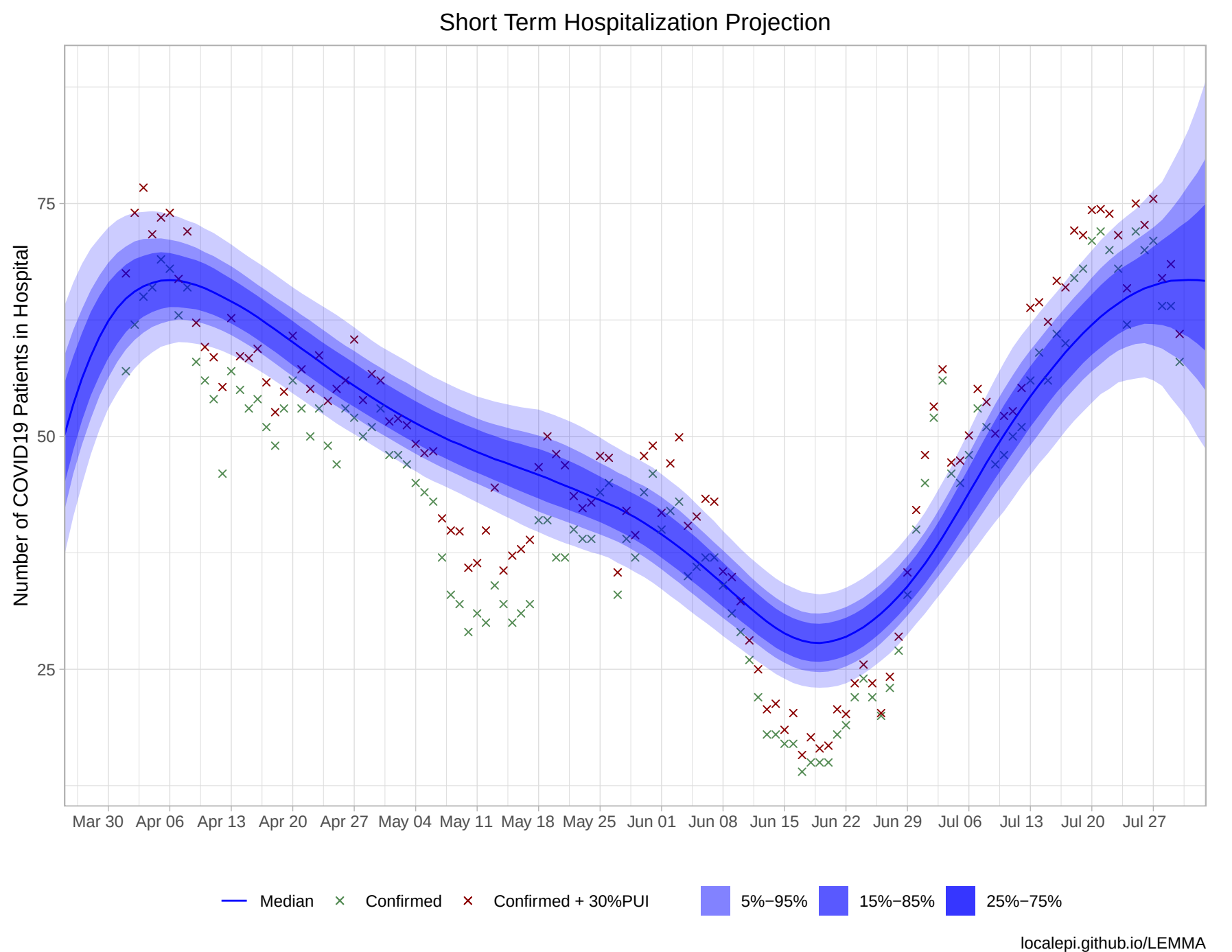
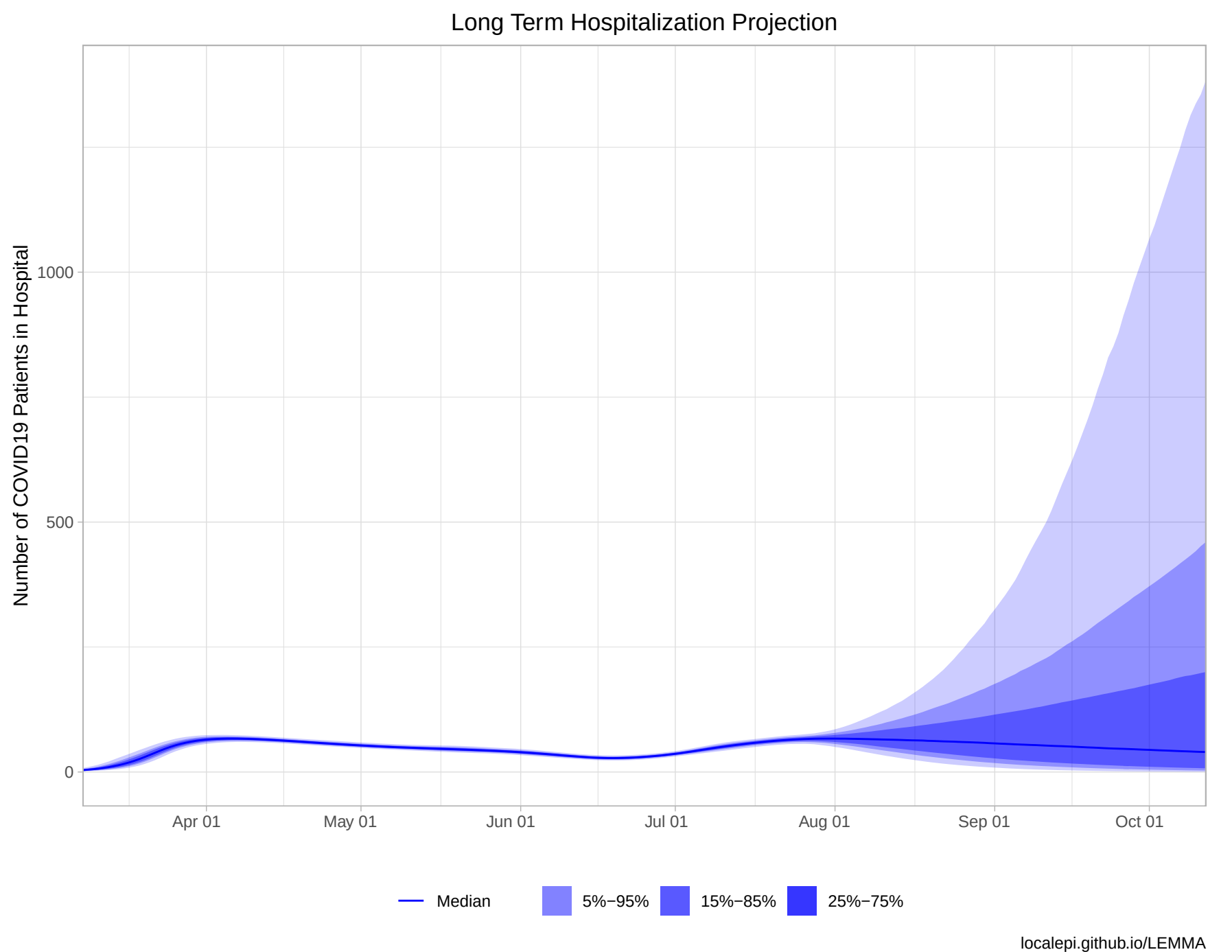
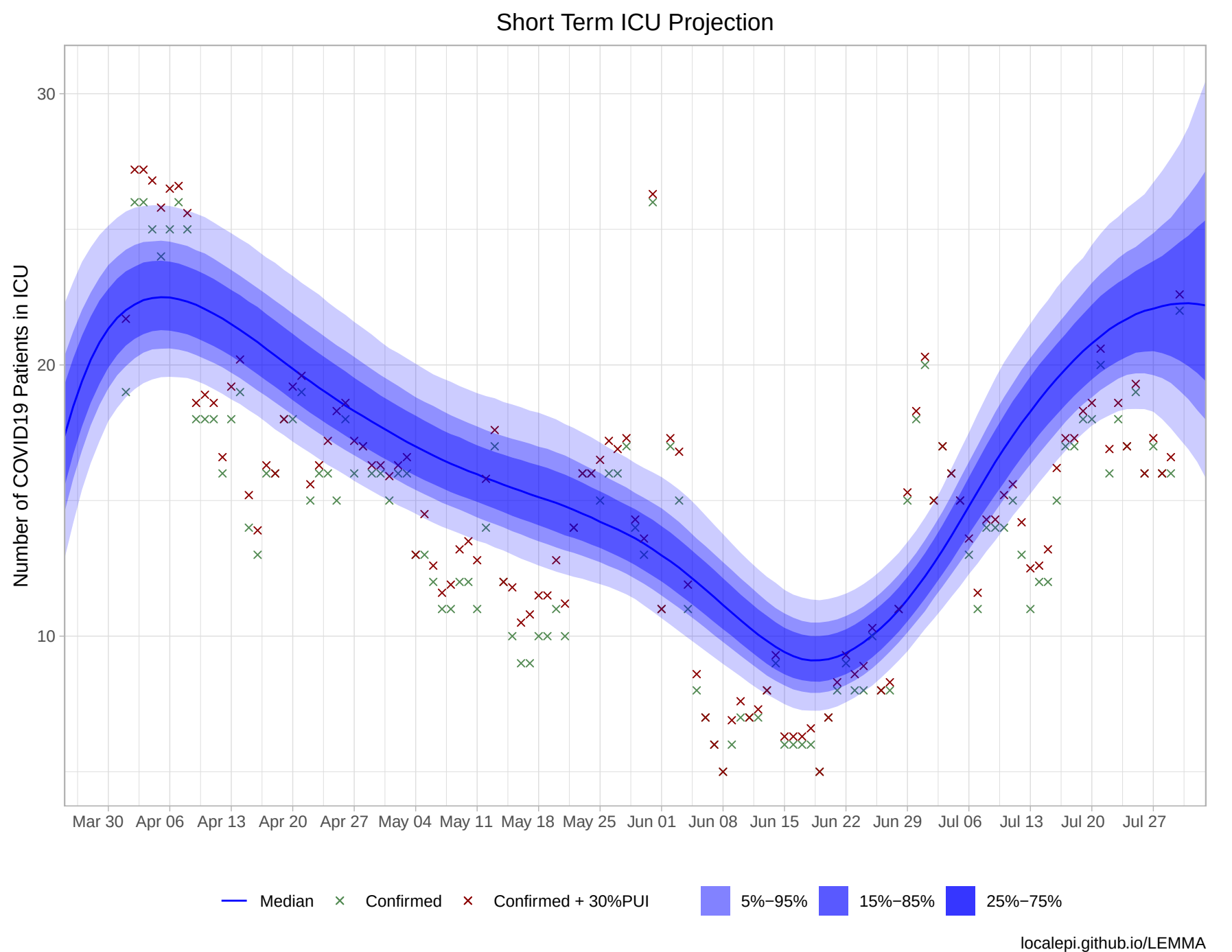
