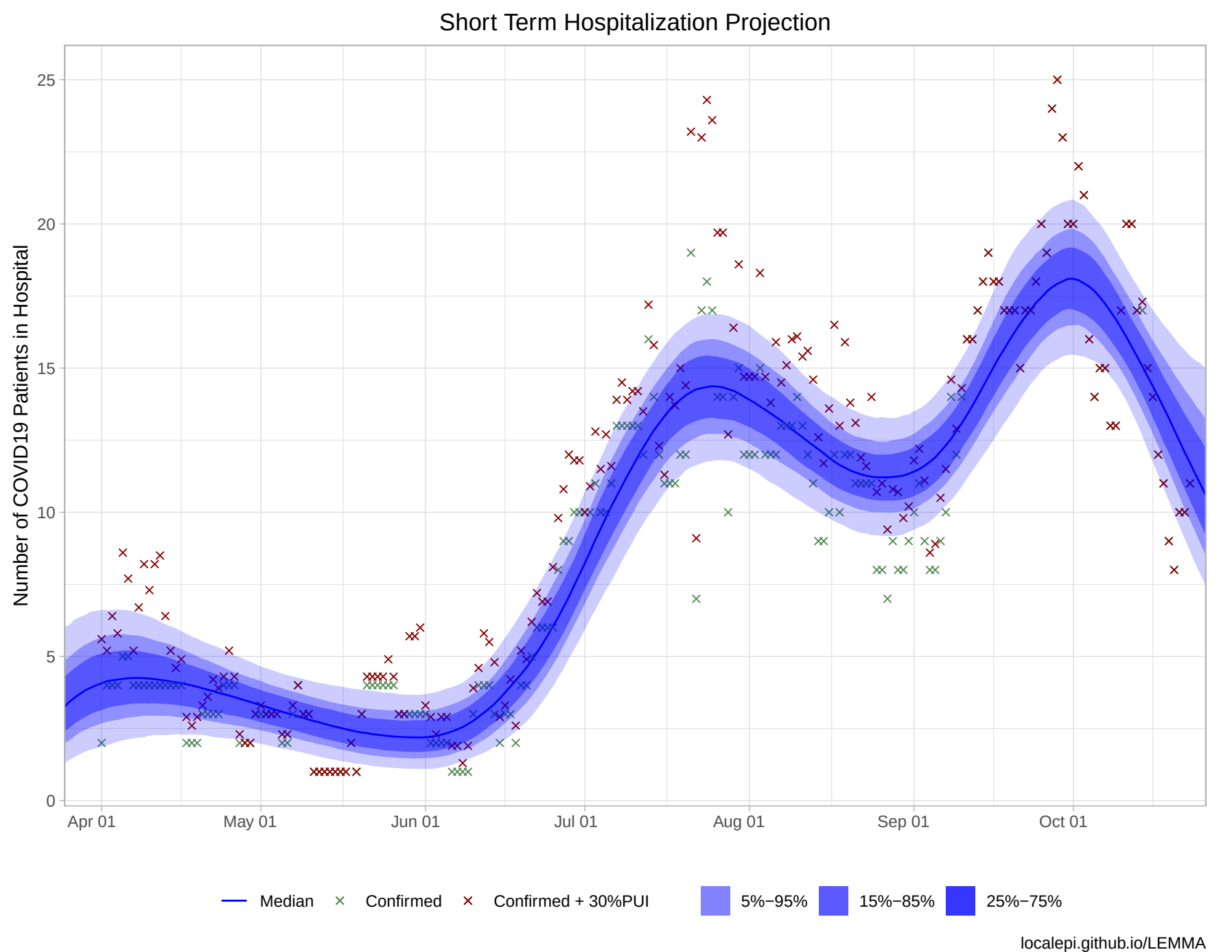
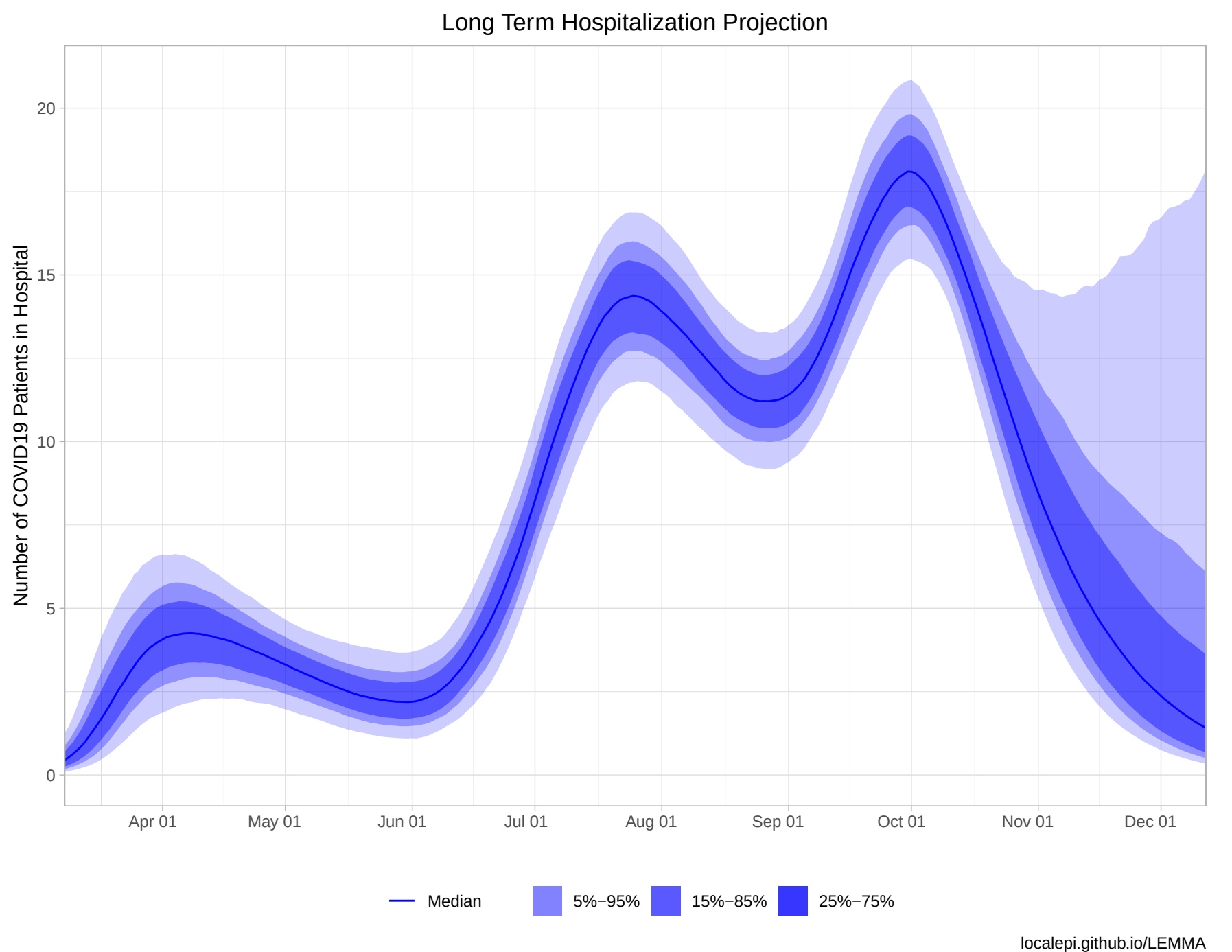
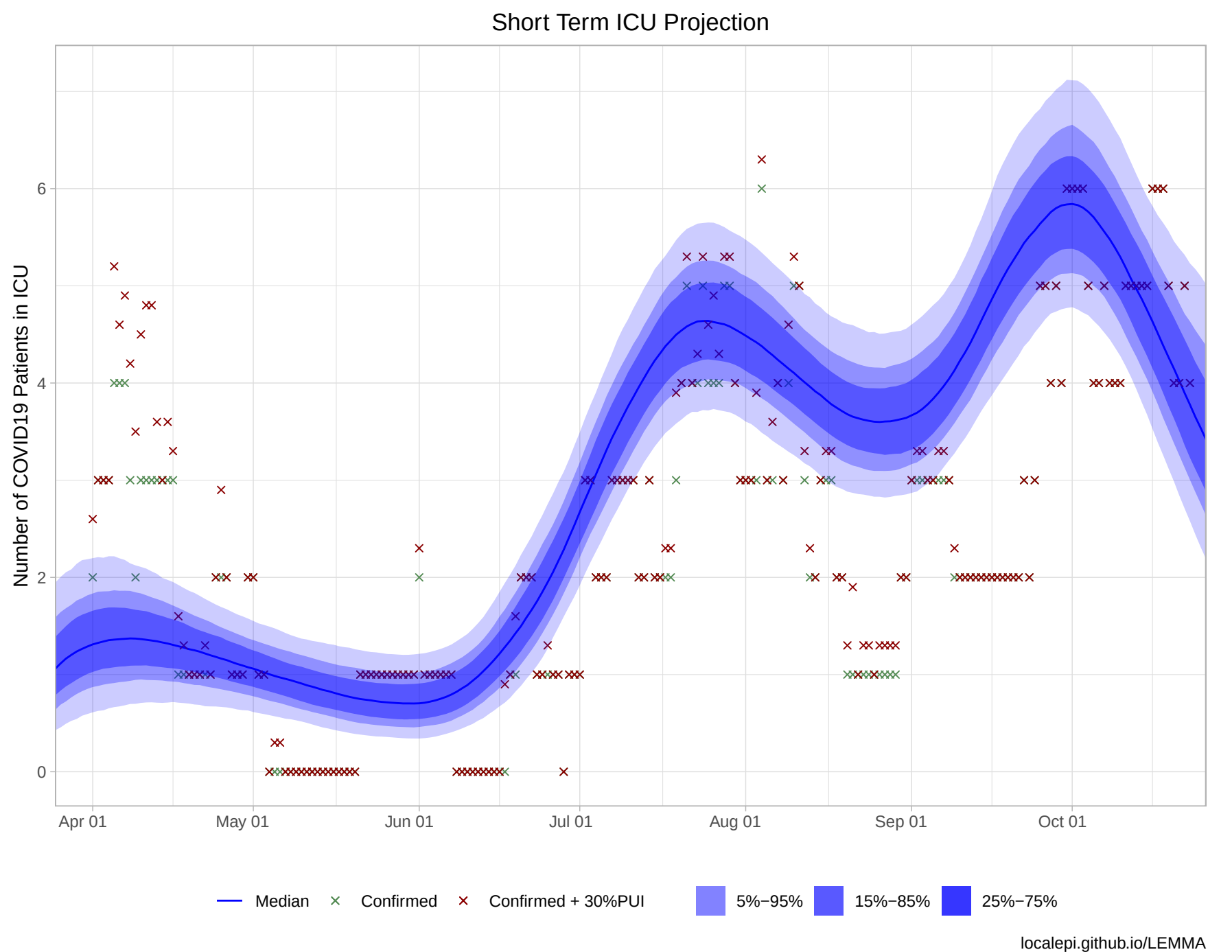
