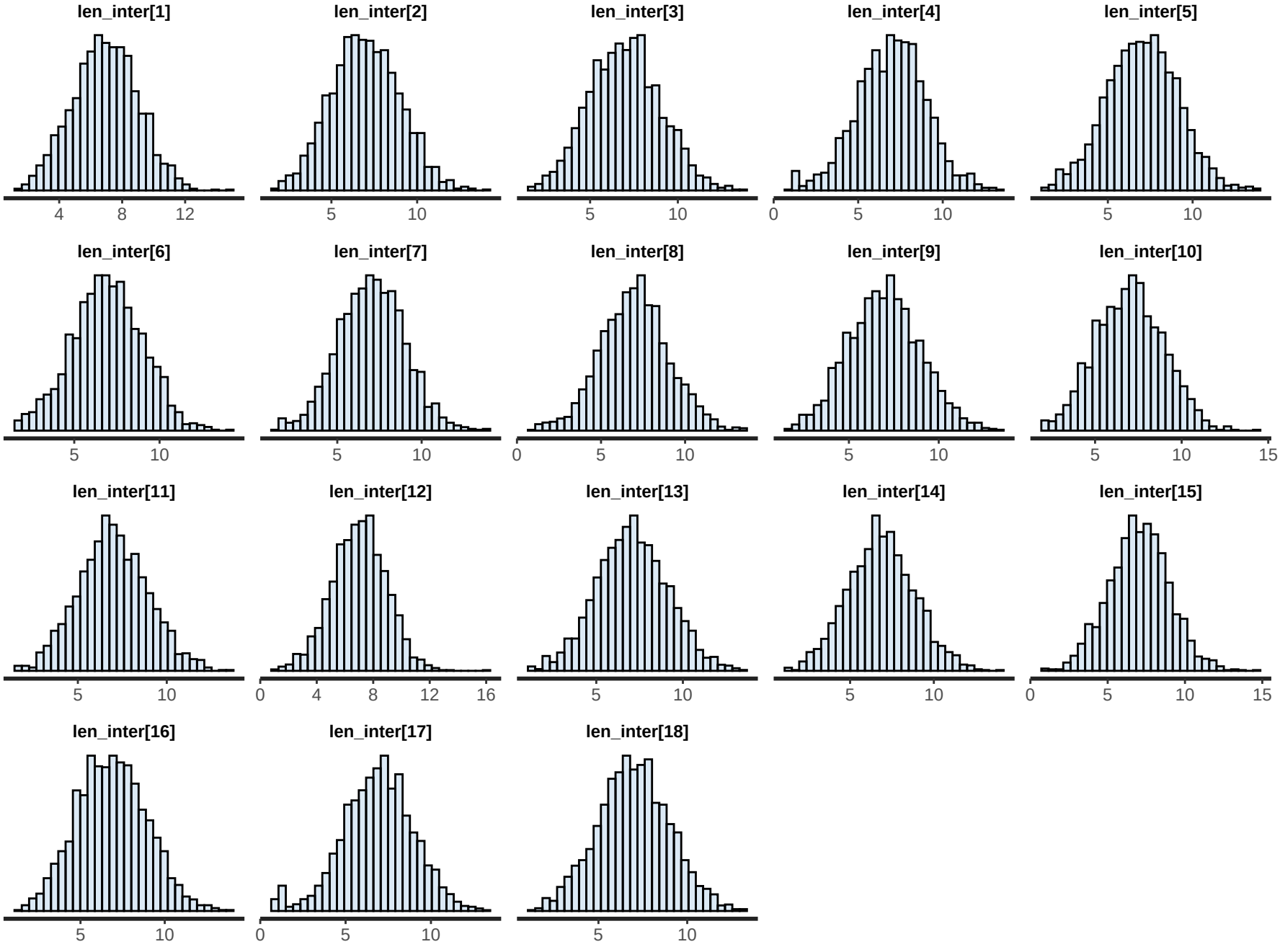
Nov 02
Nov 09


len_inter[1]
4 8 12
len_inter[2]
5 10
len_inter[3]
5 10
len_inter[4]
0 5 10
len_inter[5]
5 10
len_inter[6]
5 10
len_inter[7]
5 10
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0 5 10
