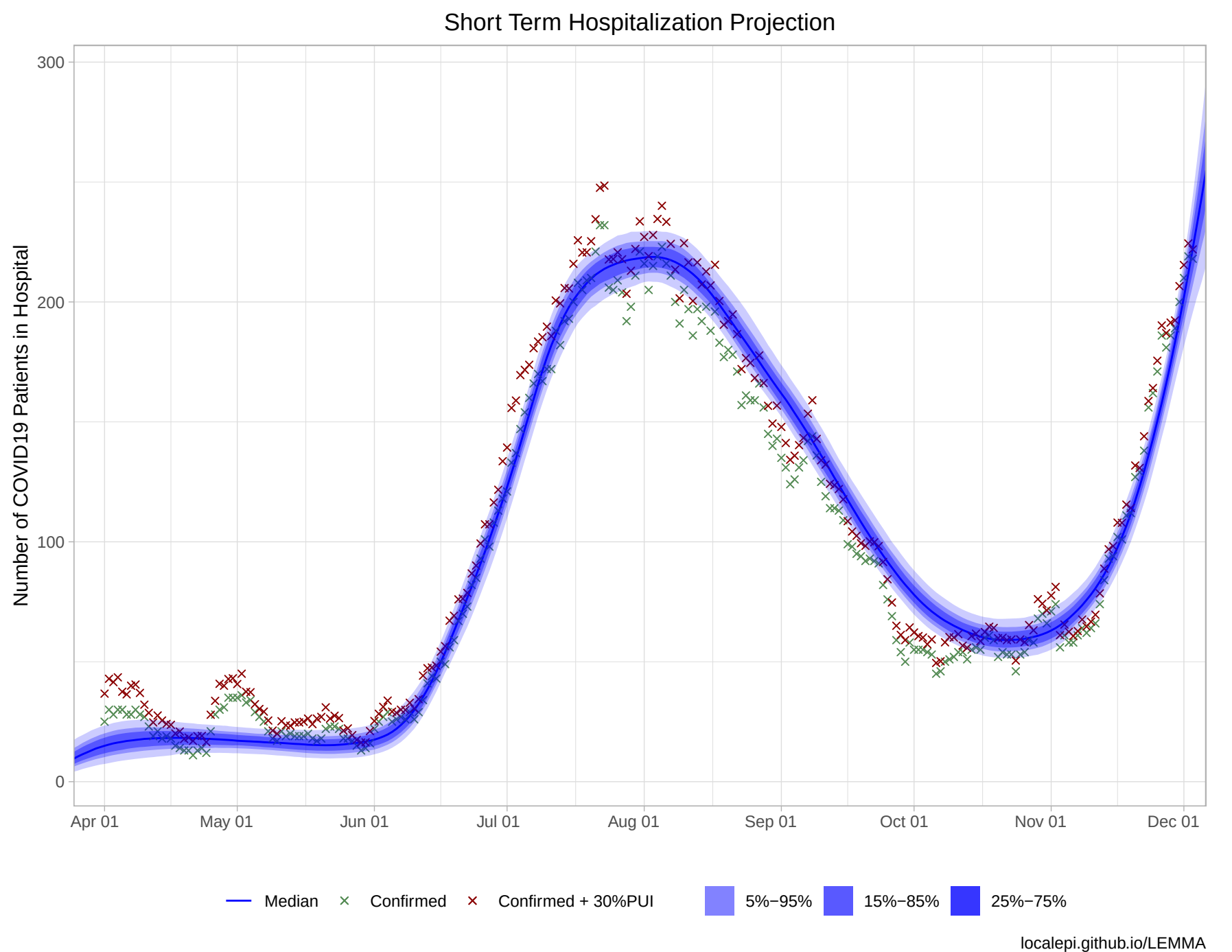
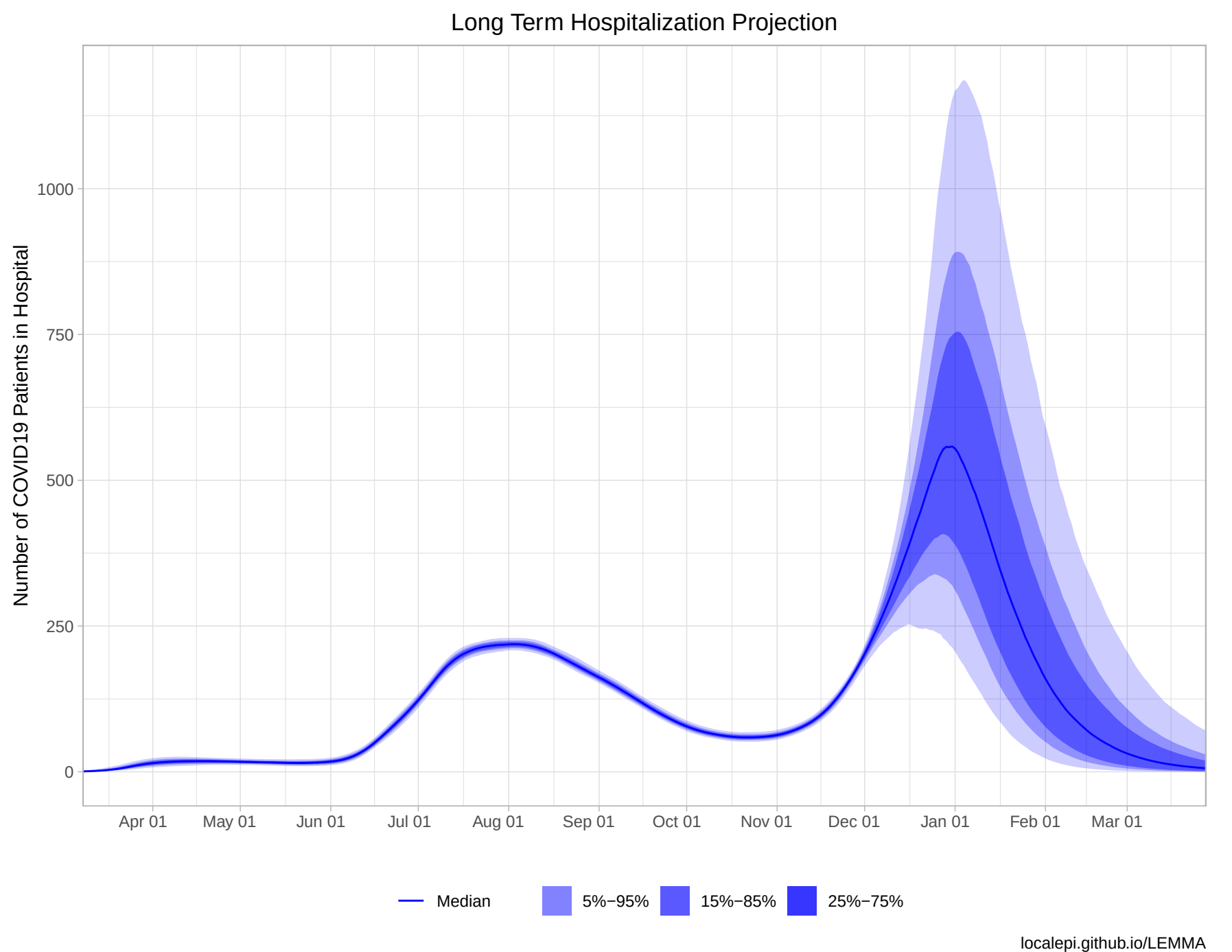
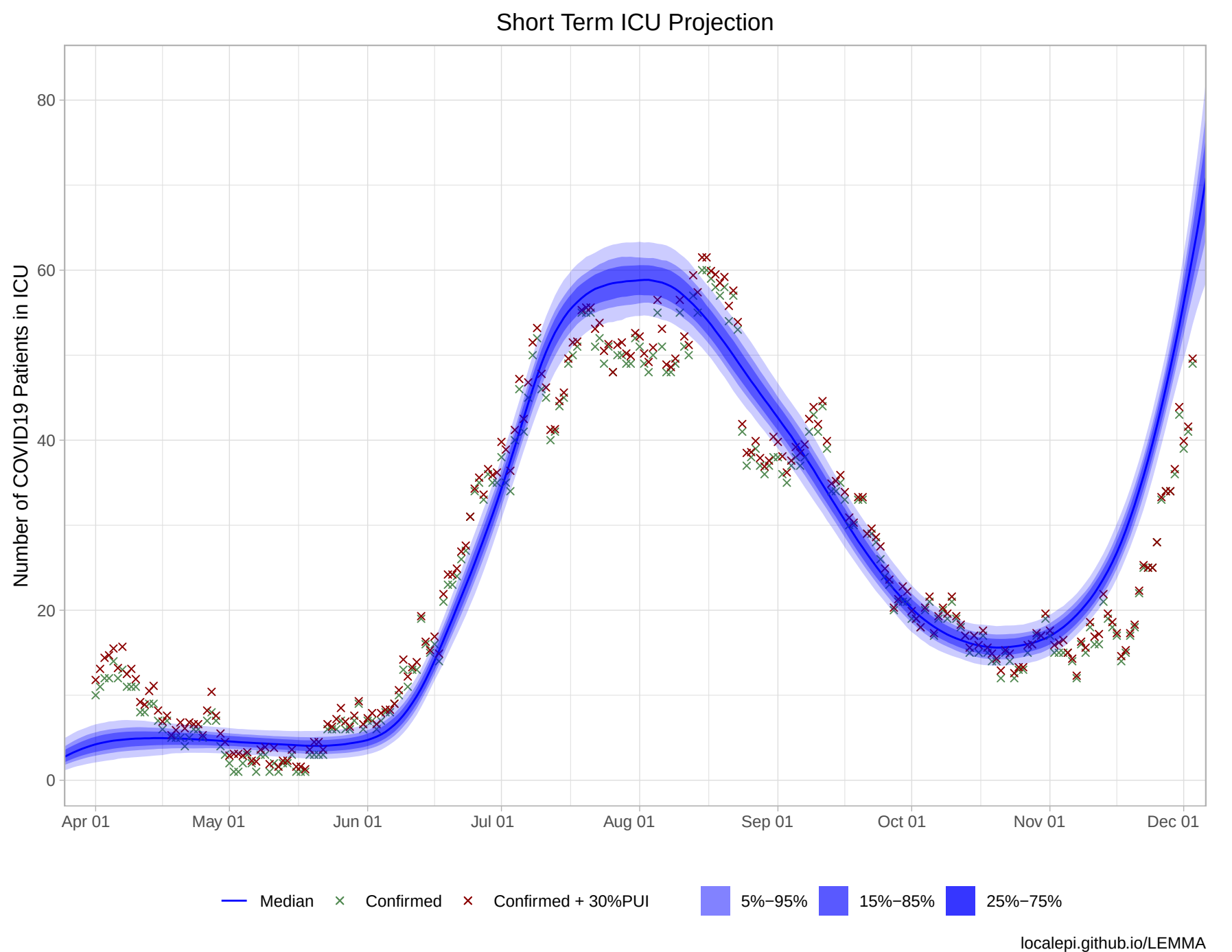
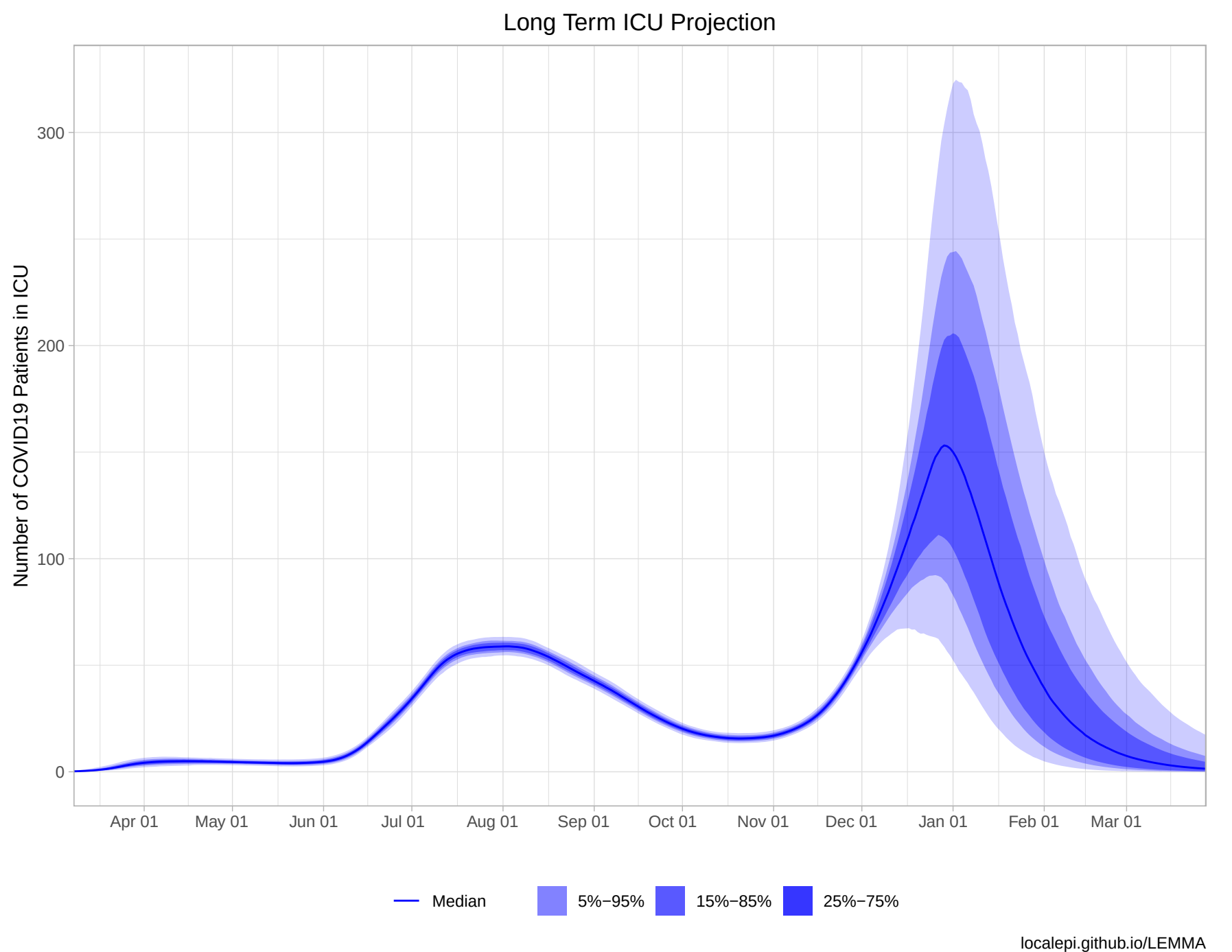
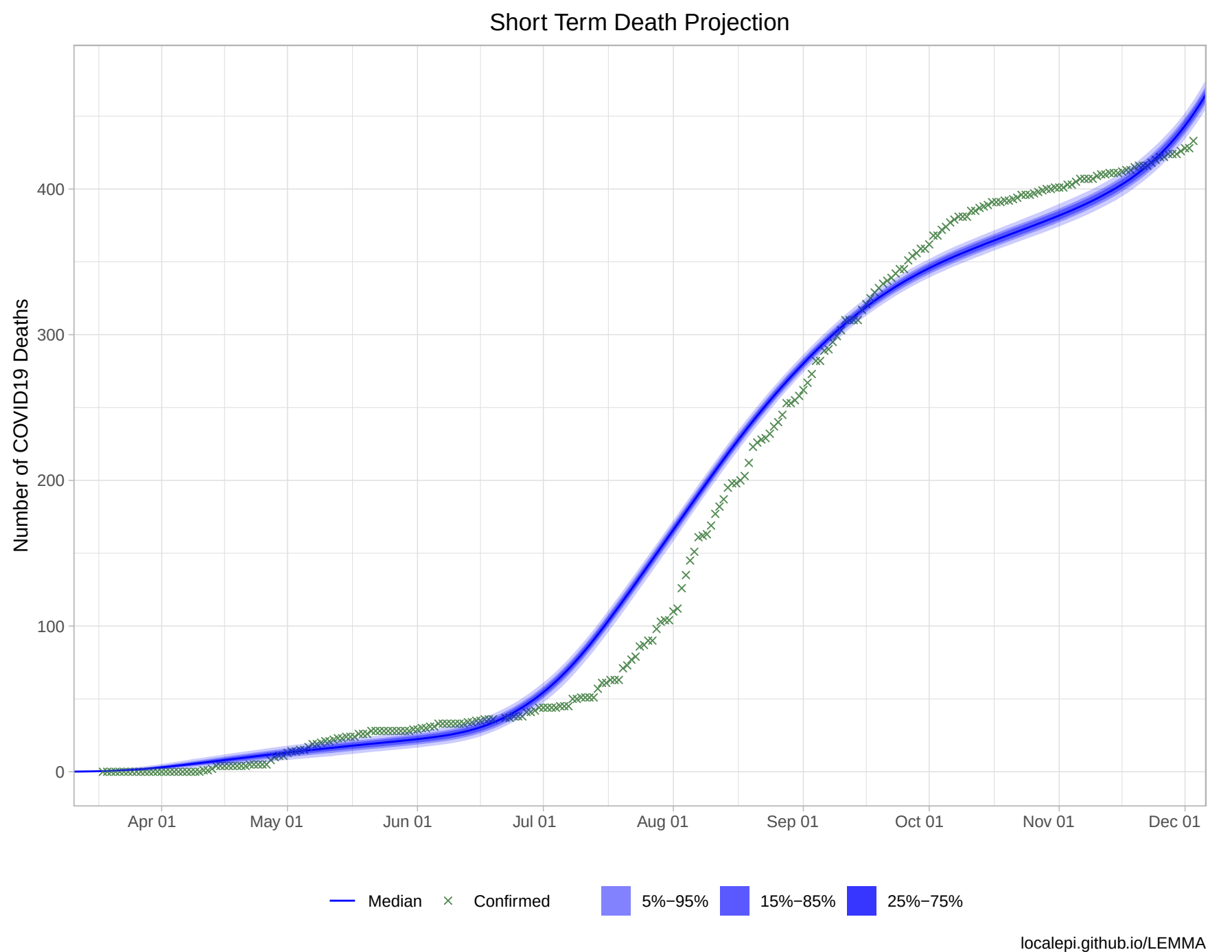
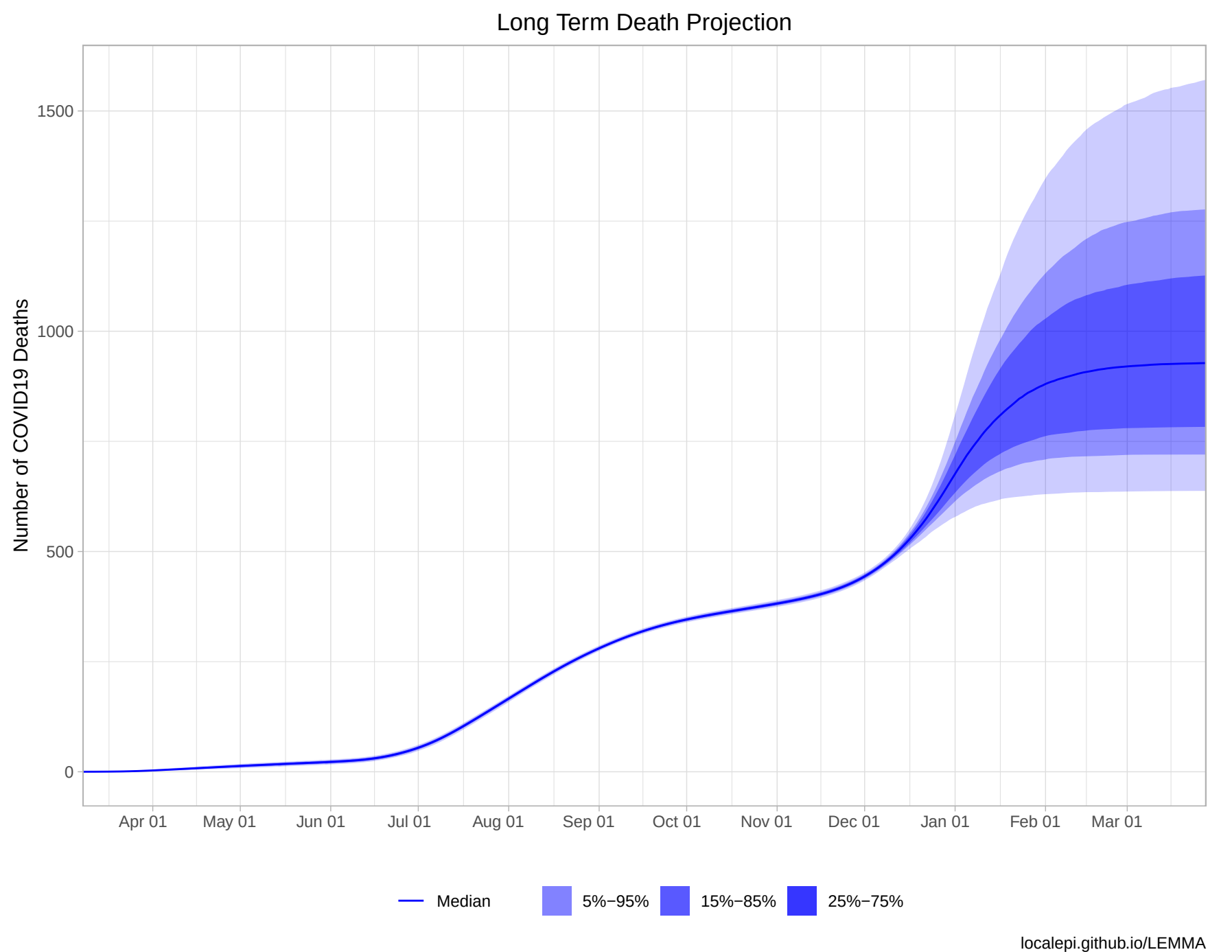