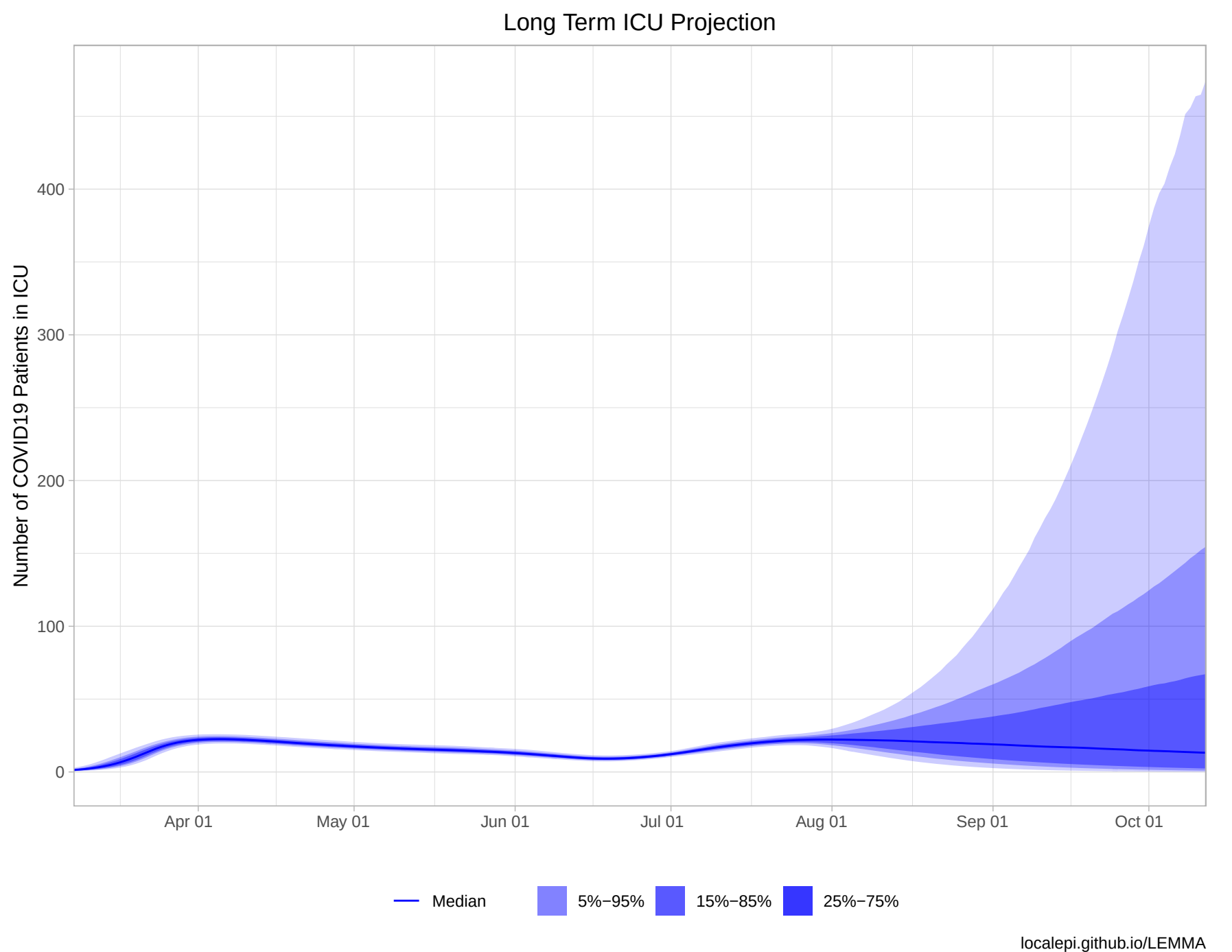
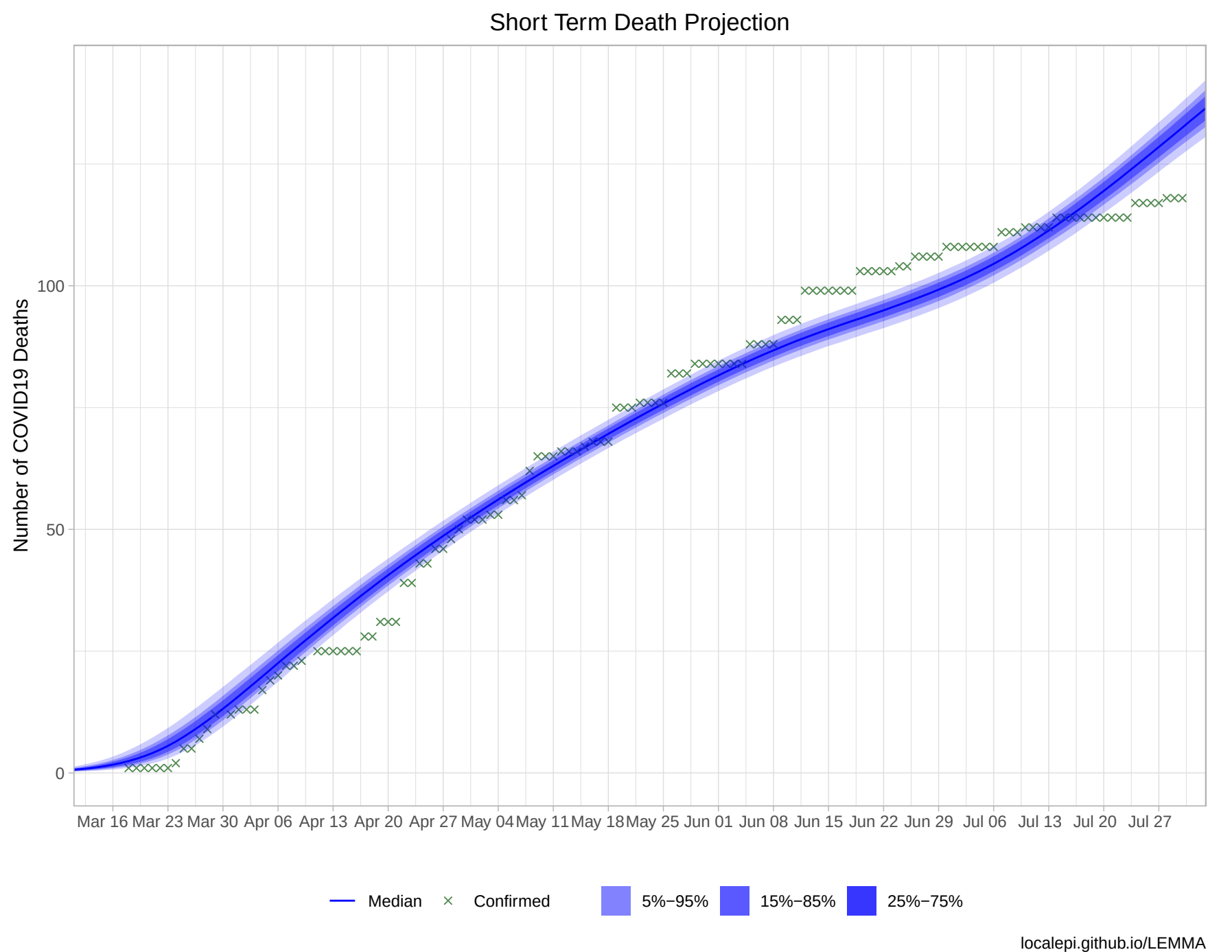
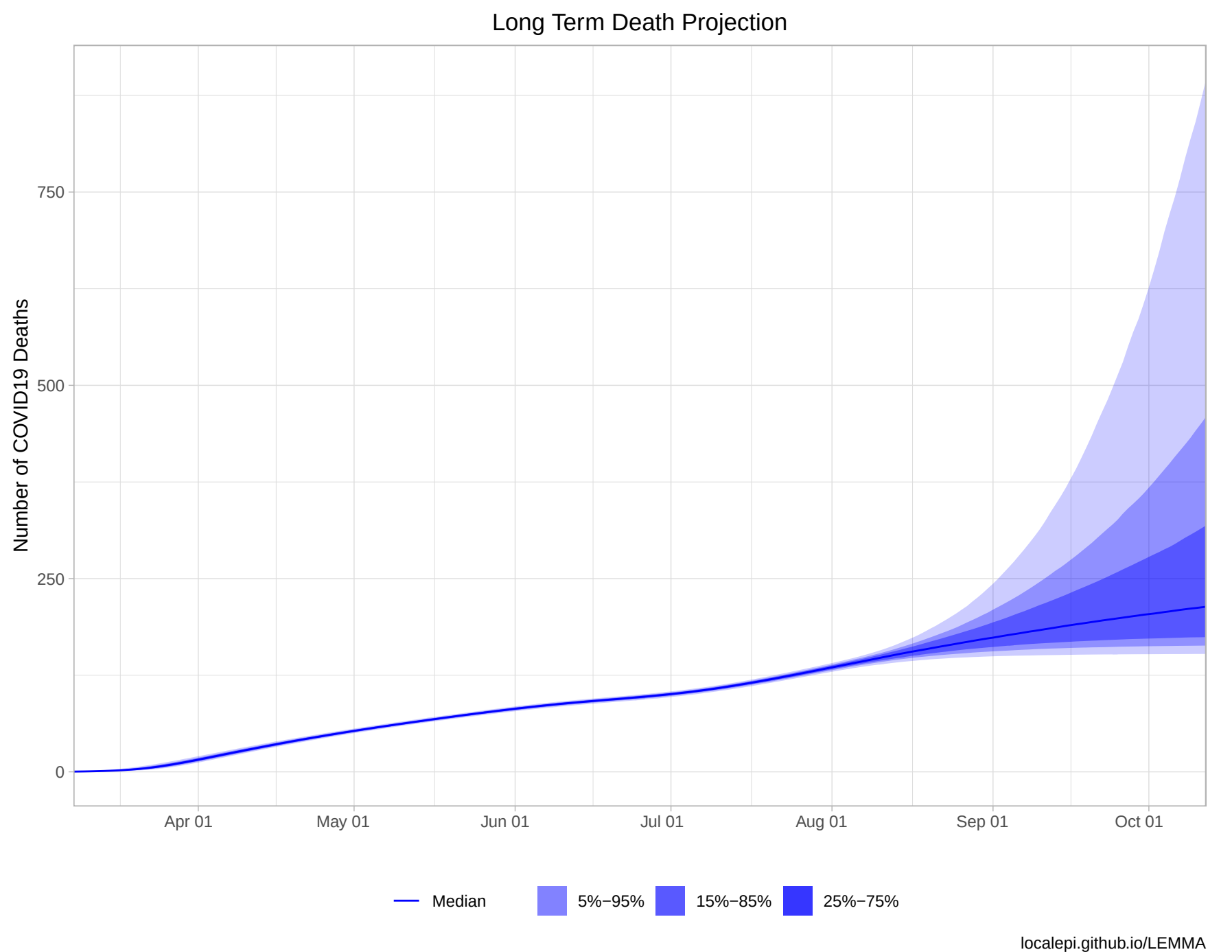