len_inter[9]
5 10
len_inter[10]
5 10 15
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5 10
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0 5 10
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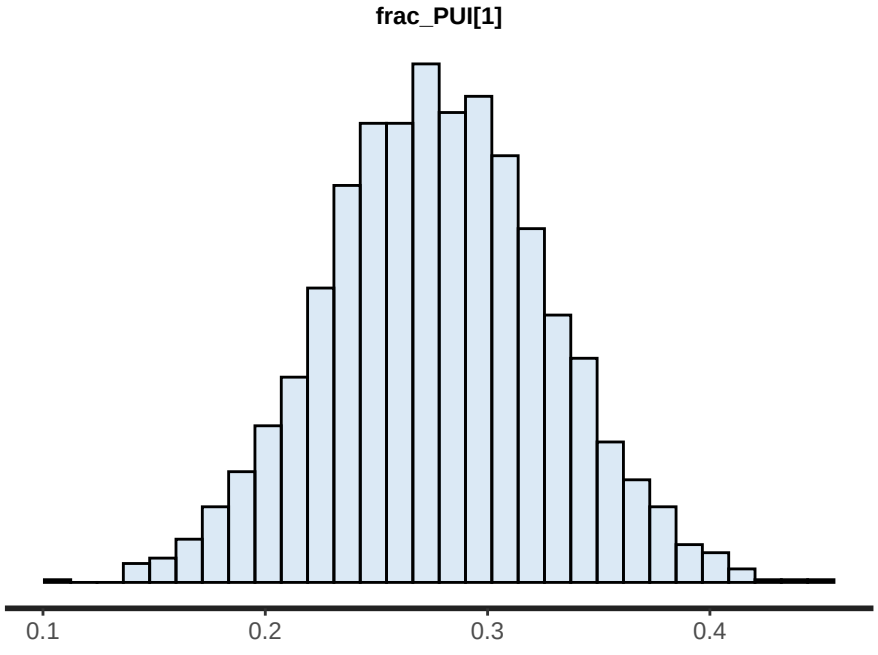