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
300
200
100
0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

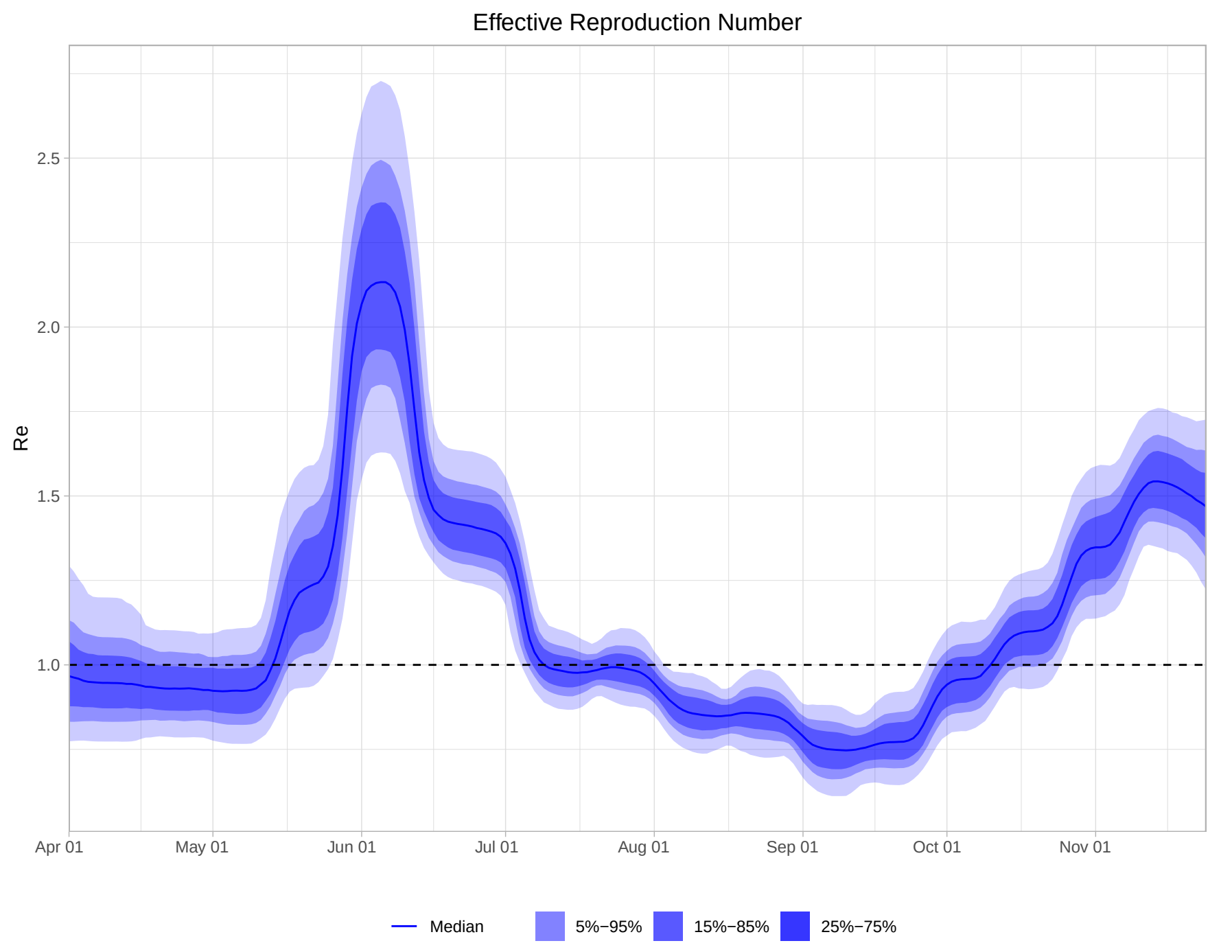

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
1000
750
500
250
0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