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
75
50
25
Mar 30
Apr 06
Apr 13
Apr 20
Apr 27
May 04
May 11
May 18
May 25
Jun 01
Jun 08
Jun 15
Jun 22
Jun 29
Jul 06
Jul 13
Jul 20
Jul 27
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

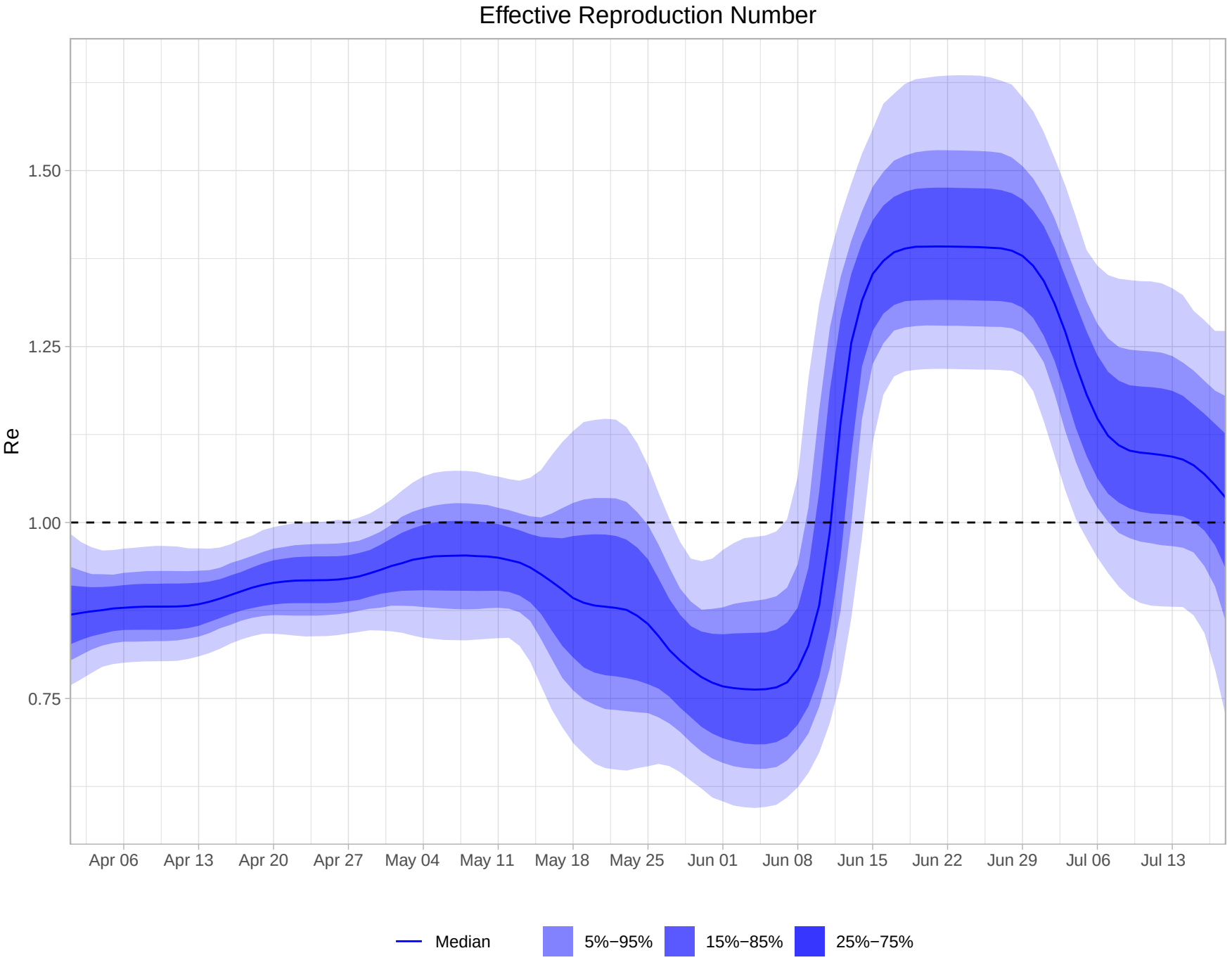

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
1000
500
0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


Short Term ICU Projection
Number of COVID19 Patients in ICU
30
20
10
Mar 30
Apr 06
Apr 13
Apr 20
Apr 27
May 04
May 11
May 18
May 25
Jun 01
Jun 08
Jun 15
Jun 22
Jun 29
Jul 06
Jul 13
Jul 20
Jul 27
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
400
300
200
100
0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

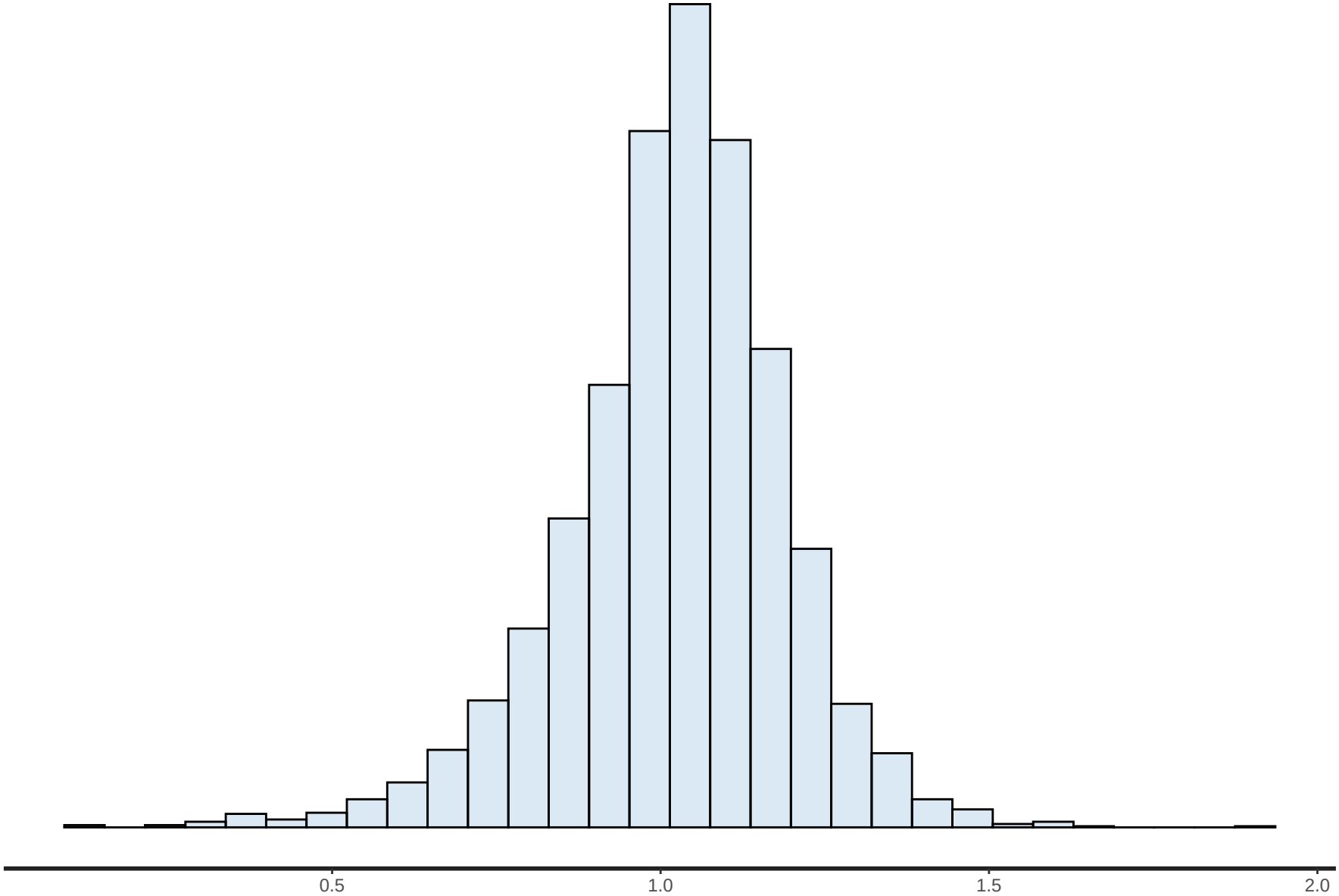

Short Term Death Projection
Number of COVID19 Deaths
0
50
100
Mar 16
Mar 23
Mar 30
Apr 06
Apr 13
Apr 20
Apr 27
May 04
May 11
May 18
May 25
Jun 01
Jun 08
Jun 15
Jun 22
Jun 29
Jul 06
Jul 13
Jul 20
Jul 27
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

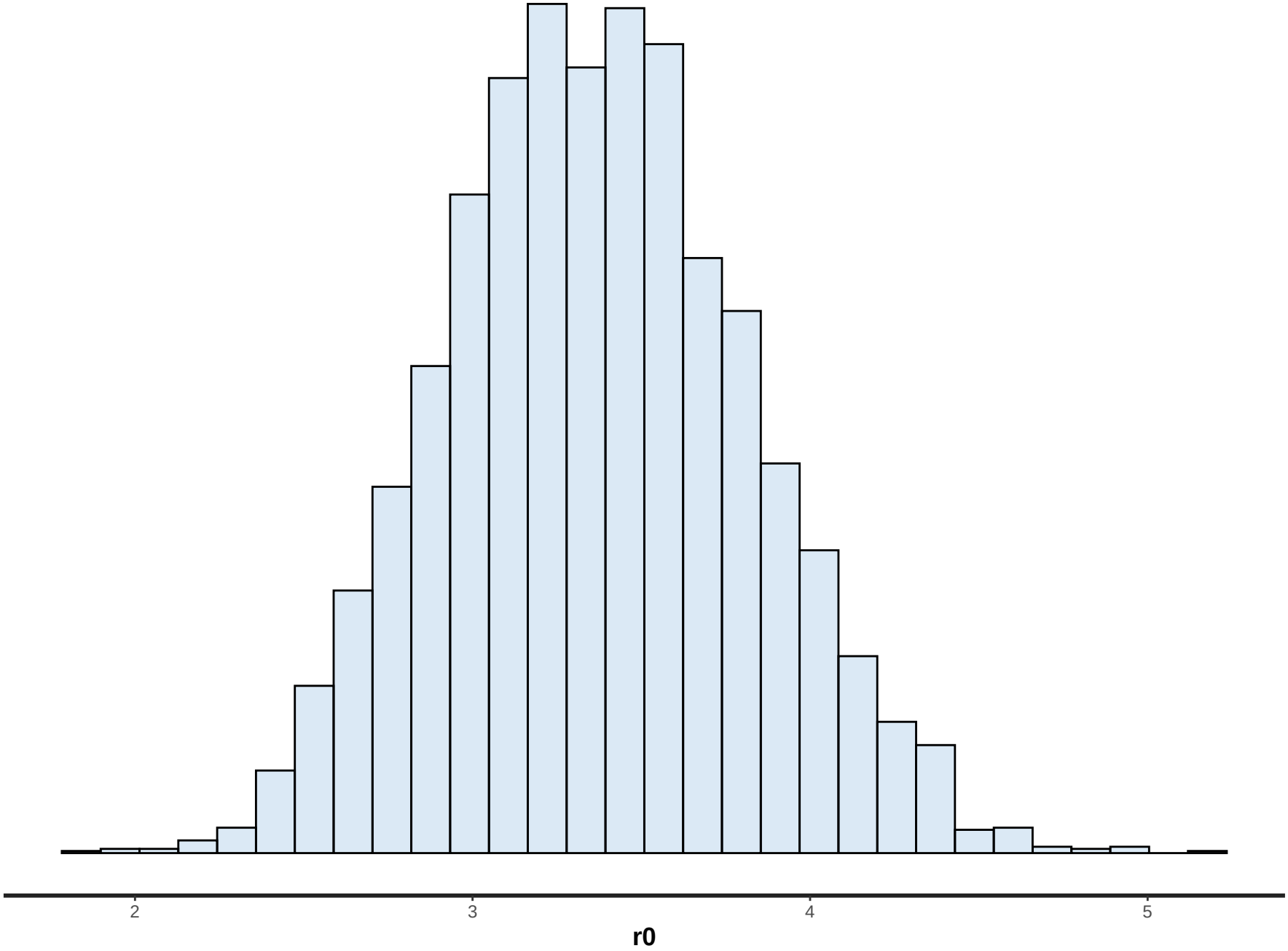

Long Term Death Projection
Number of COVID19 Deaths
750
500
250
0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