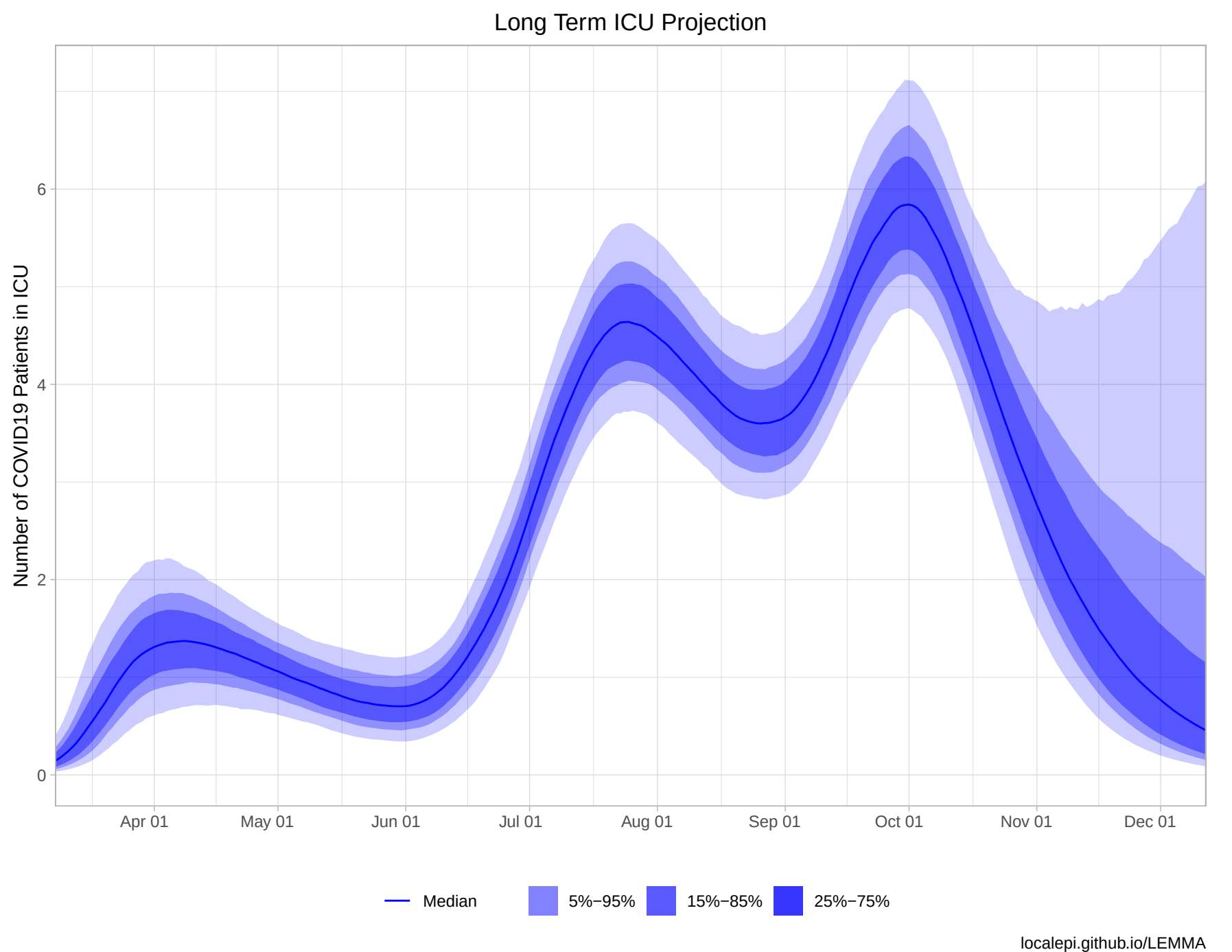
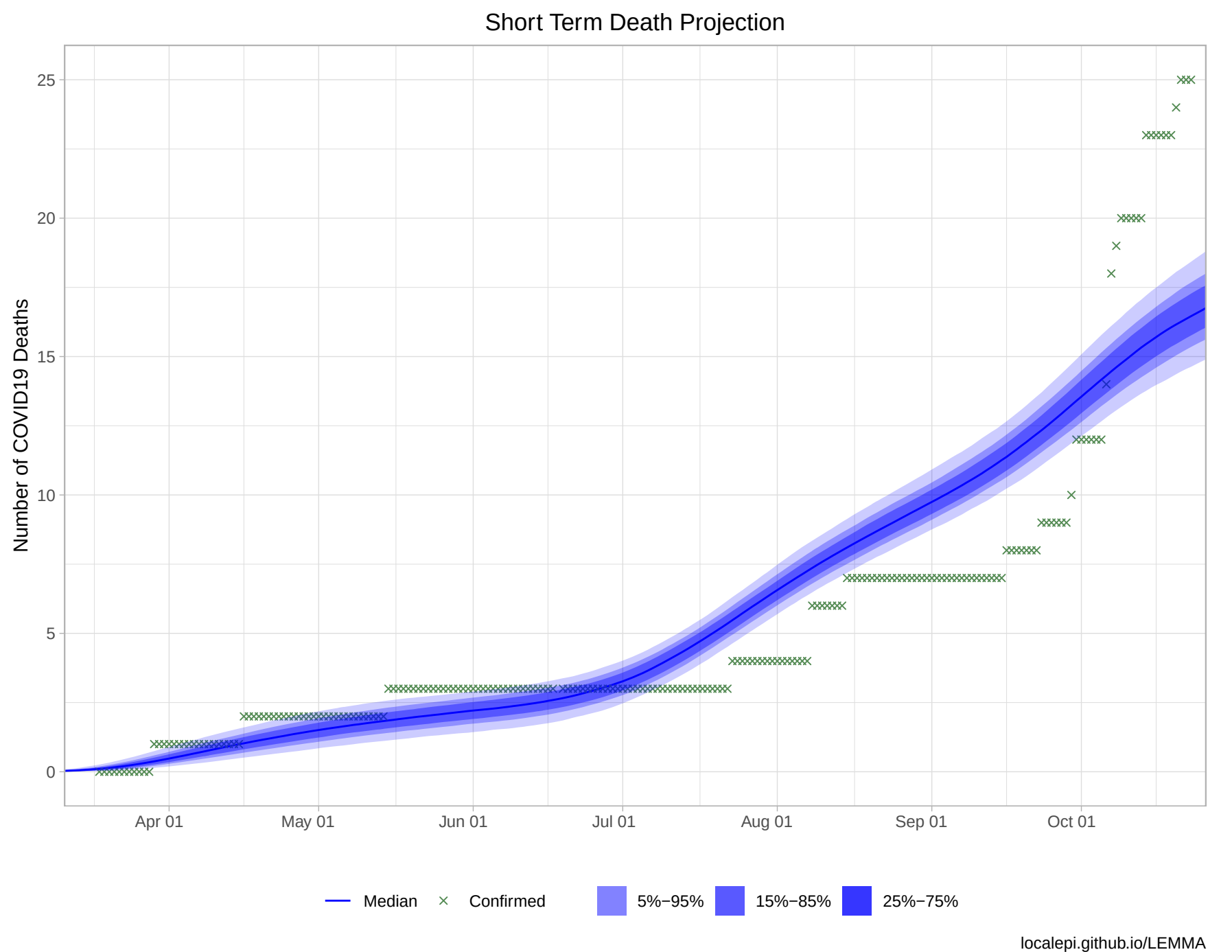
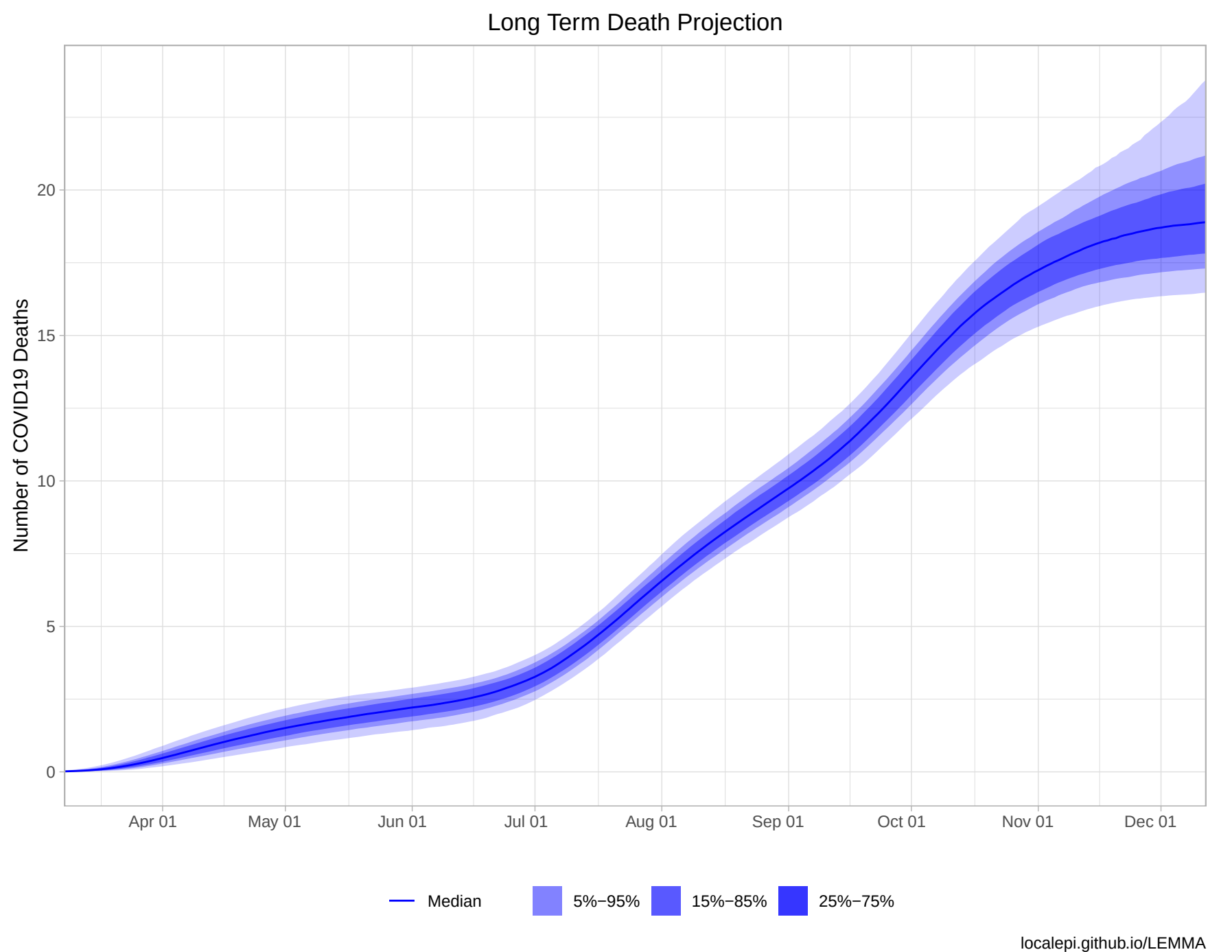