Short Term ICU Projection
Number of COVID19 Patients in ICU
0
20
40
60
80
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 ICU Projection
Number of COVID19 Patients in ICU
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

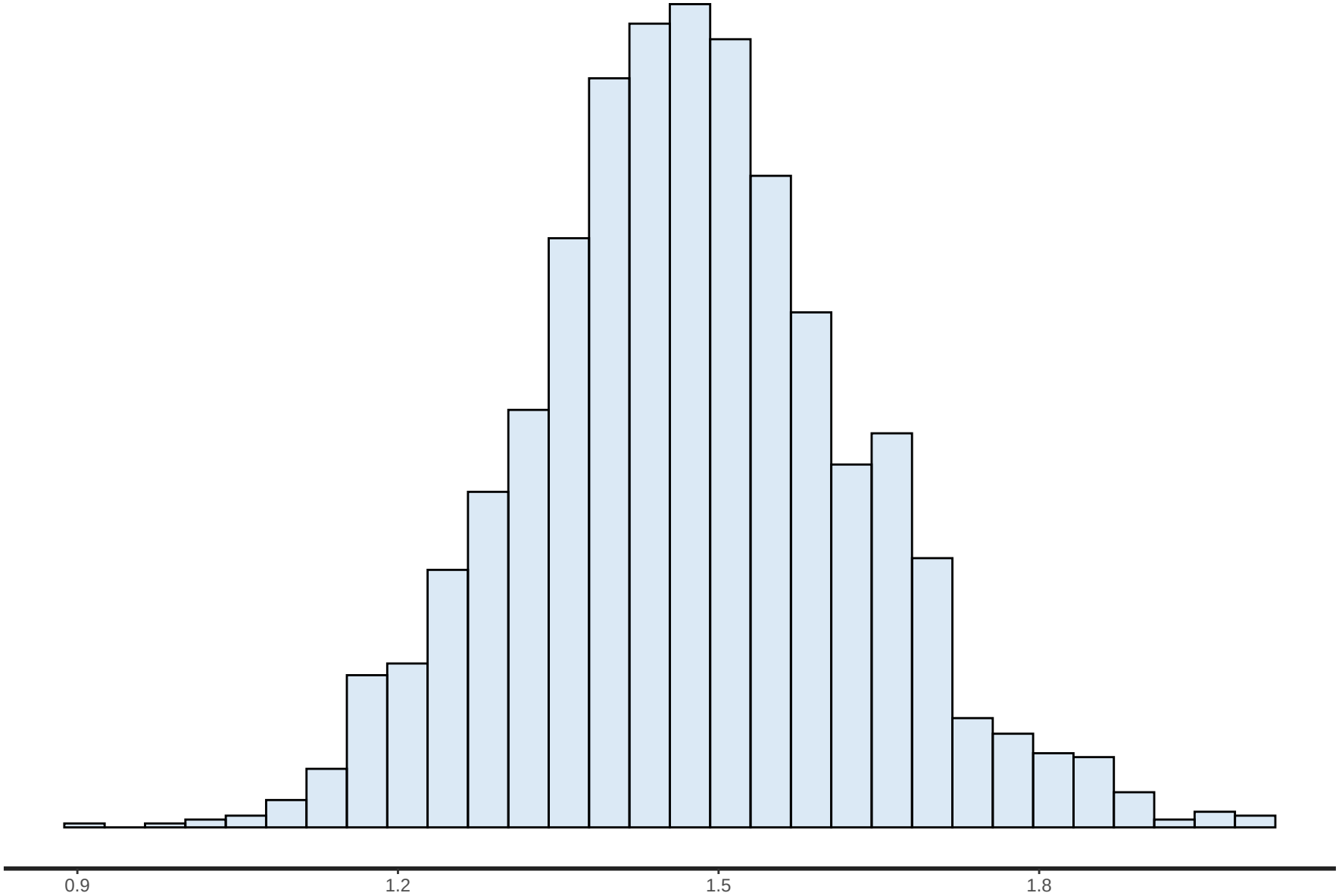

Short Term Death Projection
Number of COVID19 Deaths
0
100
200
300
400
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

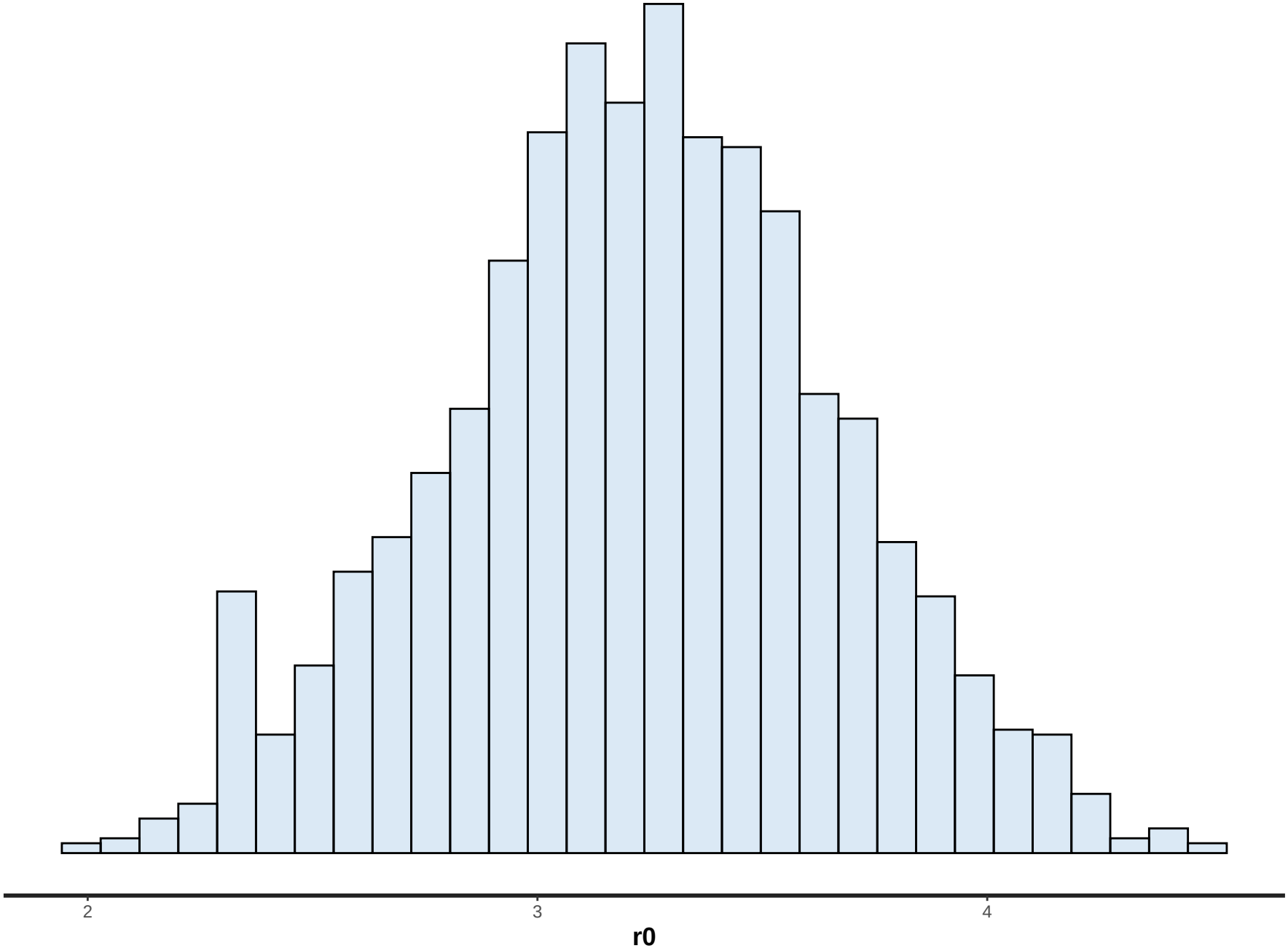

Long Term Death Projection
Number of COVID19 Deaths
1500
1000
500
0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

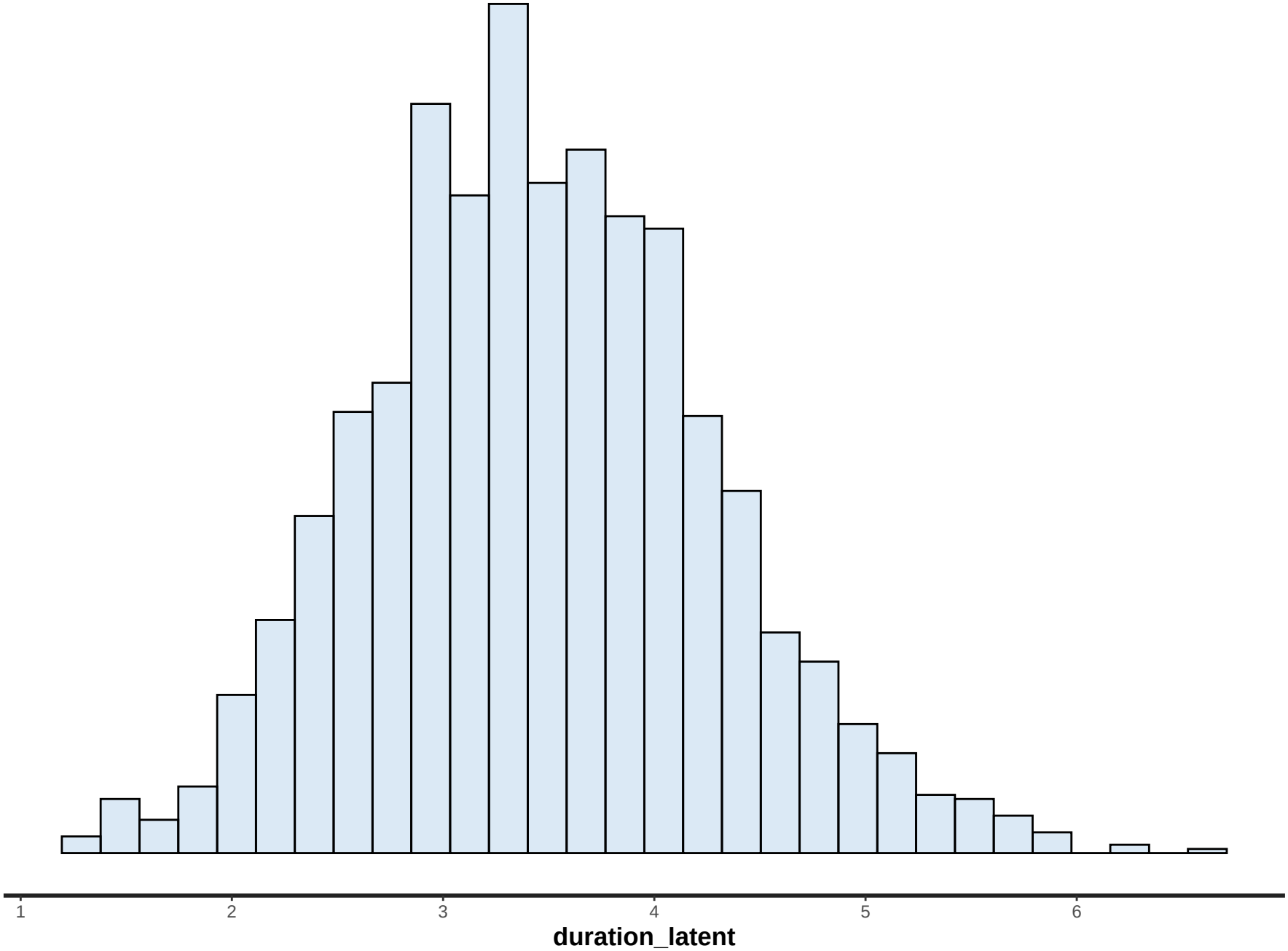

Effective Reproduction Number
Re
2.5
2.0
1.5
1.0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Median
5%−95%
15%−85%
25%−75%

