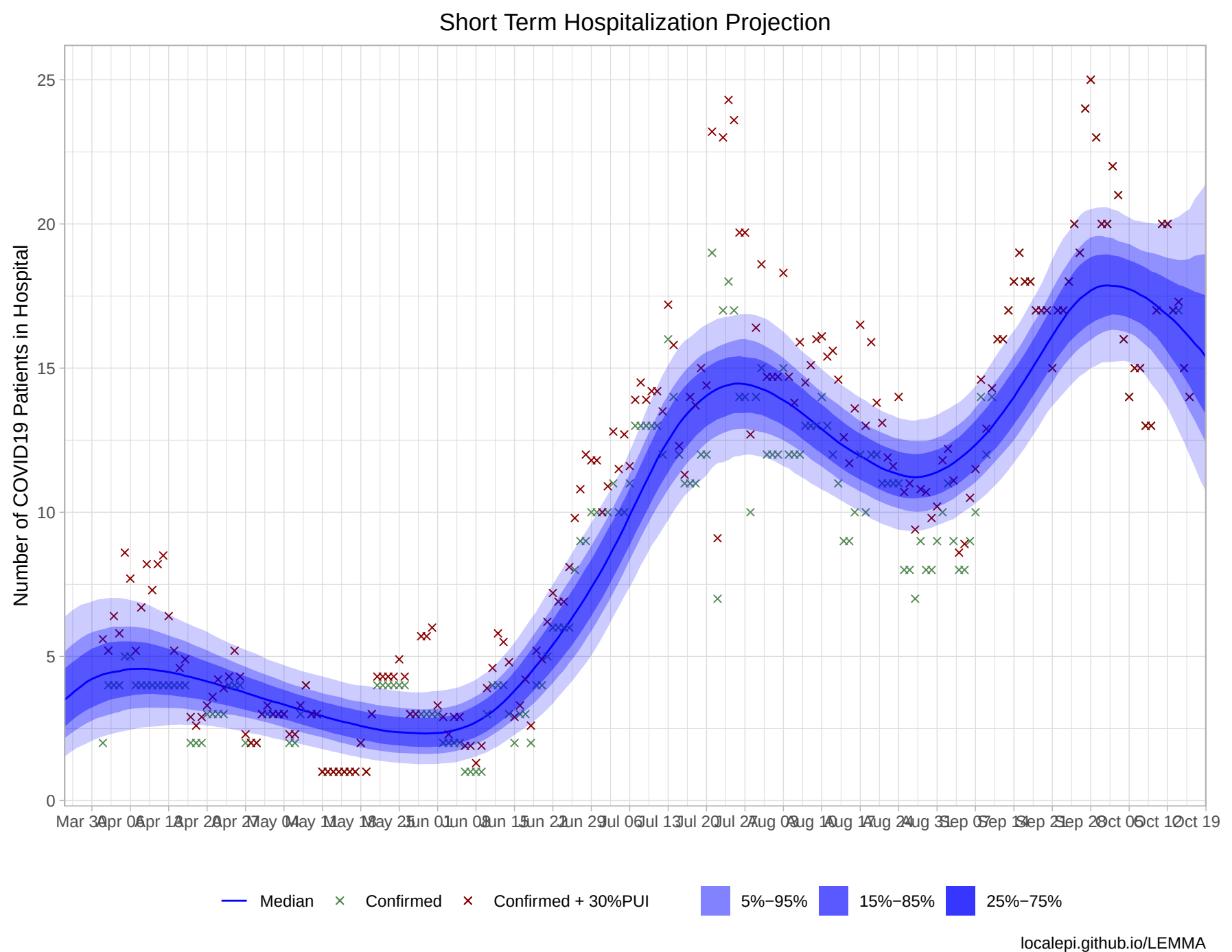
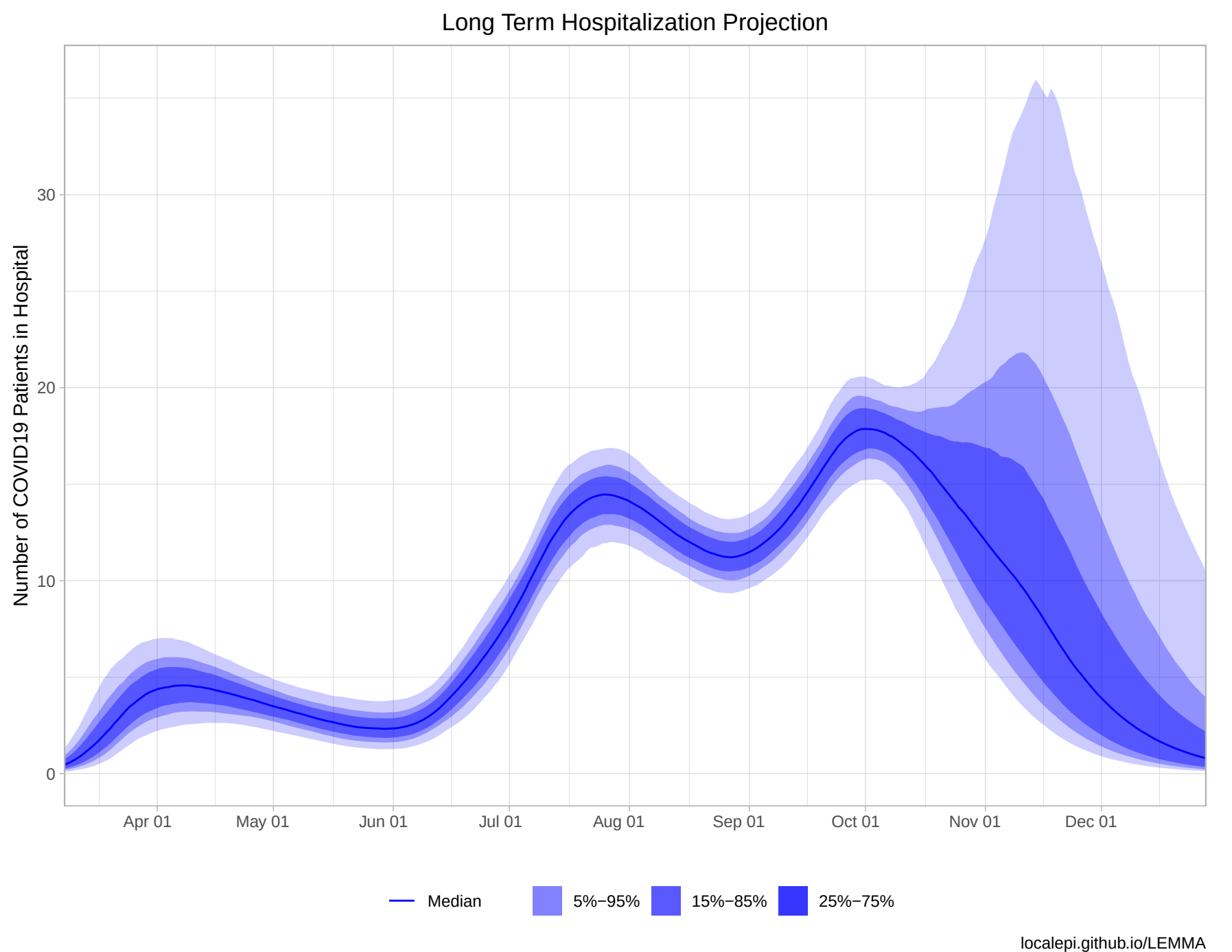
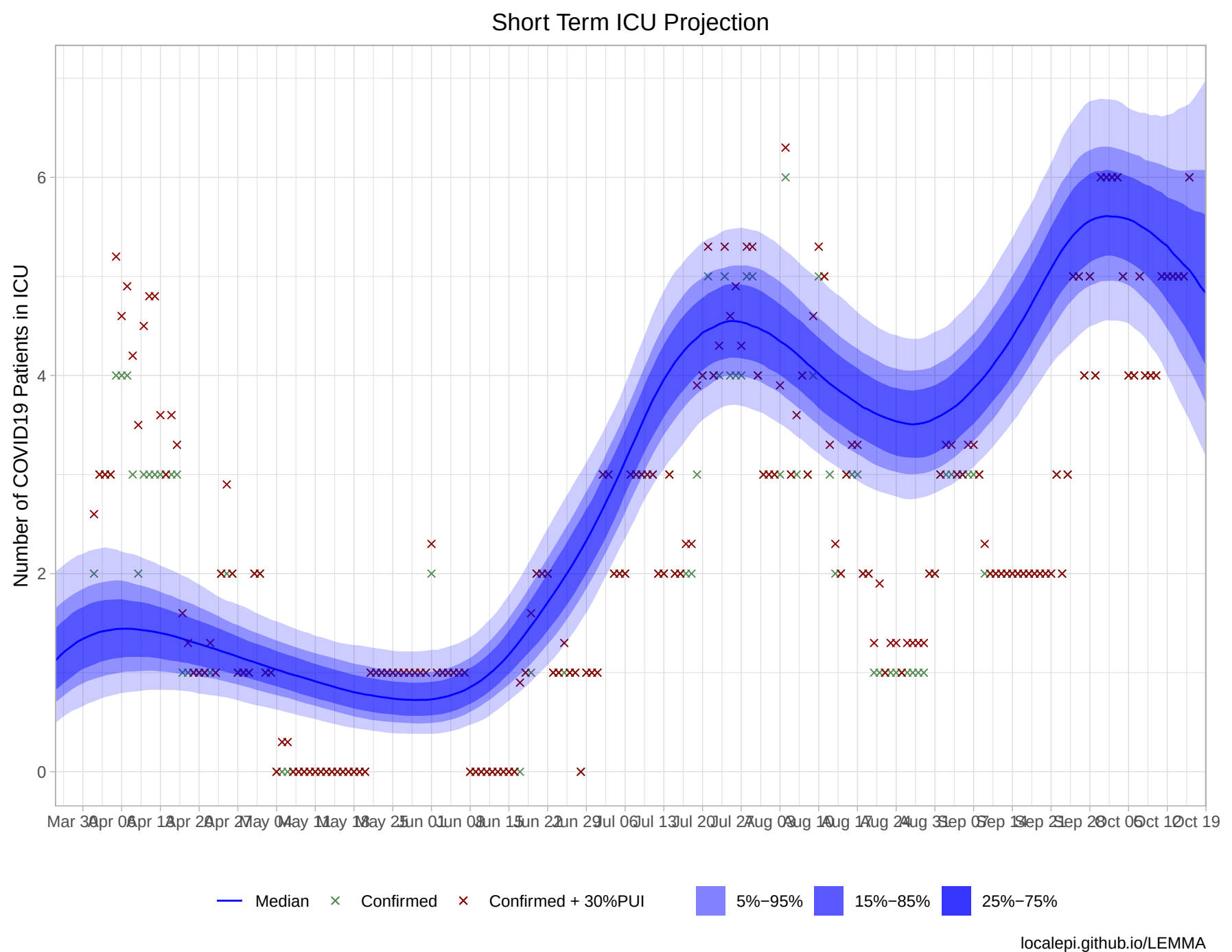
