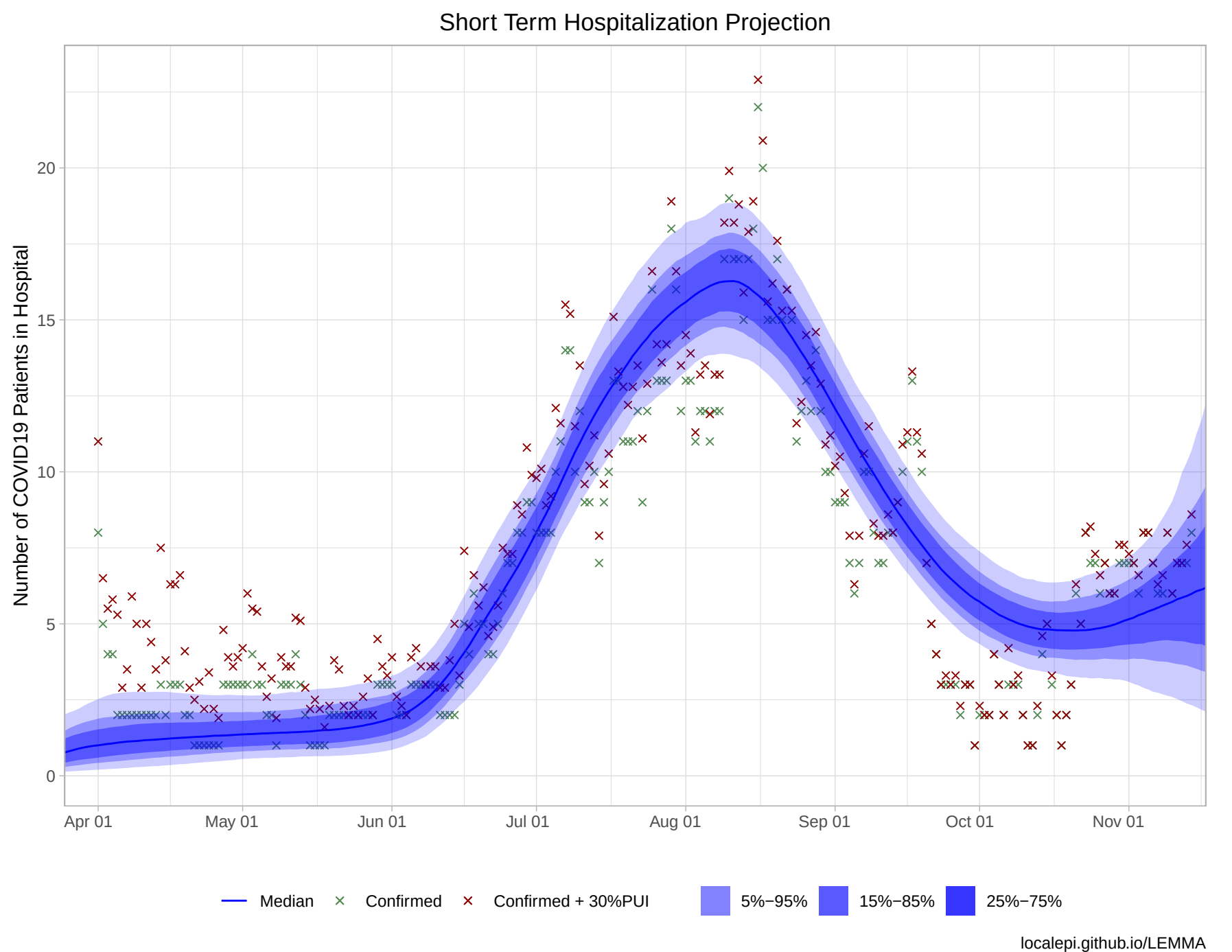
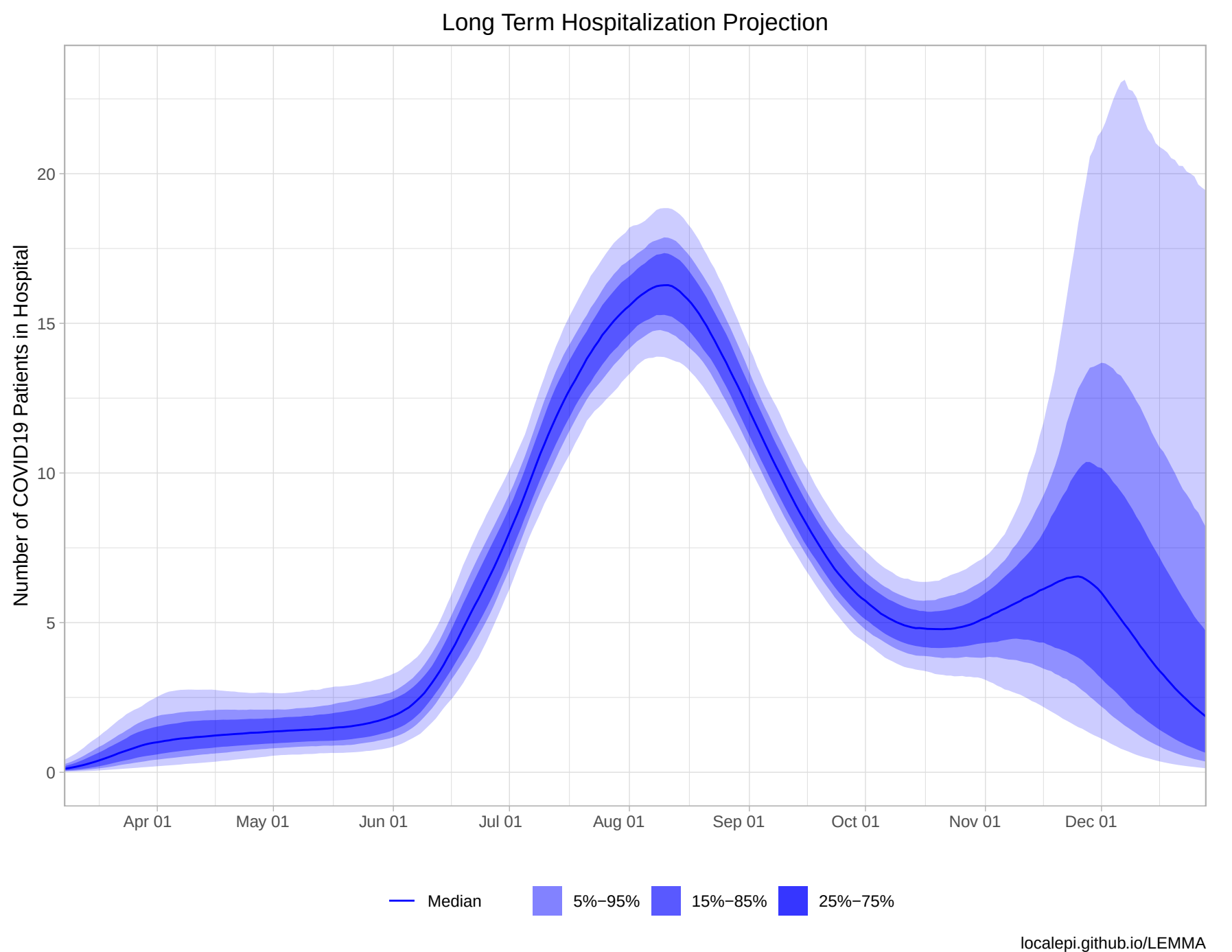
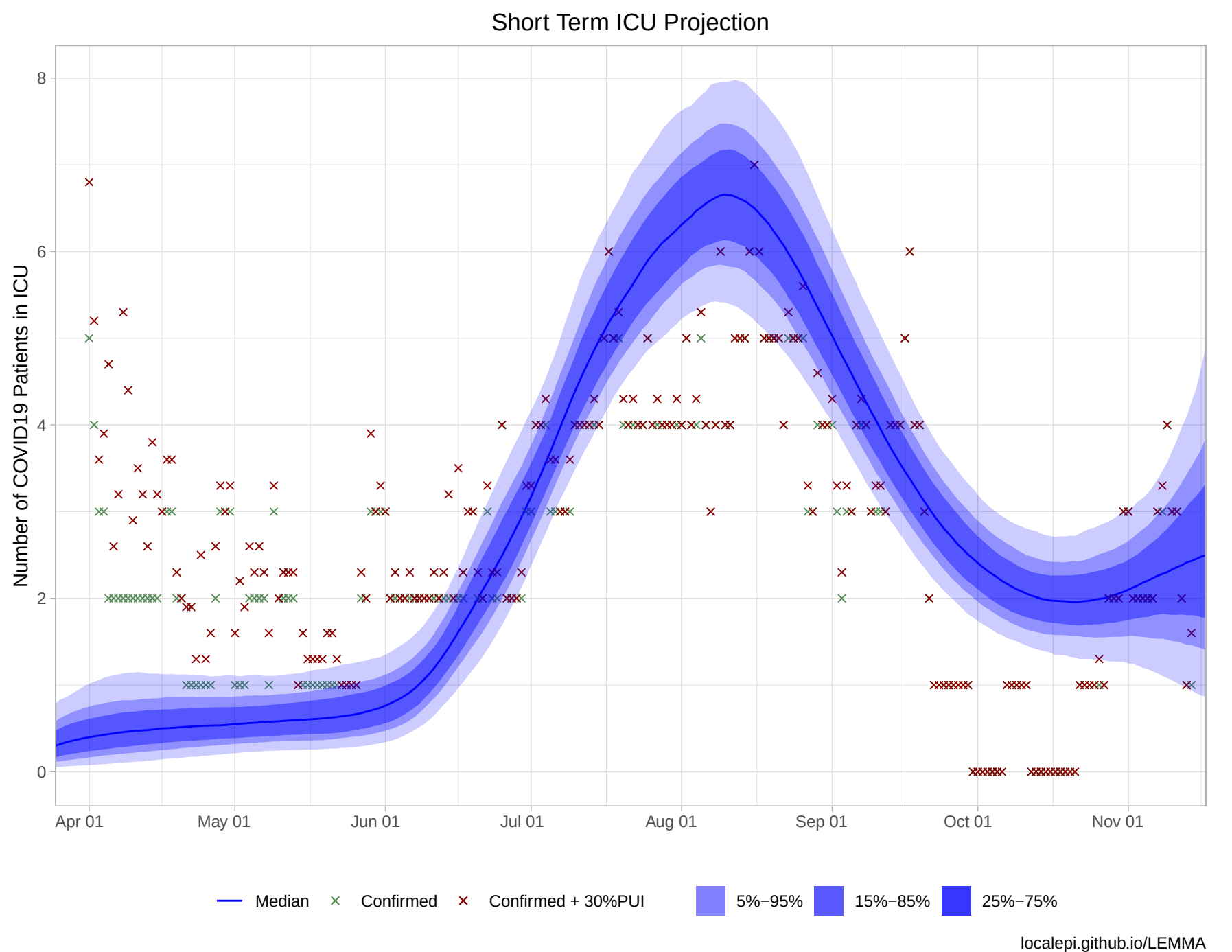
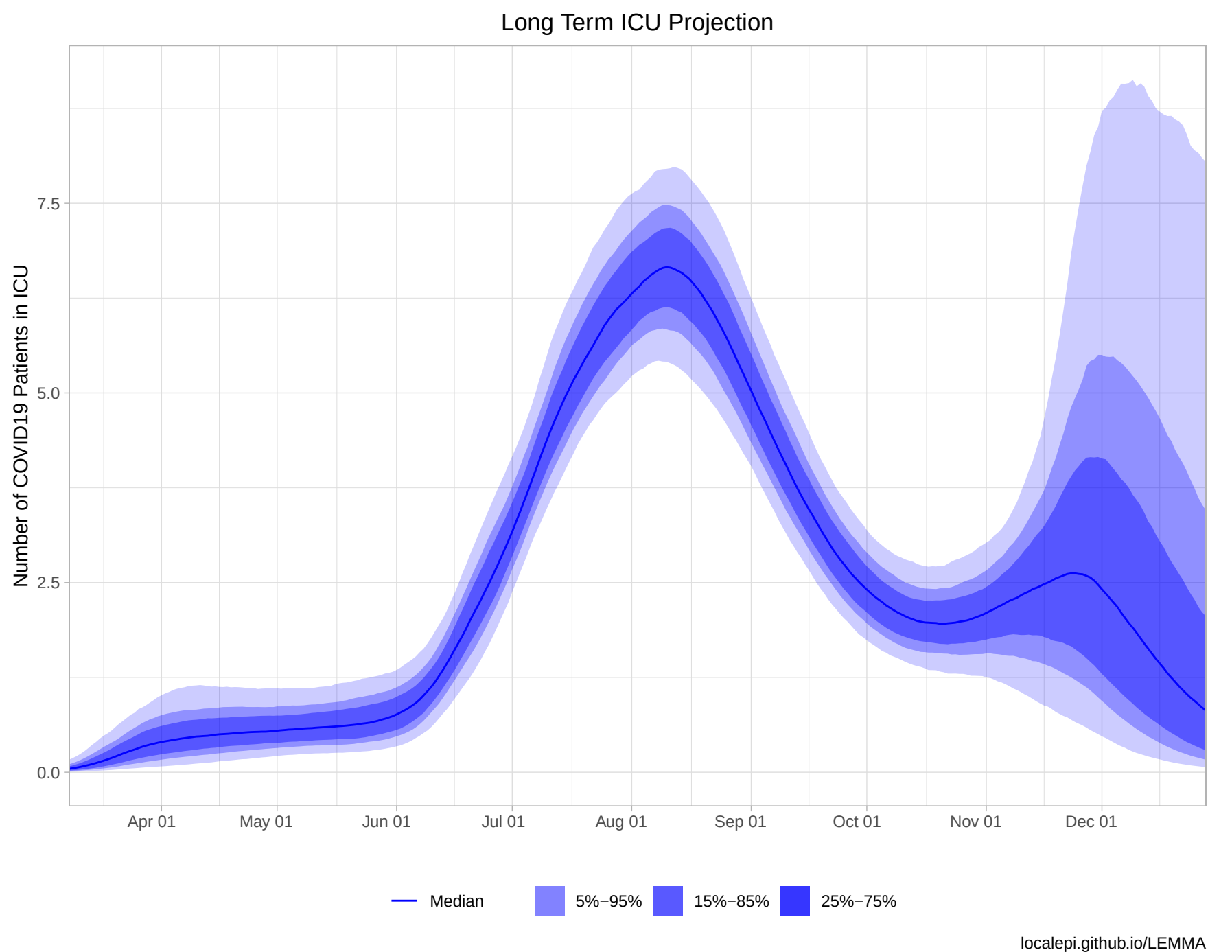
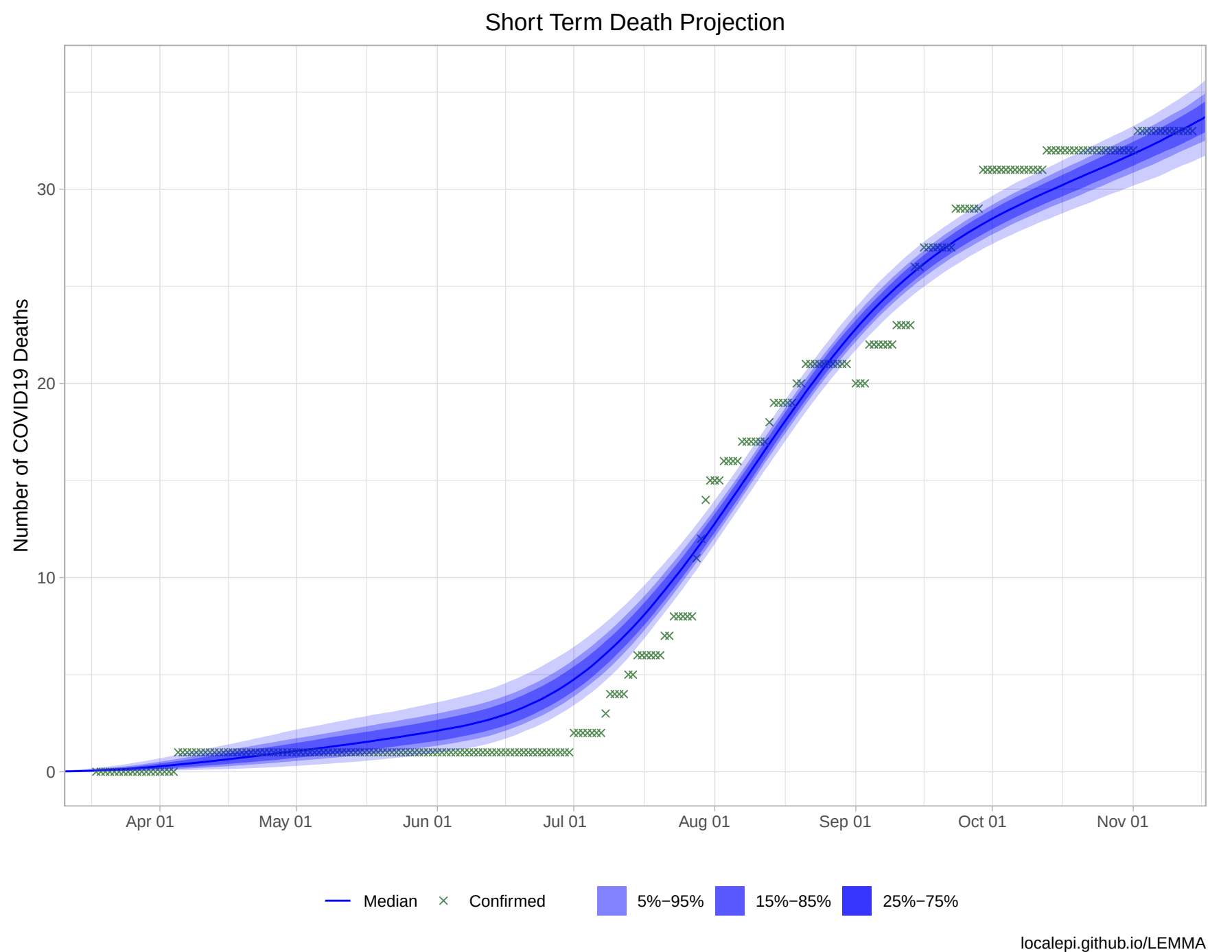
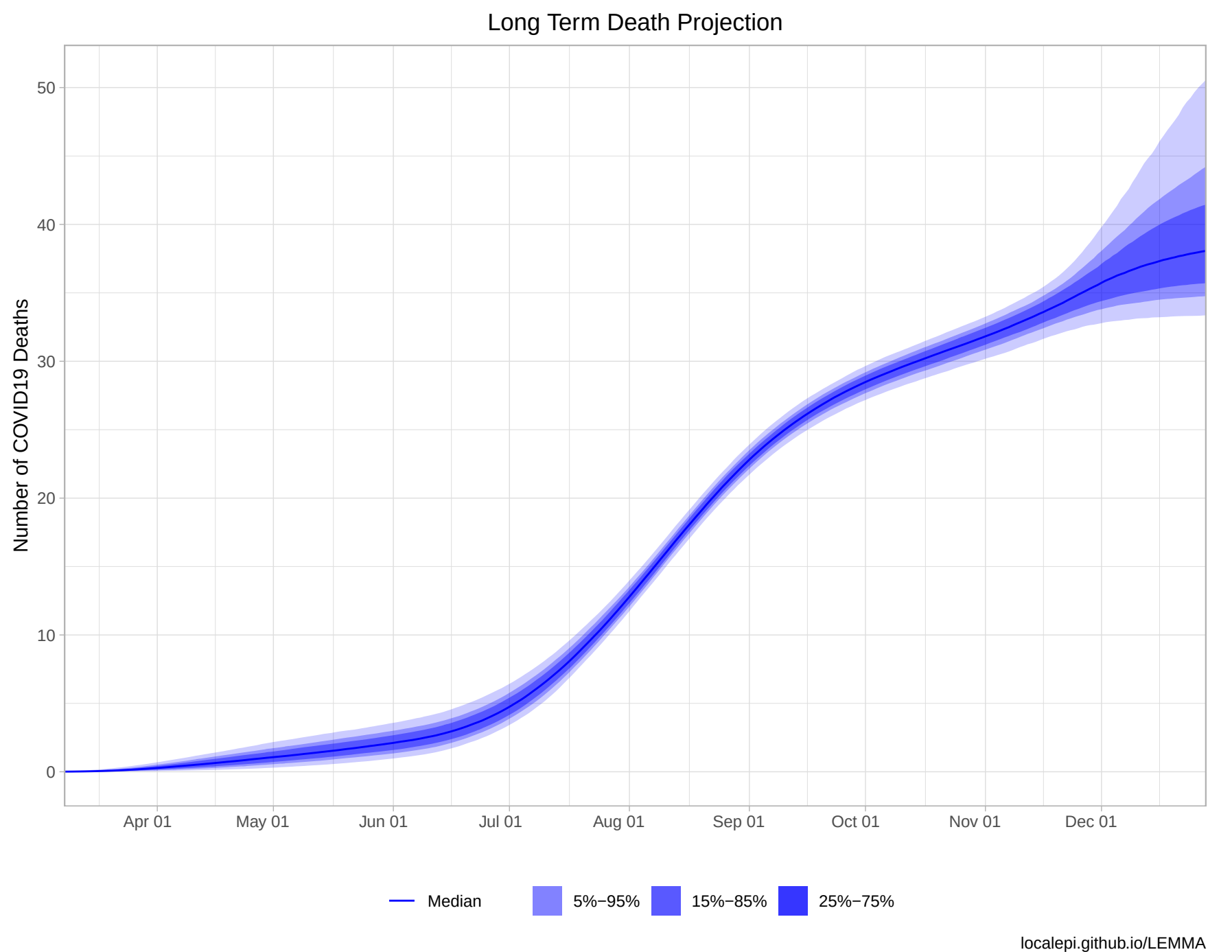