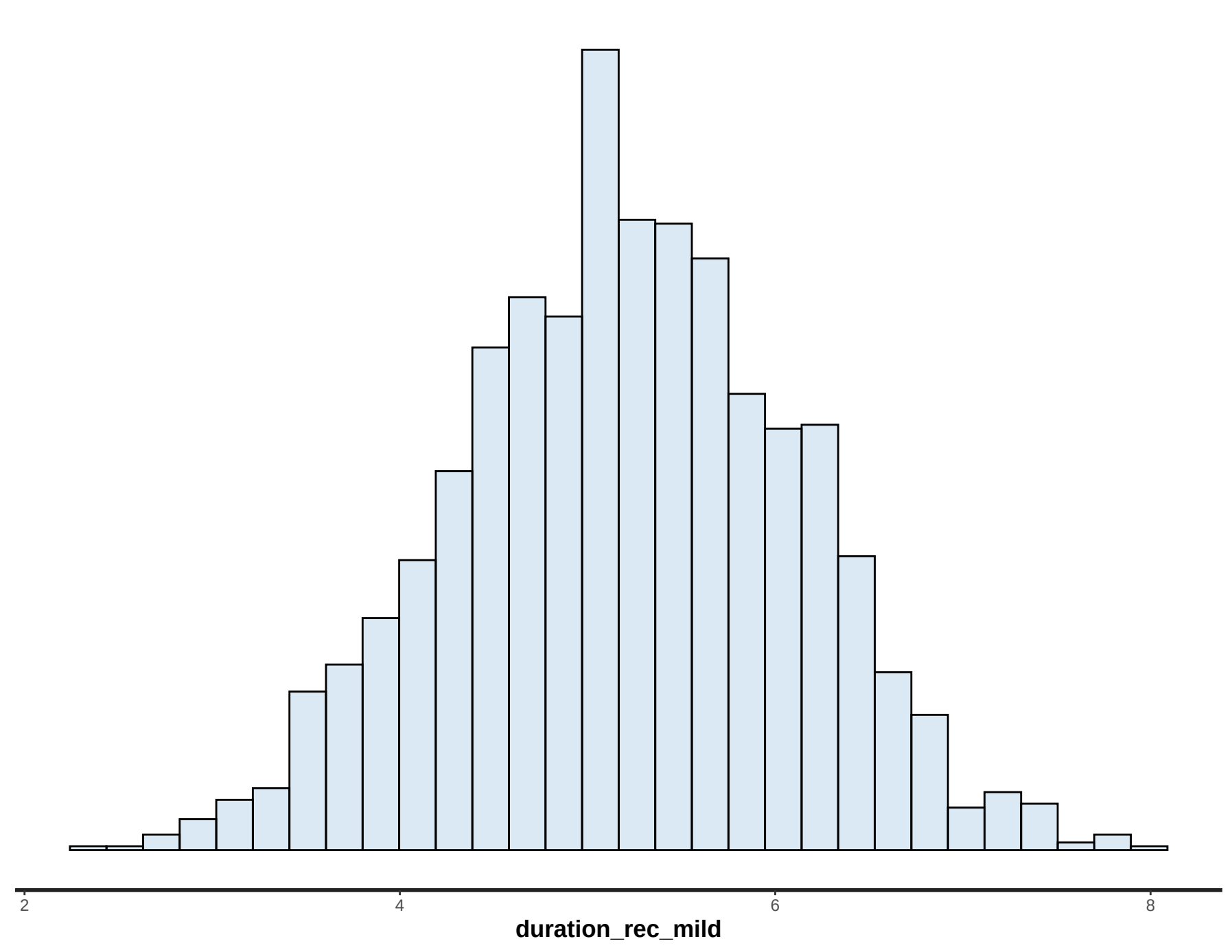
Rt as of 2020−11−24

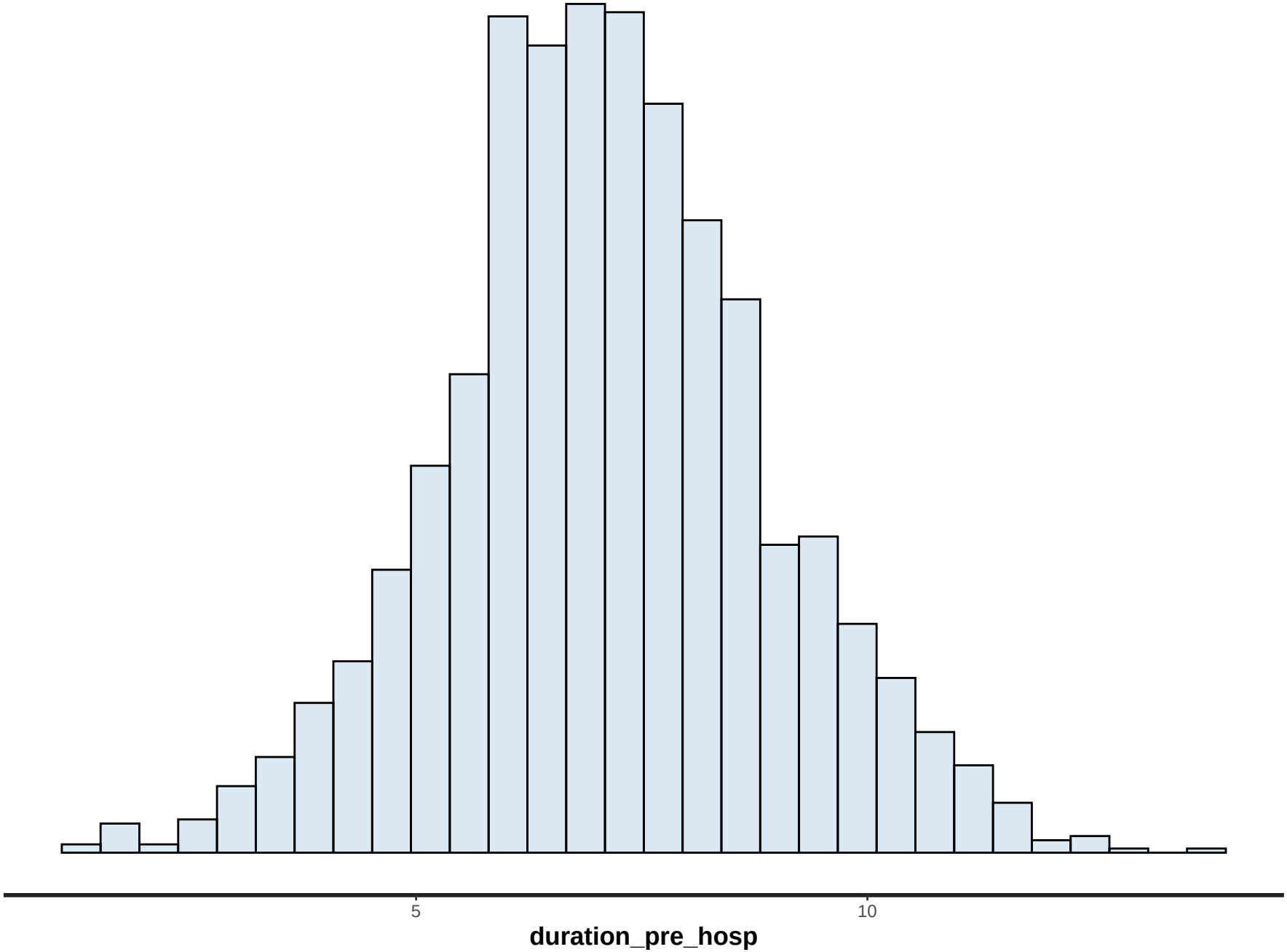
5%	10%	25%	50%	75%	90%	95%
1.22	1.28	1.37	1.47	1.57	1.67	1.73