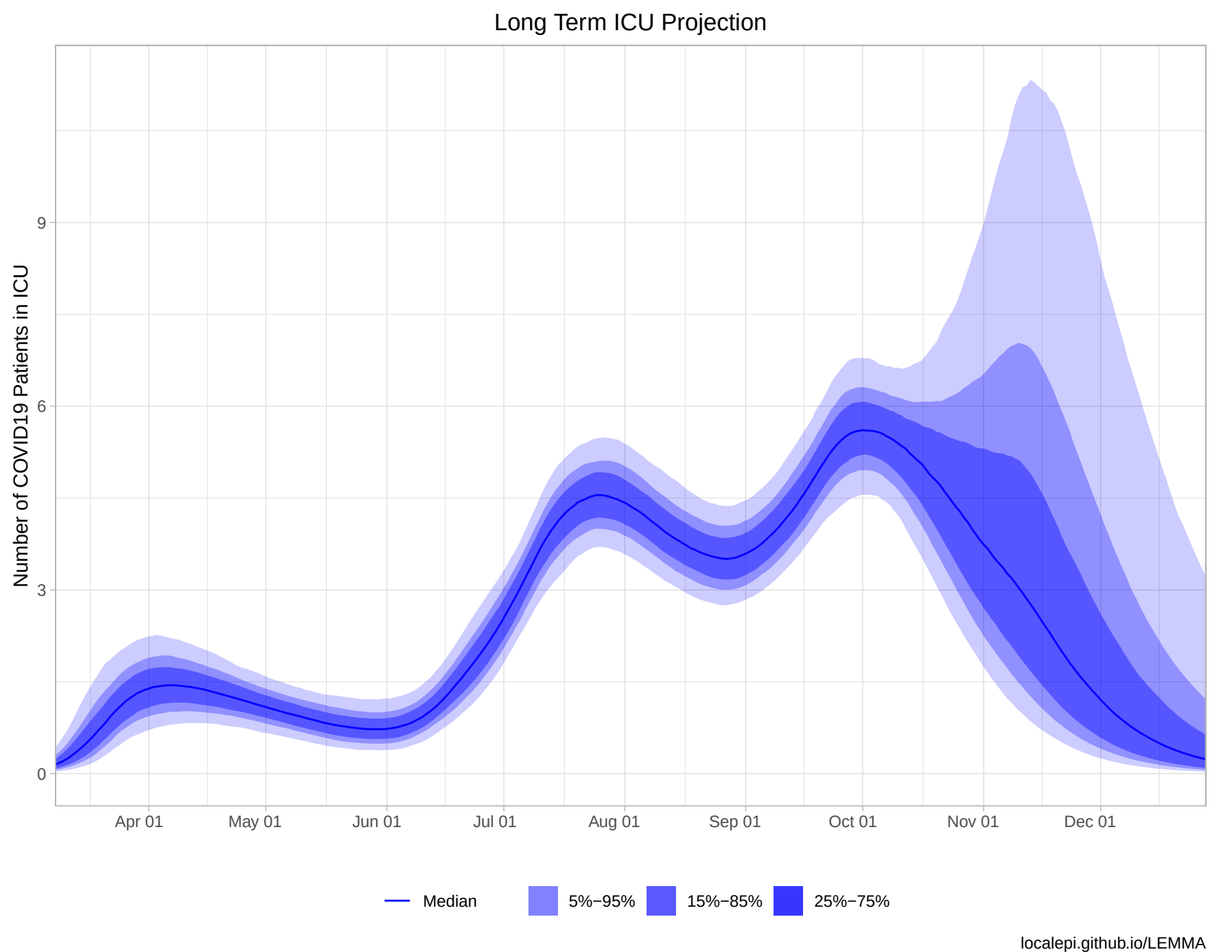
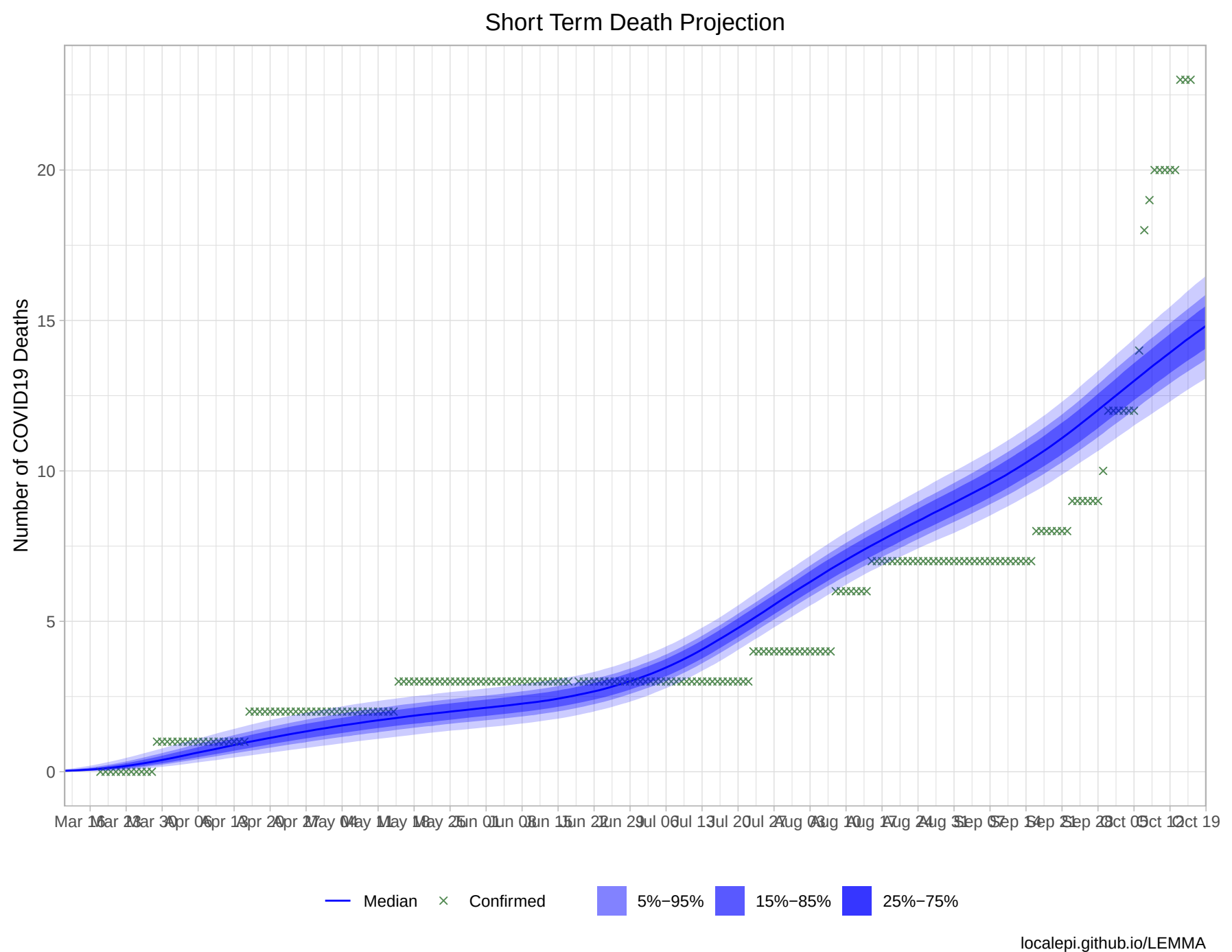
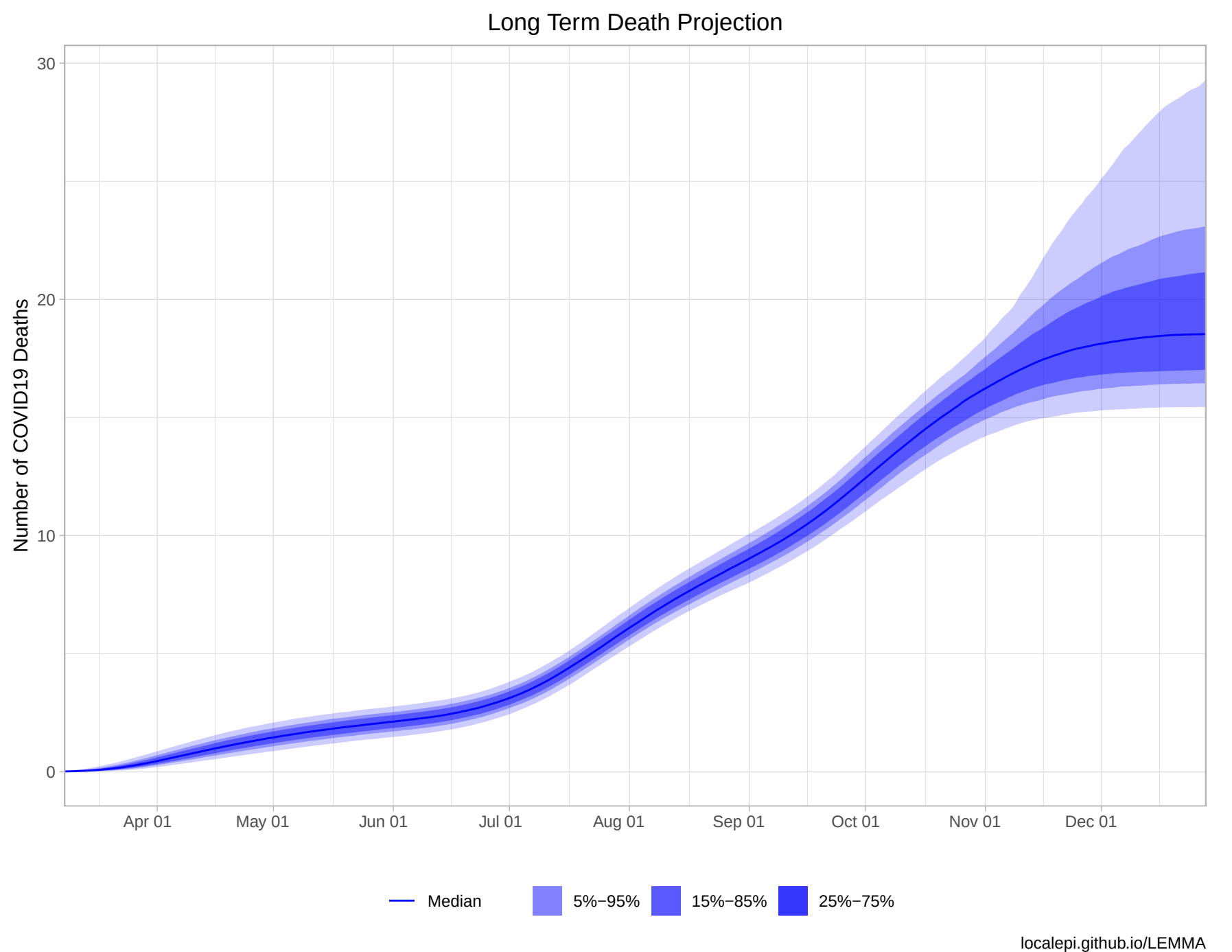