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
5
10
15
20
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

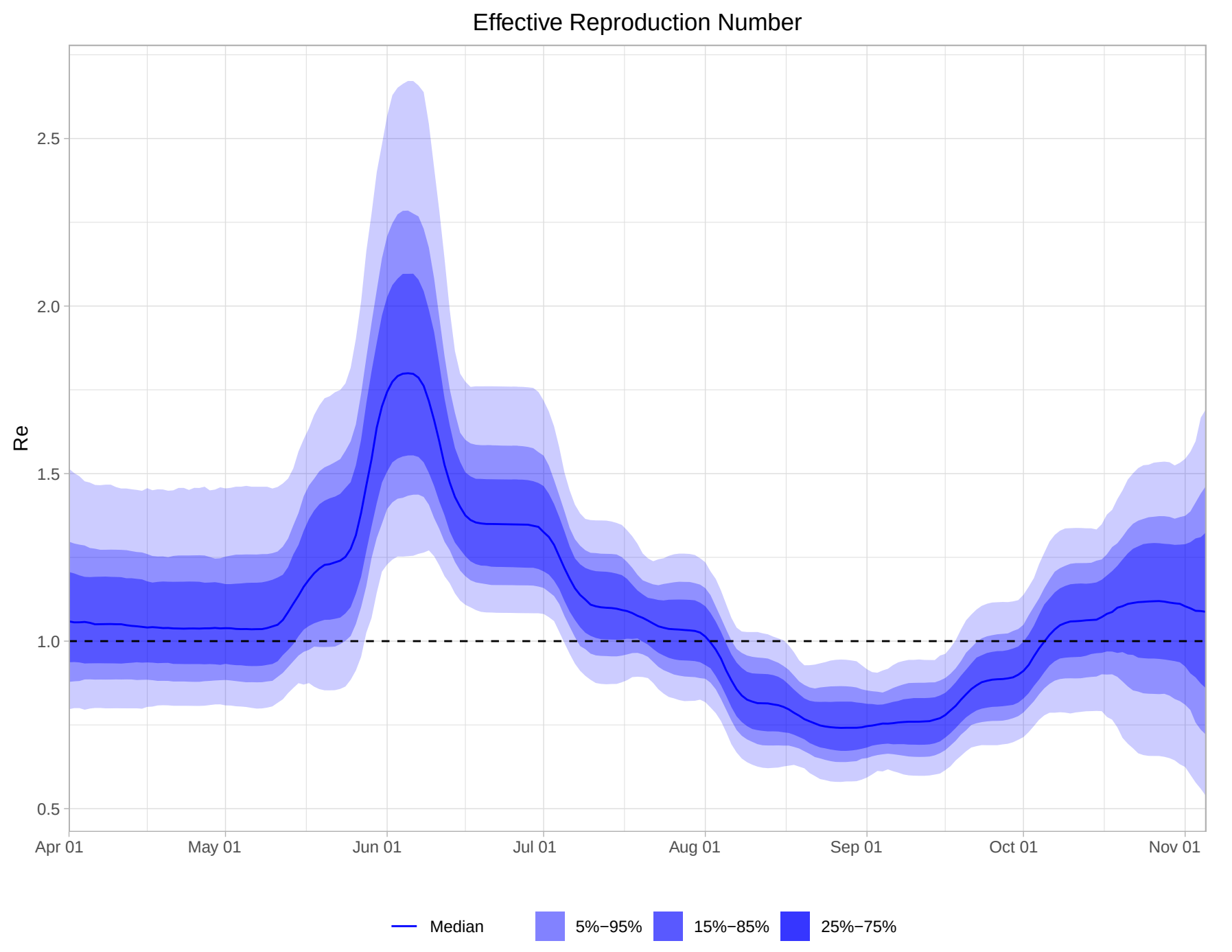

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
5
10
15
20
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