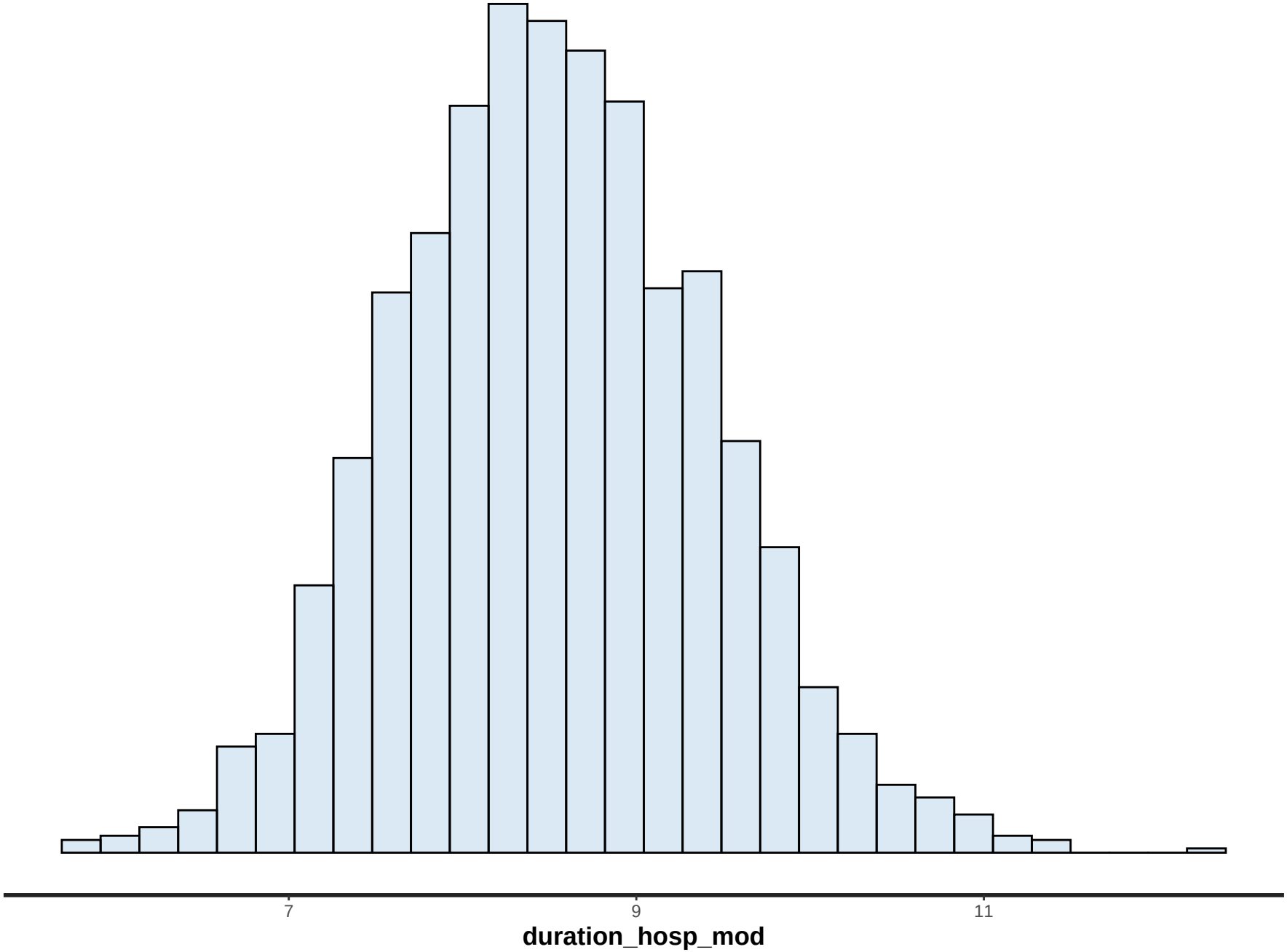


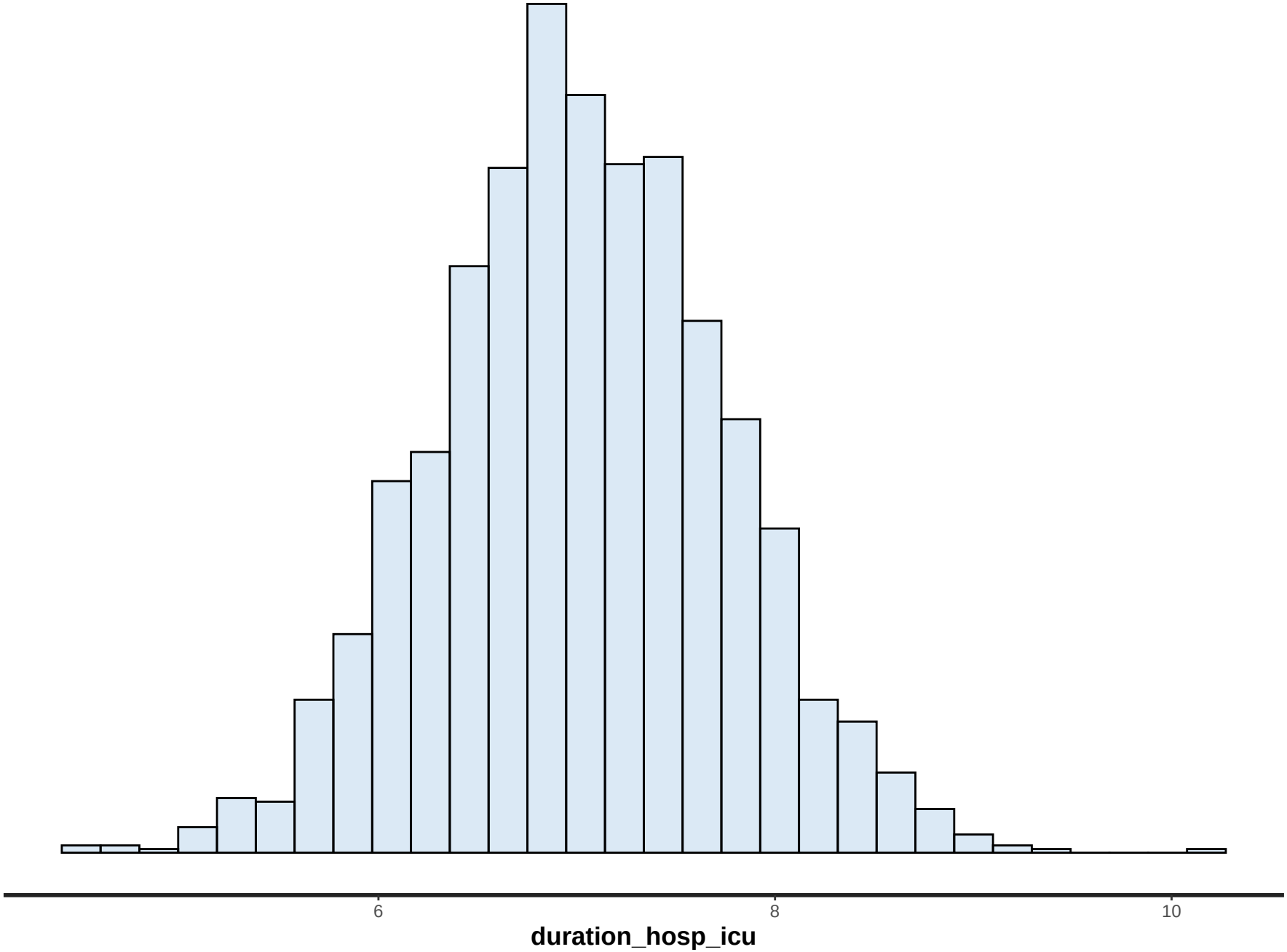

2
3
4
r0

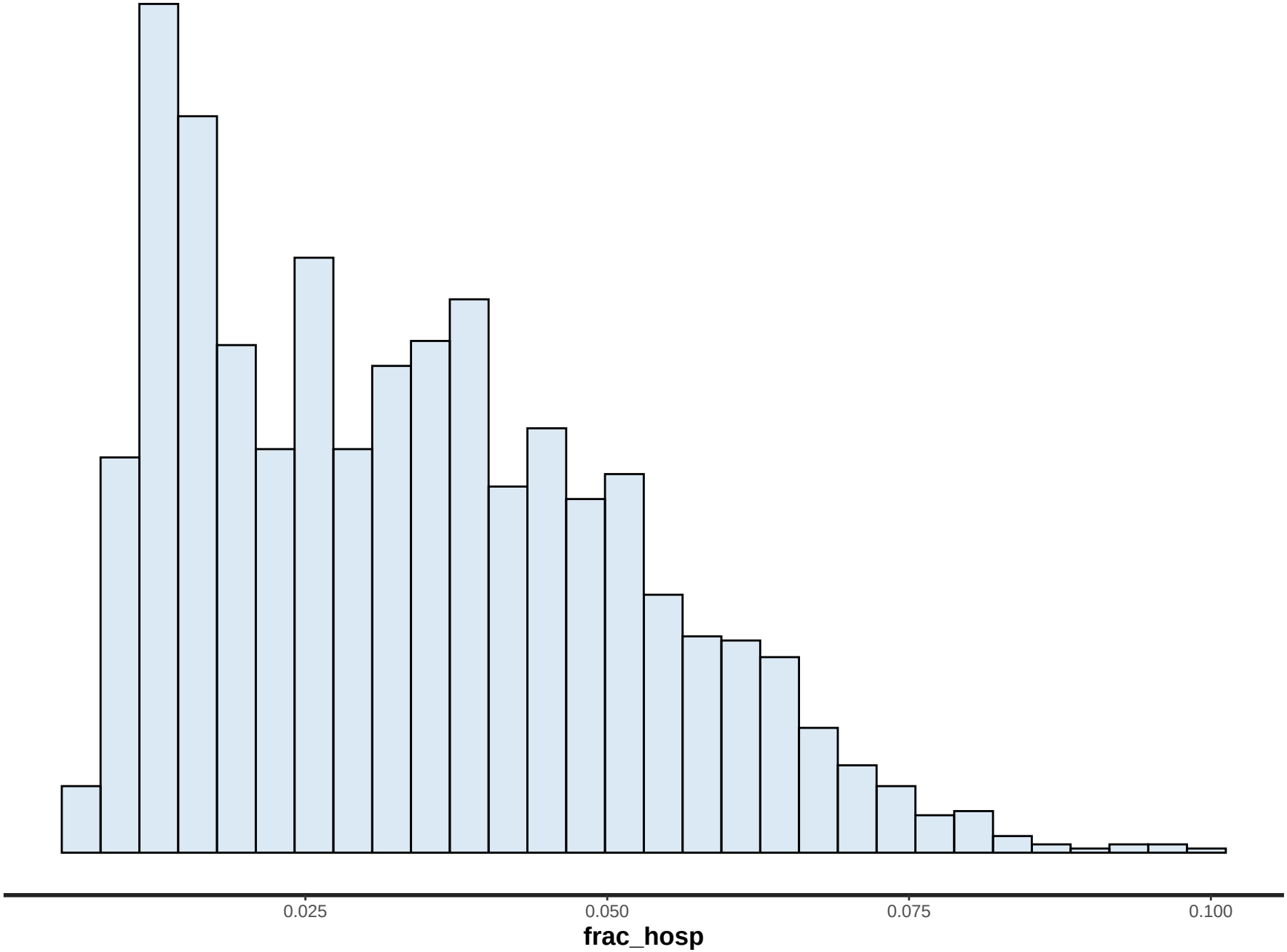

1
2
3
4
5
6
duration_latent

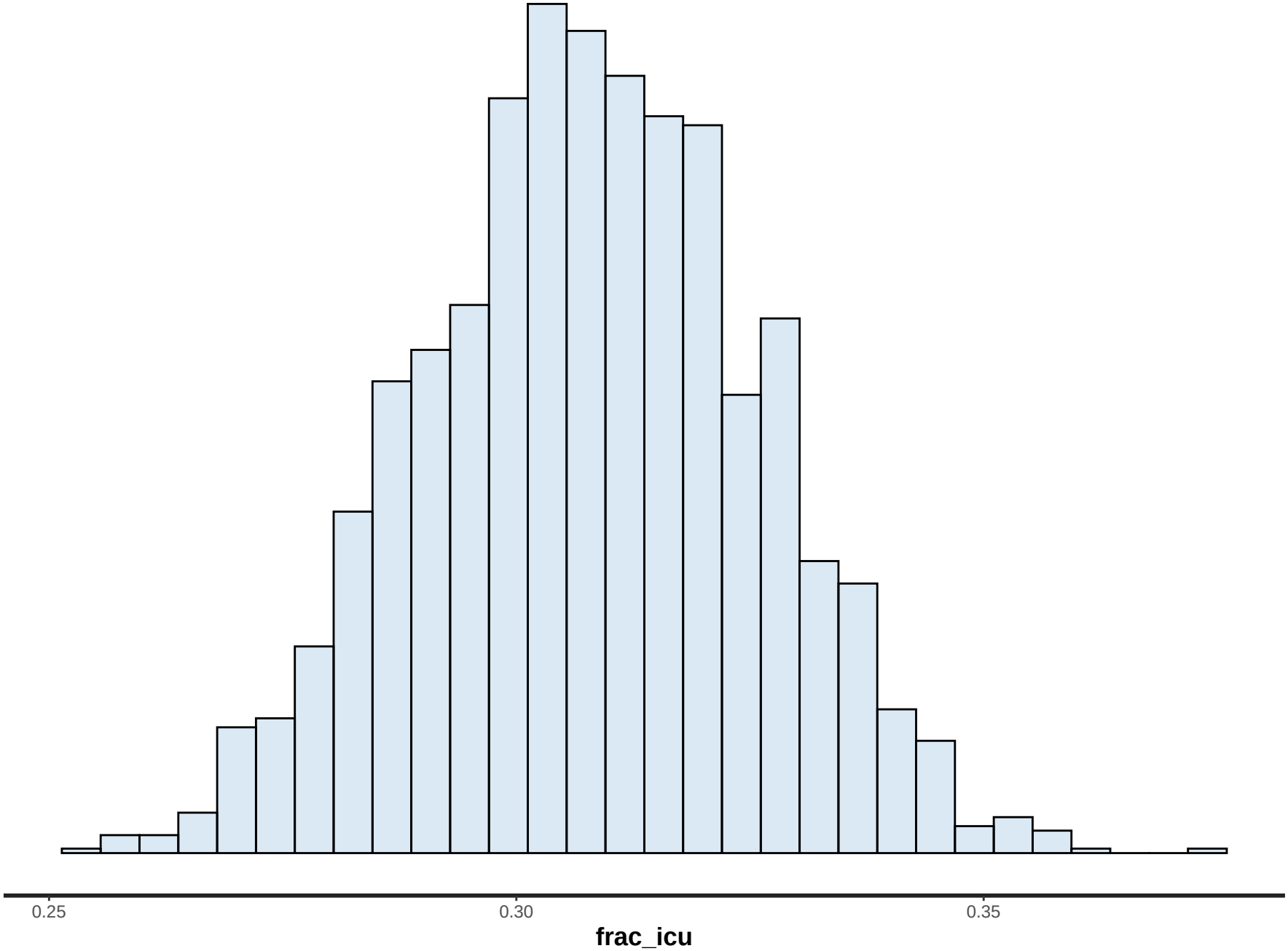

2
4
6
8
duration_rec_mild

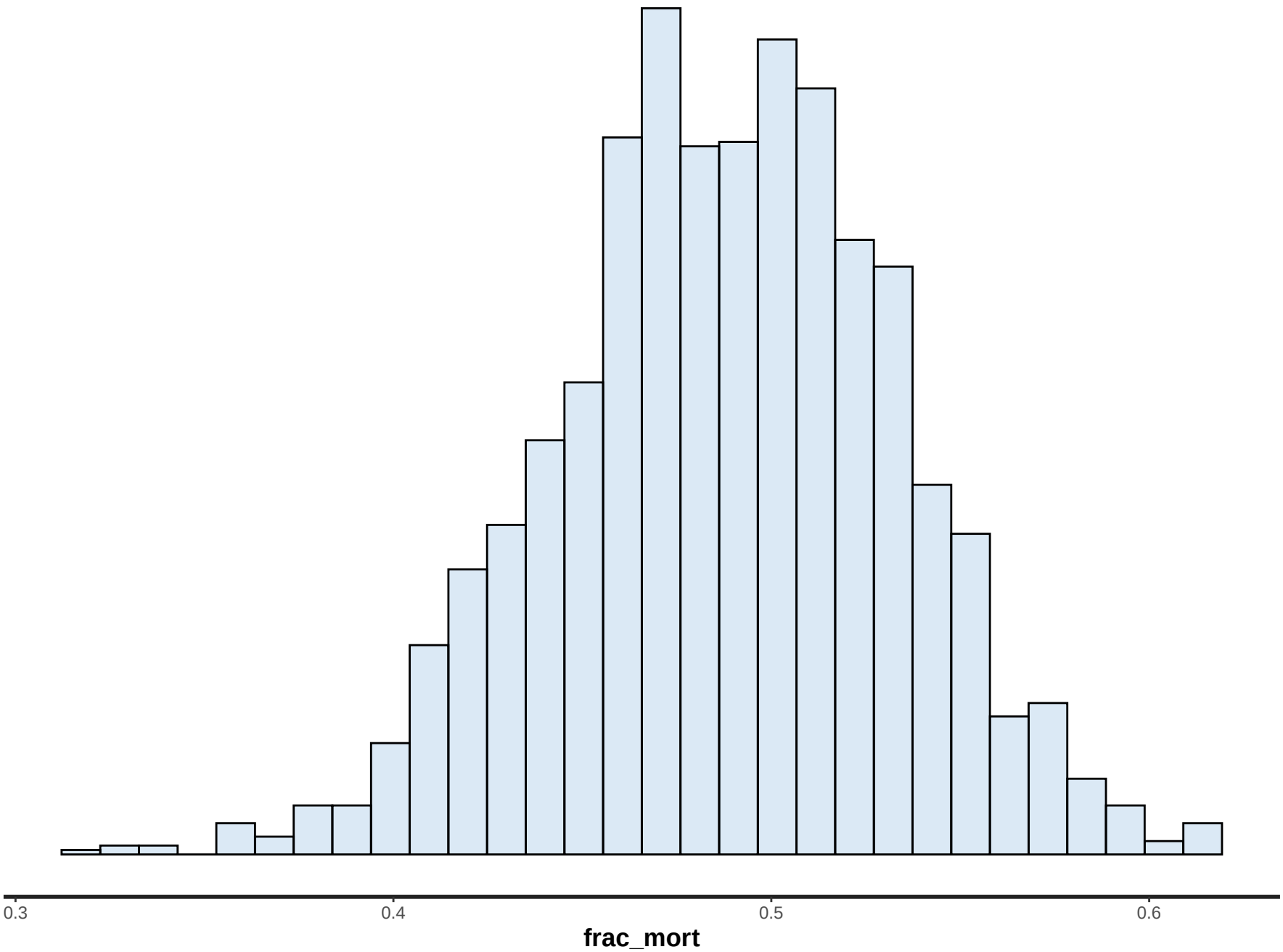

5
10
duration_pre_hosp

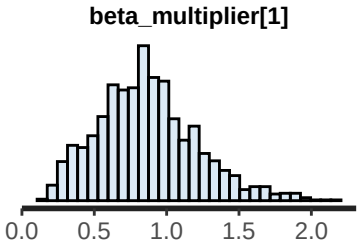

7
9
11
duration_hosp_mod

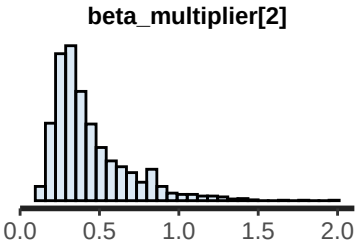

6
8
10
duration_hosp_icu

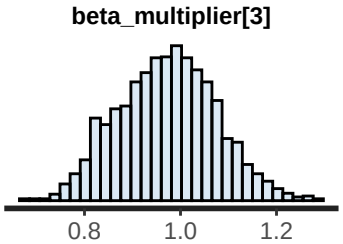

0.025
0.050
0.075
0.100
frac_hosp

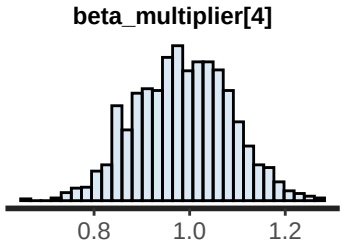

0.25
0.30
0.35
frac_icu

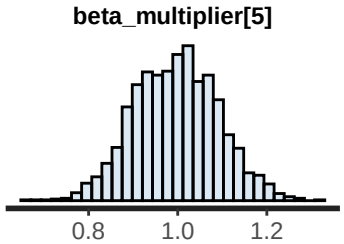

0.3
0.4
0.5
0.6
frac_mort

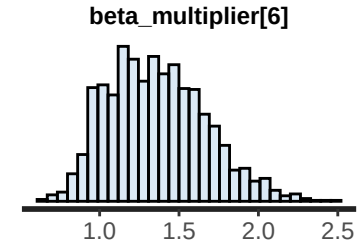

beta_multiplier[1]
0.0 0.5 1.0 1.5 2.0


beta_multiplier[2]
0.0 0.5 1.0 1.5 2.0


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]
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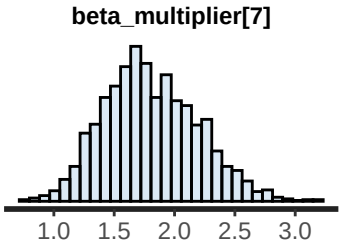
beta_multiplier[7]
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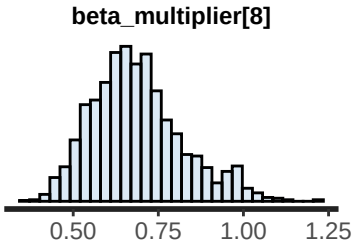
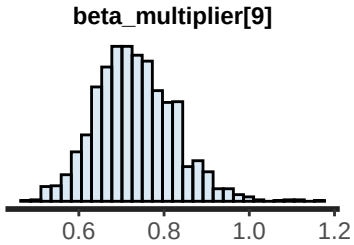

beta_multiplier[8]
0.50 0.75 1.00 1.25


beta_multiplier[9]
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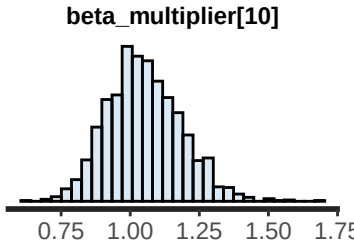
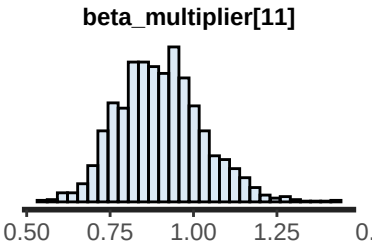

beta_multiplier[10]