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
5
10
15
20
25
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

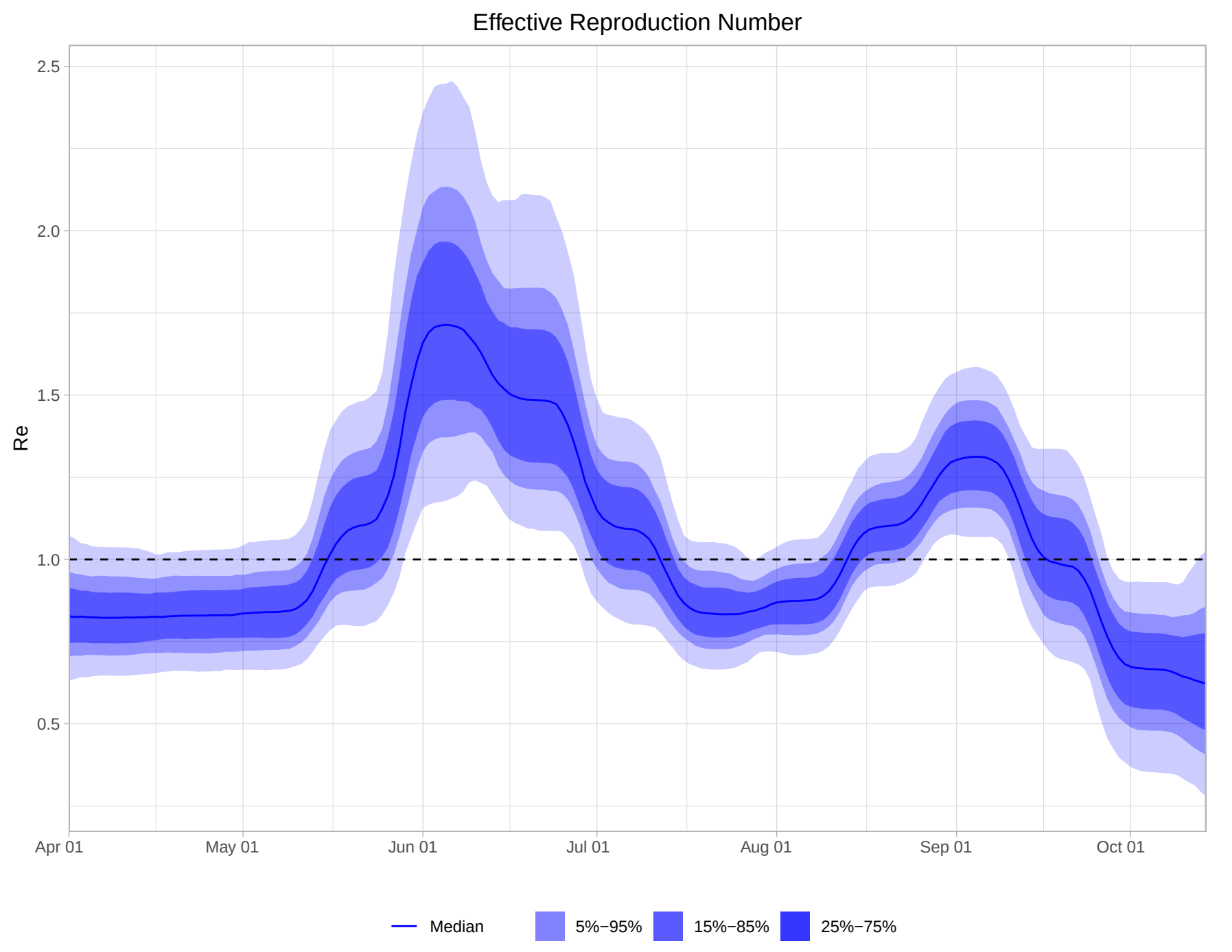

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
5
10
15
20
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


Short Term ICU Projection
Number of COVID19 Patients in ICU
0
2
4
6
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 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
0
2
4
6
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

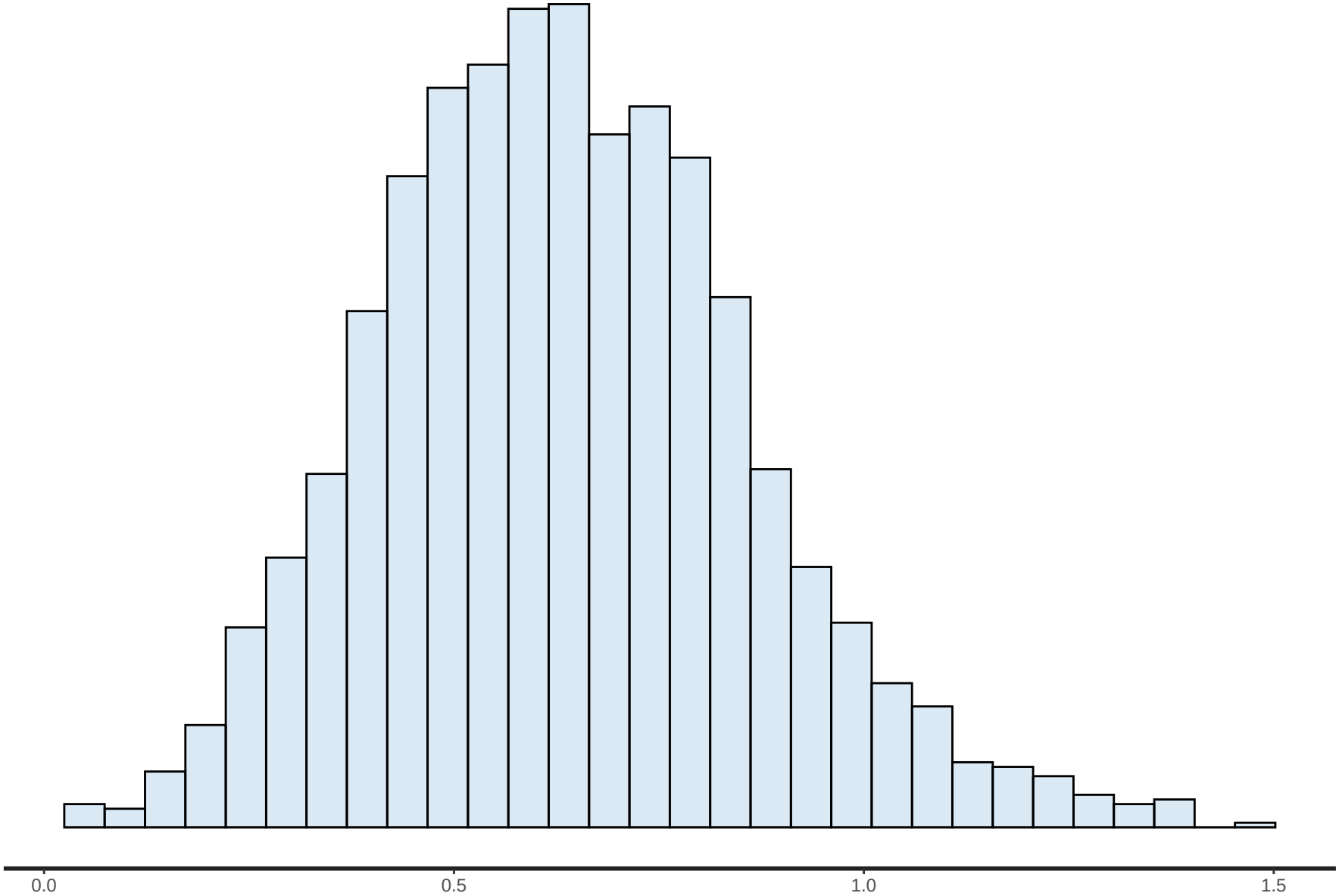

Short Term Death Projection
Number of COVID19 Deaths
25
20
15
10
5
0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

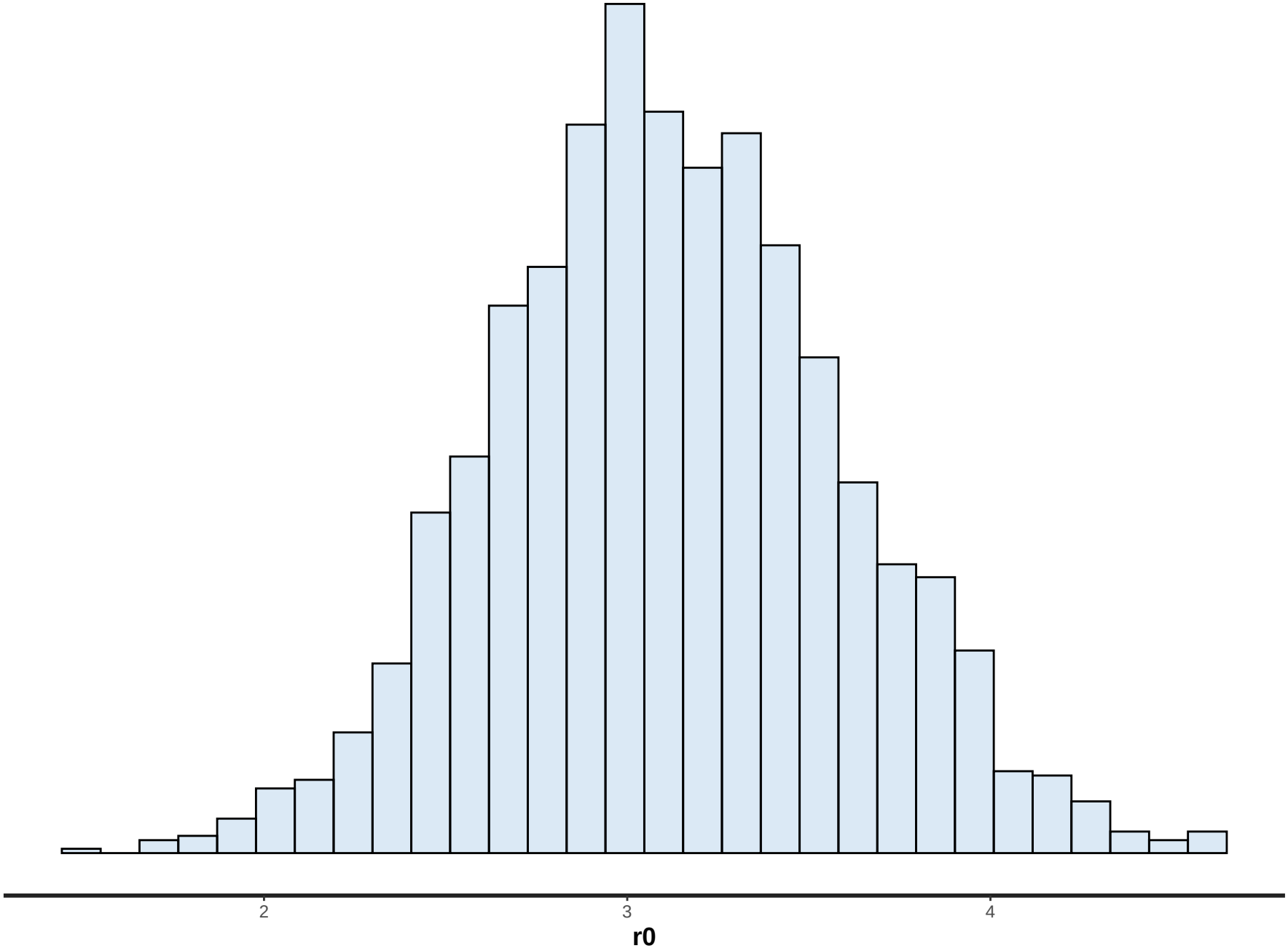

Long Term Death Projection
Number of COVID19 Deaths
0
5
10
15
20
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

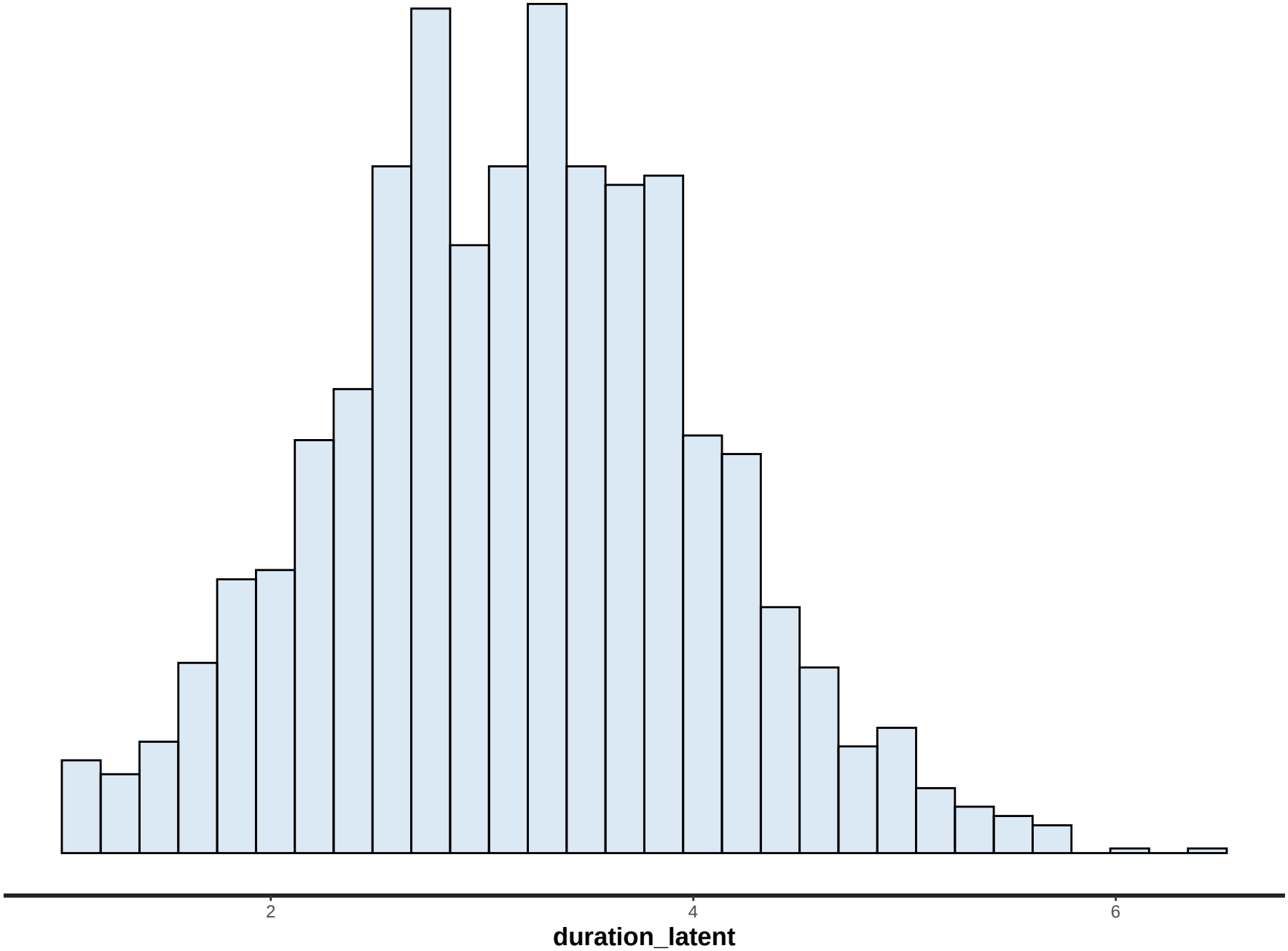

Effective Reproduction Number
Re
2.5
2.0
1.5
1.0
0.5
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Median
5%−95%
15%−85%
25%−75%