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
5
10
15
20
25
Mar 30
Apr 06
Apr 13
Apr 20
Apr 27
May 04
May 11
May 18
May 25
Jun 01
Jun 08
Jun 15
Jun 22
Jun 29
Jul 06
Jul 13
Jul 20
Jul 27
Aug 03
Aug 10
Aug 17
Aug 24
Aug 31
Sep 07
Sep 14
Sep 21
Sep 28
Oct 05
Oct 12
Oct 19
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

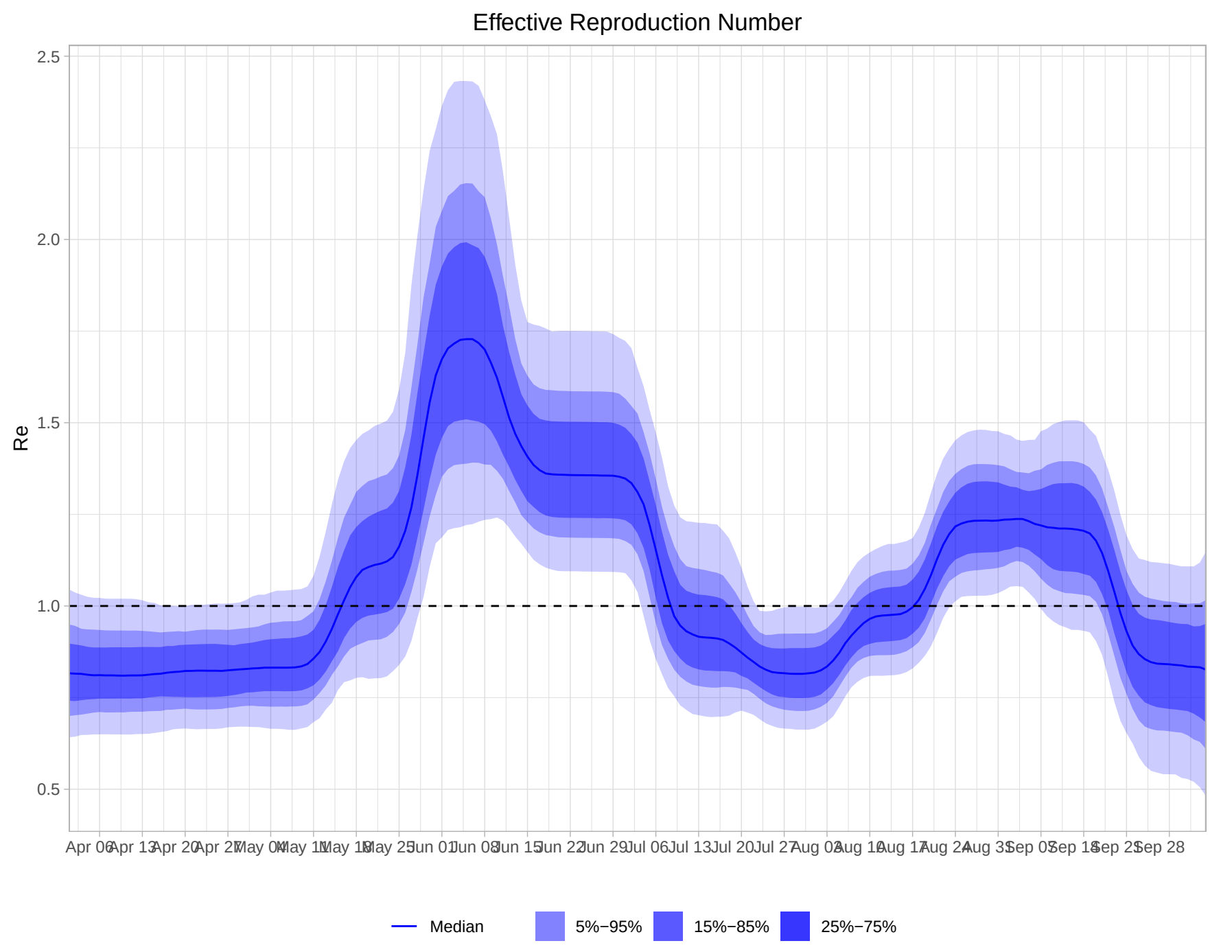

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
10
20
30
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


Short Term ICU Projection
Number of COVID19 Patients in ICU
0
2
4
6
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
Aug 03
Aug 10
Aug 17
Aug 24
Aug 31
Sep 07
Sep 14
Sep 21
Sep 28
Oct 05
Oct 12
Oct 19
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
3
6
9
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

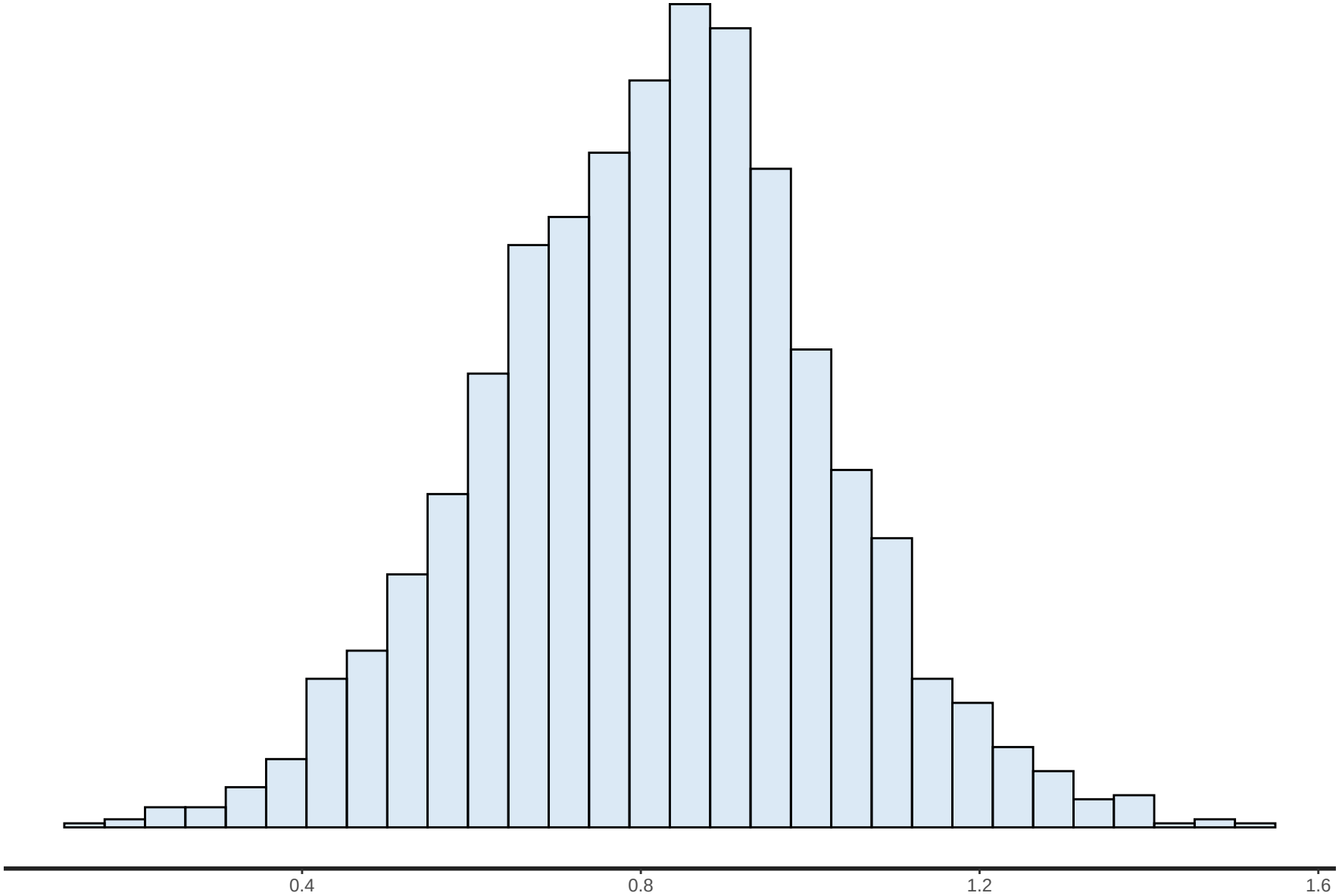

Short Term Death Projection
Number of COVID19 Deaths
0
5
10
15
20
Mar 16
Mar 23
Mar 30
Apr 06
Apr 13
Apr 20
Apr 27
May 04
May 11
May 18
May 25
Jun 01
Jun 08
Jun 15
Jun 22
Jun 29
Jul 06
Jul 13
Jul 20
Jul 27
Aug 03
Aug 10
Aug 17
Aug 24
Aug 31
Sep 07
Sep 14
Sep 21
Sep 28
Oct 05
Oct 12
Oct 19
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