Short Term ICU Projection
Number of COVID19 Patients in ICU
0
2
4
6
8
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
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

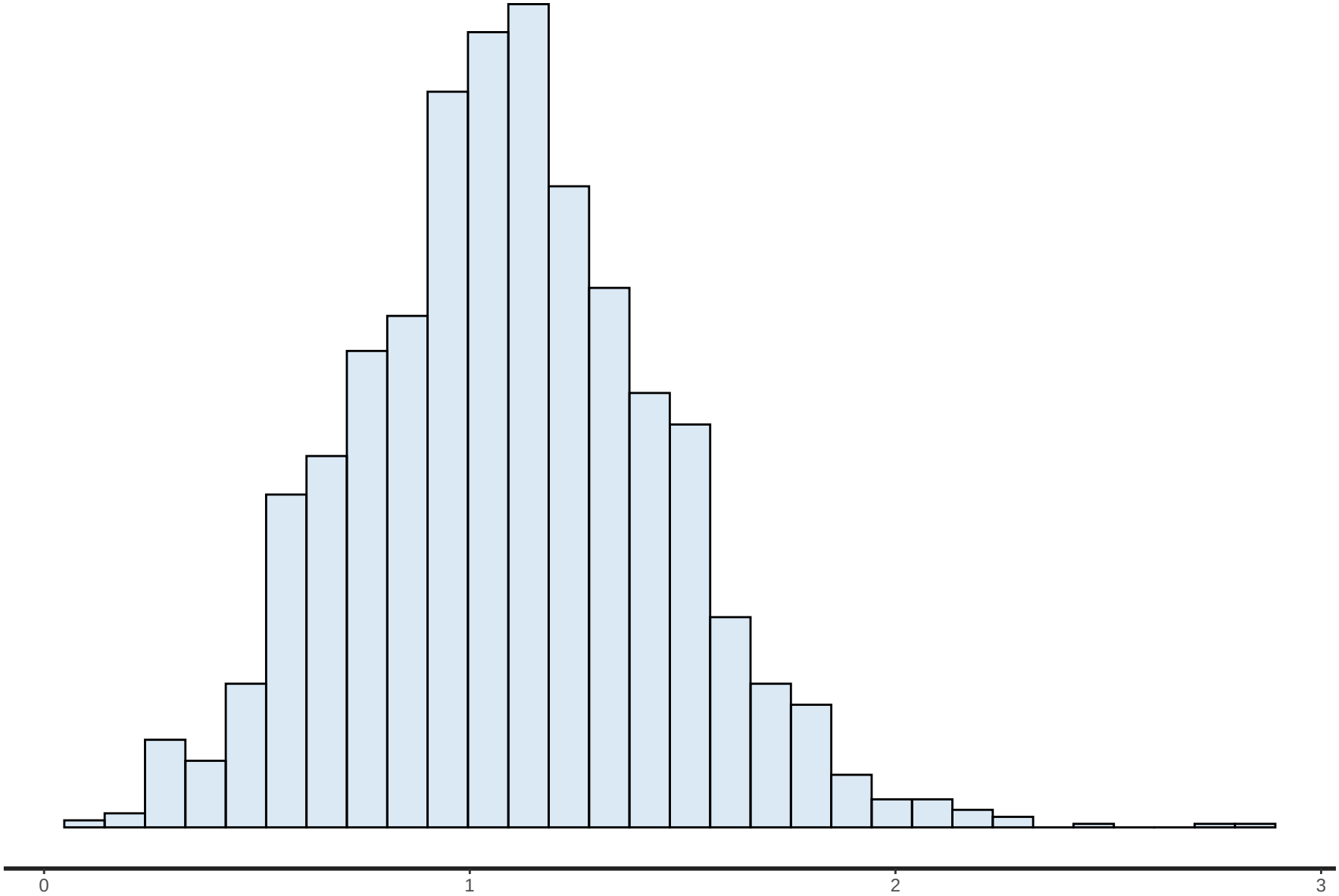

Short Term Death Projection
Number of COVID19 Deaths
0
10
20
30
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

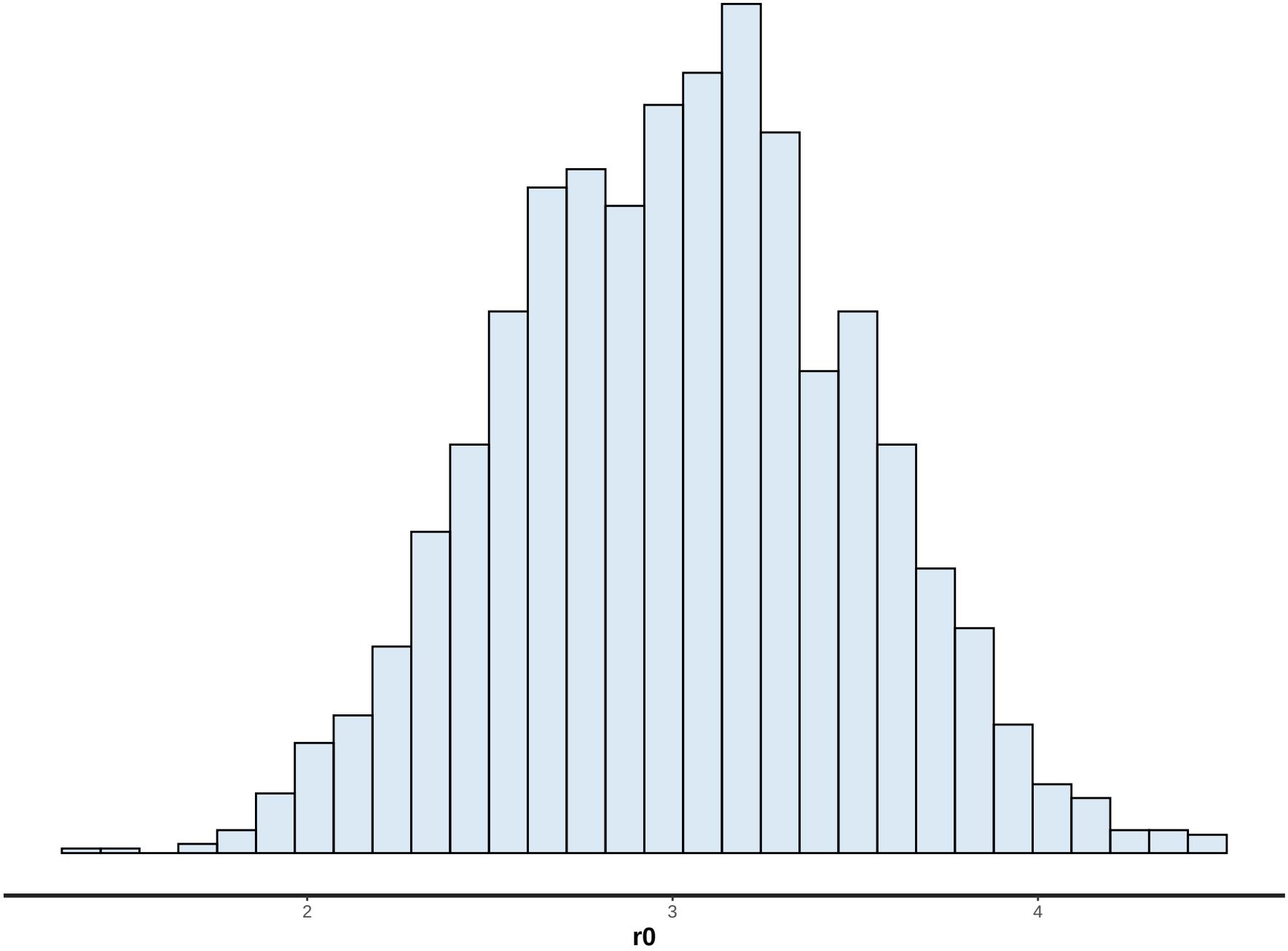

Long Term Death Projection
Number of COVID19 Deaths
0
10
20
30
40
50
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

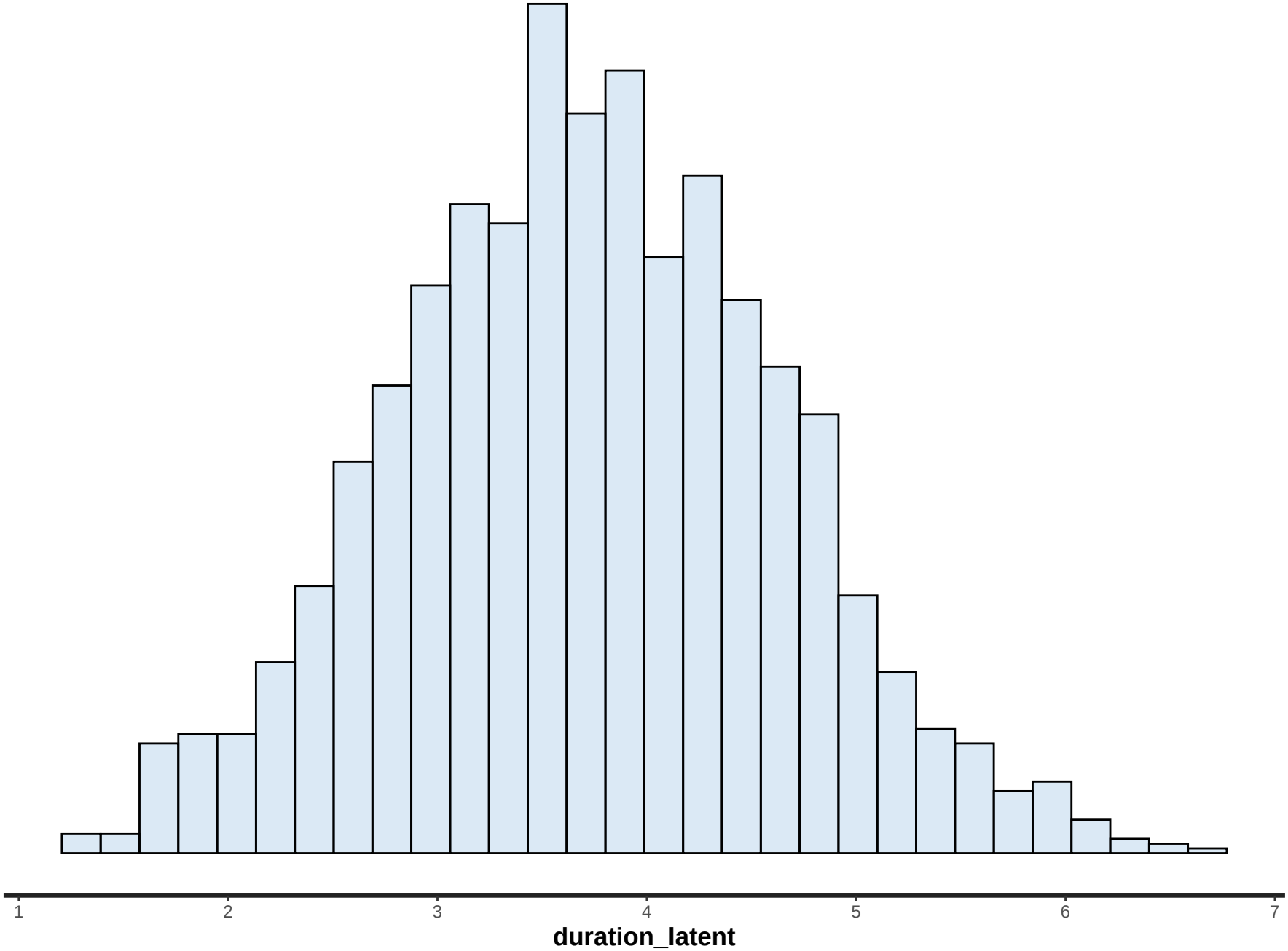

Effective Reproduction Number
Re
2.5
2.0
1.5
1.0
0.5
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Median
5%−95%
15%−85%
25%−75%