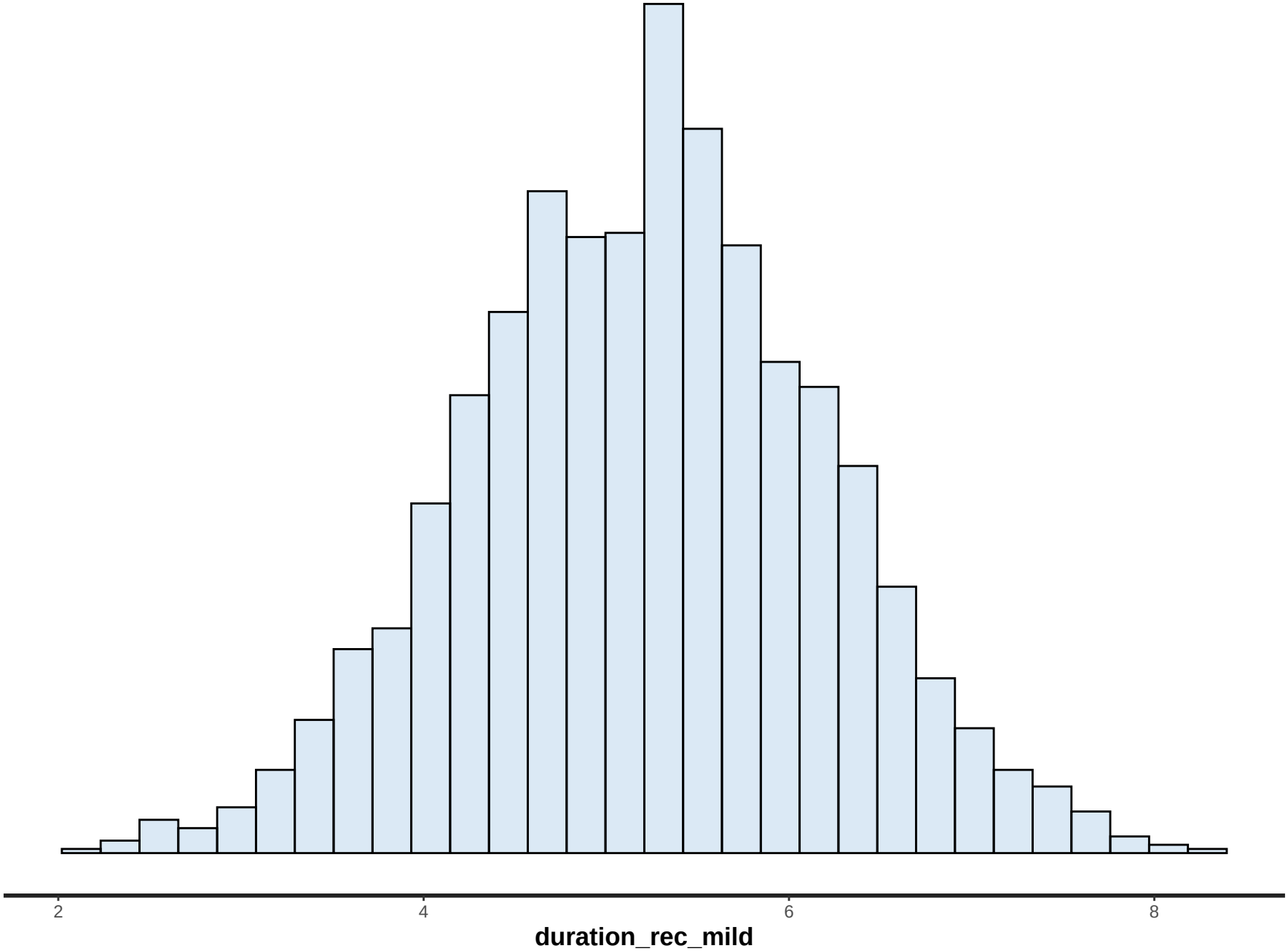
Rt as of 2020−10−14

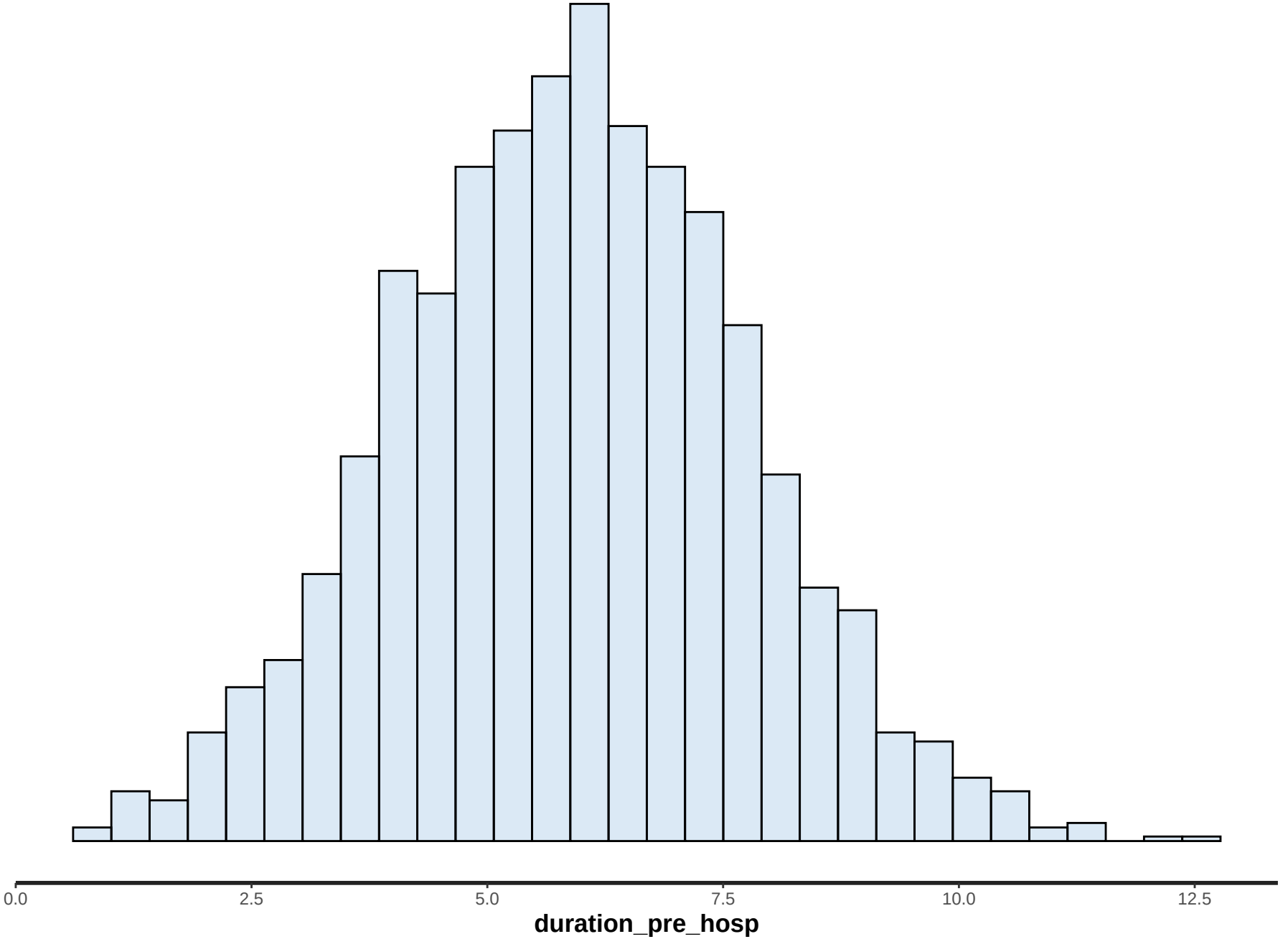
5%	10%	25%	50%	75%	90%	95%
0.28	0.36	0.48	0.62	0.78	0.92	1.03