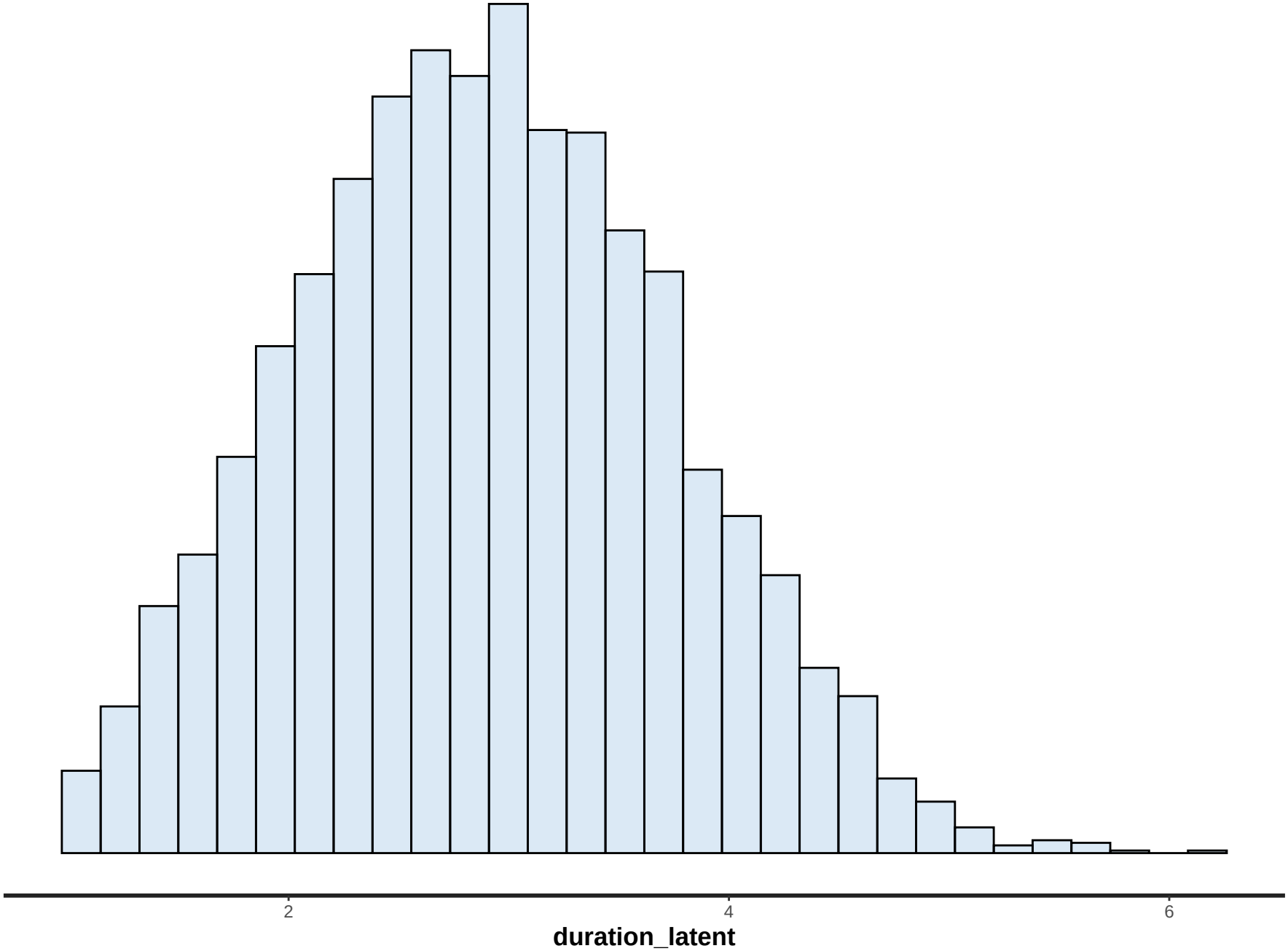

Effective Reproduction Number
Re
1.50
1.25
1.00
0.75
Apr 06
Apr 13
Apr 20
Apr 27
May 04
May 11
May 18
May 25
Jun 01
Jun 08
Jun 15
Jun 22
Jun 29
Jul 06
Jul 13
Median
5%−95%
15%−85%
25%−75%

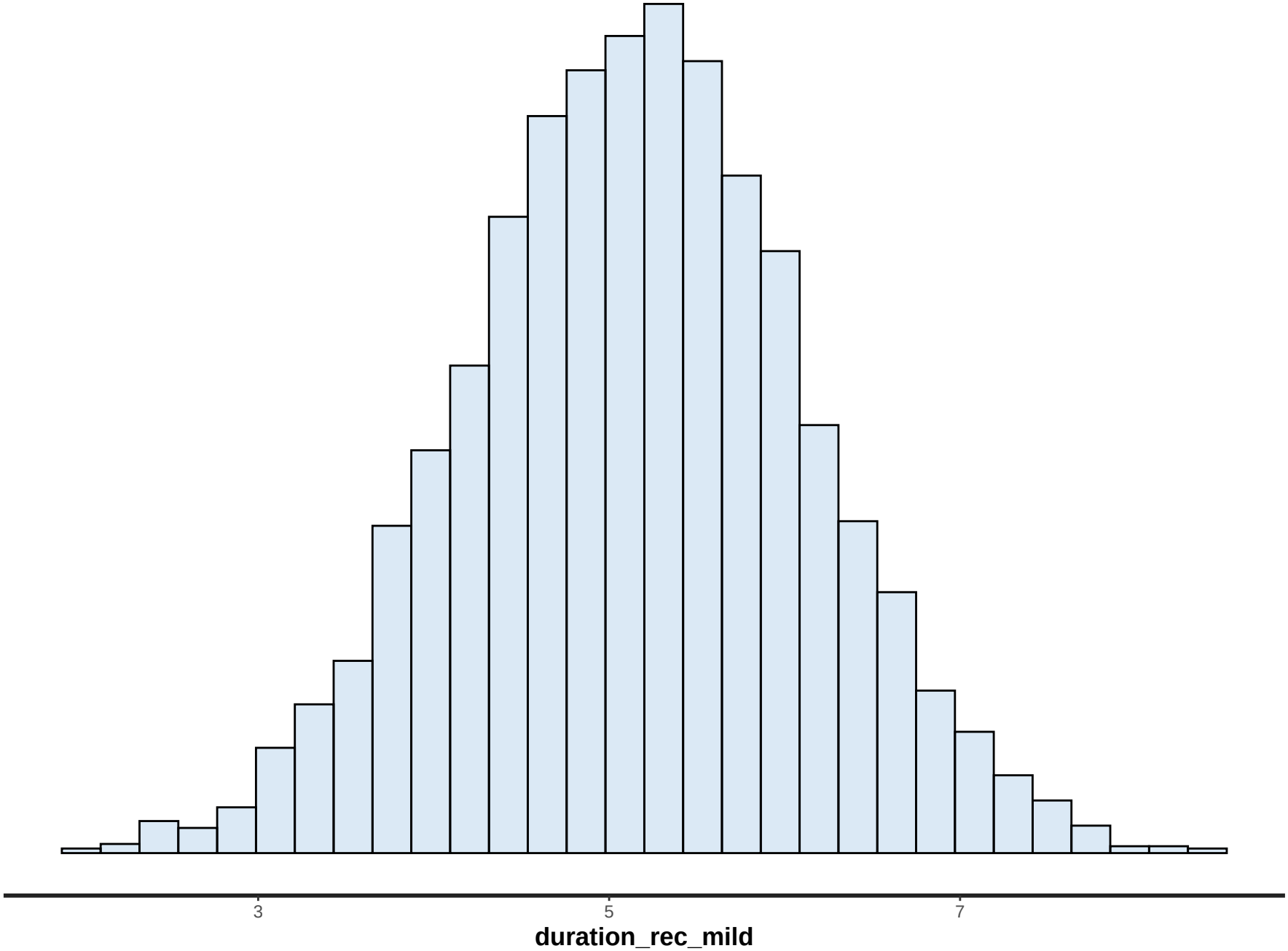
Rt as of 2020−07−18

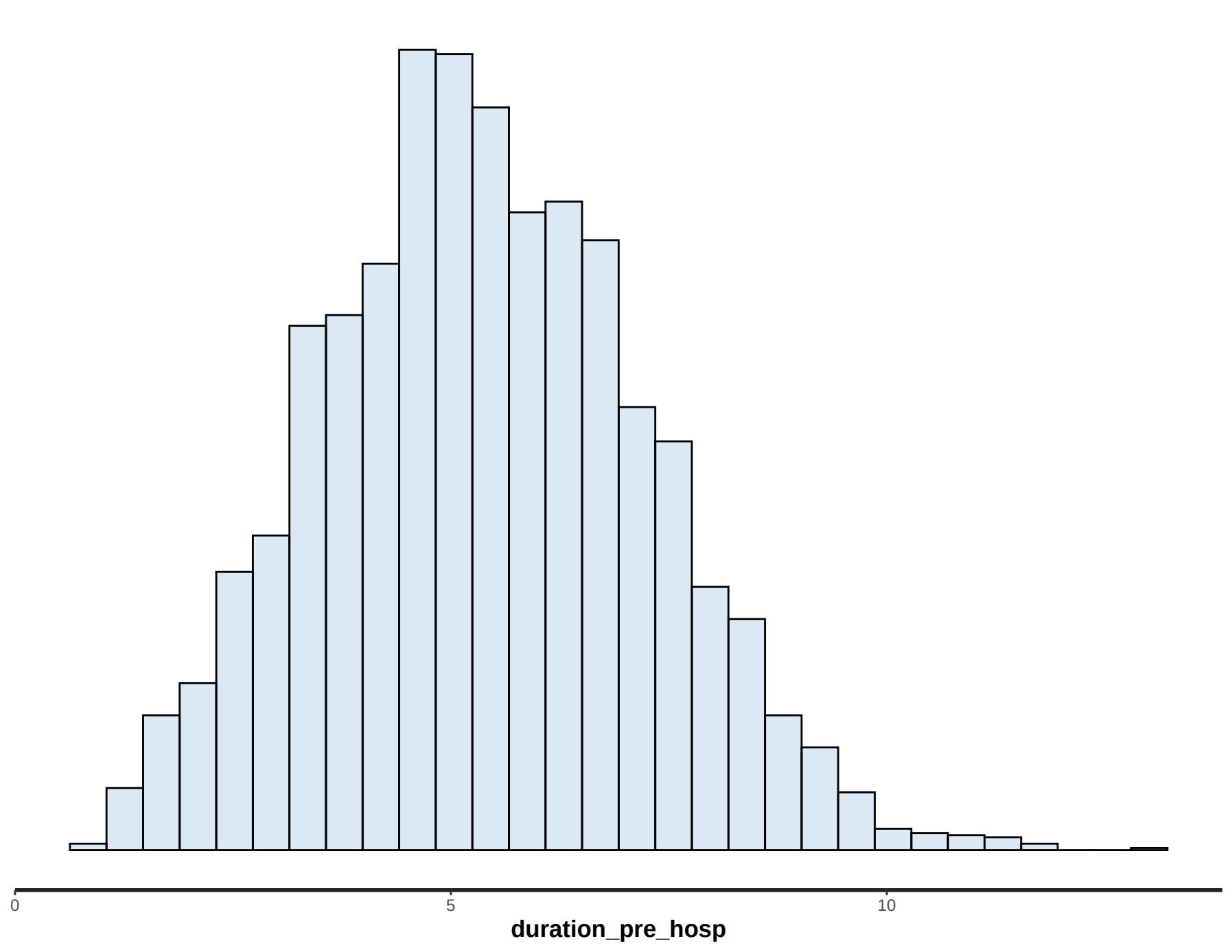
5%	10%	25%	50%	75%	90%	95%
0.72	0.81	0.93	1.03	1.13	1.22	1.27