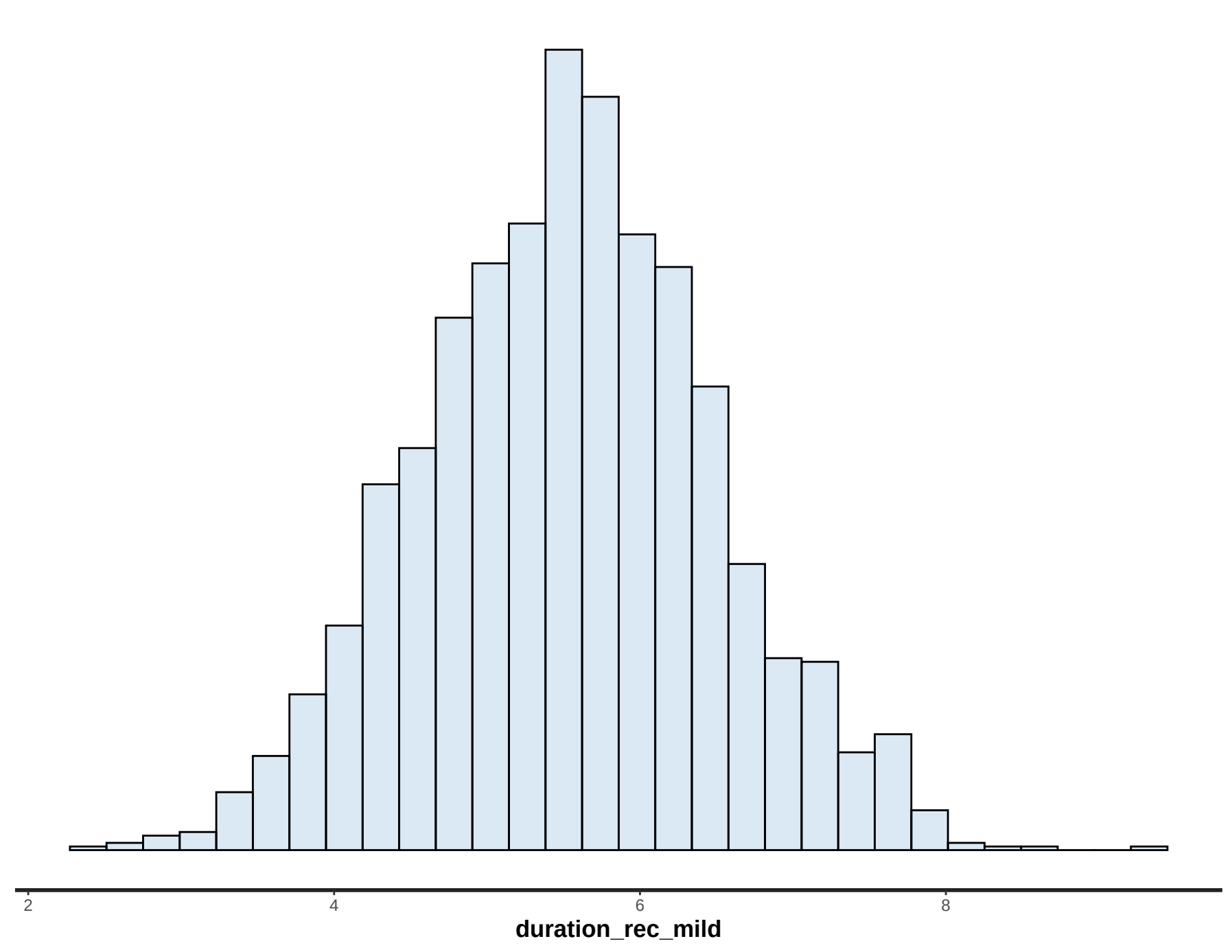
Rt as of 2020−11−05

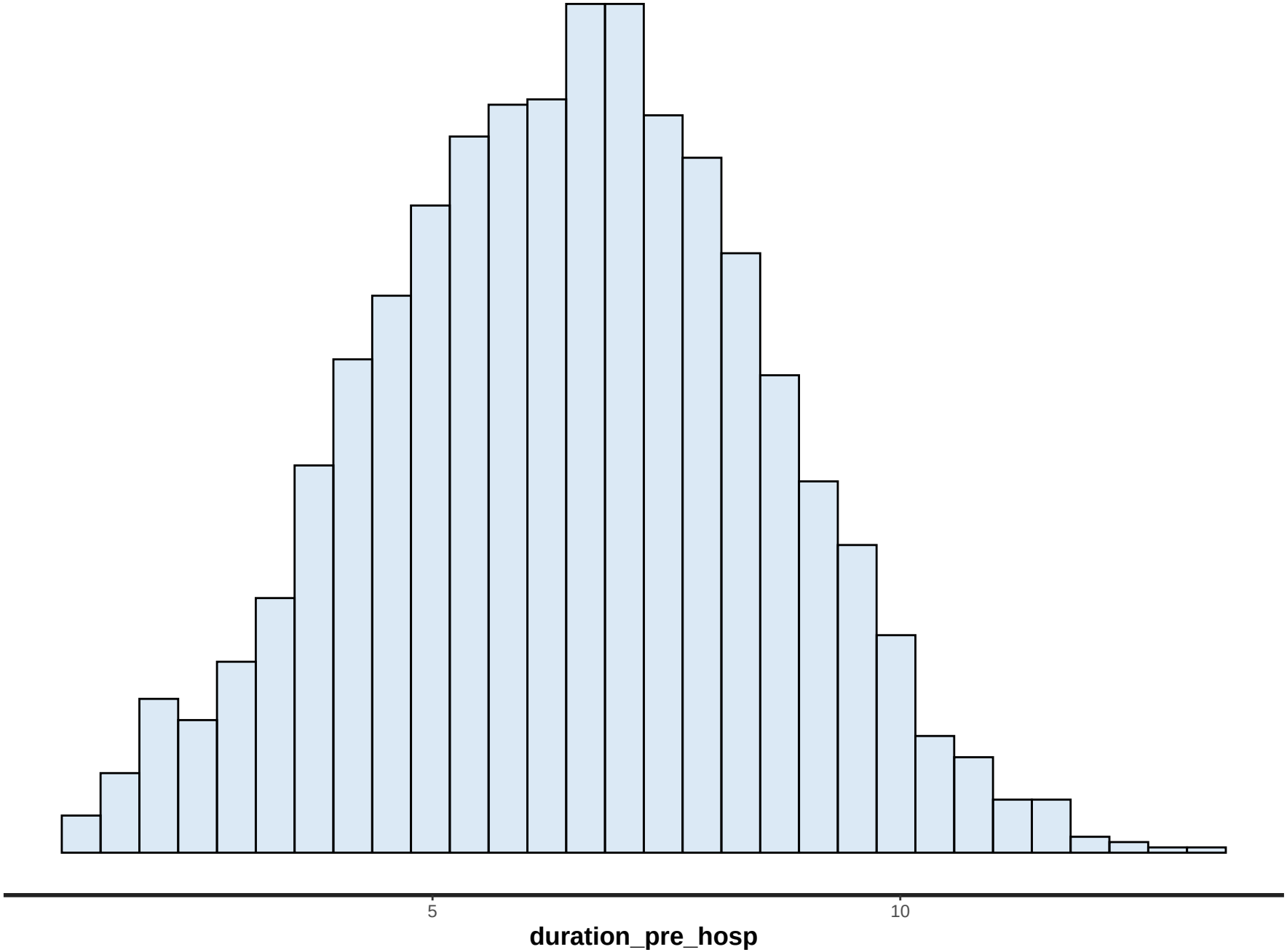
5%	10%	25%	50%	75%	90%	95%
0.54	0.63	0.86	1.09	1.32	1.55	1.69