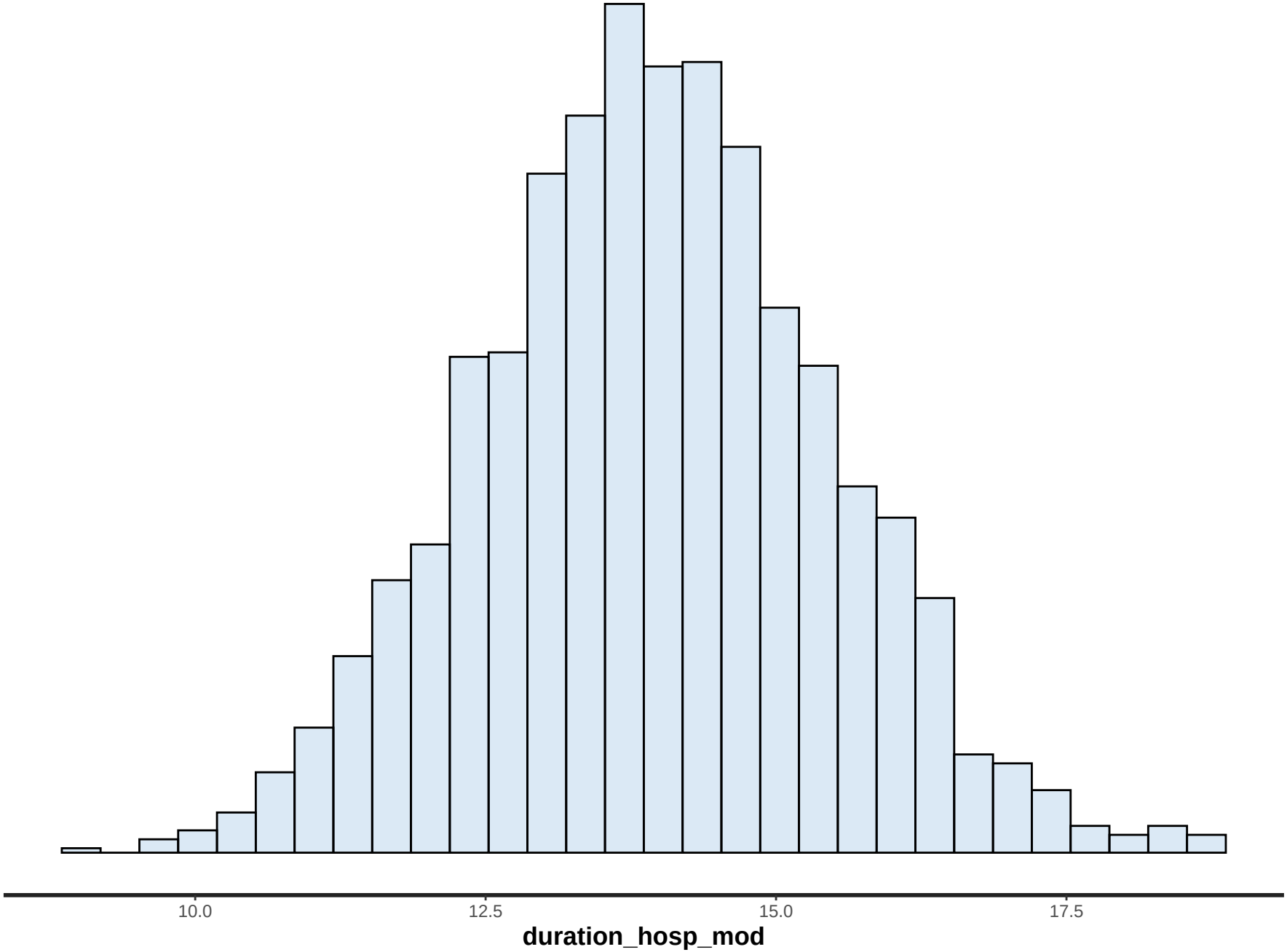


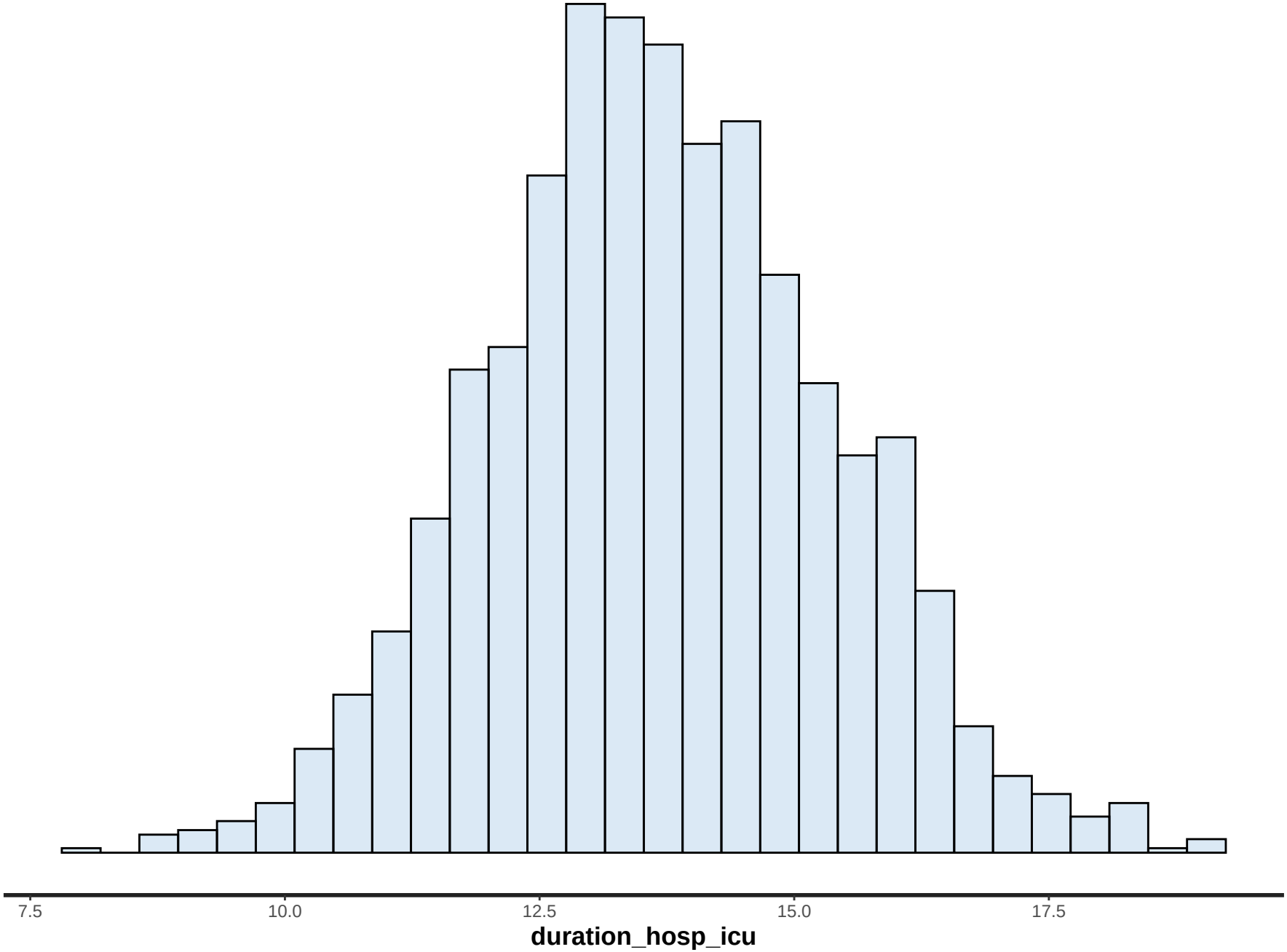

2
3
4
r0

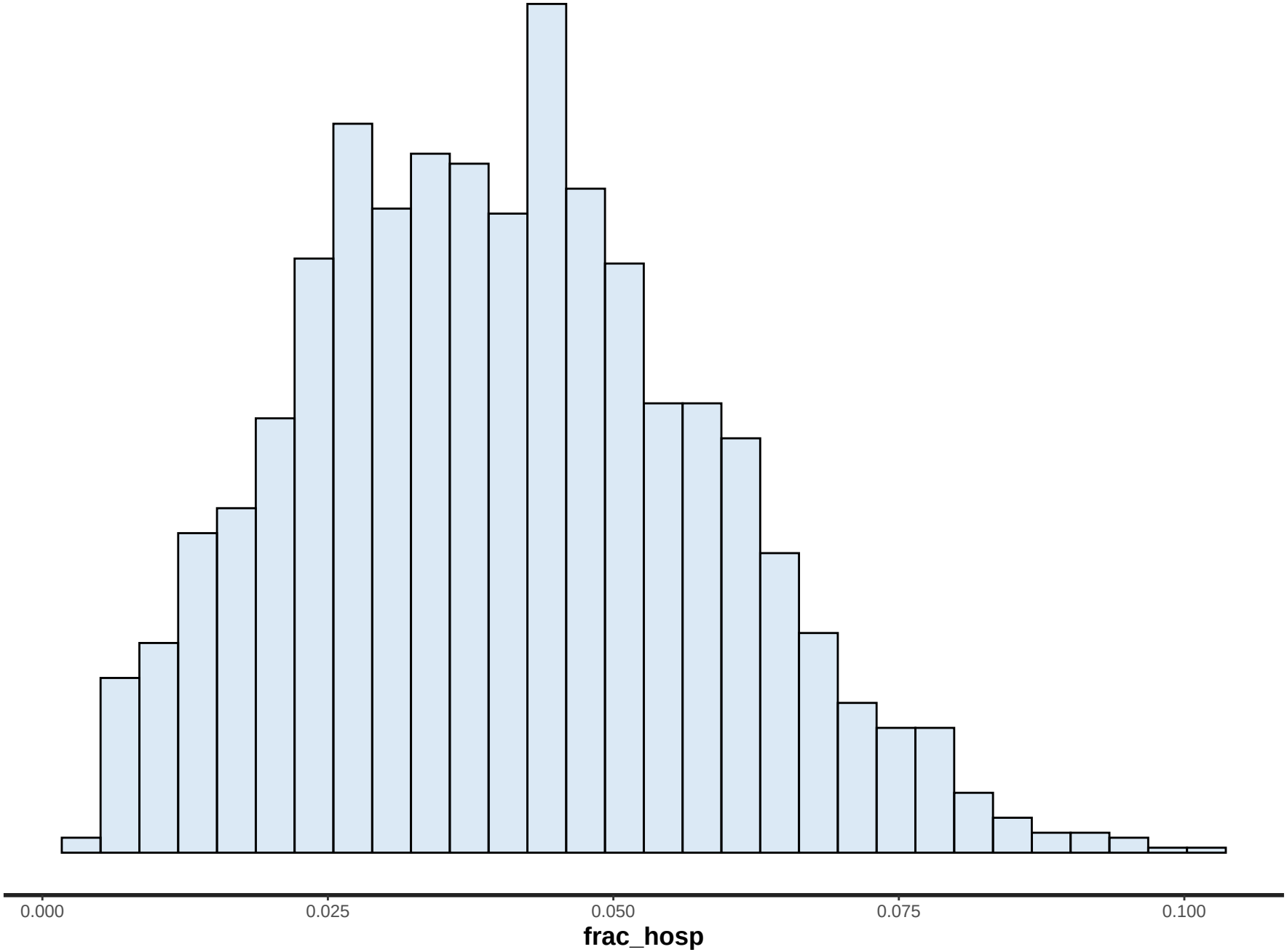

2
4
6
duration_latent


2
4
6
8
duration_rec_mild


0.0
2.5
5.0
7.5
10.0
12.5
duration_pre_hosp


10.0
12.5
15.0
17.5
duration_hosp_mod


7.5
10.0
12.5
15.0
17.5