5 10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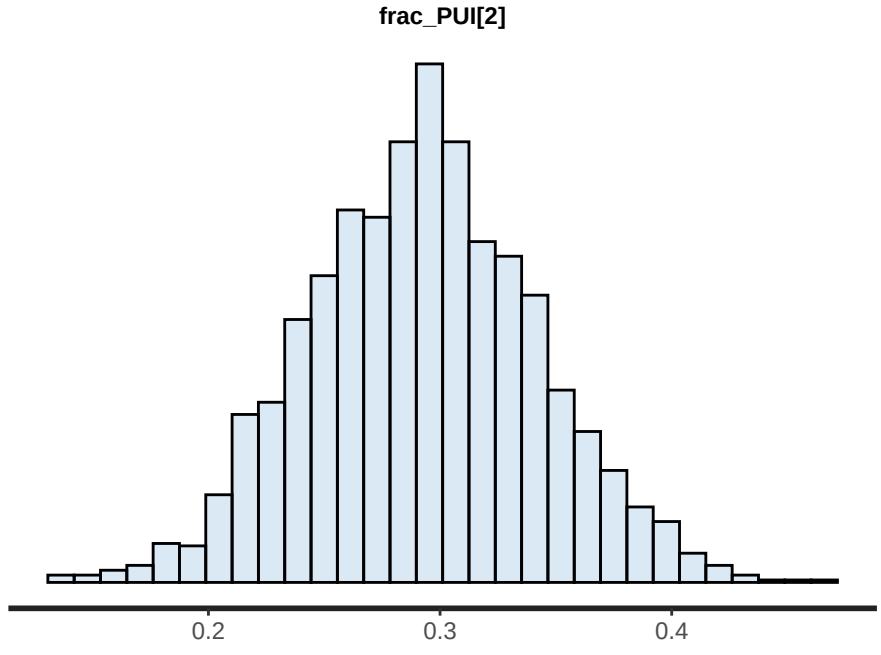
0.2
0.3
0.4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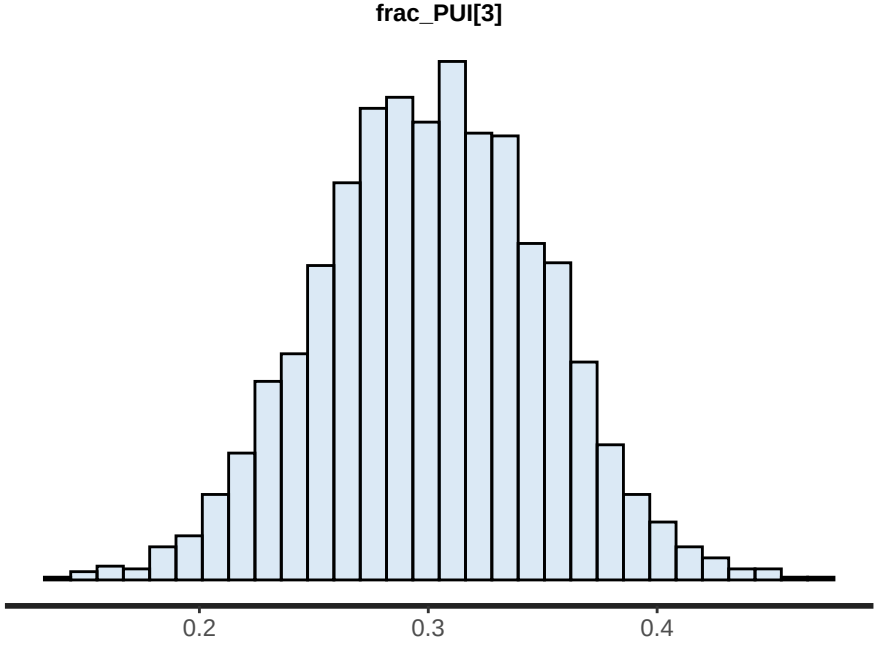
0.3
0.4


frac_PUI[3]