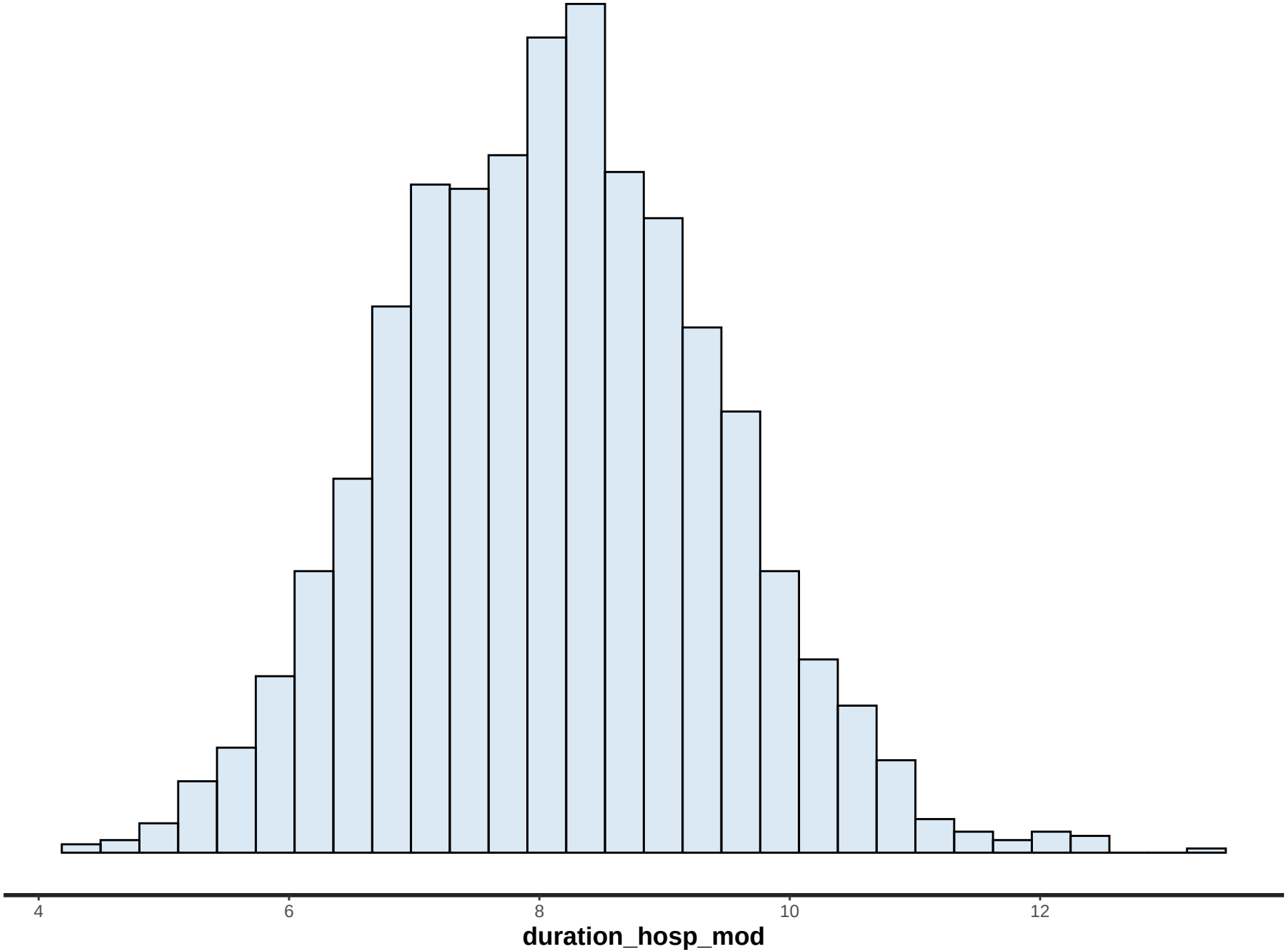


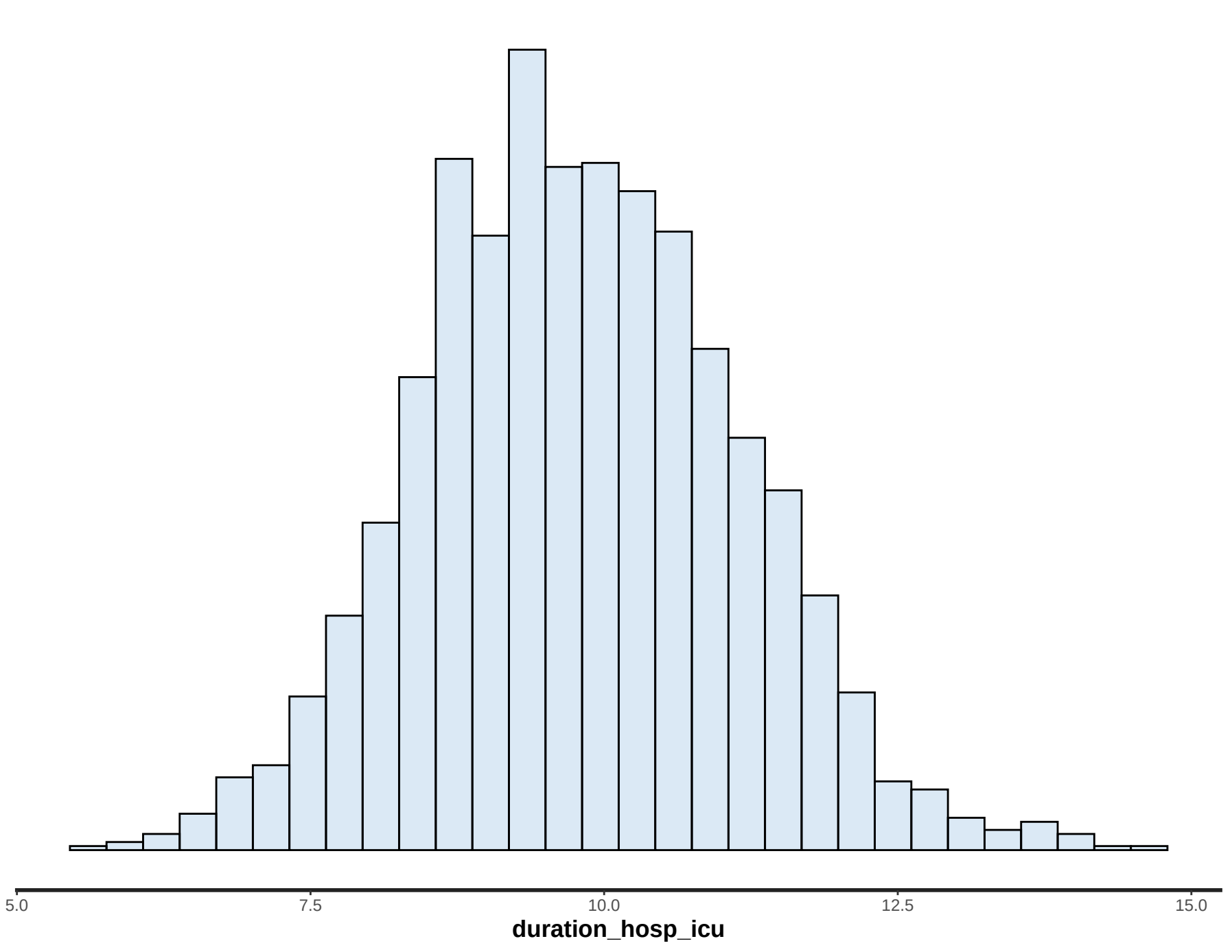

2
3
4
r0

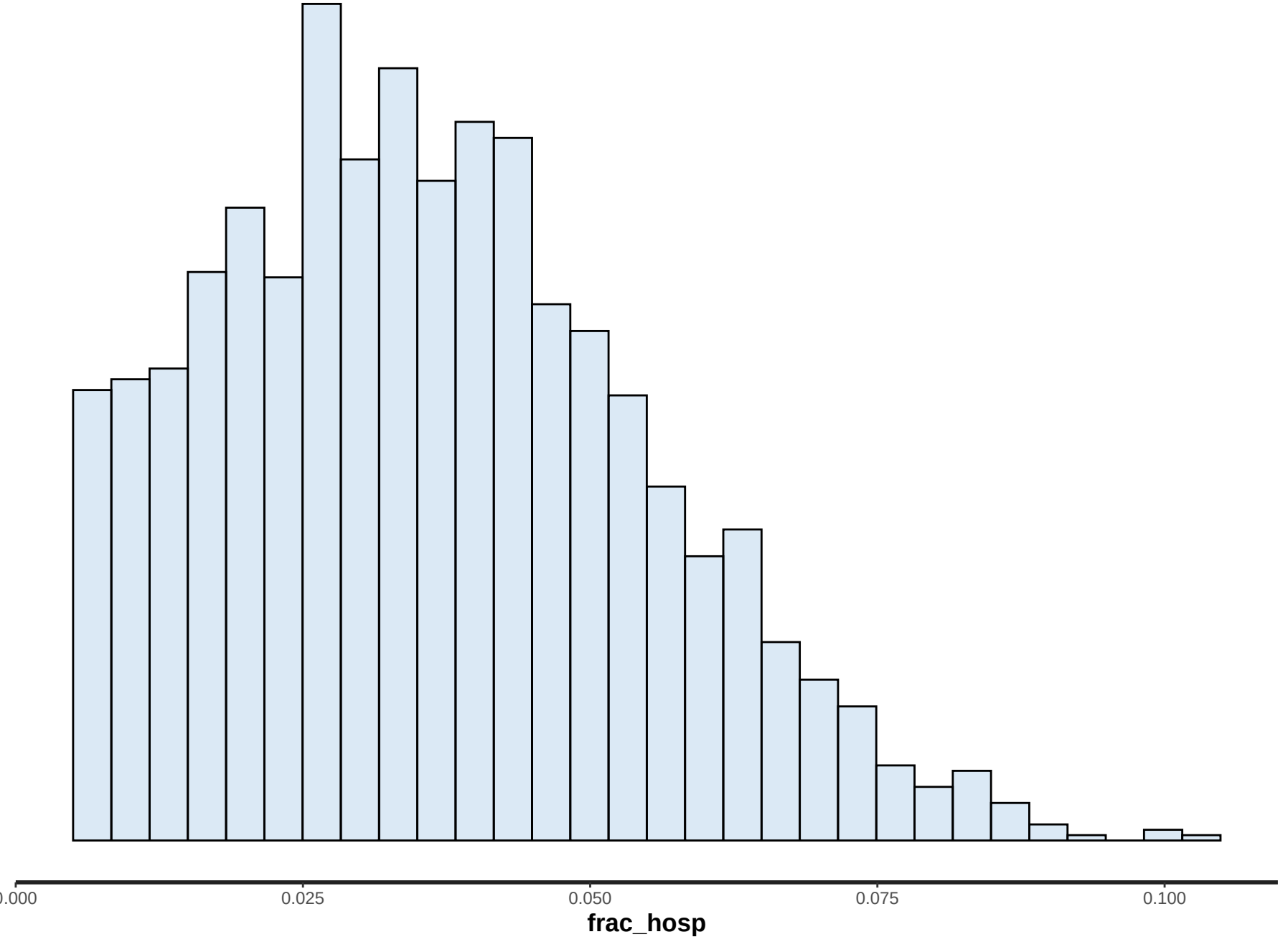

1
2
3
4
5
6
7
duration_latent

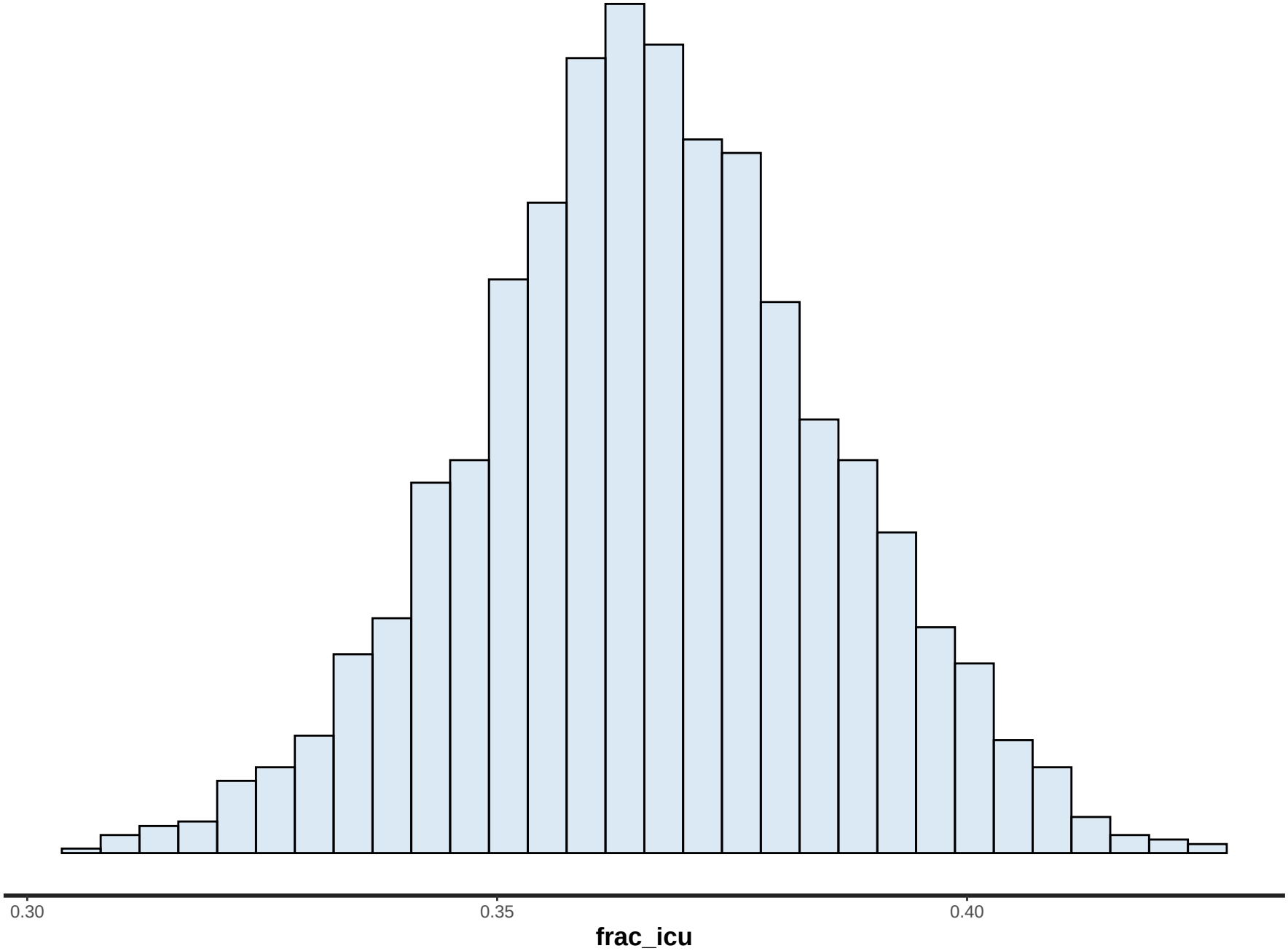

2
4
6
8
duration_rec_mild

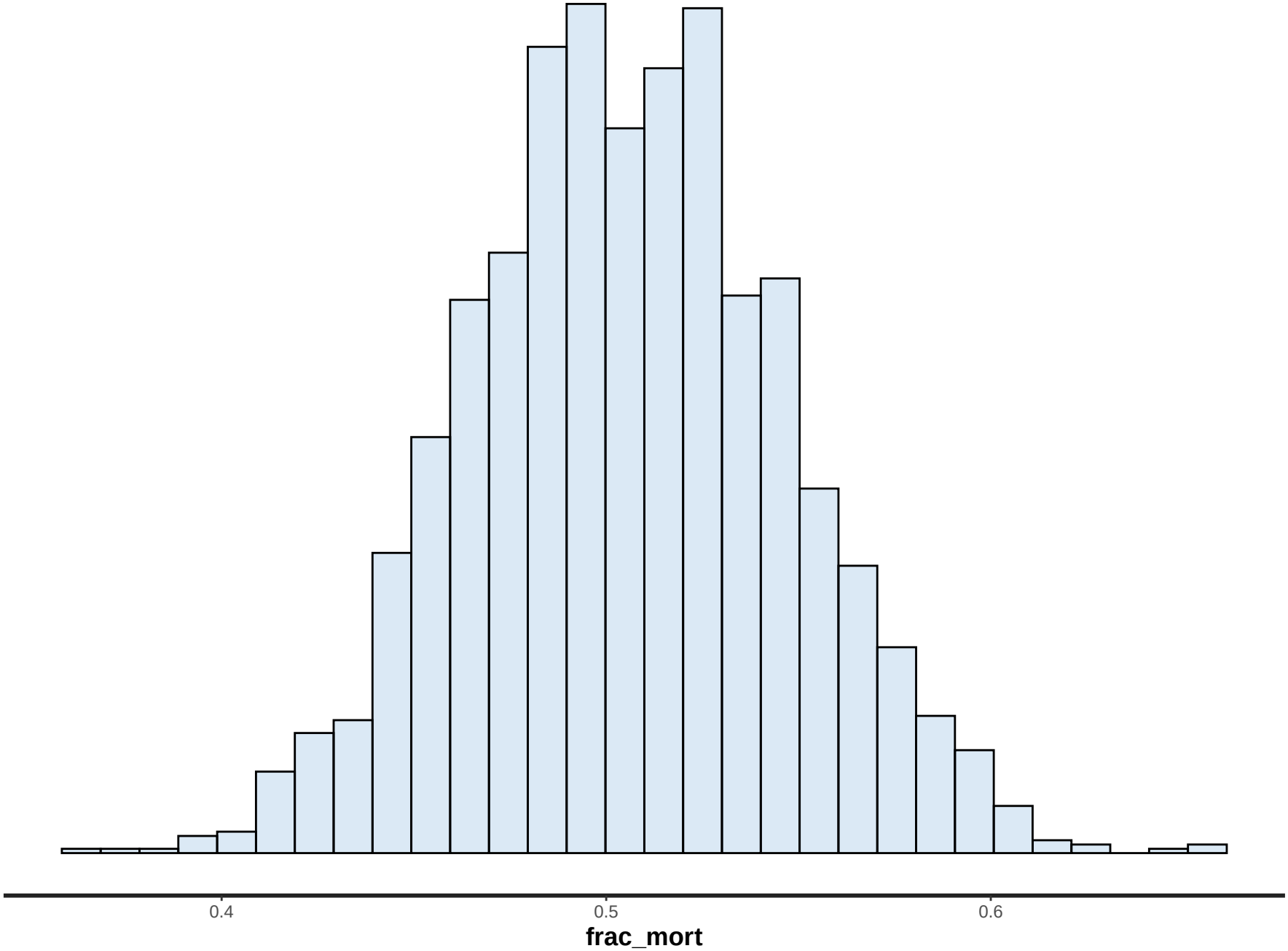

5
10
duration_pre_hosp

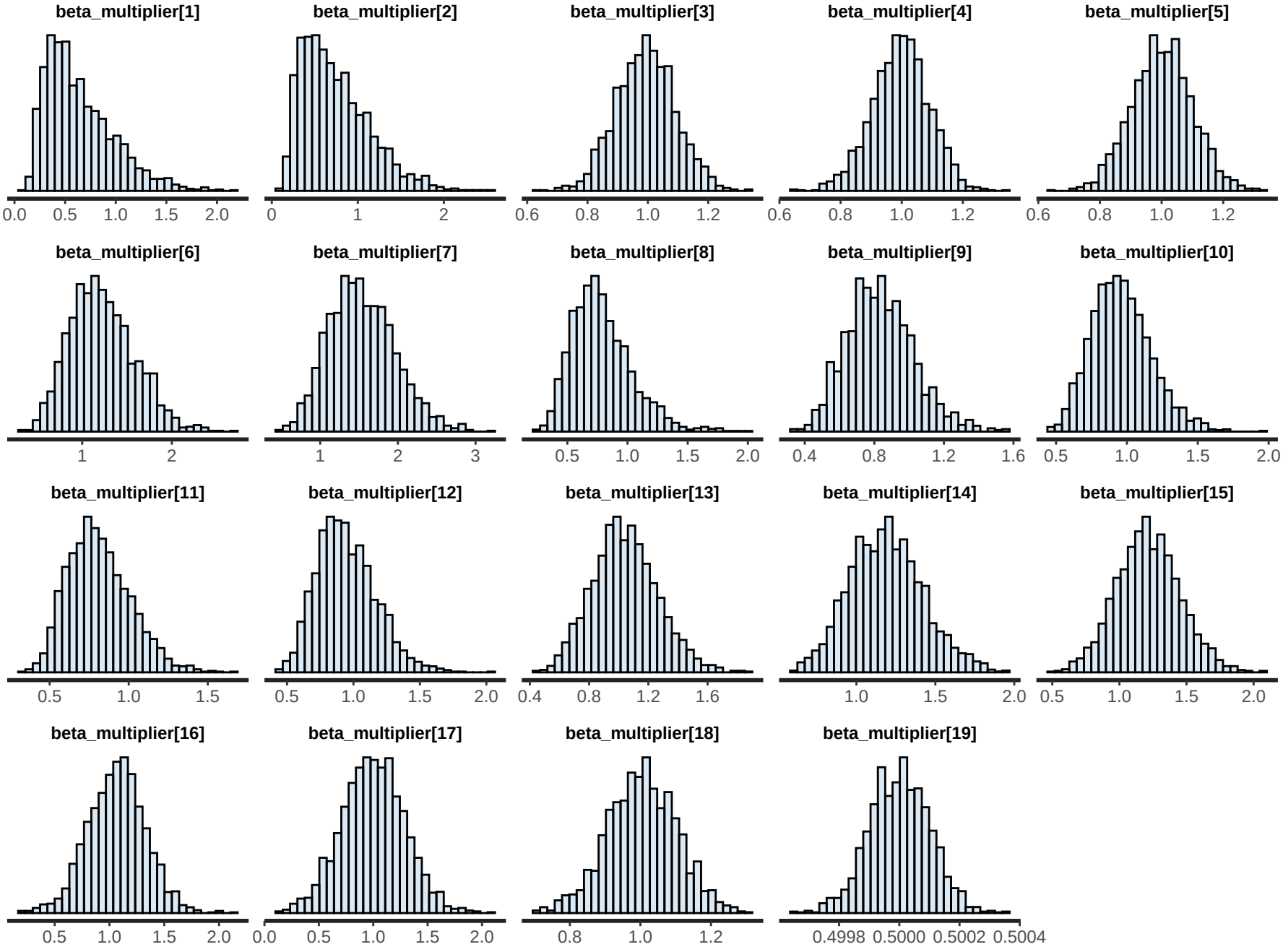

4
6
8
10
12
duration_hosp_mod


5.0
7.5
10.0
12.5
15.0
duration_hosp_icu


0.000
0.025
0.050
0.075
0.100
frac_hosp


0.30
0.35
0.40
frac_icu


0.4
0.5
0.6
frac_mort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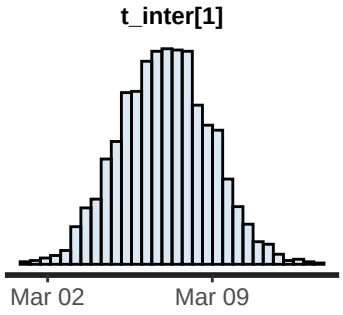
0.0 0.5 1.0 1.5 2.0
beta_multiplier[2]
0 1 2
beta_multiplier[3]
0.6 0.8 1.0 1.2
beta_multiplier[4]
0.6 0.8 1.0 1.2
beta_multiplier[5]
0.6 0.8 1.0 1.2
beta_multiplier[6]
1 2
beta_multiplier[7]
1 2 3
beta_multiplier[8]
0.5 1.0 1.5 2.0
beta_multiplier[9]
0.4 0.8 1.2 1.6
beta_multiplier[10]
0.5 1.0 1.5 2.0
beta_multiplier[11]
0.5 1.0 1.5
beta_multiplier[12]
0.5 1.0 1.5 2.0
beta_multiplier[13]
0.4 0.8 1.2 1.6
beta_multiplier[14]
1.0 1.5 2.0
beta_multiplier[15]
0.5 1.0 1.5 2.0