duration_hosp_icu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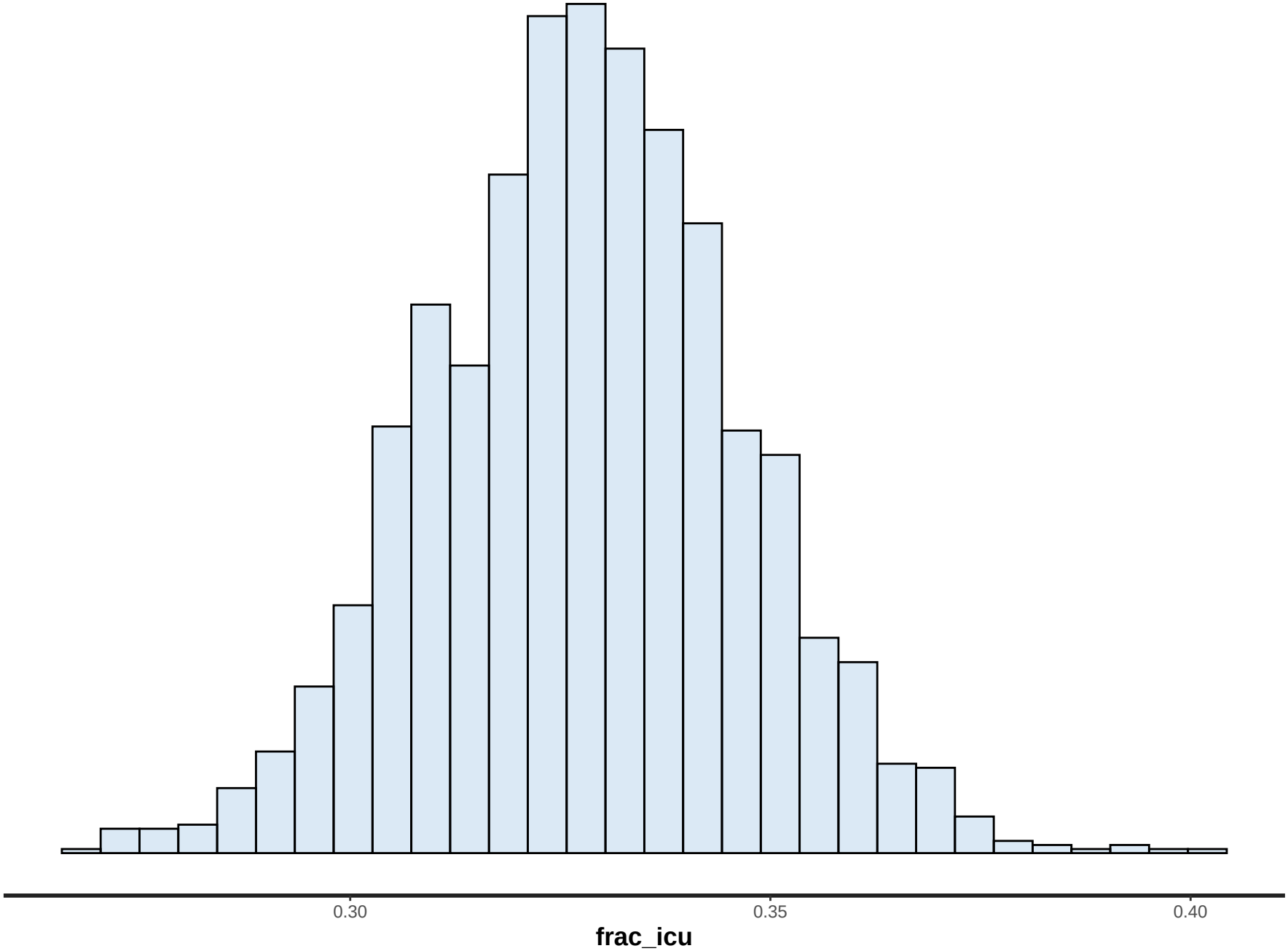
0.025
0.050
0.075
0.100
frac_hosp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0.35
0.40
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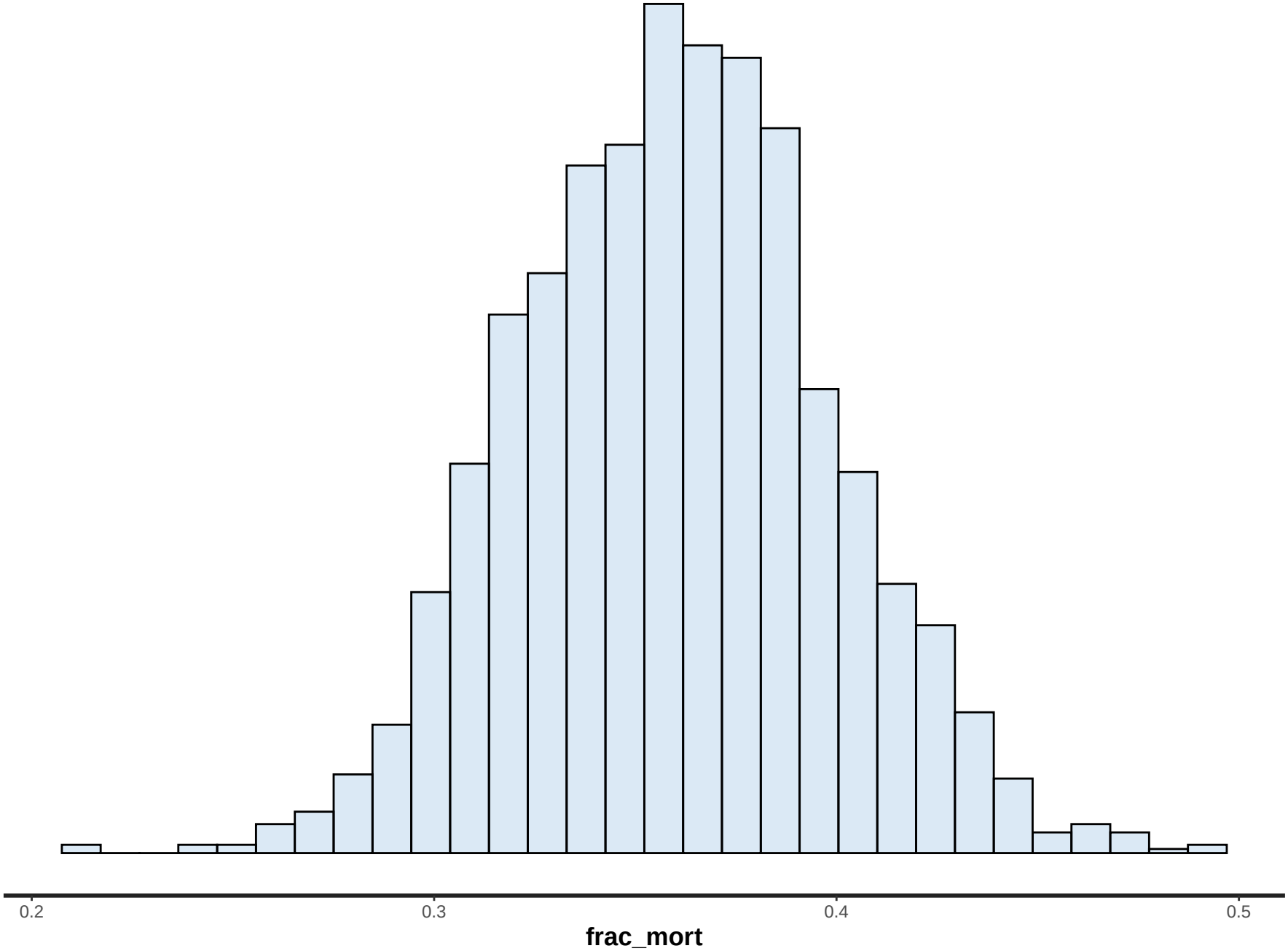
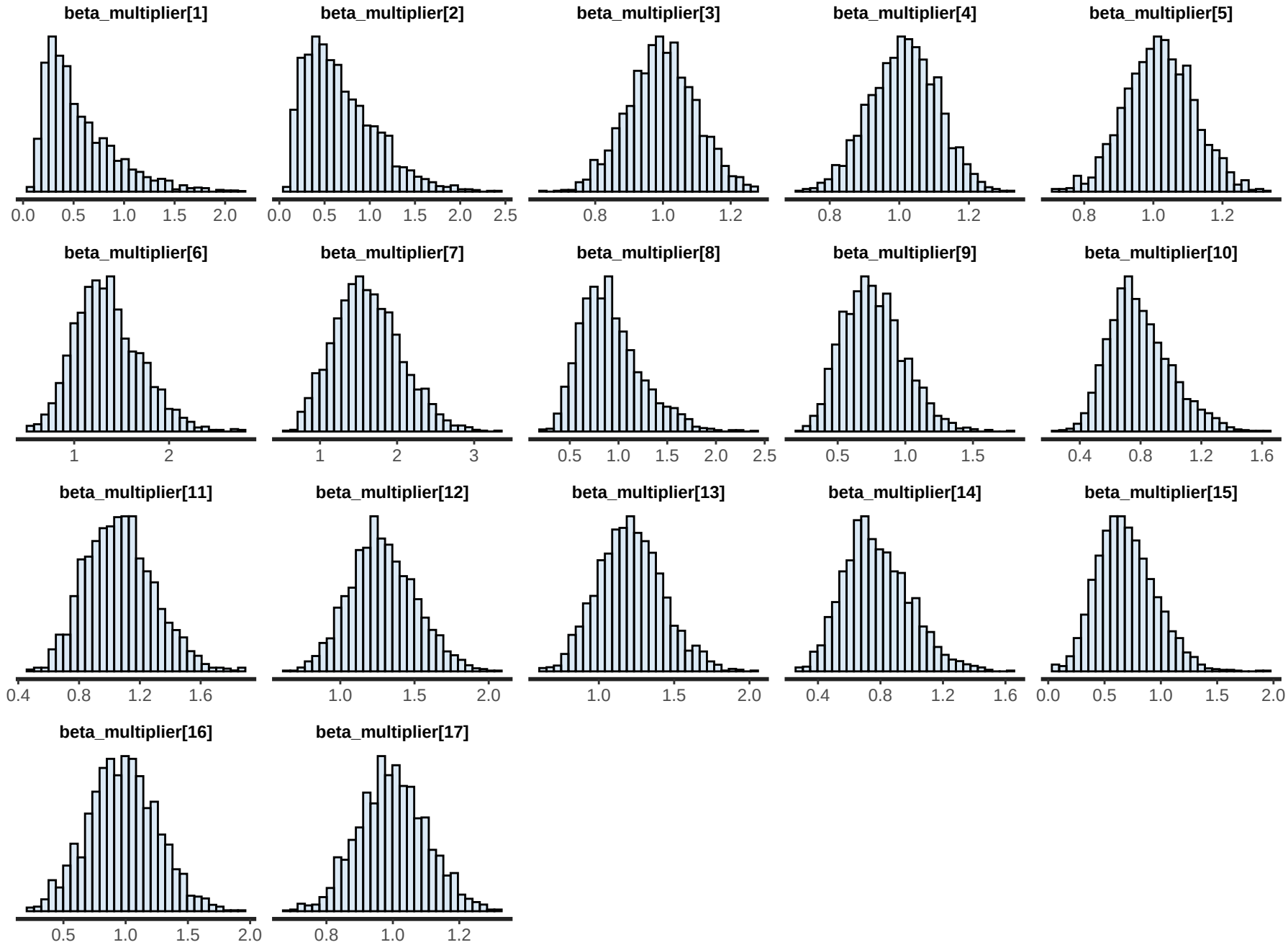