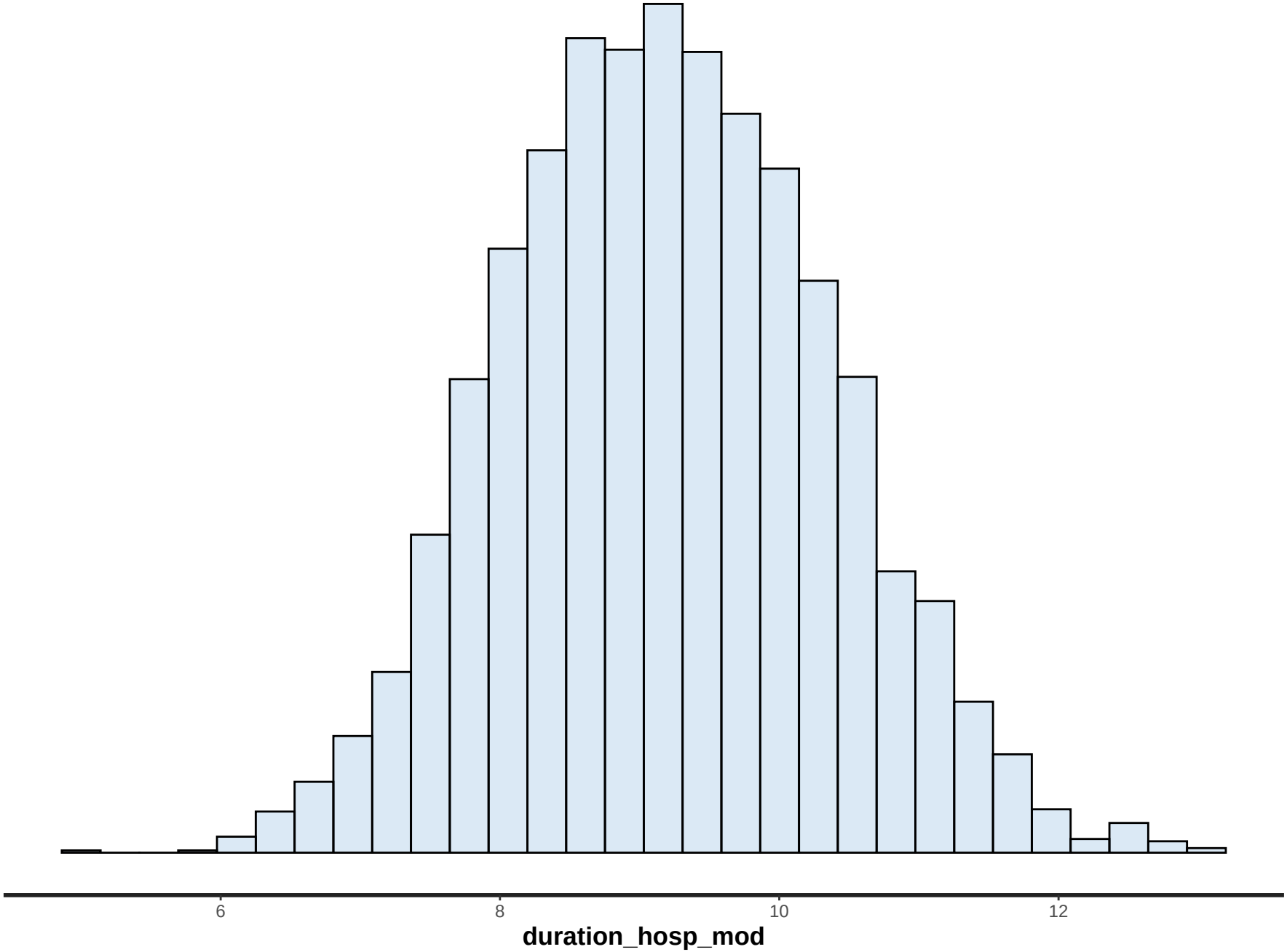


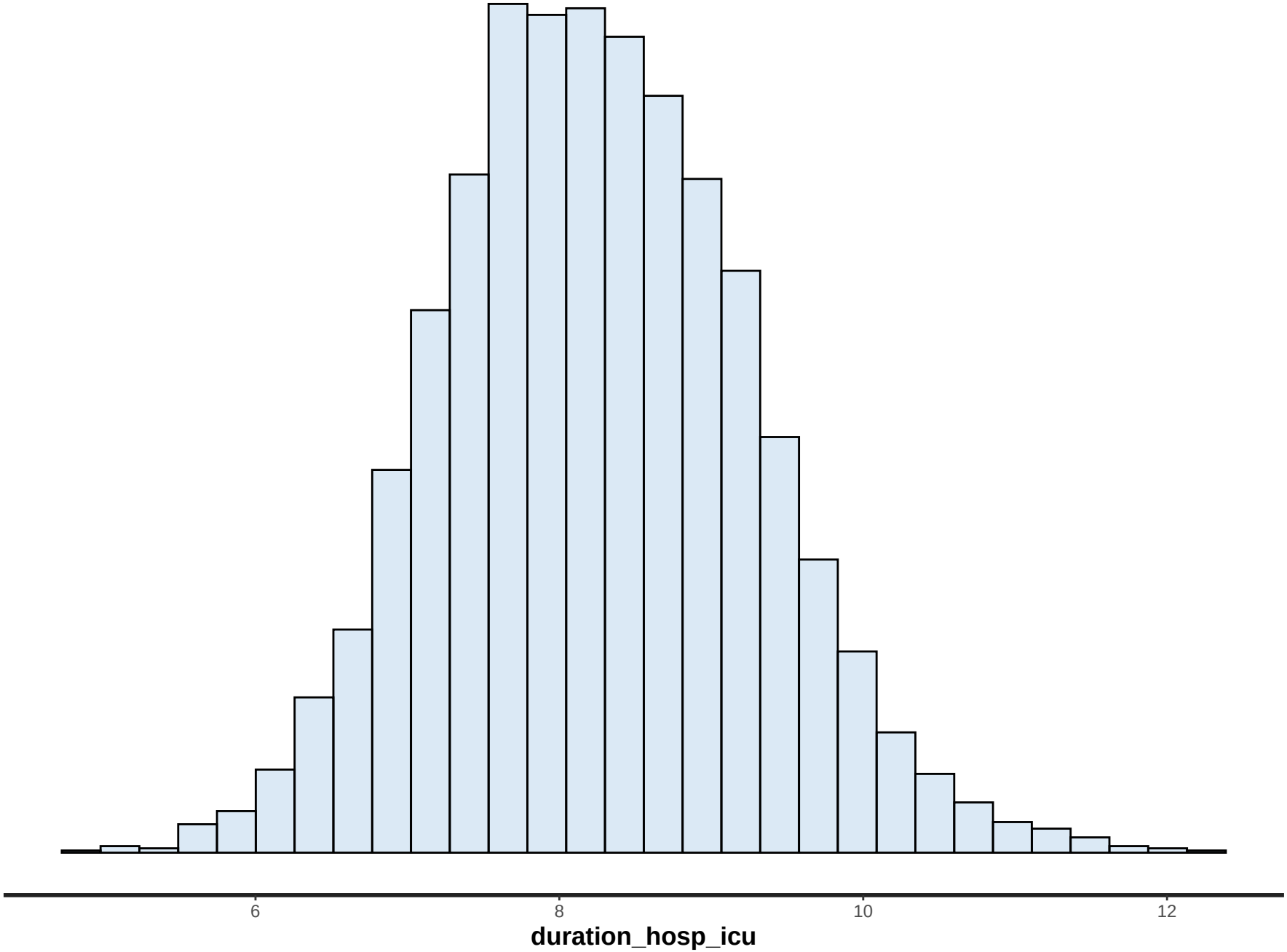

2
3
4
5
r0

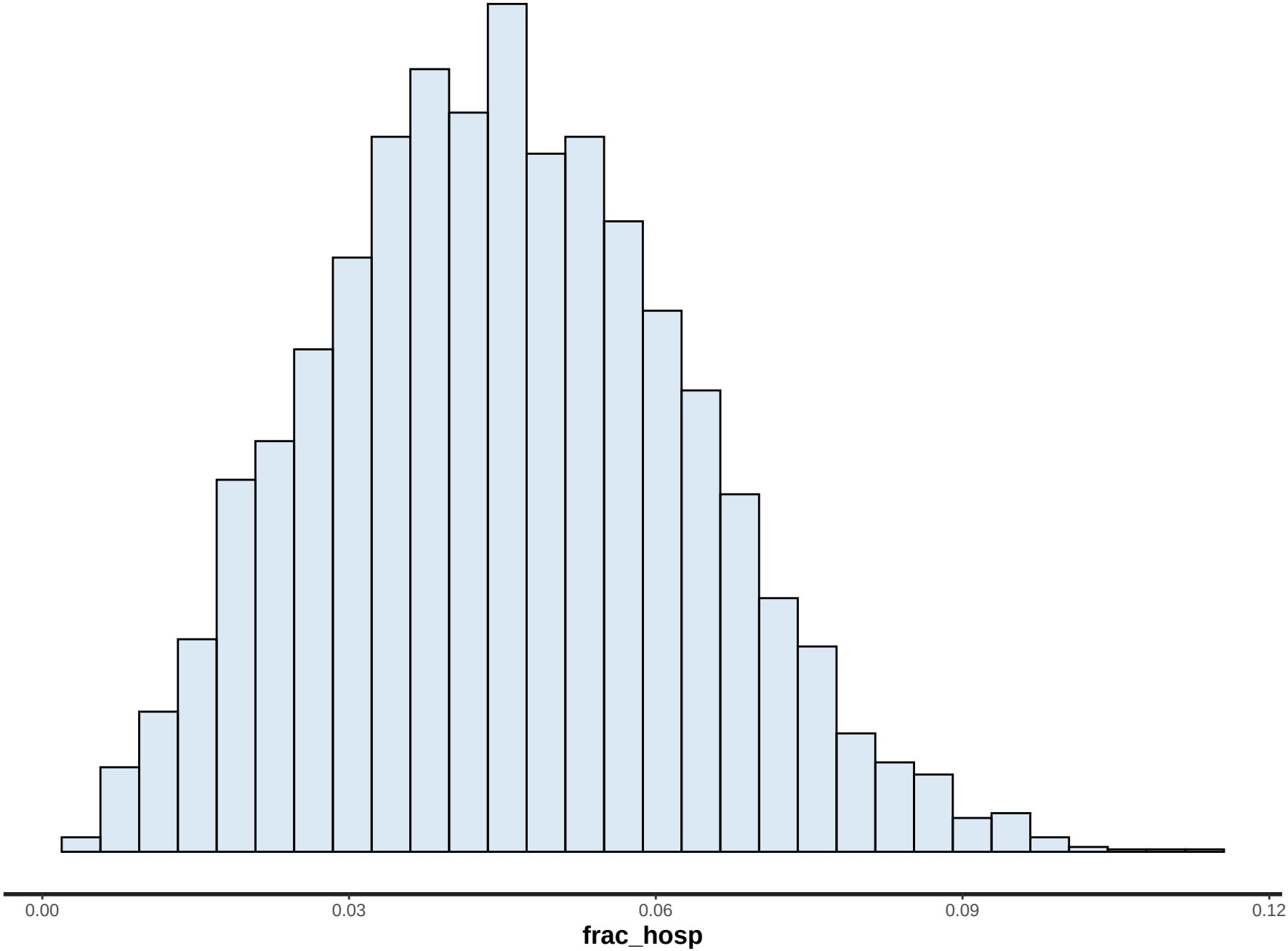

2
4
6
duration_latent

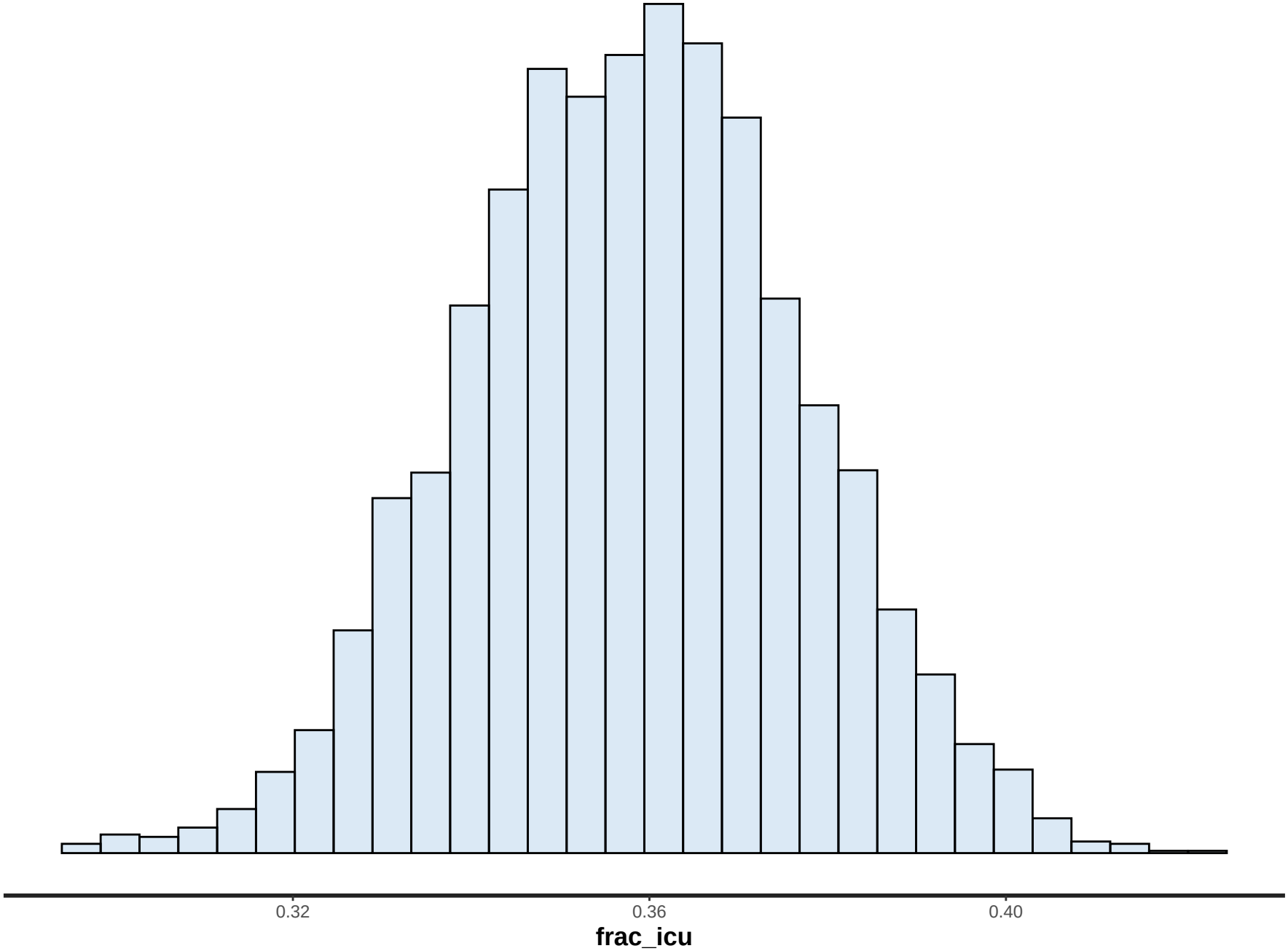

3
5
7
duration_rec_mild

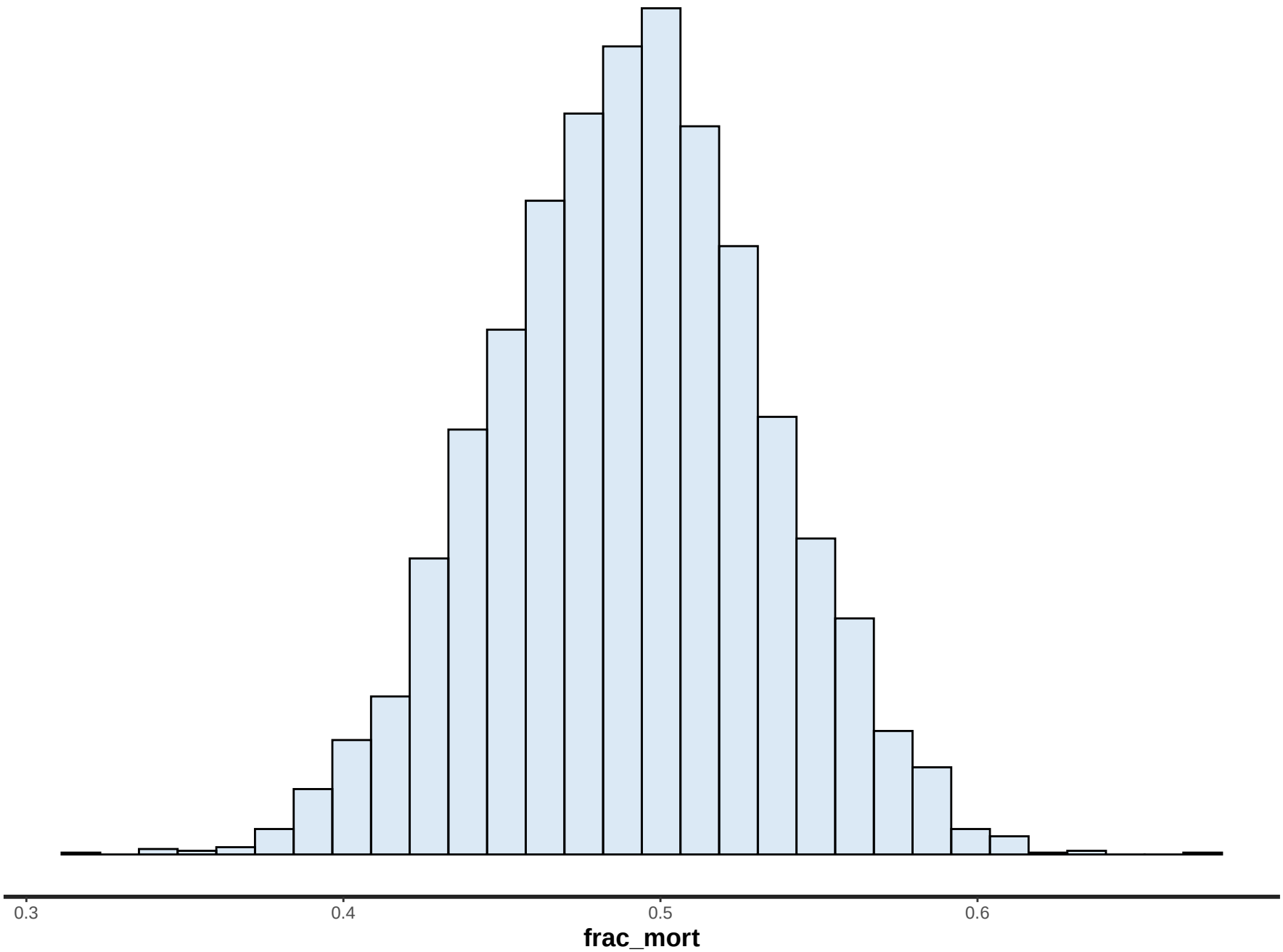

0
5
10
duration_pre_hosp

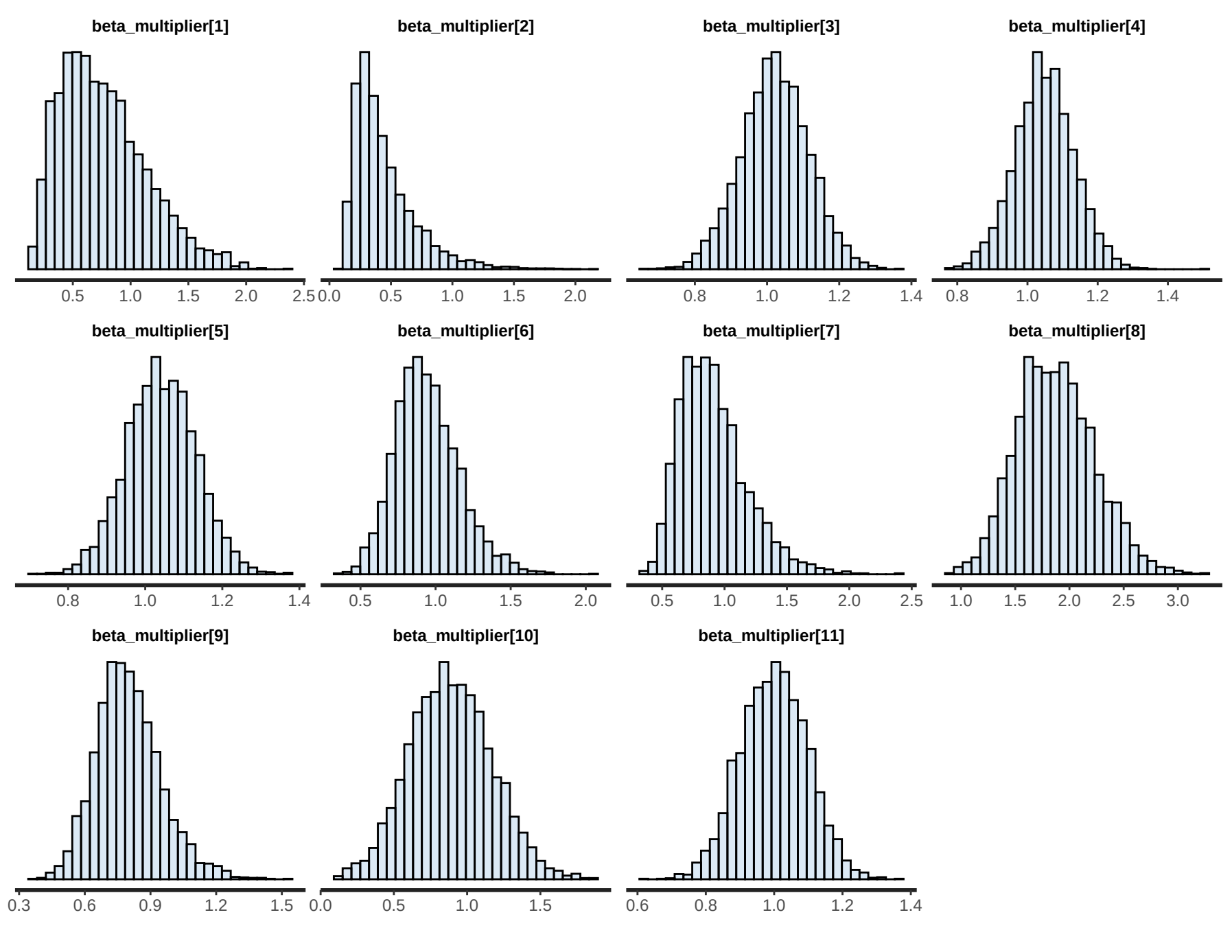

6
8
10
12
duration_hosp_mod

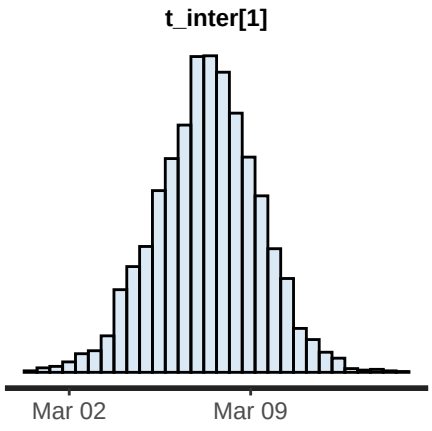

6
8
10
12
duration_hosp_icu