beta_multiplier[16]
0.5 1.0 1.5 2.0
beta_multiplier[17]
0.0 0.5 1.0 1.5 2.0
beta_multiplier[18]
0.8 1.0 1.2
beta_multiplier[19]
0.4998 0.5000 0.5002 0.5004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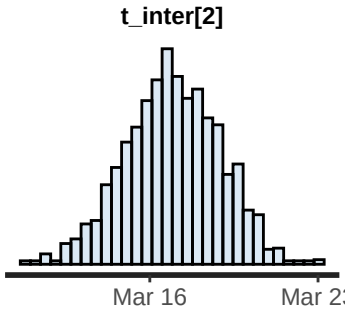
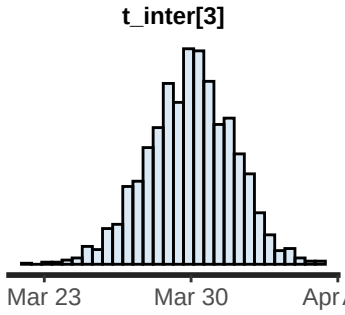
Mar 02
Mar 09


t_inter[2]
Mar 16
Mar 23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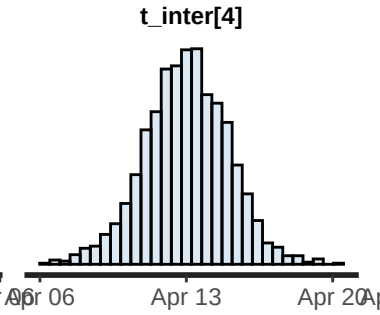
Mar 23
Mar 30
Apr 06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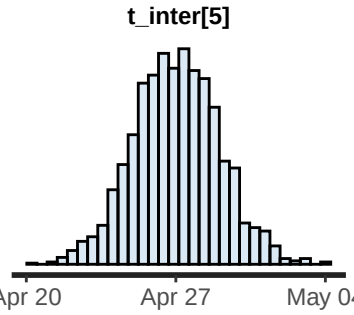
Apr 06
Apr 13
Apr 20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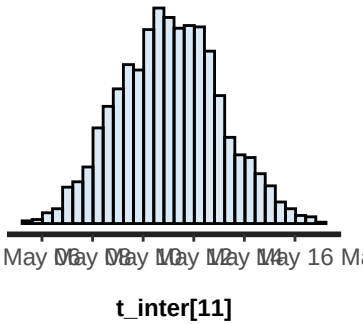
Apr 20
Apr 27
May 04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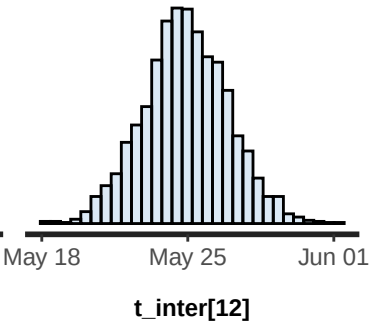
May 16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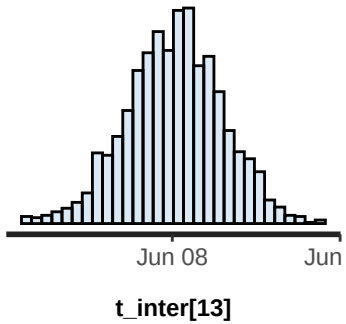
May 18
May 25
Jun 01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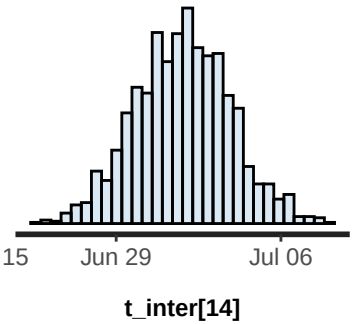
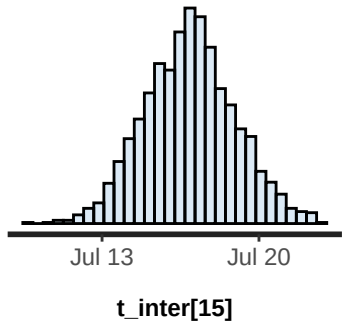
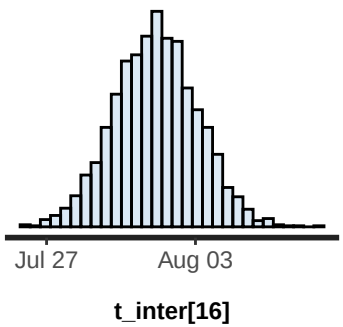
Jun 08
Jun 15