0.75 1.00 1.25 1.50 1.75


beta_multiplier[11]
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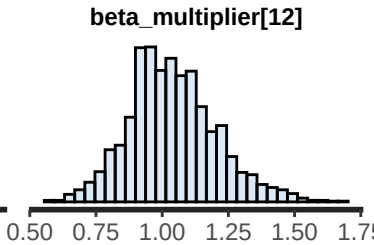
beta_multiplier[12]
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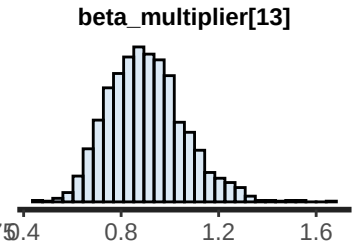
beta_multiplier[13]
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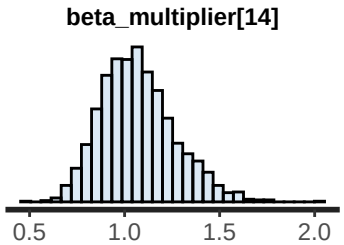
beta_multiplier[14]
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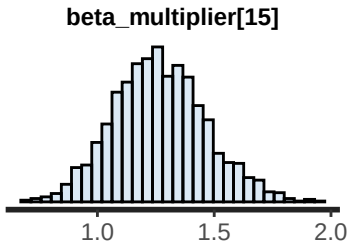
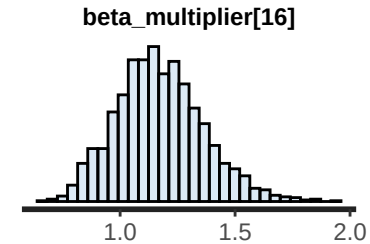

beta_multiplier[15]
1.0 1.5 2.0


beta_multiplier[16]
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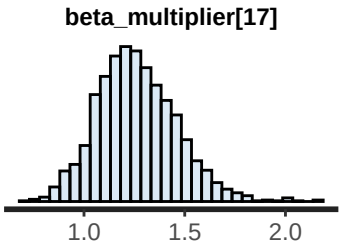
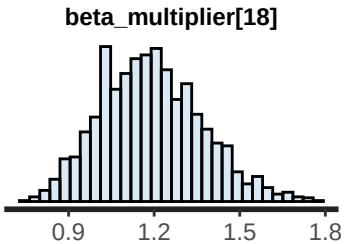
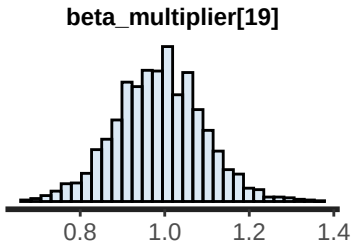
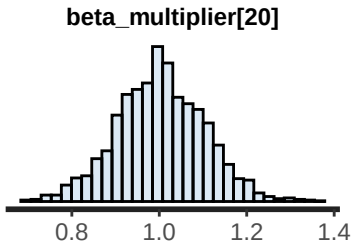
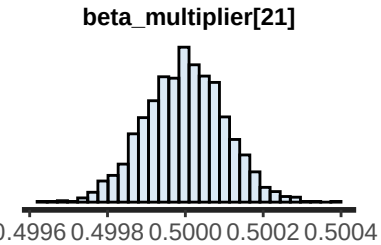

beta_multiplier[17]
1.0 1.5 2.0


beta_multiplier[18]
0.9 1.2 1.5 1.8


beta_multiplier[19]
0.8 1.0 1.2 1.4


beta_multiplier[20]
0.8 1.0 1.2 1.4


beta_multiplier[21]
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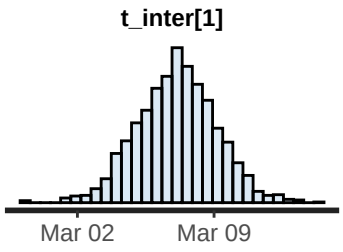
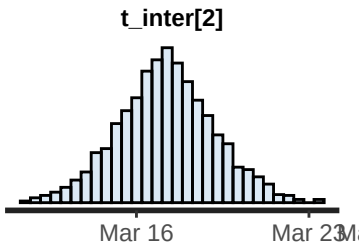
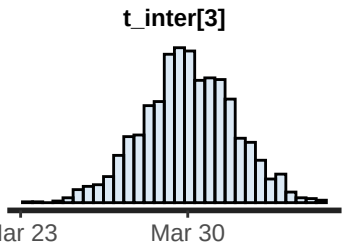
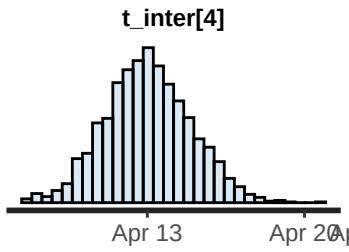
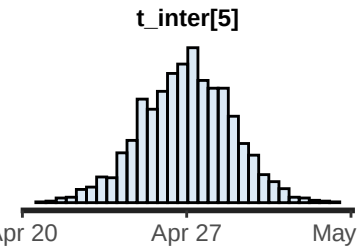
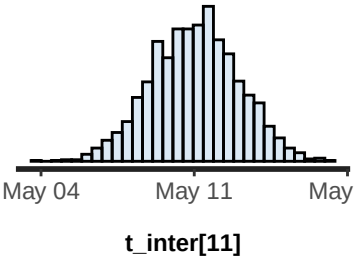