0.00
0.03
0.06
0.09
0.12
frac_hosp


0.32
0.36
0.40
frac_icu


0.3
0.4
0.5
0.6
frac_mort


beta_multiplier[1]
0.5 1.0 1.5 2.0 2.5
beta_multiplier[2]
0.0 0.5 1.0 1.5 2.0
beta_multiplier[3]
0.8 1.0 1.2 1.4
beta_multiplier[4]
0.8 1.0 1.2 1.4
beta_multiplier[5]
0.8 1.0 1.2 1.4
beta_multiplier[6]
0.5 1.0 1.5 2.0
beta_multiplier[7]
0.5 1.0 1.5 2.0 2.5
beta_multiplier[8]
1.0 1.5 2.0 2.5 3.0
beta_multiplier[9]
0.3 0.6 0.9 1.2 1.5
beta_multiplier[10]
0.0 0.5 1.0 1.5
beta_multiplier[11]
0.6 0.8 1.0 1.2 1.4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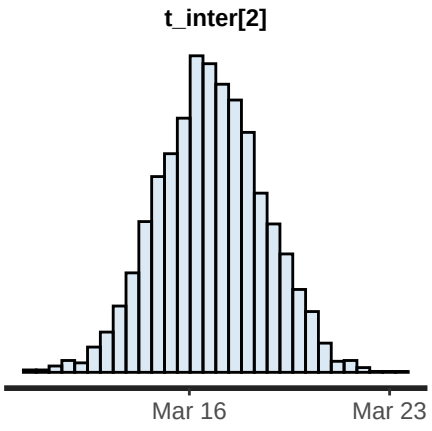
Mar 02
Mar 09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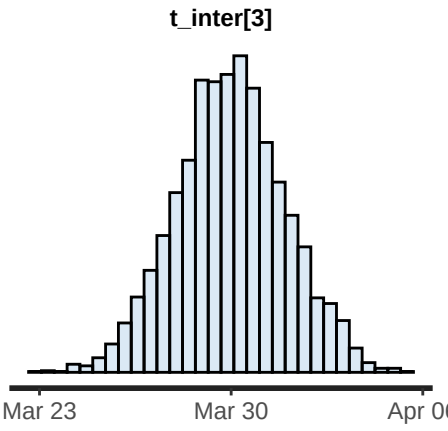
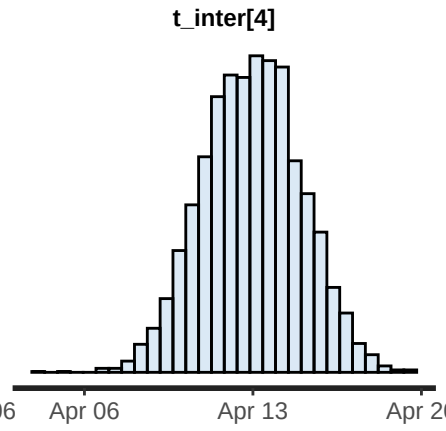
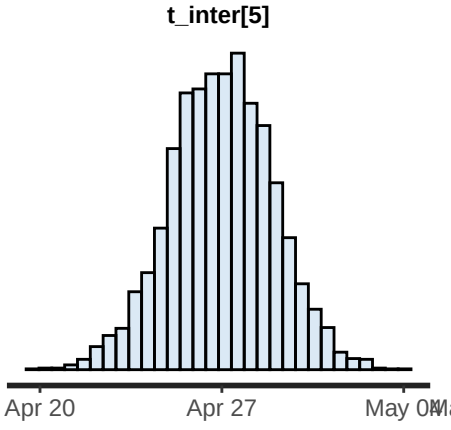
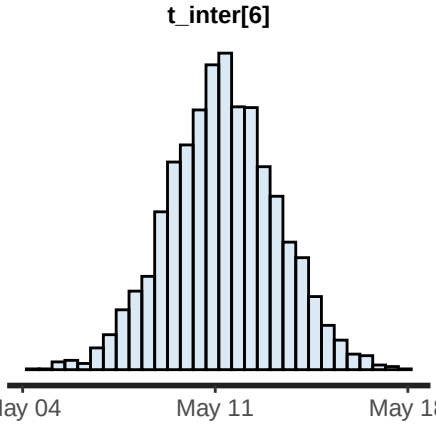
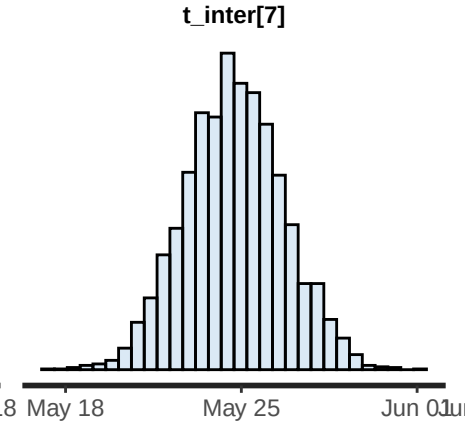
Mar 16
Mar 23