0.2
0.3
0.4
0.5
frac_mort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0.0 0.5 1.0 1.5 2.0 2.5
beta_multiplier[3]
0.8 1.0 1.2
beta_multiplier[4]
0.8 1.0 1.2
beta_multiplier[5]
0.8 1.0 1.2
beta_multiplier[6]
1 2
beta_multiplier[7]
1 2 3
beta_multiplier[8]
0.5 1.0 1.5 2.0 2.5
beta_multiplier[9]
0.5 1.0 1.5
beta_multiplier[10]
0.4 0.8 1.2 1.6
beta_multiplier[11]
0.4 0.8 1.2 1.6
beta_multiplier[12]
1.0 1.5 2.0
beta_multiplier[13]
1.0 1.5 2.0
beta_multiplier[14]
0.4 0.8 1.2 1.6
beta_multiplier[15]
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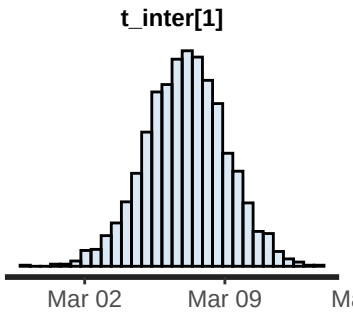
beta_multiplier[16]
0.5 1.0 1.5 2.0
beta_multiplier[17]
0.8 1.0 1.2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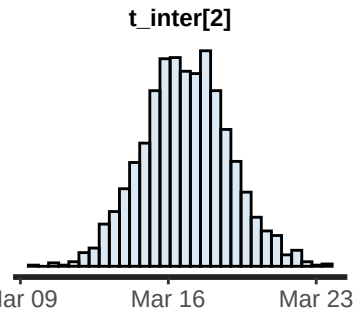
Mar 09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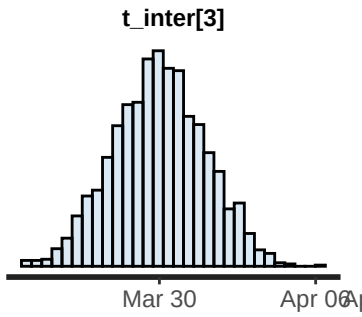
Mar 09
Mar 16
Mar 23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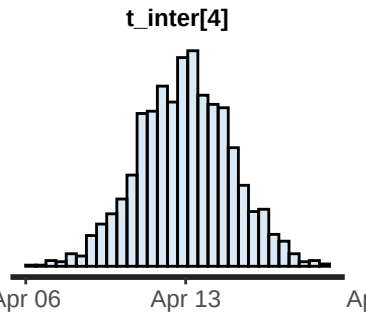
Mar 30
Apr 06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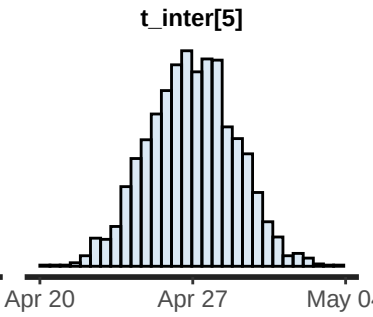
Apr 06
Apr 13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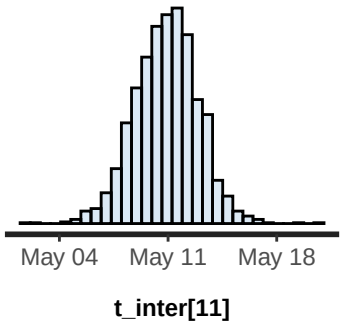
Apr 27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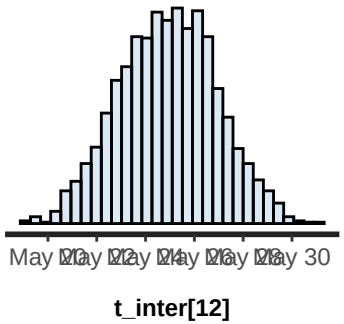
May 11
May 18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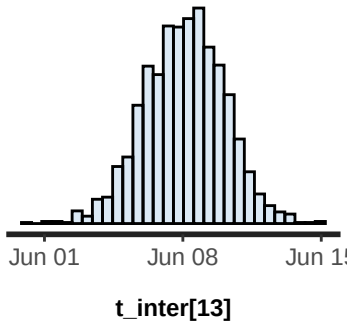
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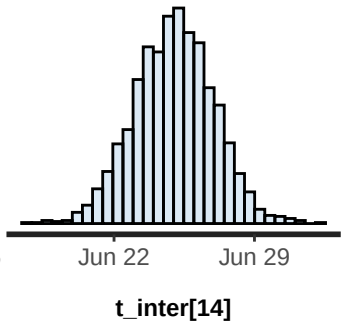
Jun 08
Jun 15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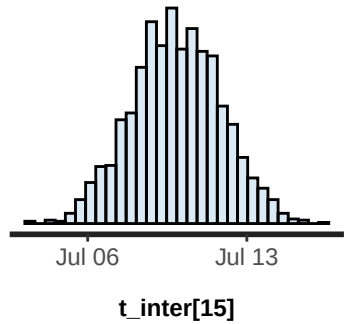
Jun 22
Jun 29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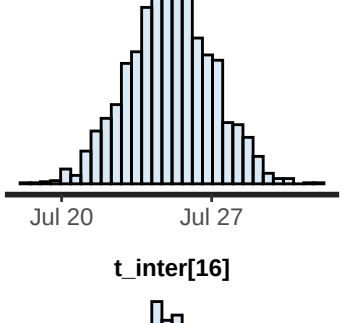