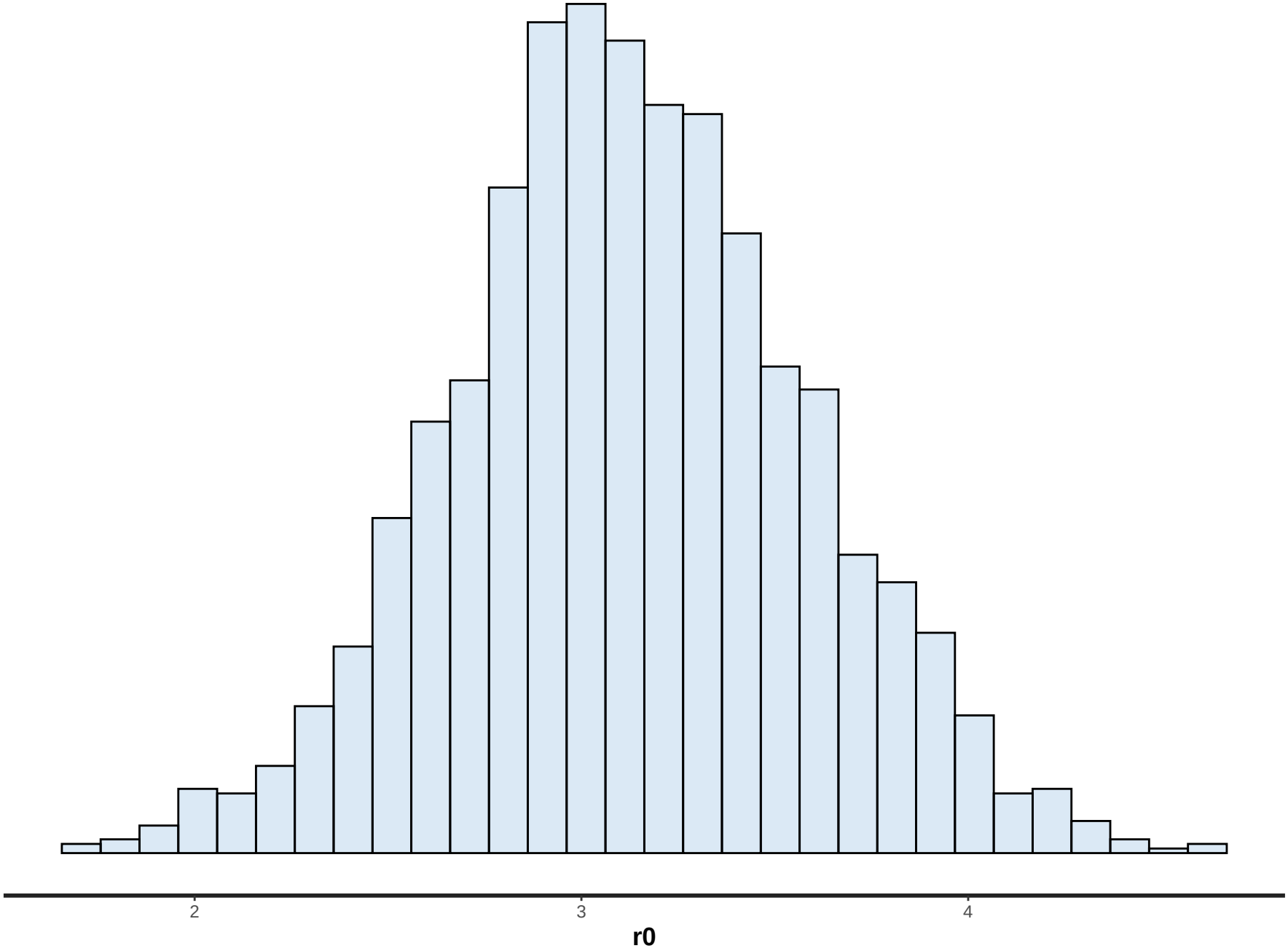

Long Term Death Projection
Number of COVID19 Deaths
30
20
10
0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

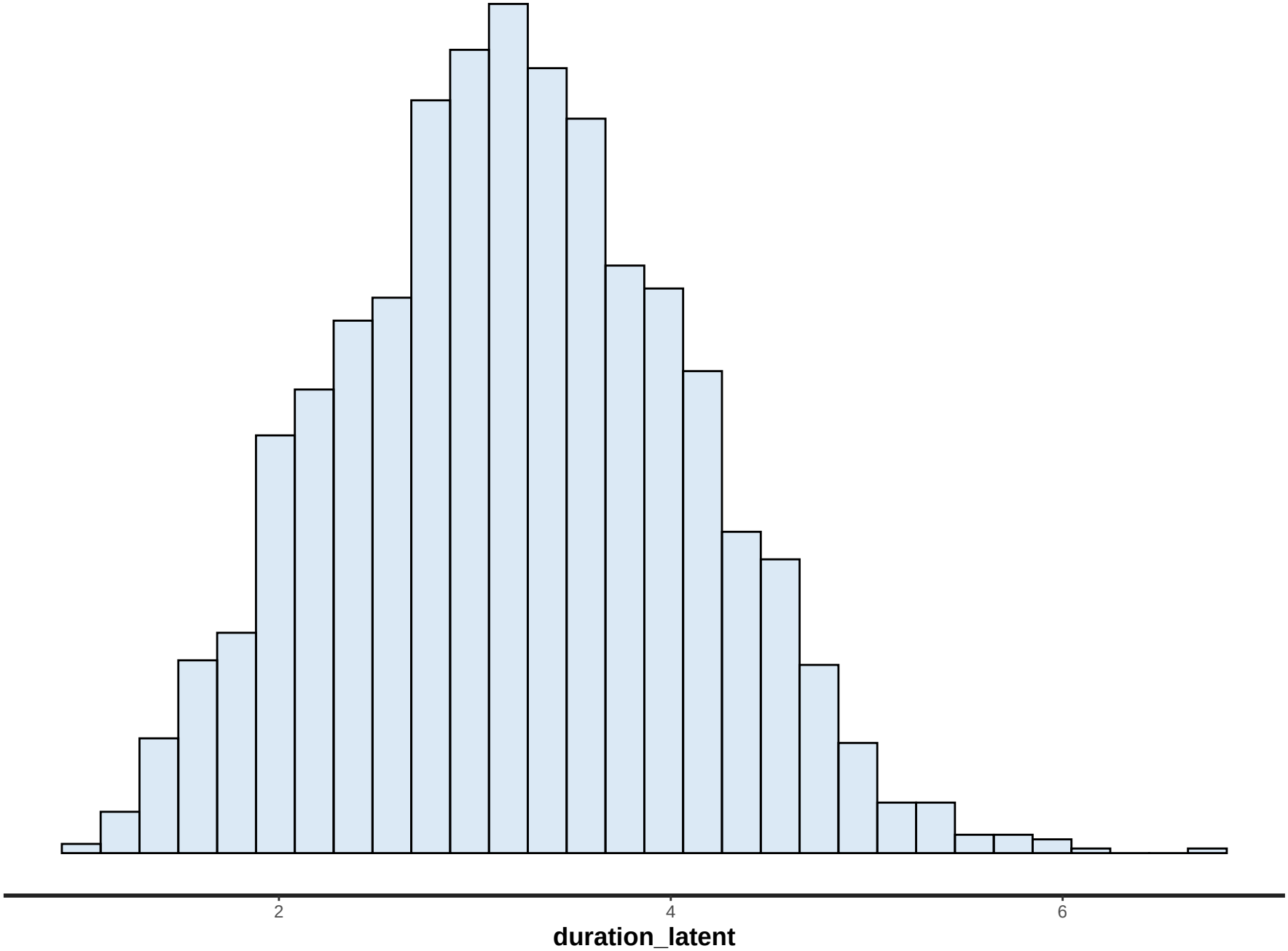

Effective Reproduction Number
Re
2.5
2.0
1.5
1.0
0.5
Apr 06
Apr 13
Apr 20
Apr 27
May 04
May 11
May 18
May 25
Jun 01
Jun 08
Jun 15
Jun 22
Jun 29
Jul 06
Jul 13
Jul 20
Jul 27
Aug 03
Aug 10
Aug 17
Aug 24
Aug 31
Sep 07
Sep 14
Sep 21
Sep 28
Median
5%−95%
15%−85%
25%−75%