t_inter[9]
Jun 29
Jul 06


t_inter[10]
Jul 13
Jul 20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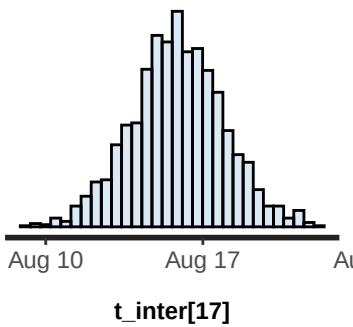
Jul 27
Aug 03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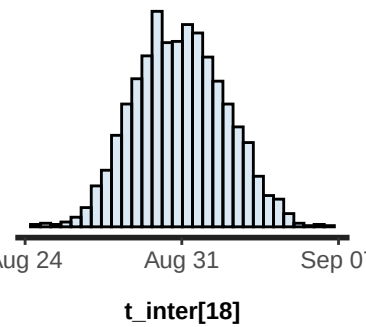
Aug 10
Aug 17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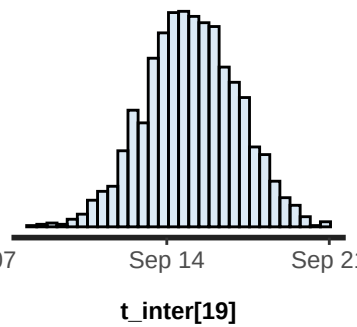
Aug 24
Aug 31
Sep 07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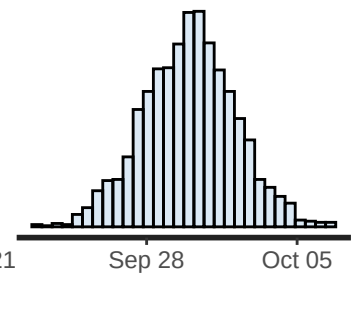
Sep 14
Sep 21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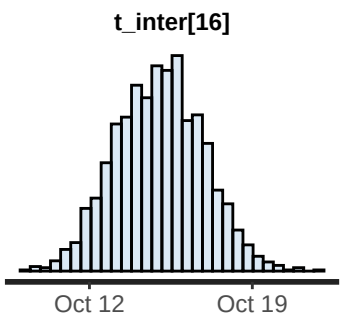
Sep 28
Oct 05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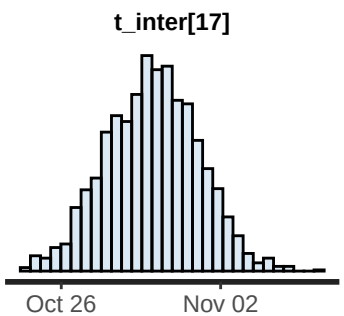
Oct 19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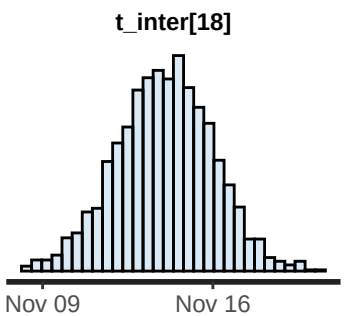
Nov 02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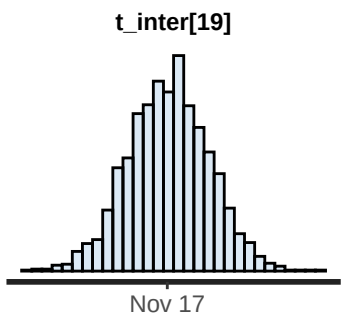
Nov 09
Nov 16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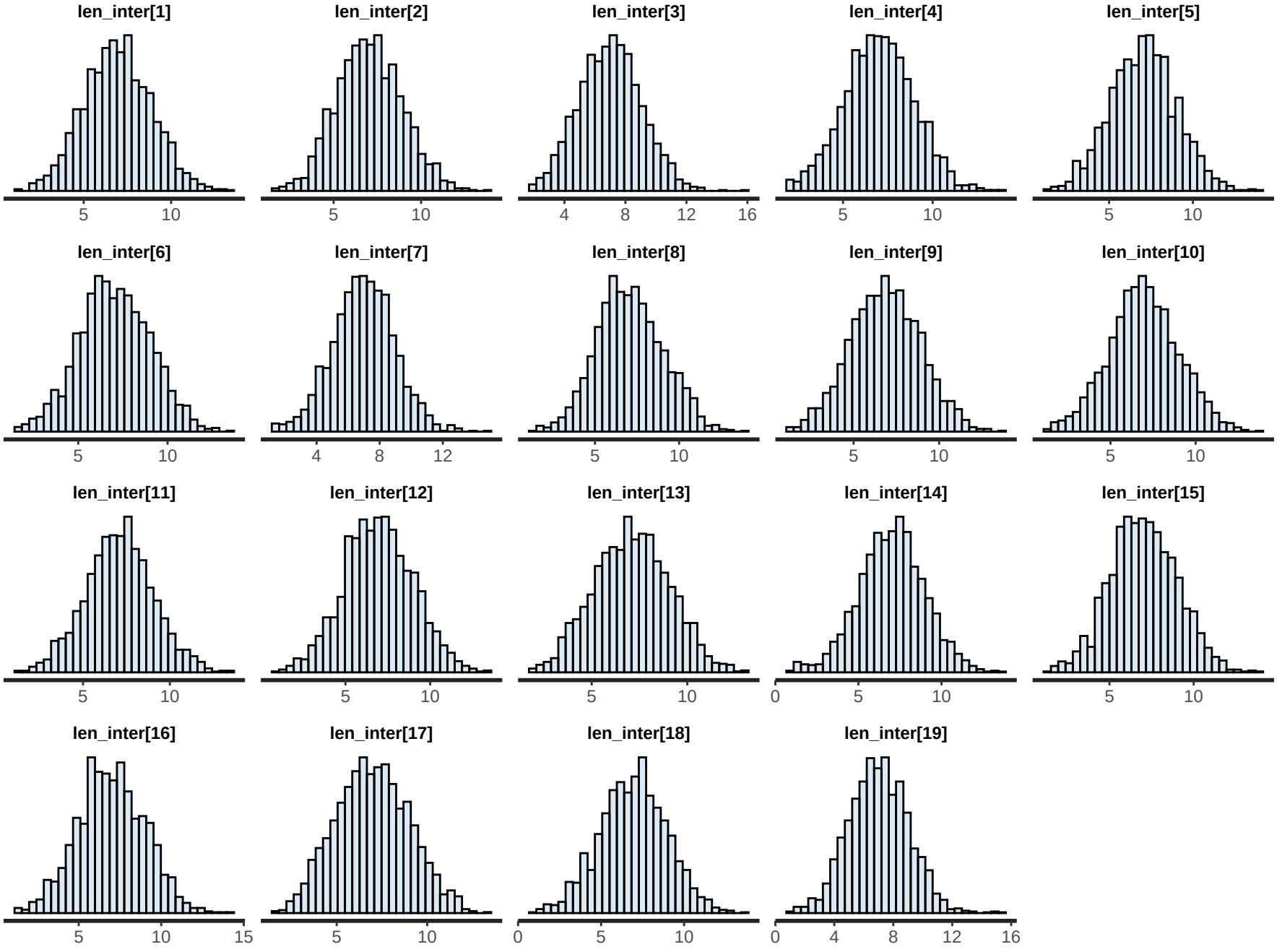
Nov 17