Jul 06
Jul 13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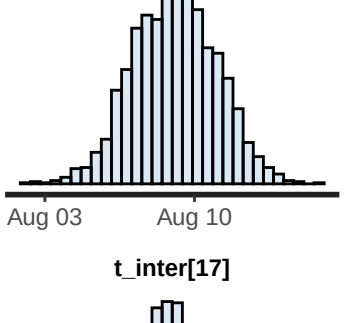
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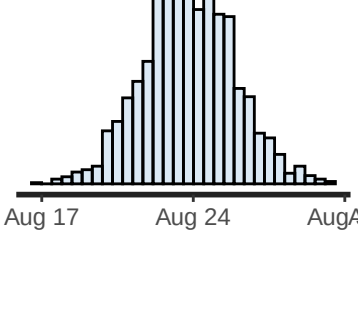
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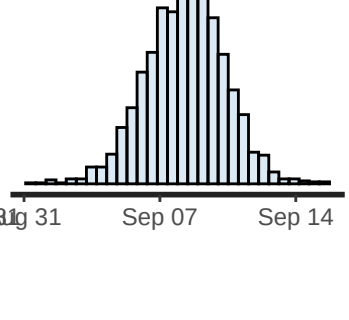
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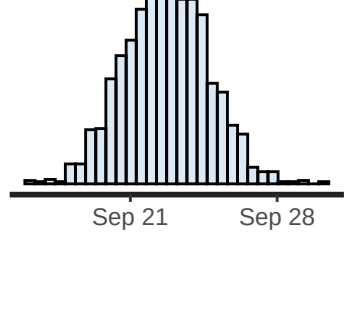
Aug 31
Sep 07
Sep 14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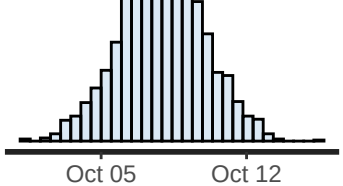
Sep 28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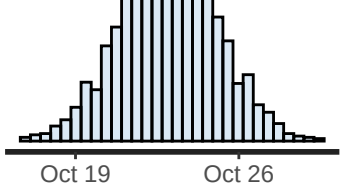
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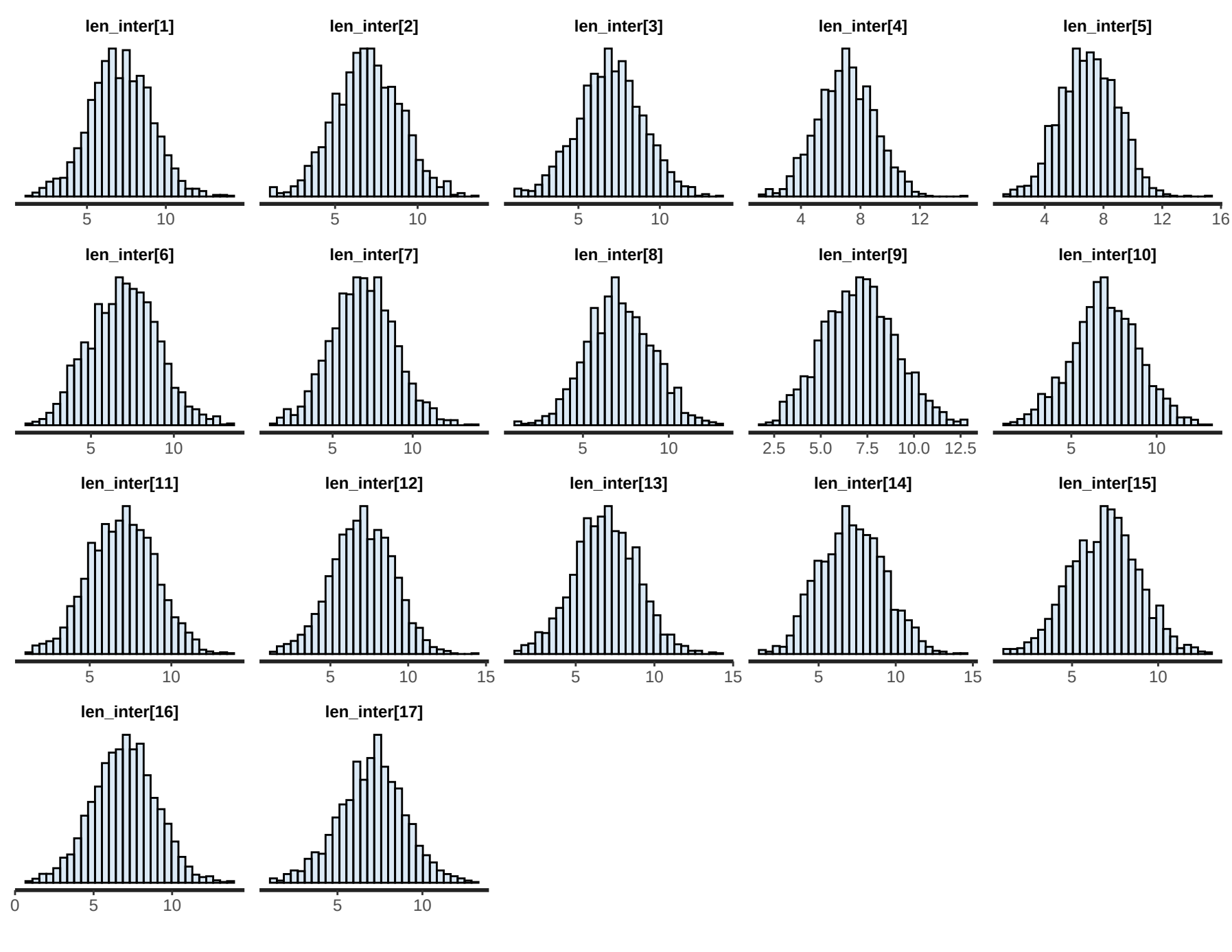
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len_inter[3]
len_inter[4]
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len_inter[7]
len_inter[8]
len_inter[9]
len_inter[10]
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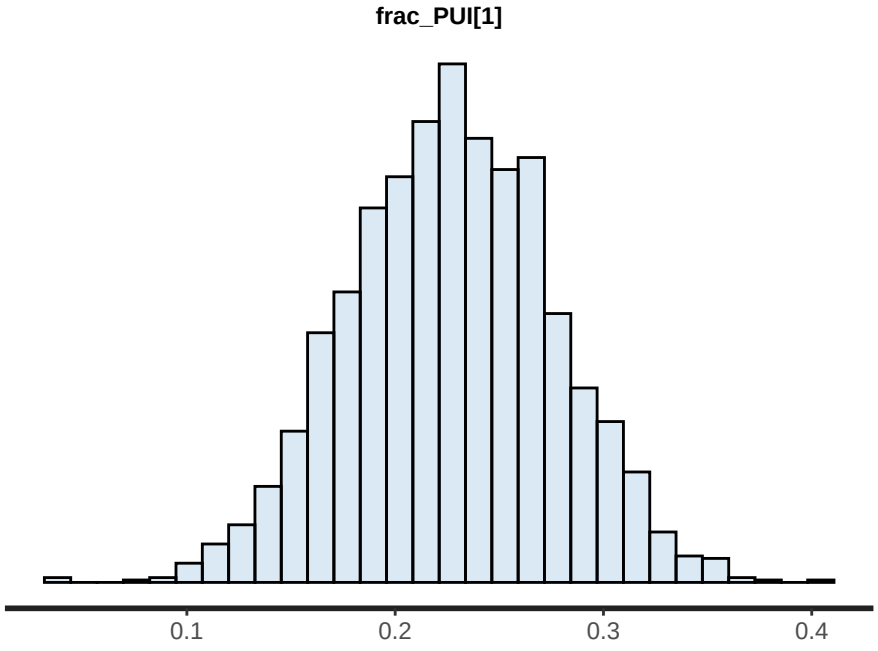
len_inter[17]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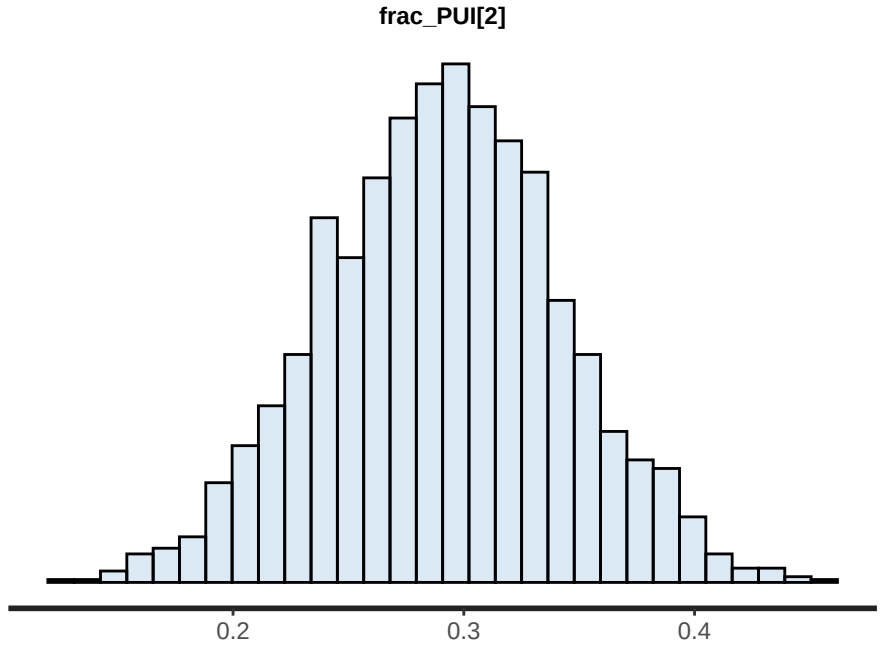
0.4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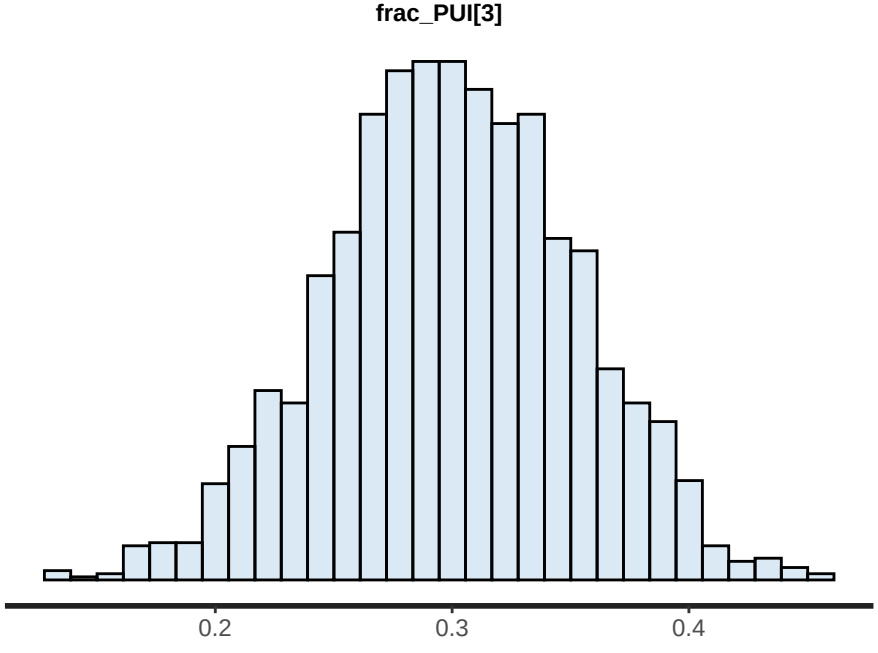
0.4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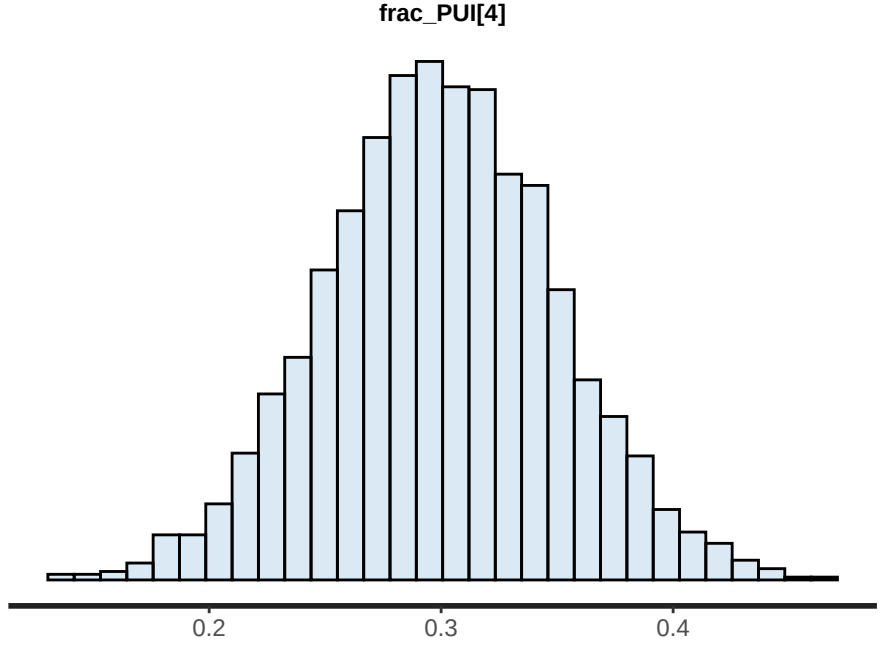
0.4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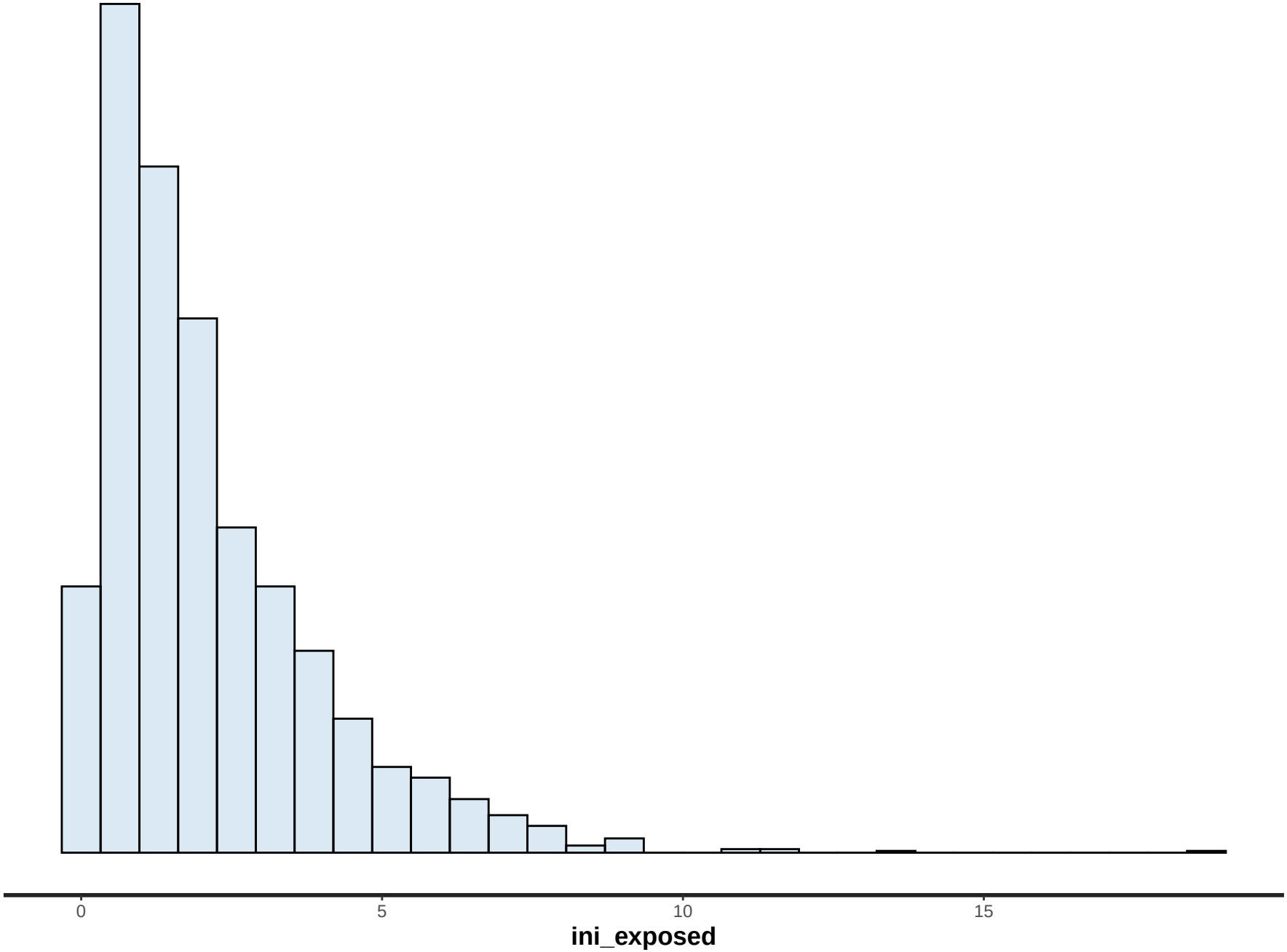
0.4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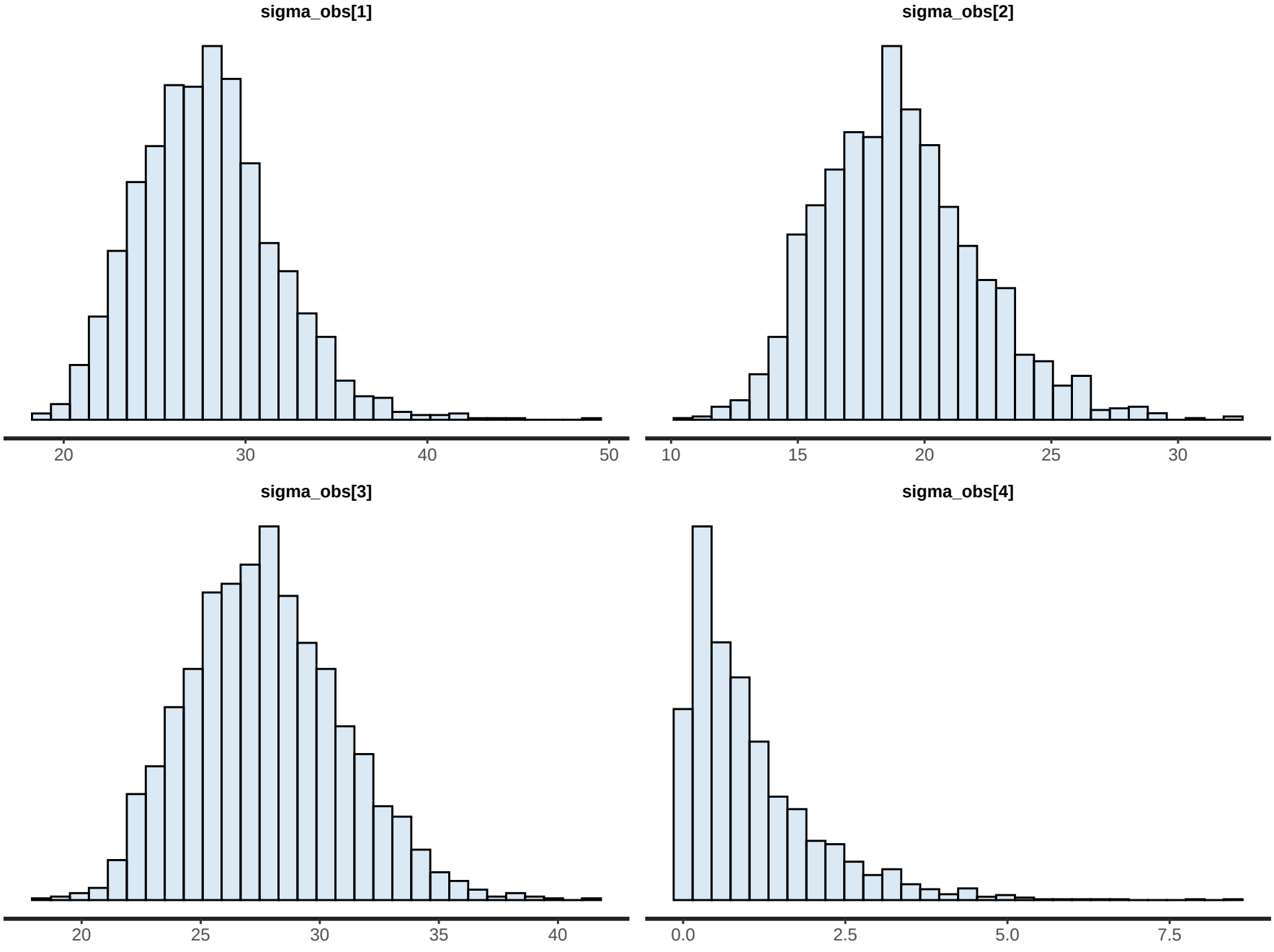
10
15
ini_exposed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sigma_obs[3]
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sigma_obs[4]
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5.0
7.5