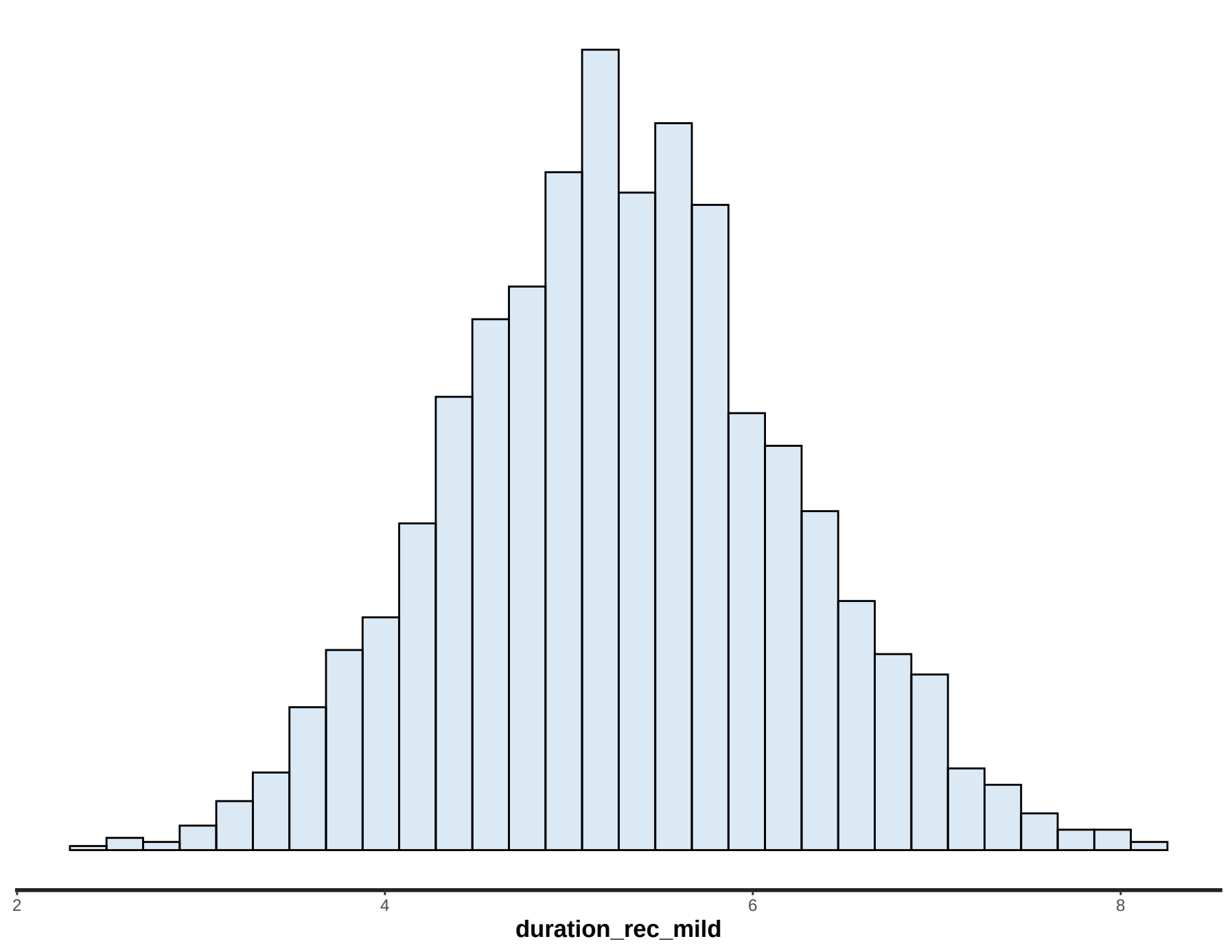
Rt as of 2020−10−04

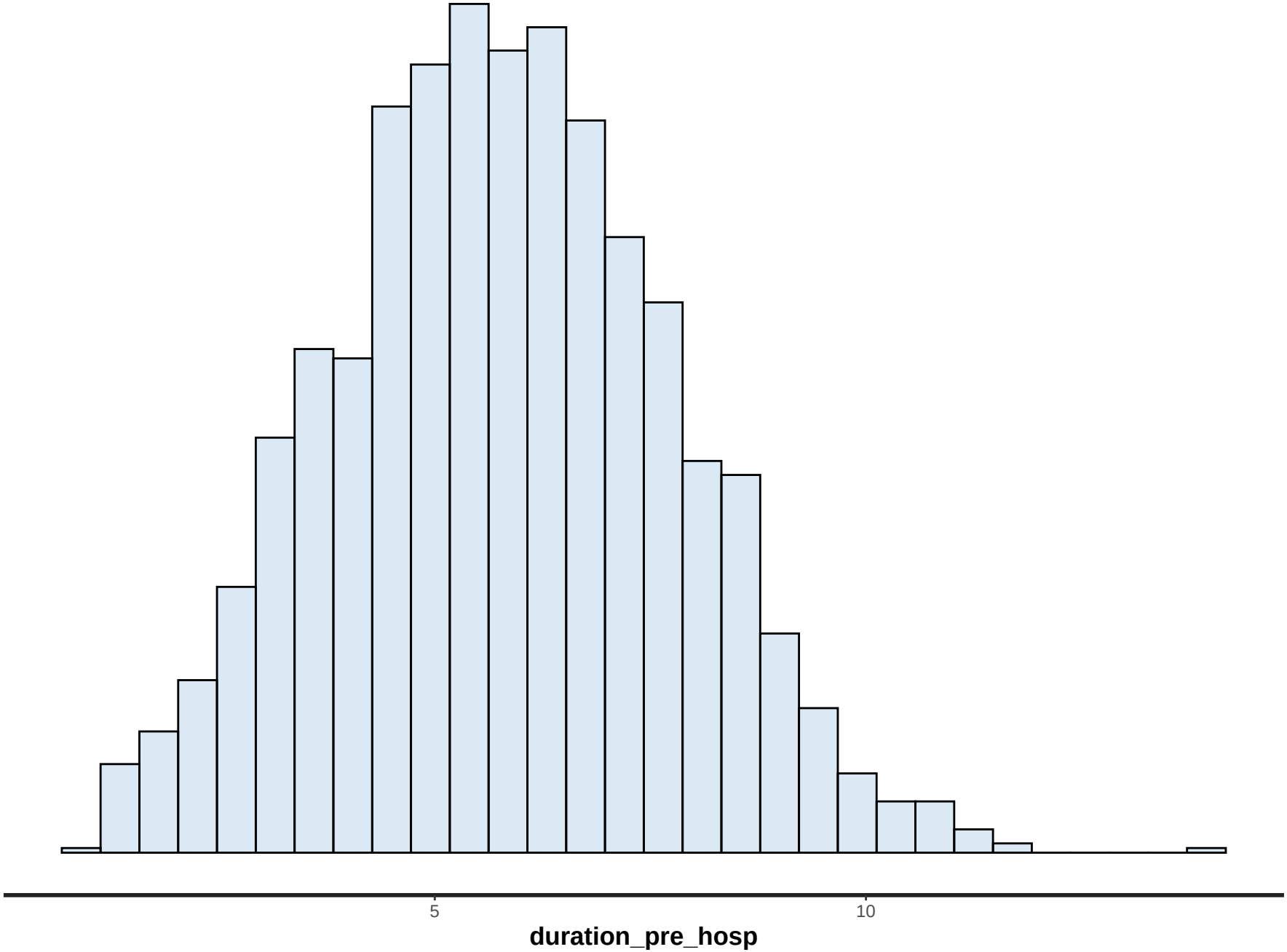
5%	10%	25%	50%	75%	90%	95%
0.48	0.56	0.68	0.83	0.95	1.07	1.15