t_inter[1]
Mar 02
Mar 09

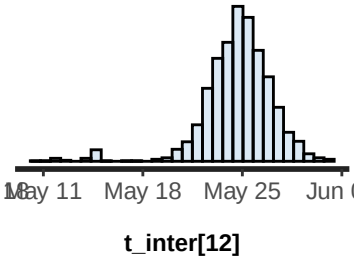

t_inter[2]
Mar 16
Mar 23

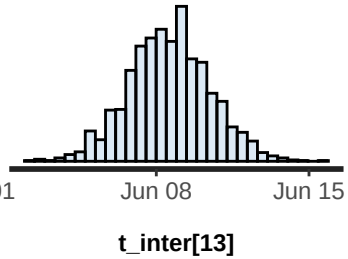

t_inter[3]
Mar 23
Mar 30

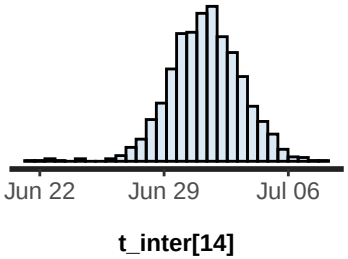

t_inter[4]
Apr 13
Apr 20


t_inter[5]
Apr 20
Apr 27


t_inter[6]
May 04
May 11


t_inter[7]
May 11
May 18
May 25
Jun 01


t_inter[8]
Jun 08
Jun 15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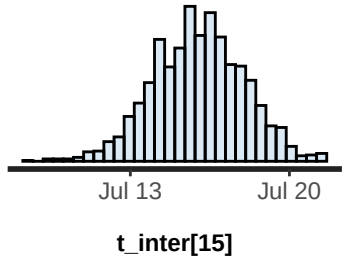
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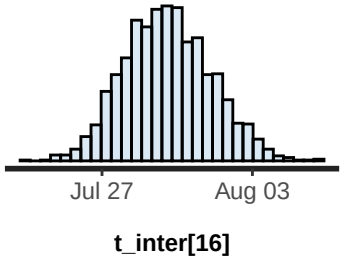
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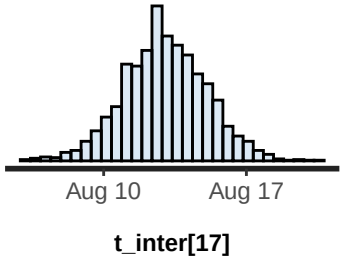
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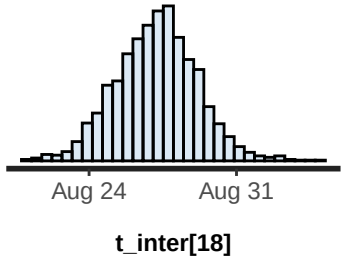
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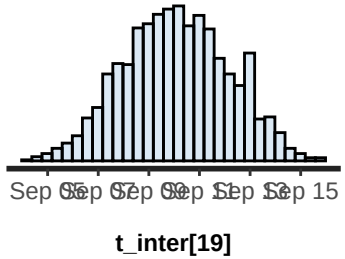
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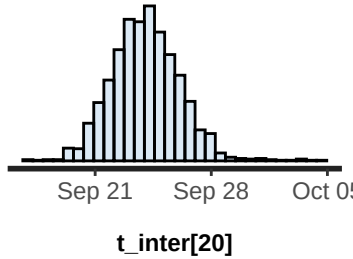
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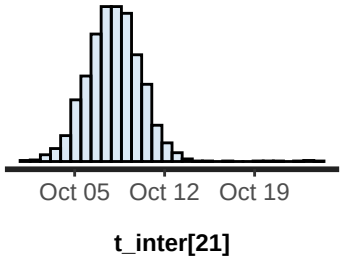
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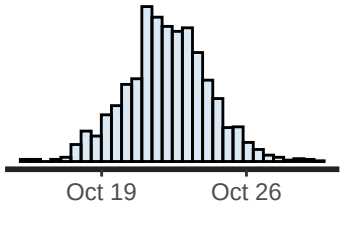