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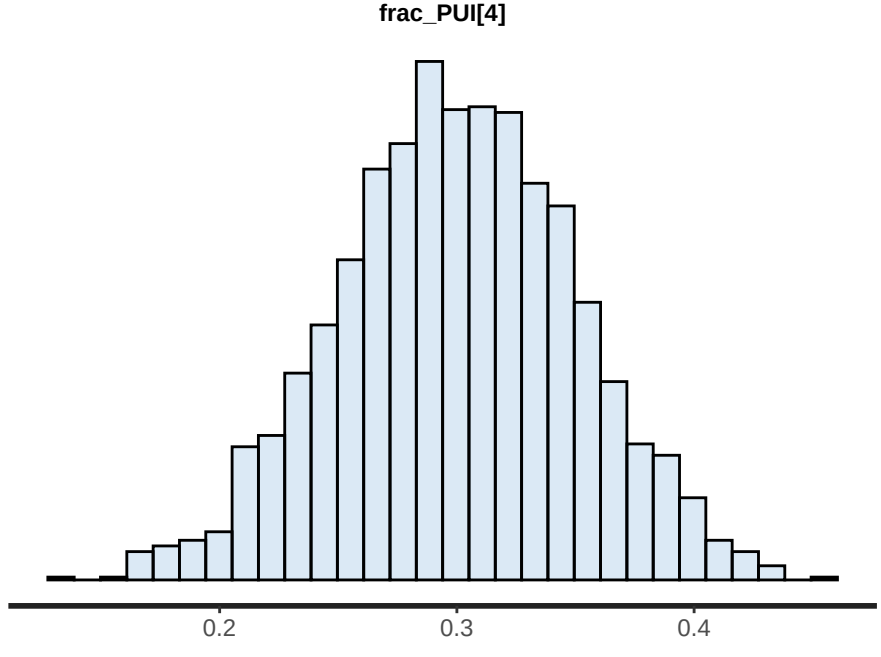
0.3
0.4


frac_PUI[4]
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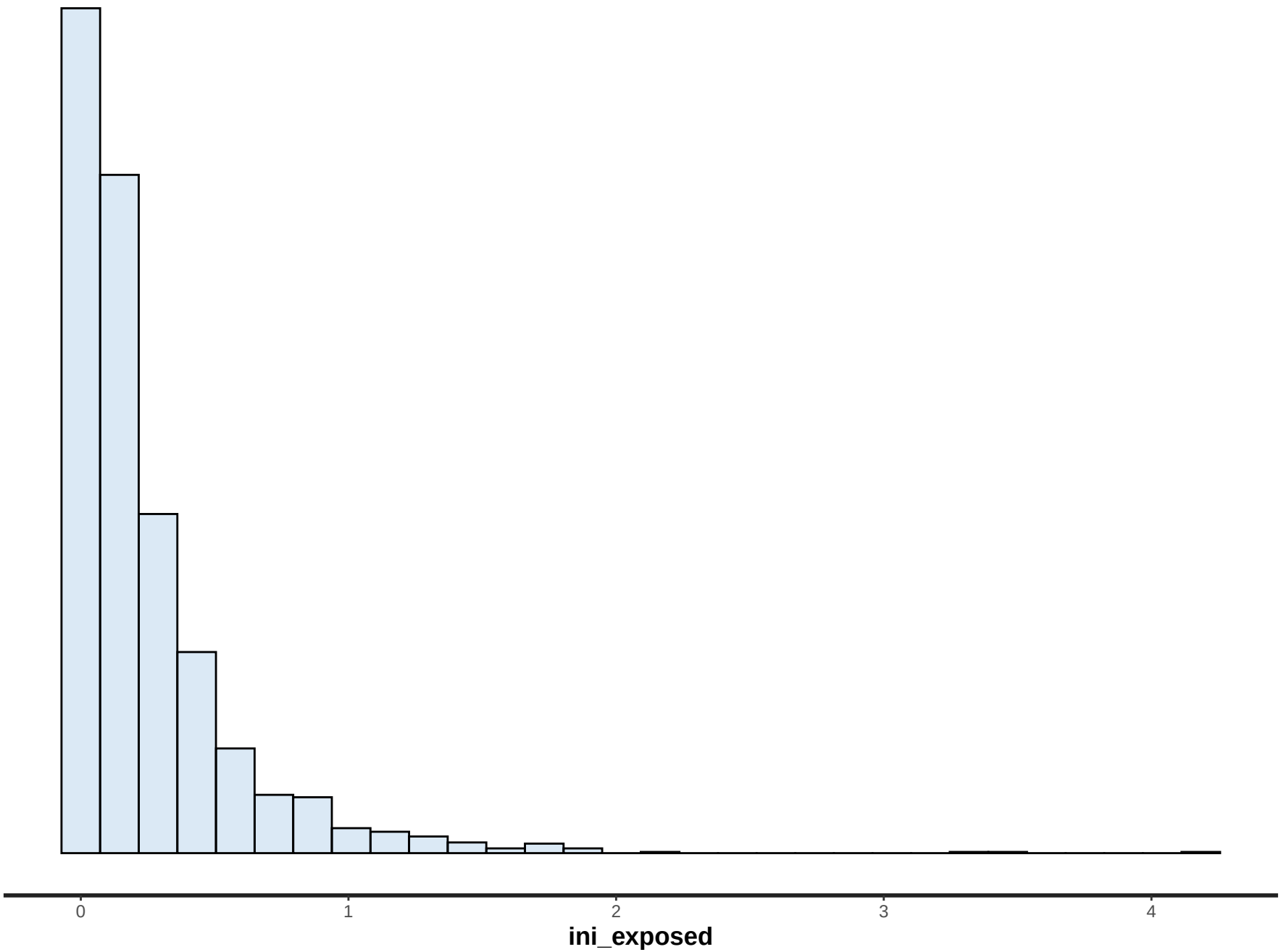
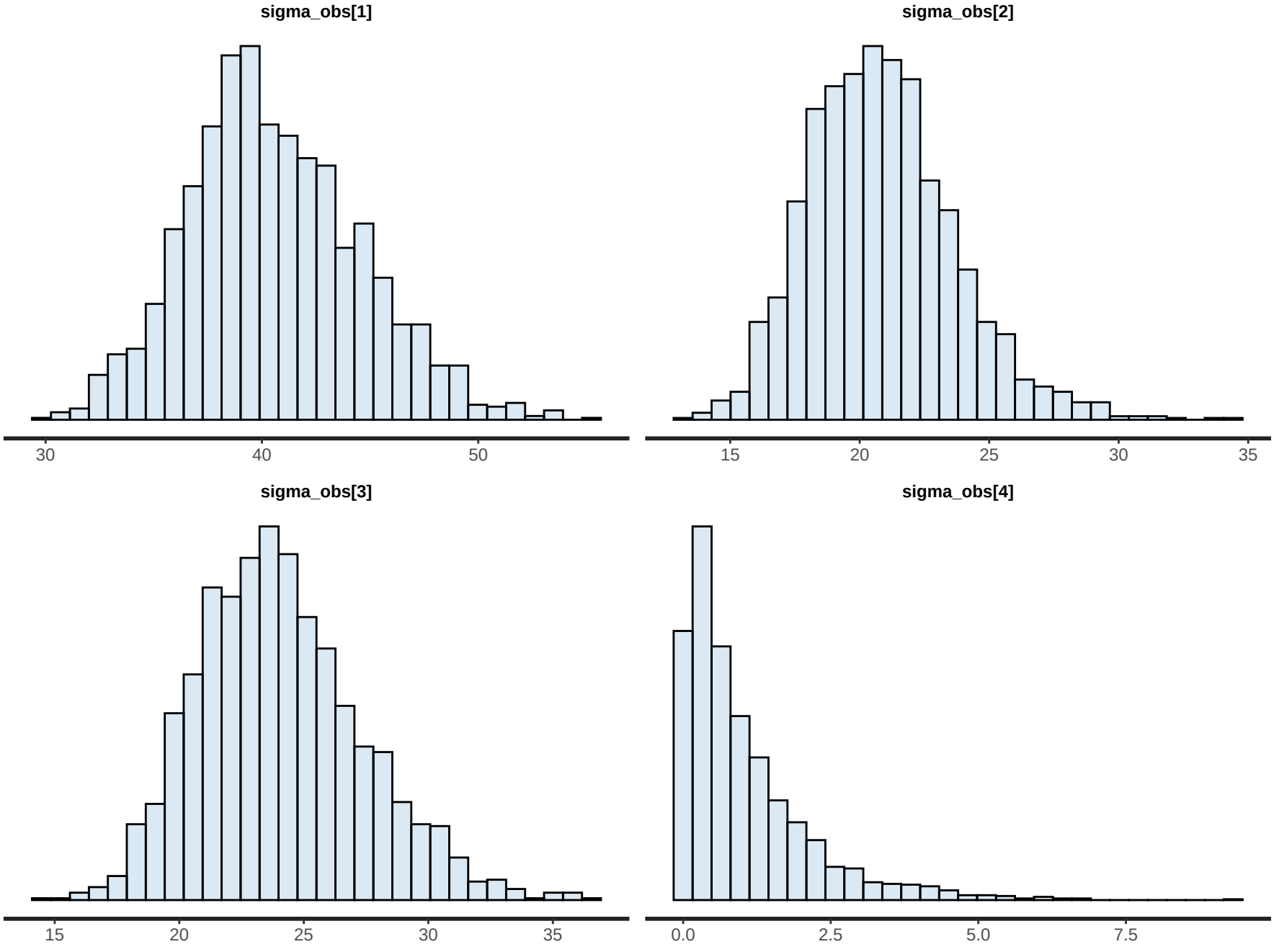
0.3
0.4


0
1
2
3
4
ini_exposed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25
30
35
sigma_obs[3]
15
20
25
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35
sigma_obs[4]
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2.5
5.0
7.5