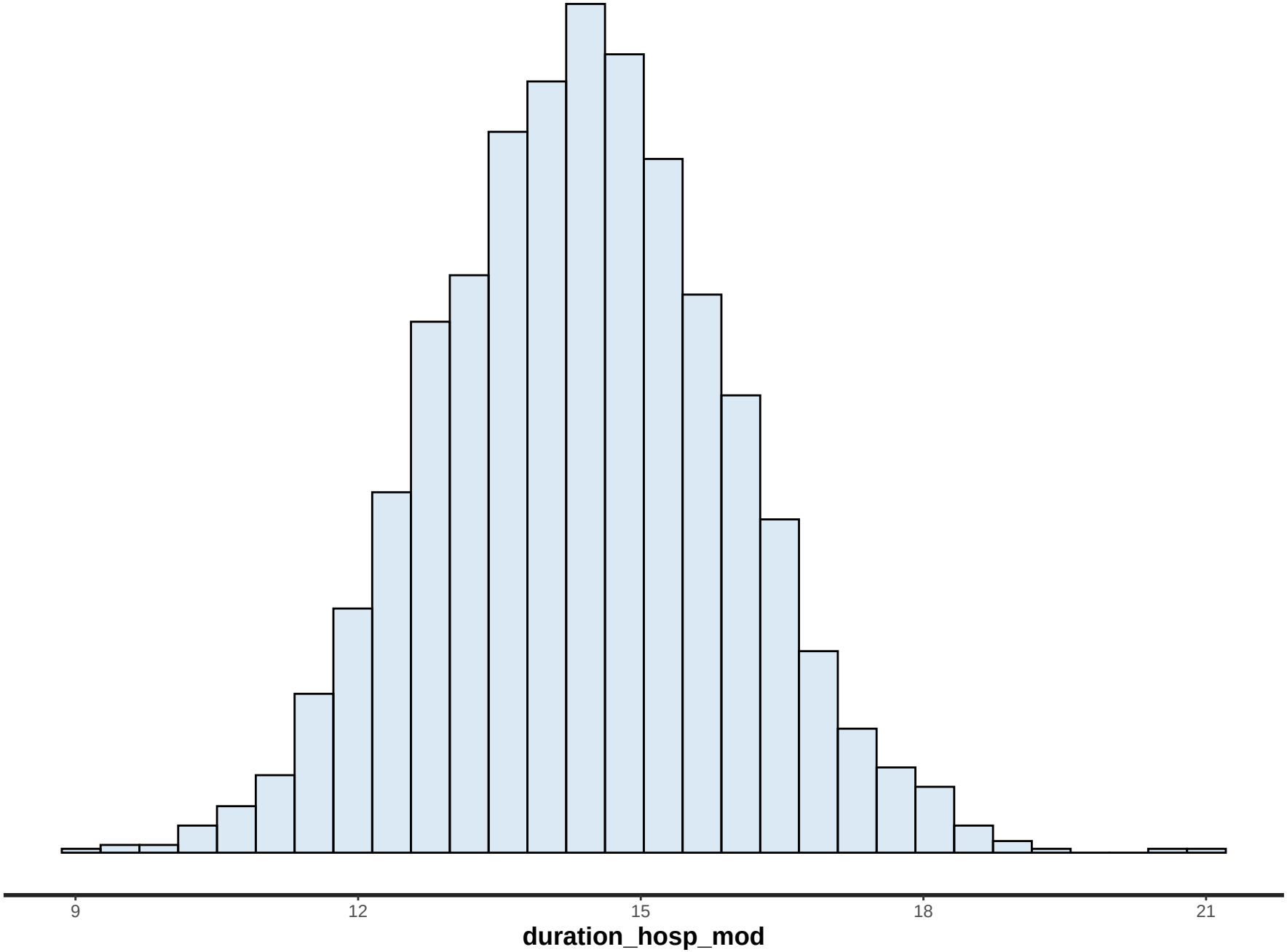


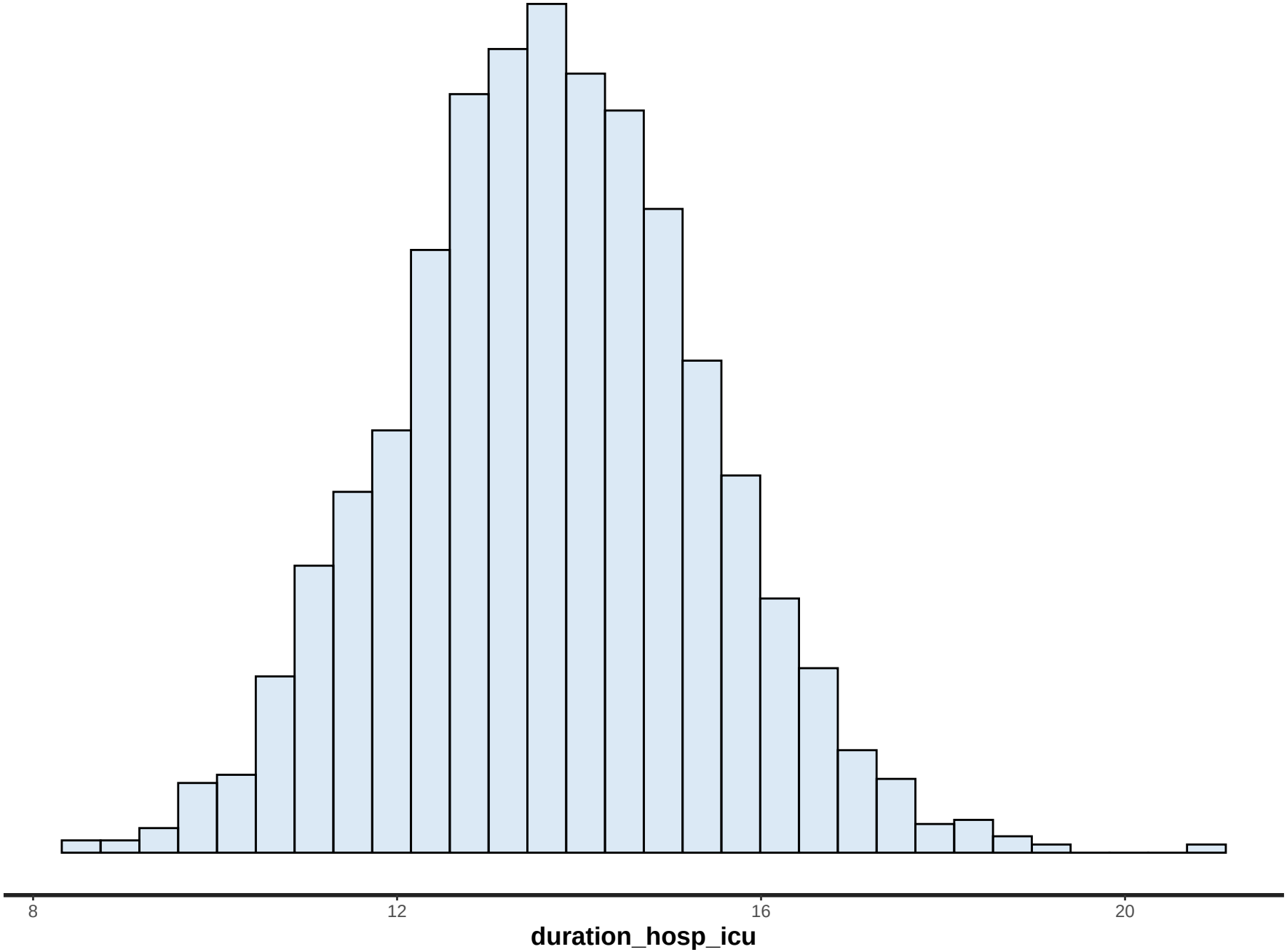

2
3
4
r0

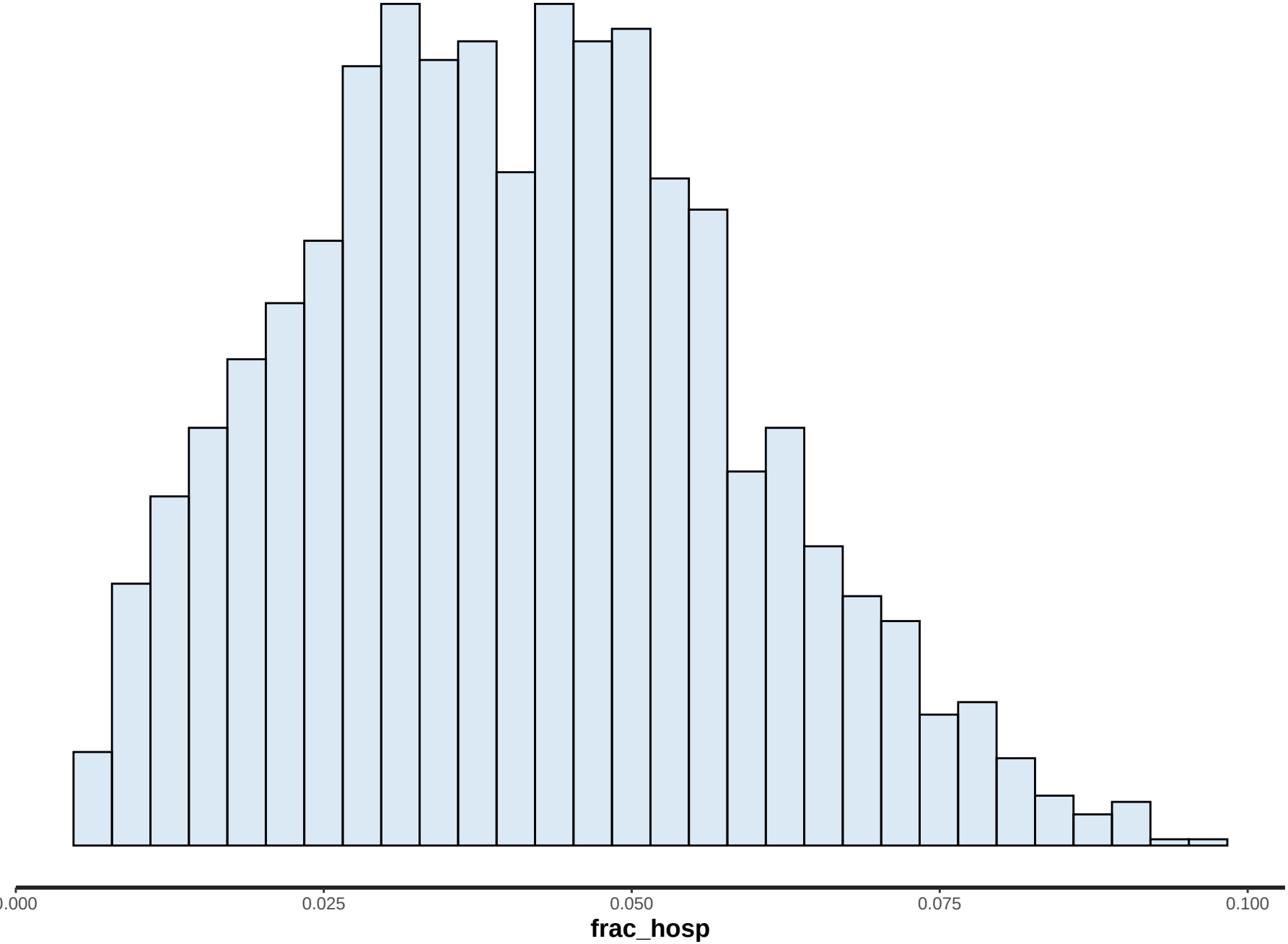

2
4
6
duration_latent


2
4
6
8
duration_rec_mild


5
10
duration_pre_hosp


9
12
15
18
21
duration_hosp_mod


8
12
16
20
duration_hosp_icu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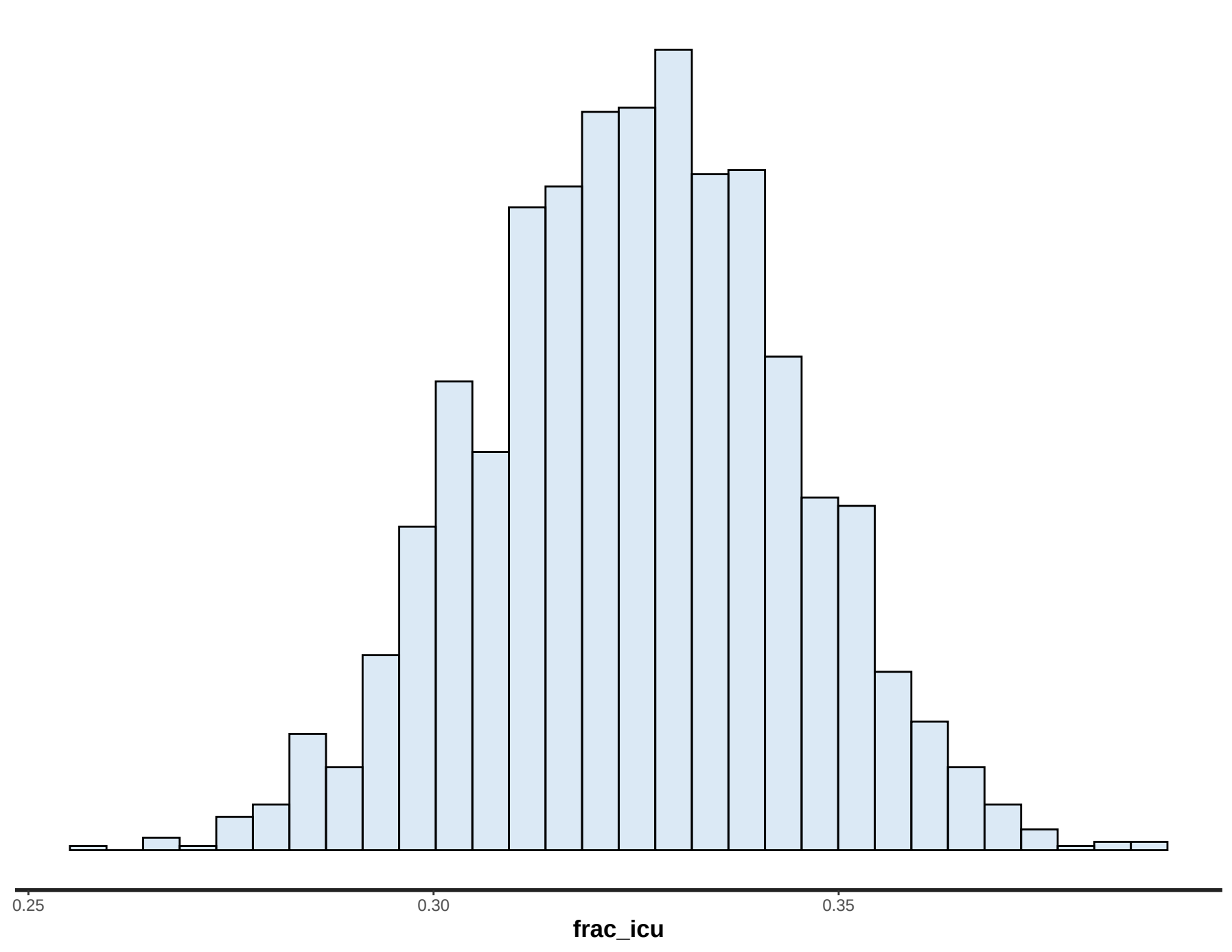
0.025
0.050
0.075
0.100
frac_hosp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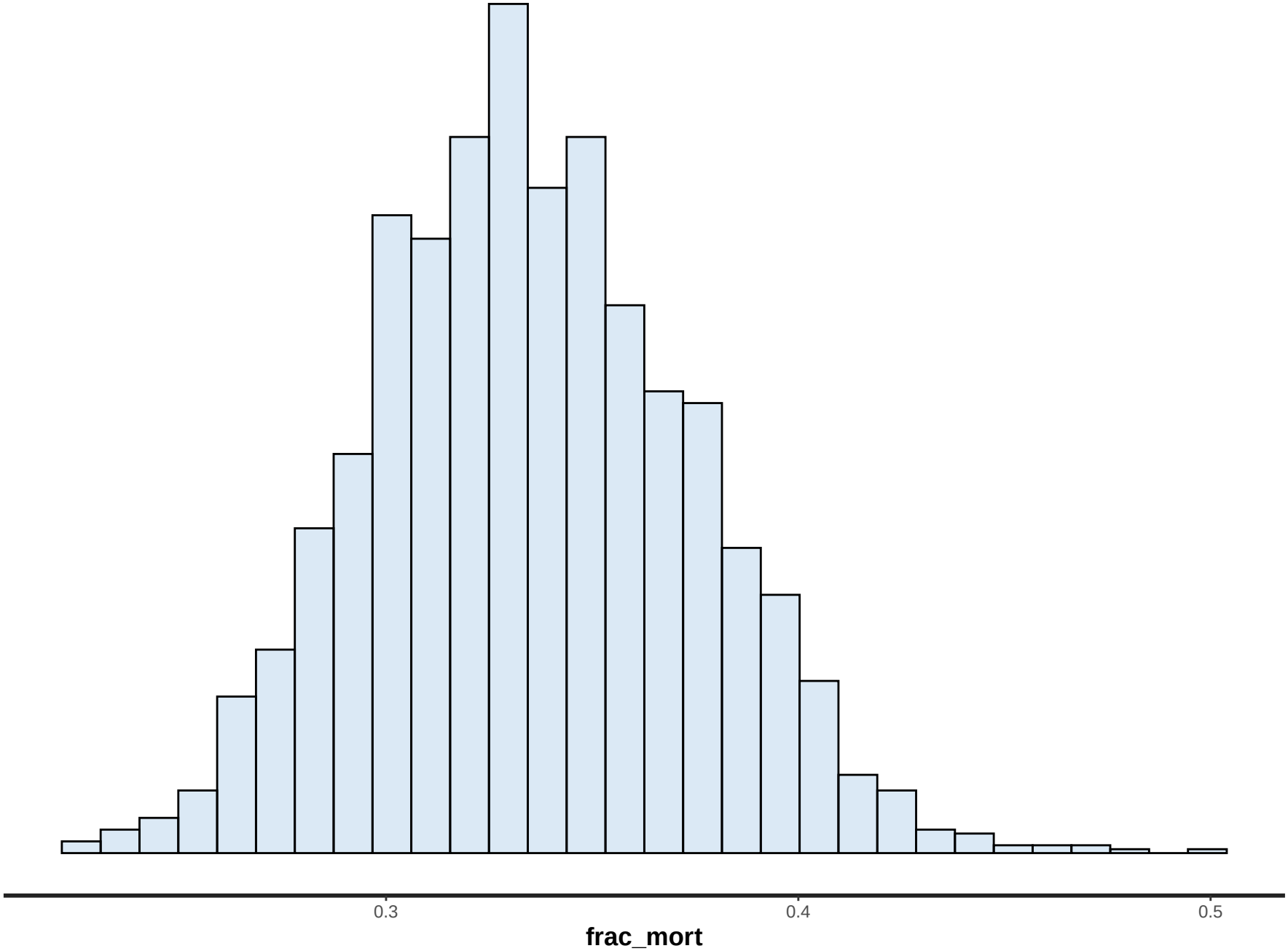
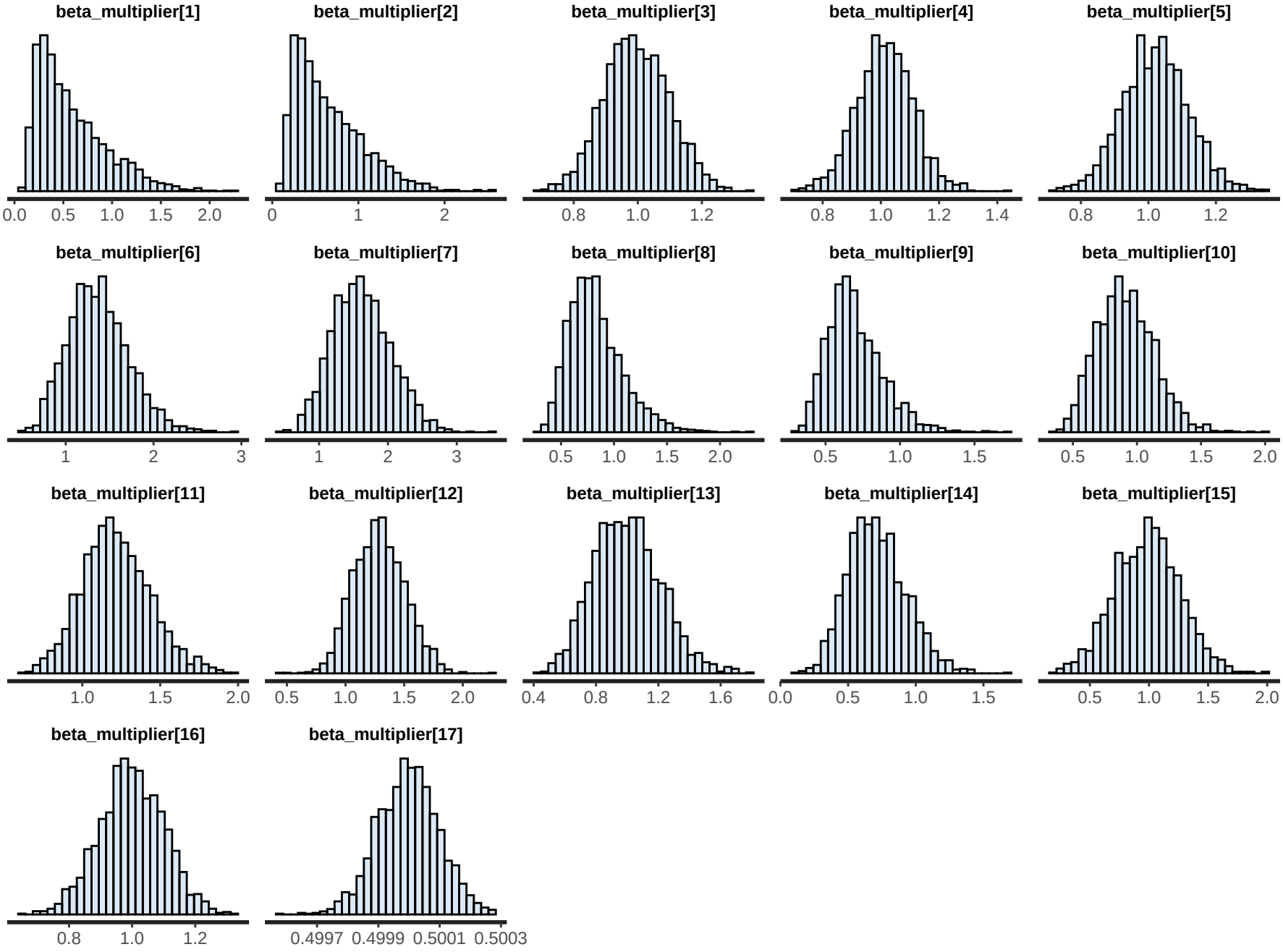
0.30
0.35
frac_icu


0.3
0.4
0.5
frac_mort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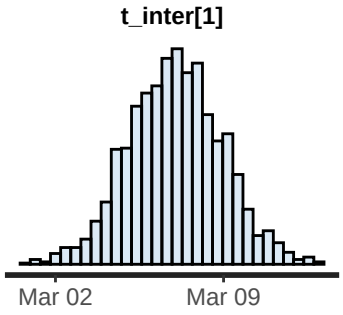
0.0 0.5 1.0 1.5 2.0
beta_multiplier[2]
0 1 2
beta_multiplier[3]
0.8 1.0 1.2
beta_multiplier[4]