len_inter[1]
5
10
len_inter[2]
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10
len_inter[3]
4
8
12
16
len_inter[4]
5
10
len_inter[5]
5
10
len_inter[6]
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len_inter[7]
4
8
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len_inter[8]
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len_inter[12]
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len_inter[13]
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len_inter[14]
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len_inter[15]
5
10
len_inter[16]
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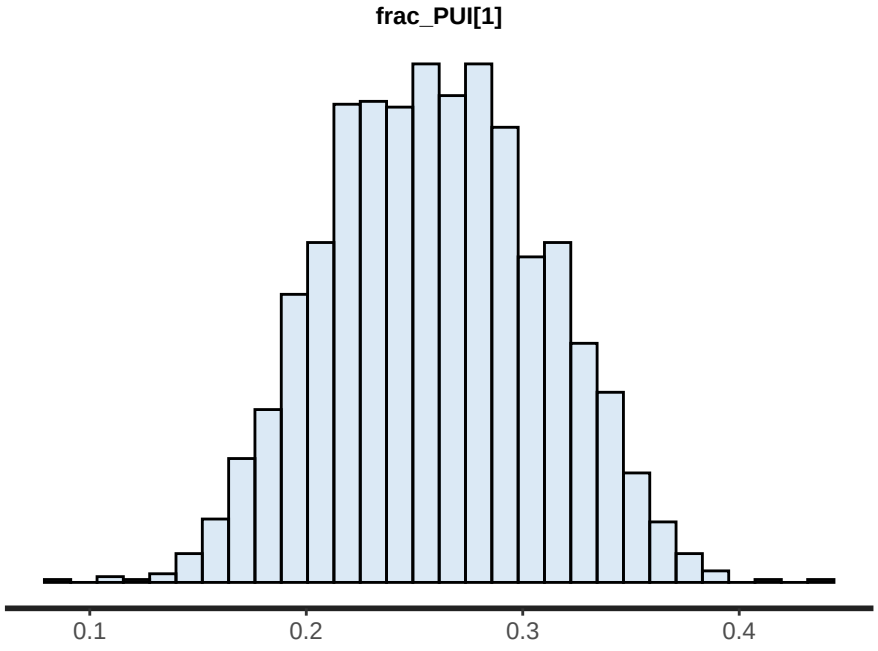
5
10
len_inter[18]
0
5
10
len_inter[19]
0
4
8
12
16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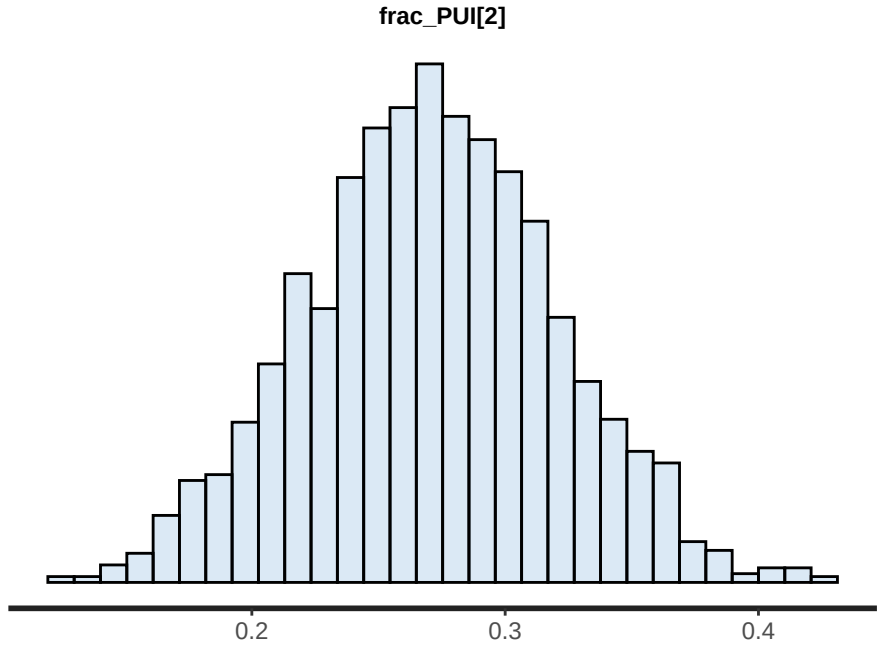
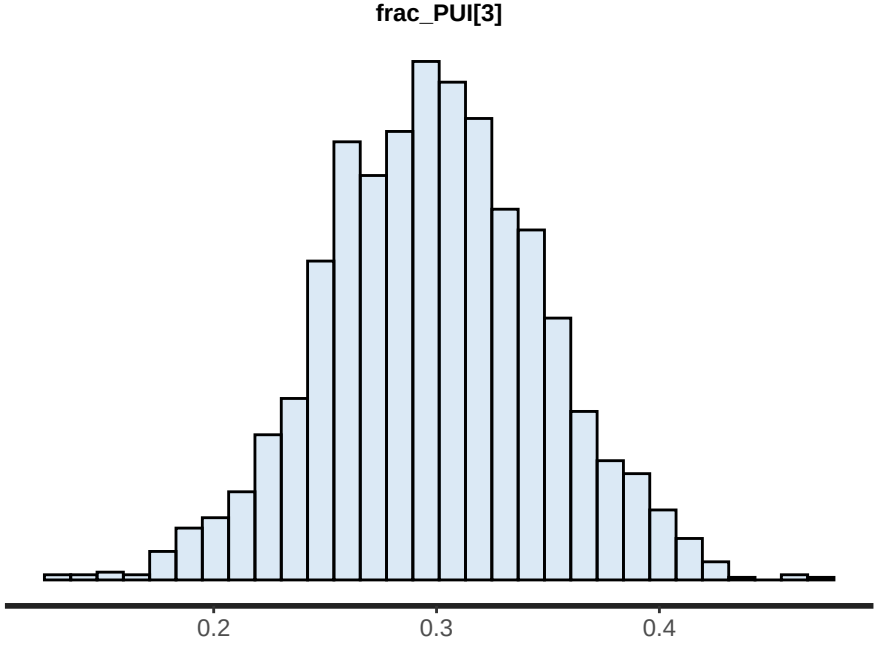
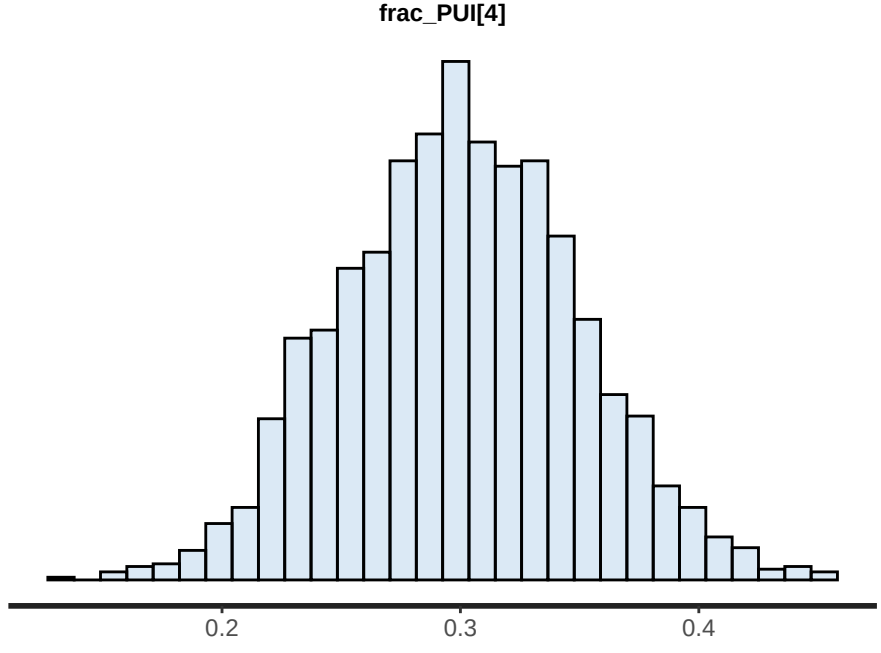
0.2
0.3
0.4


frac_PUI[2]
0.2
0.3
0.4


frac_PUI[3]
0.2
0.3
0.4


frac_PUI[4]
0.2
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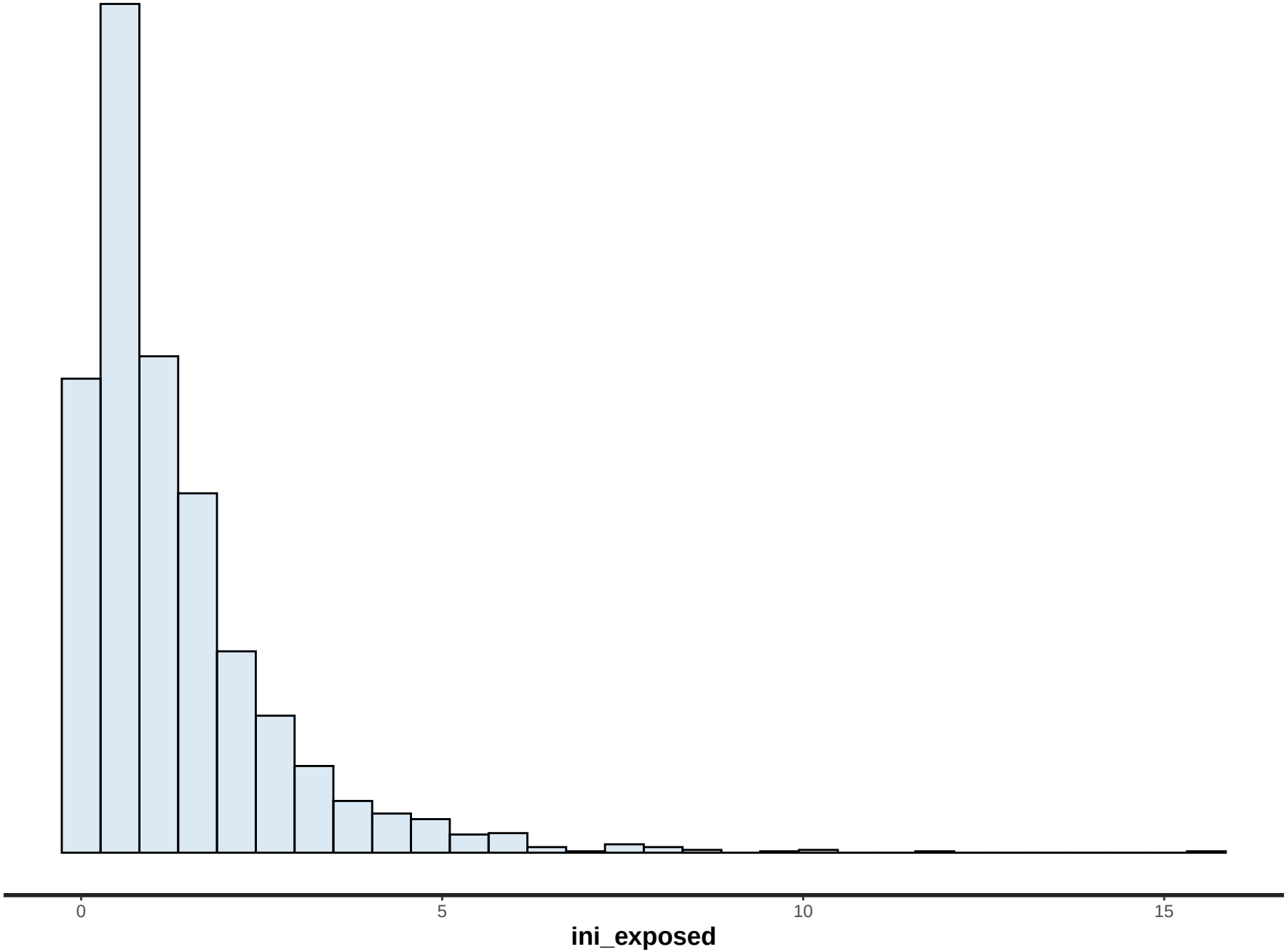
0.4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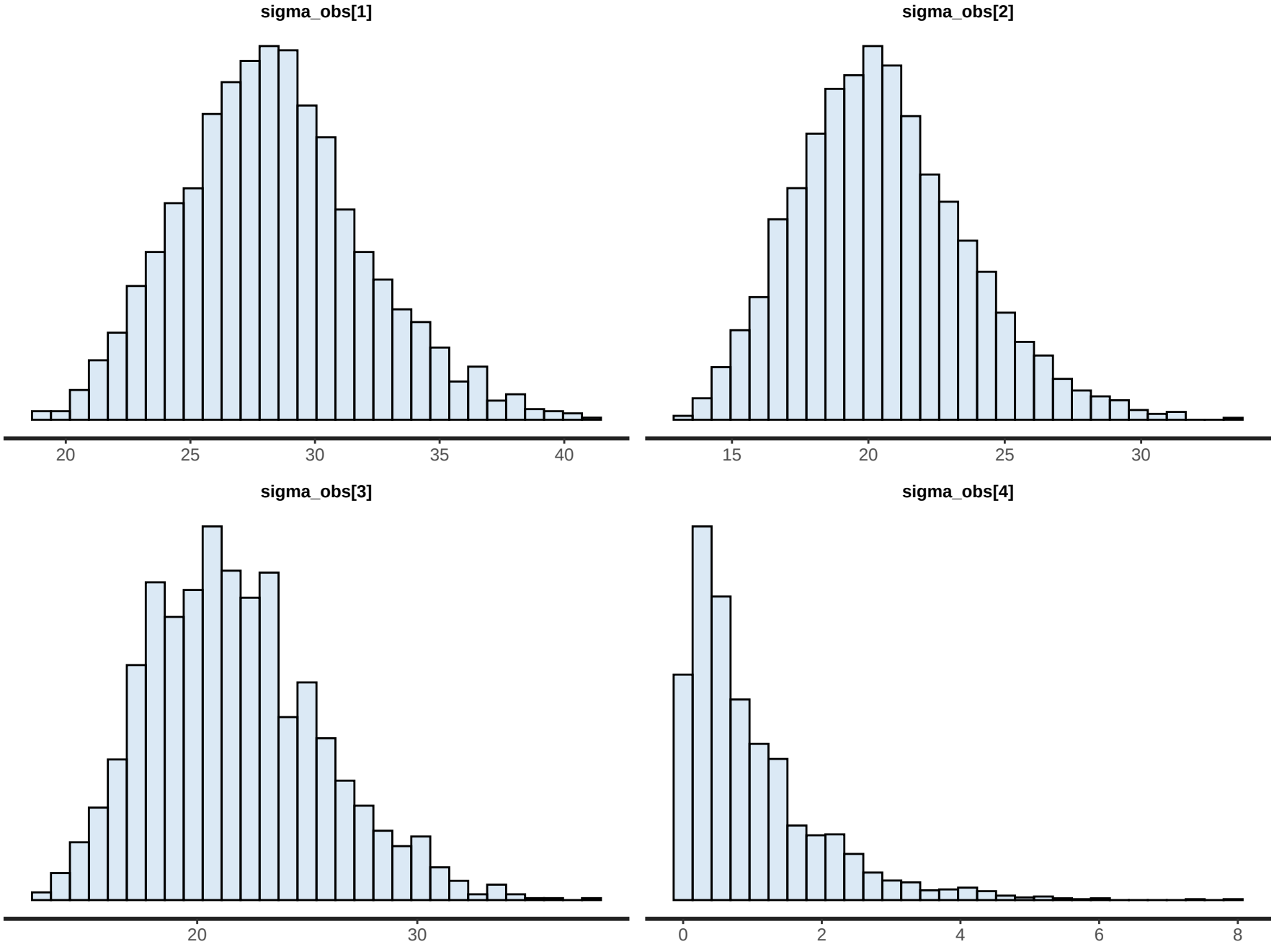
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