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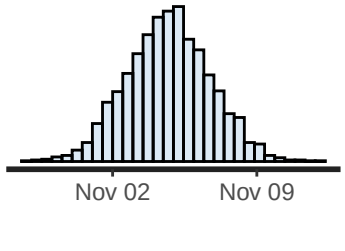
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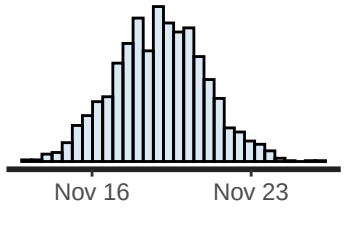
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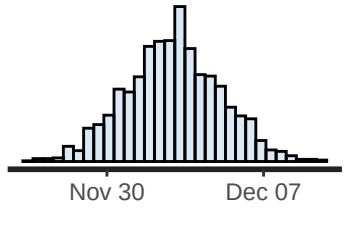
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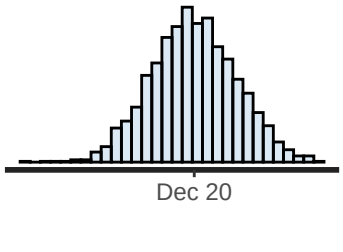
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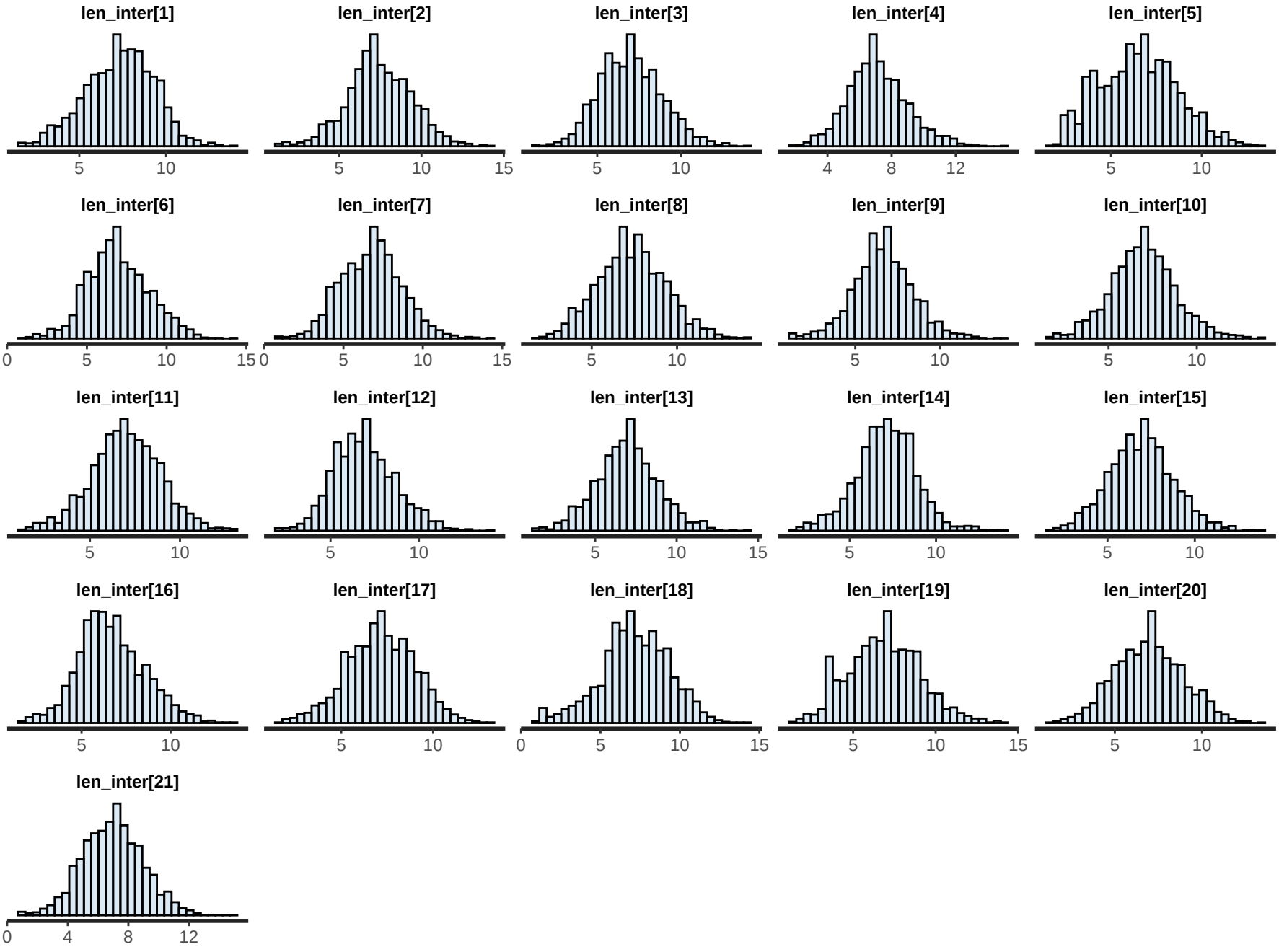
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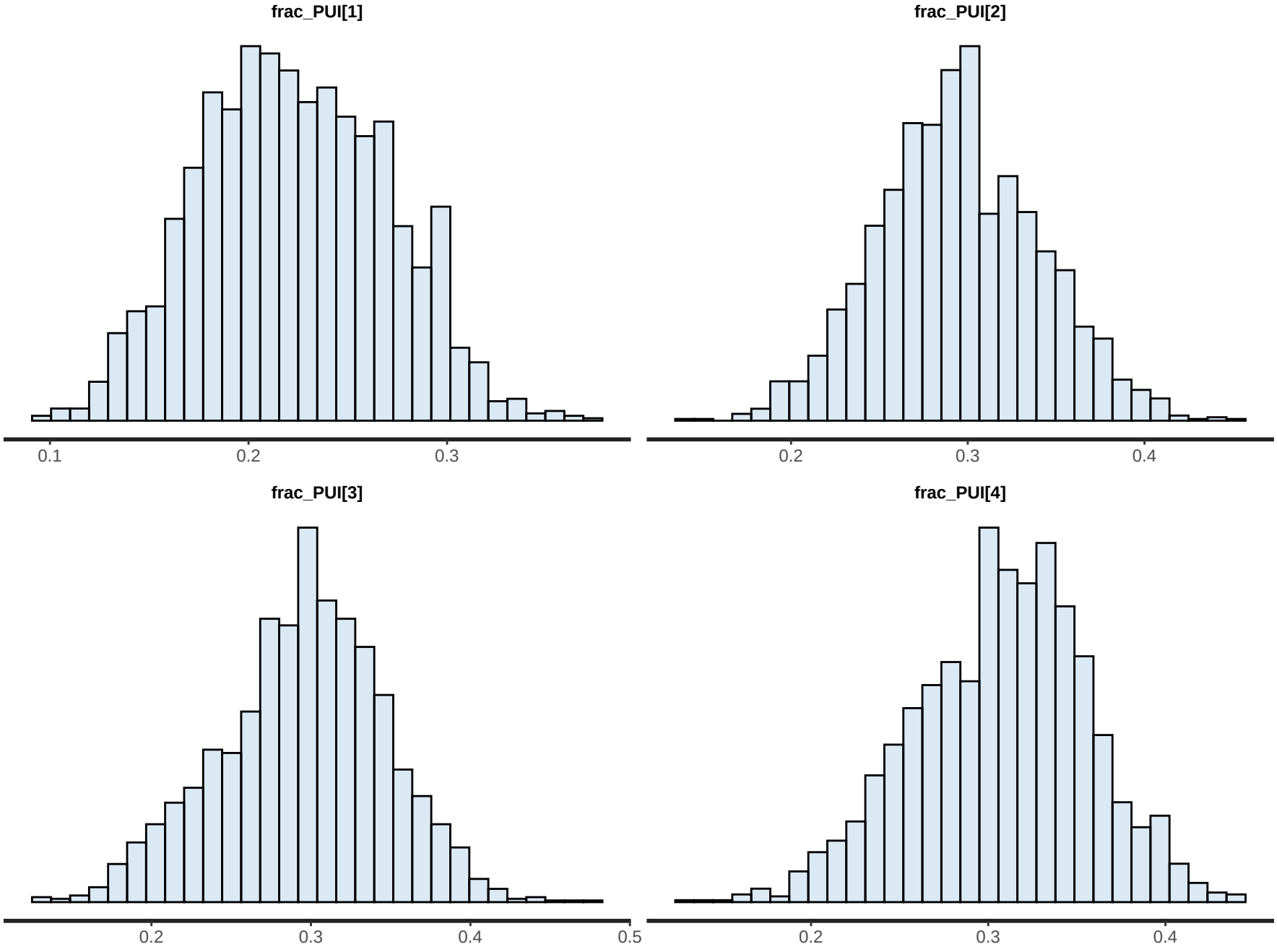
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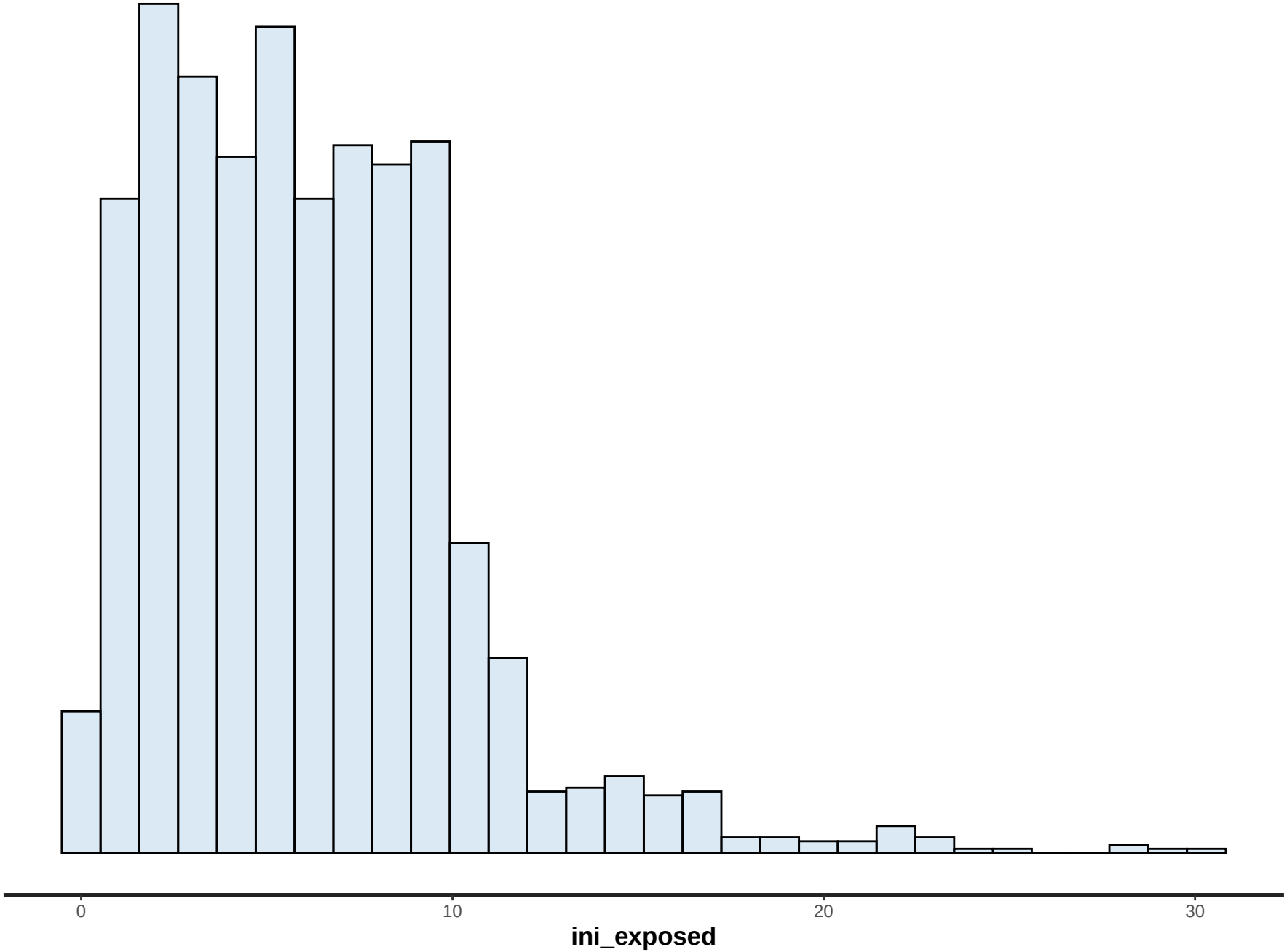
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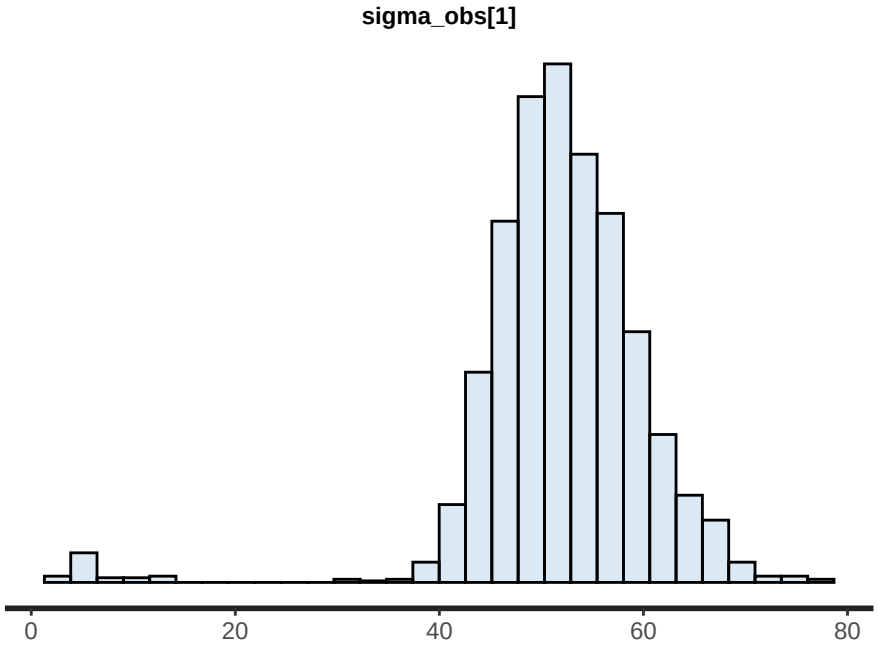
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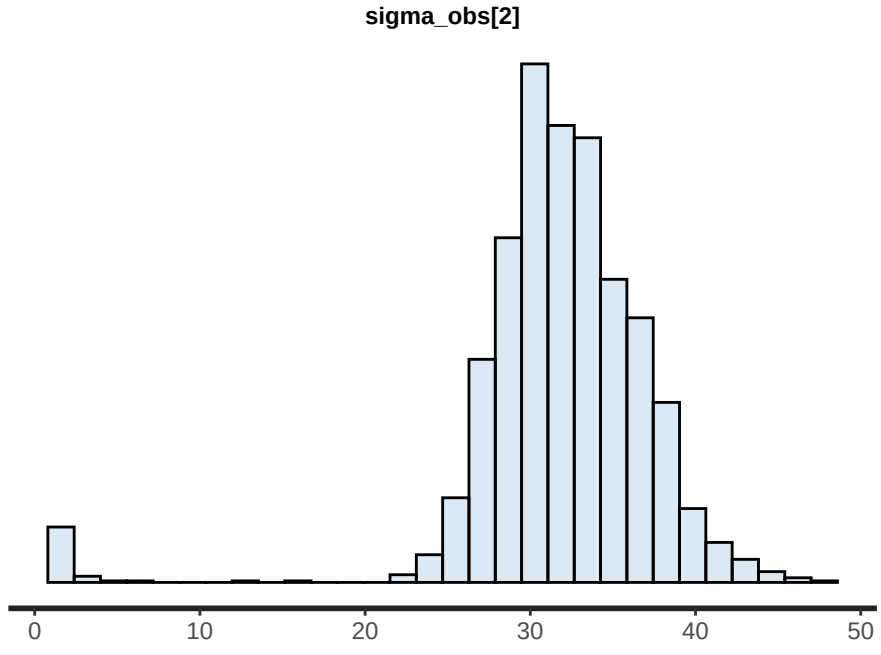
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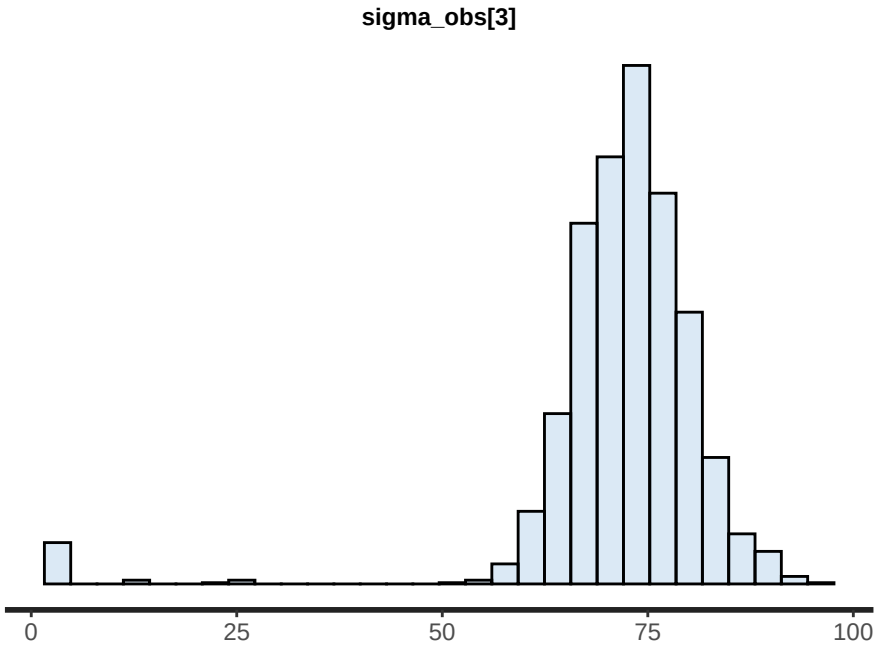
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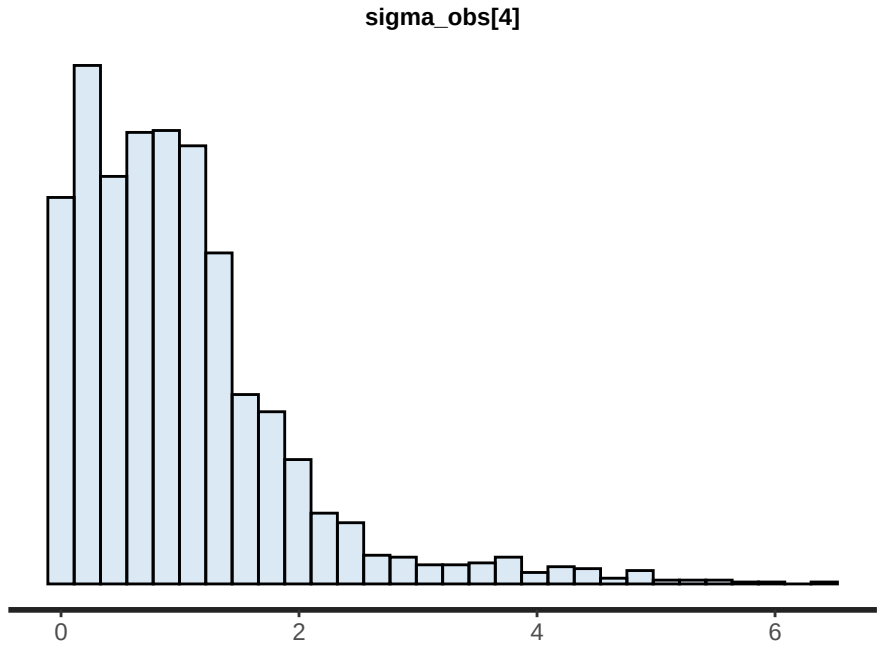
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