0.8 1.0 1.2 1.4
beta_multiplier[5]
0.8 1.0 1.2
beta_multiplier[6]
1 2 3
beta_multiplier[7]
1 2 3
beta_multiplier[8]
0.5 1.0 1.5 2.0
beta_multiplier[9]
0.5 1.0 1.5
beta_multiplier[10]
0.5 1.0 1.5 2.0
beta_multiplier[11]
1.0 1.5 2.0
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]
0.0 0.5 1.0 1.5
beta_multiplier[15]
0.5 1.0 1.5 2.0
beta_multiplier[16]
0.8 1.0 1.2
beta_multiplier[17]
0.4997 0.4999 0.5001 0.5003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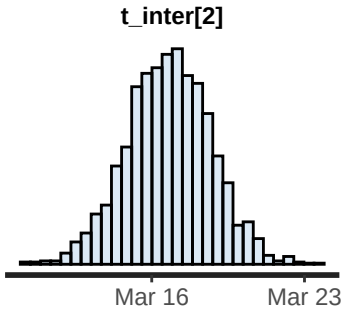
Mar 02
Mar 09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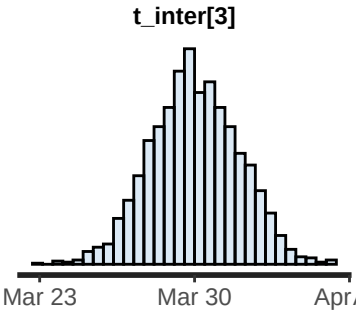
Mar 16
Mar 23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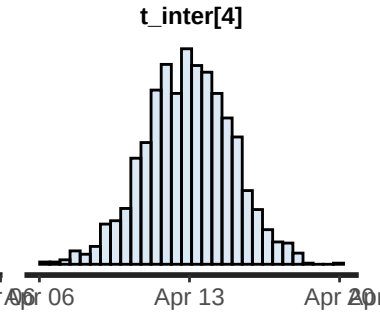
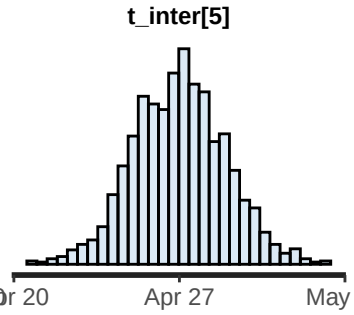
Mar 23
Mar 30