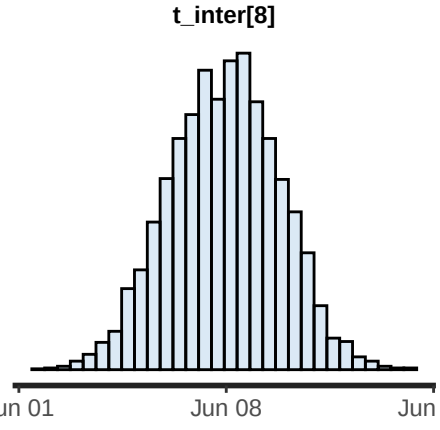

t_inter[3]
Mar 23
Mar 30
Apr 06

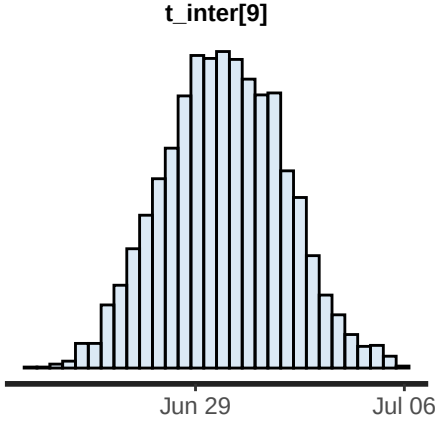

t_inter[4]
Apr 06
Apr 13
Apr 20

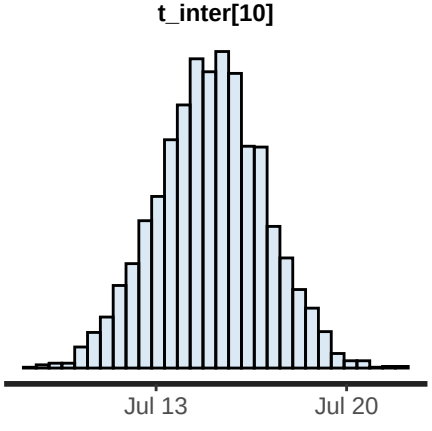

t_inter[5]
Apr 20
Apr 27
May 04

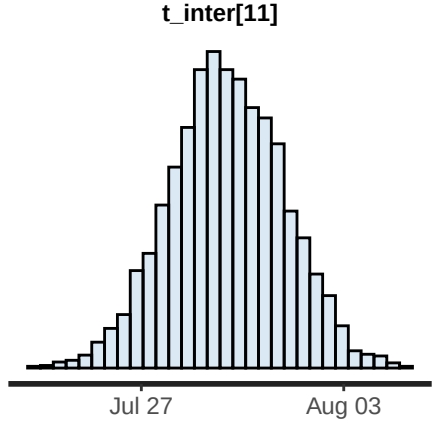

t_inter[6]
May 04
May 11
May 18

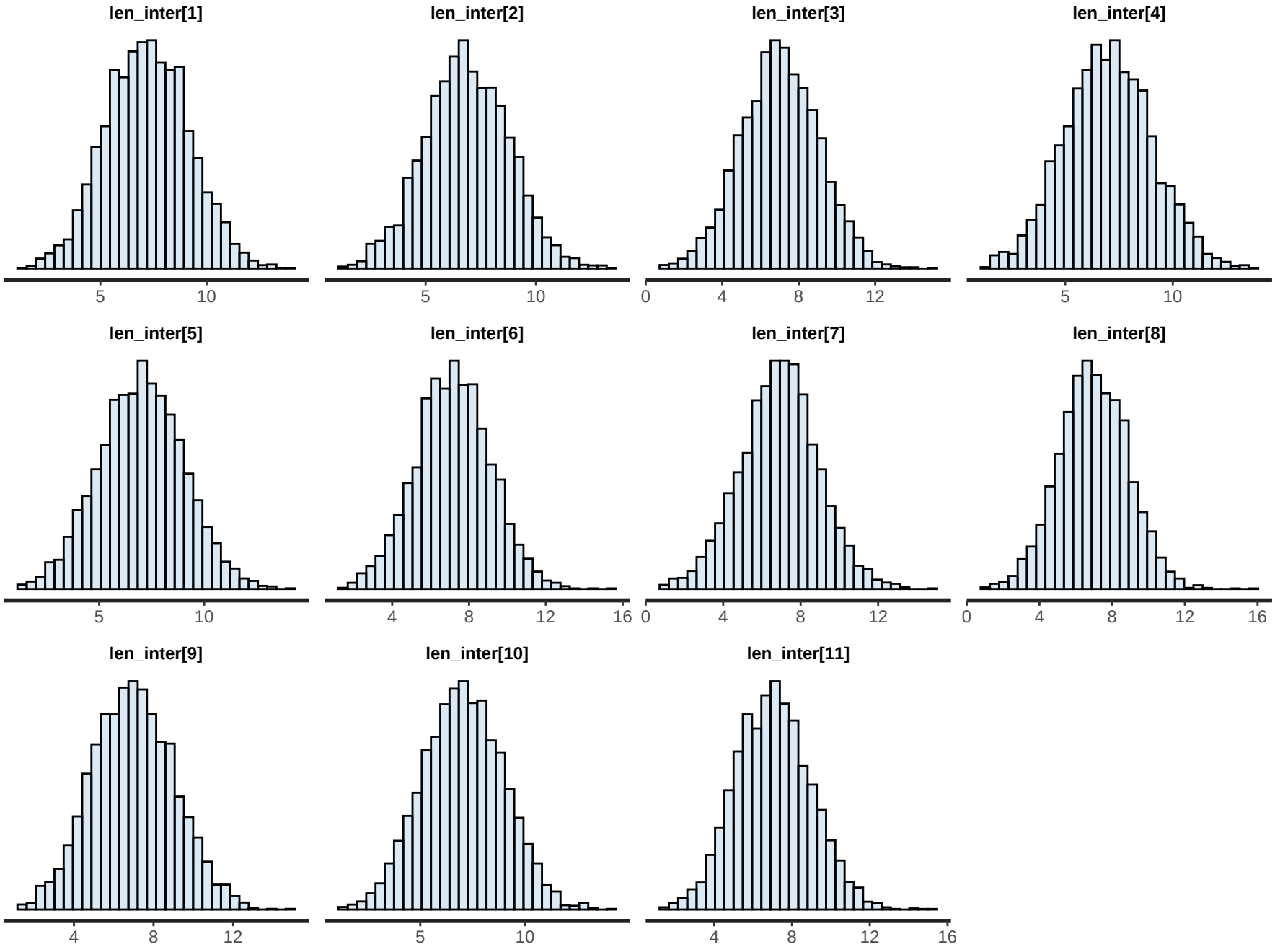

t_inter[7]
May 18
May 25
Jun 01

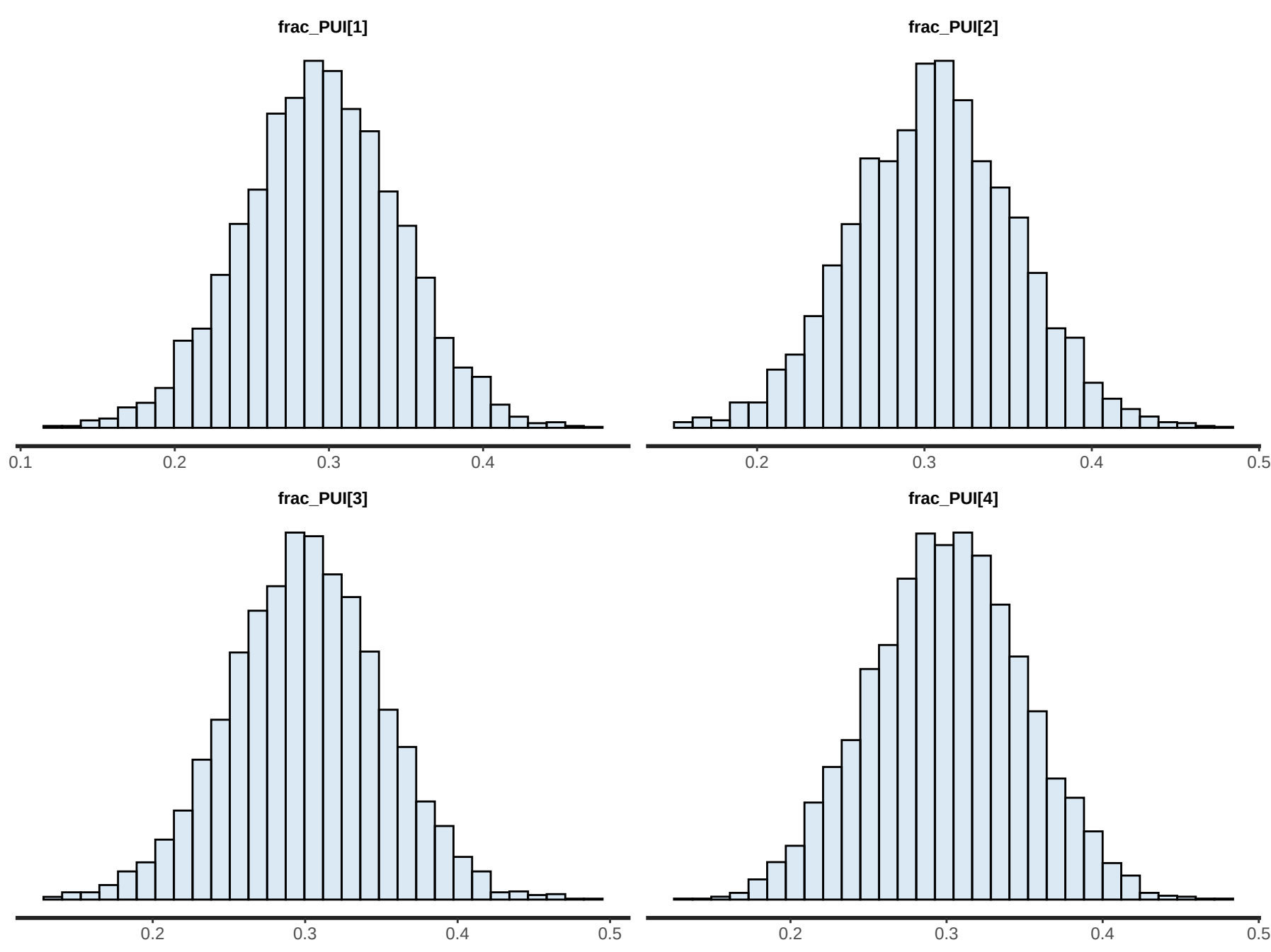

t_inter[8]
Jun 01
Jun 08

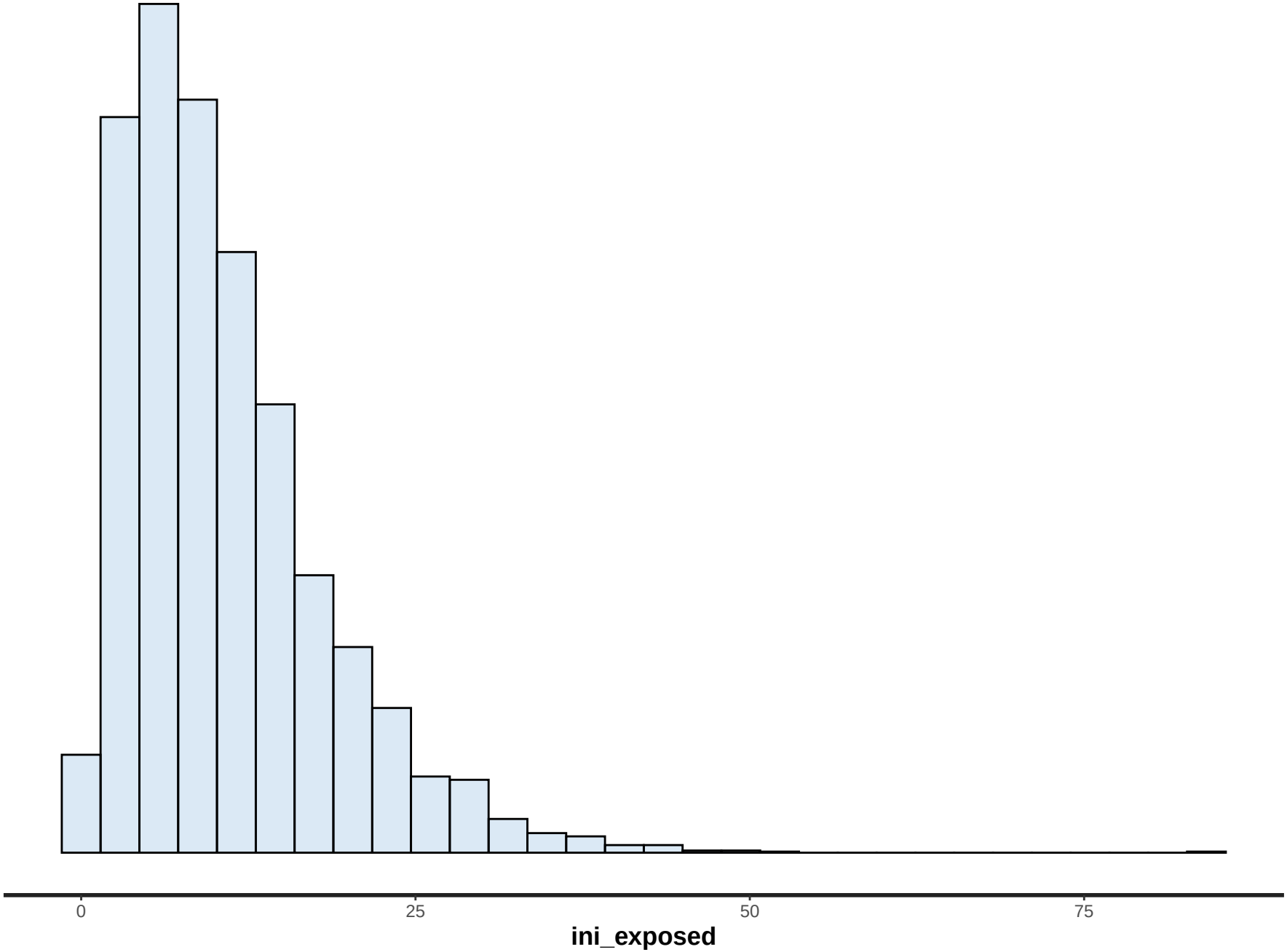

t_inter[9]
Jun 29
Jul 06


t_inter[10]
Jul 13
Jul 20


t_inter[11]
Jul 27
Aug 03


len_inter[1]
5
10
len_inter[2]
5
10
len_inter[3]
0
4
8
12
len_inter[4]
5
10
len_inter[5]
5
10
len_inter[6]
4
8
12
16
len_inter[7]
0
4
8
12
len_inter[8]
0
4
8
12
16
len_inter[9]
4
8
12
len_inter[10]
5
10
len_inter[11]
4
8
12
16


frac_PUI[1]
0.1
0.2
0.3
0.4
frac_PUI[2]
0.2
0.3
0.4
0.5
frac_PUI[3]
0.2
0.3
0.4
0.5
frac_PUI[4]
0.2
0.3
0.4
0.5


0
25
50
75
ini_exposed