t_inter[4]
Apr 06
Apr 13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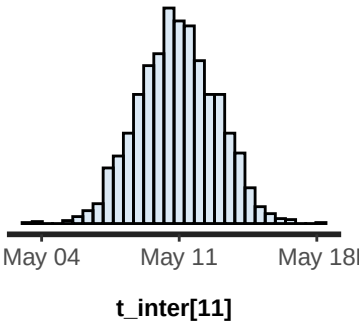
Apr 20
Apr 27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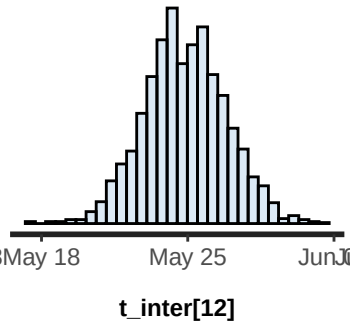
May 04
May 11
May 18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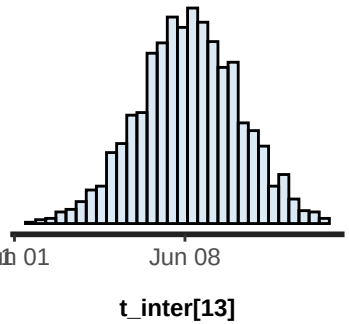
May 18
May 25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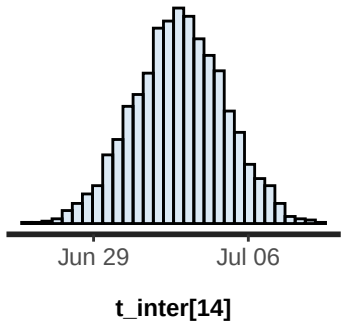
Jun 01
Jun 08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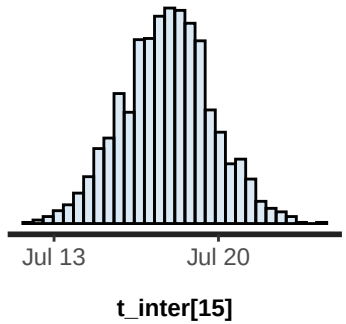
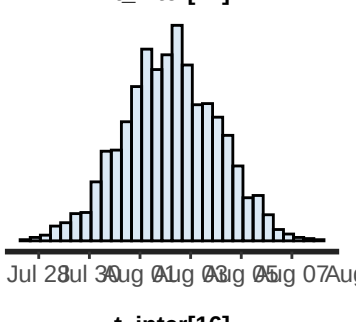
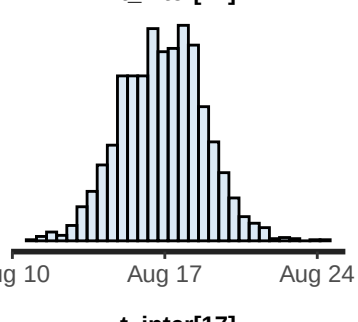
Jun 29
Jul 06


t_inter[10]
Jul 13
Jul 20


t_inter[11]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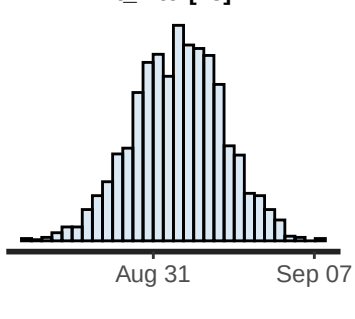
Aug 10
Aug 17
Aug 24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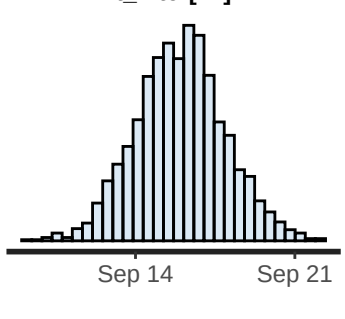
Aug 31
Sep 07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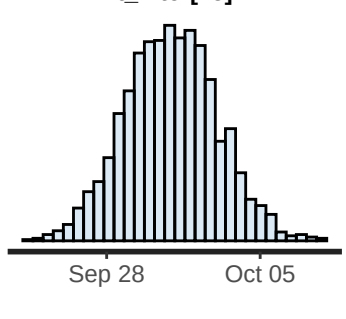
Sep 14
Sep 21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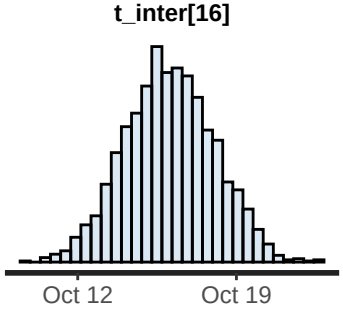
Sep 28
Oct 05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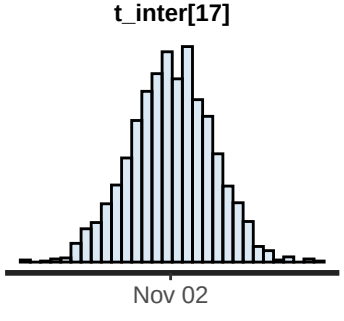
Oct 12
Oct 19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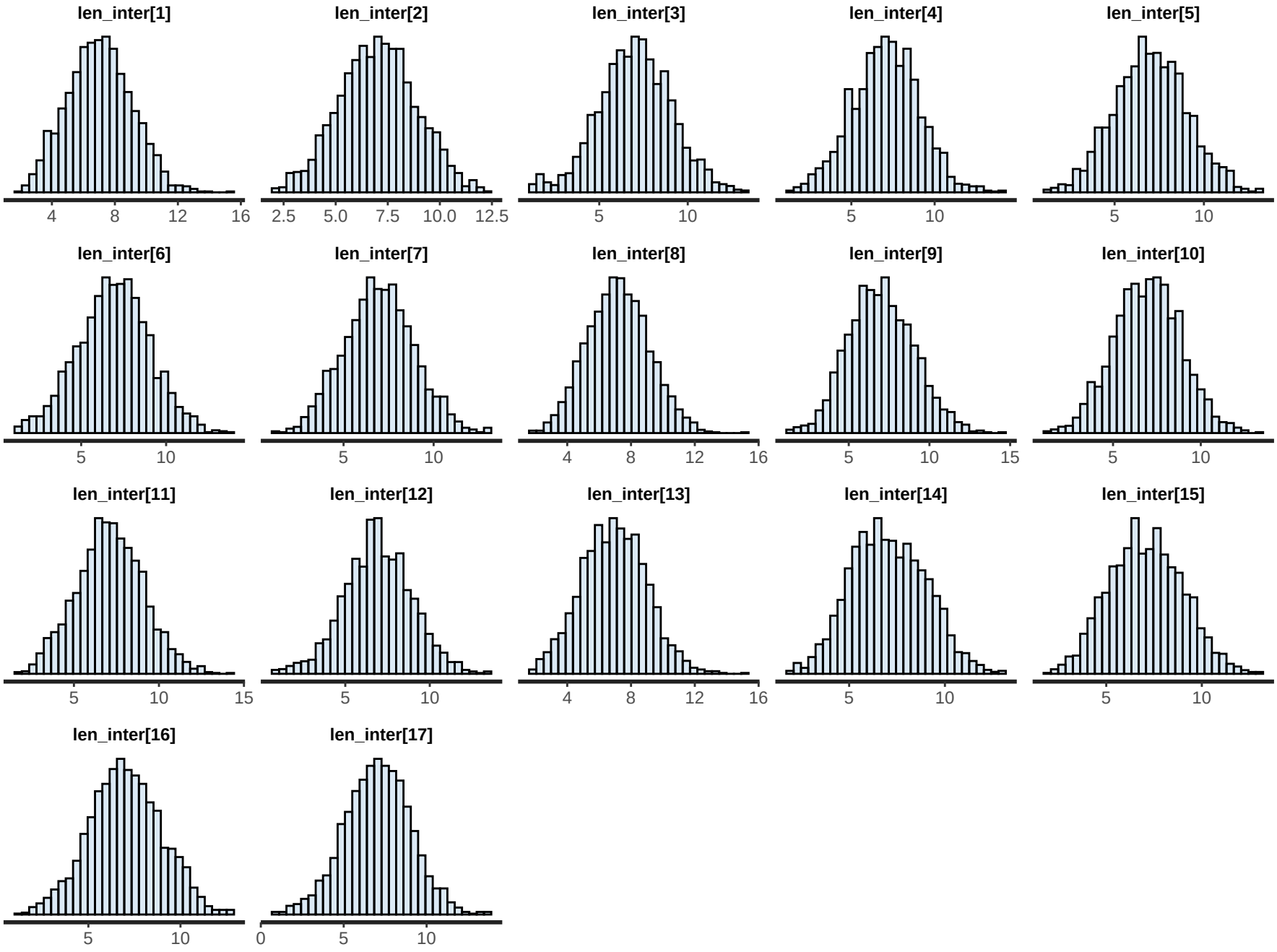
Nov 02


len_inter[1]
4 8 12 16
len_inter[2]
2.5 5.0 7.5 10.0 12.5
len_inter[3]
5 10
len_inter[4]
5 10
len_inter[5]
5 10
len_inter[6]
5 10
len_inter[7]
5 10
len_inter[8]
4 8 12 16
len_inter[9]
5 10 15
len_inter[10]
5 10
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5 10 15
len_inter[12]
5 10
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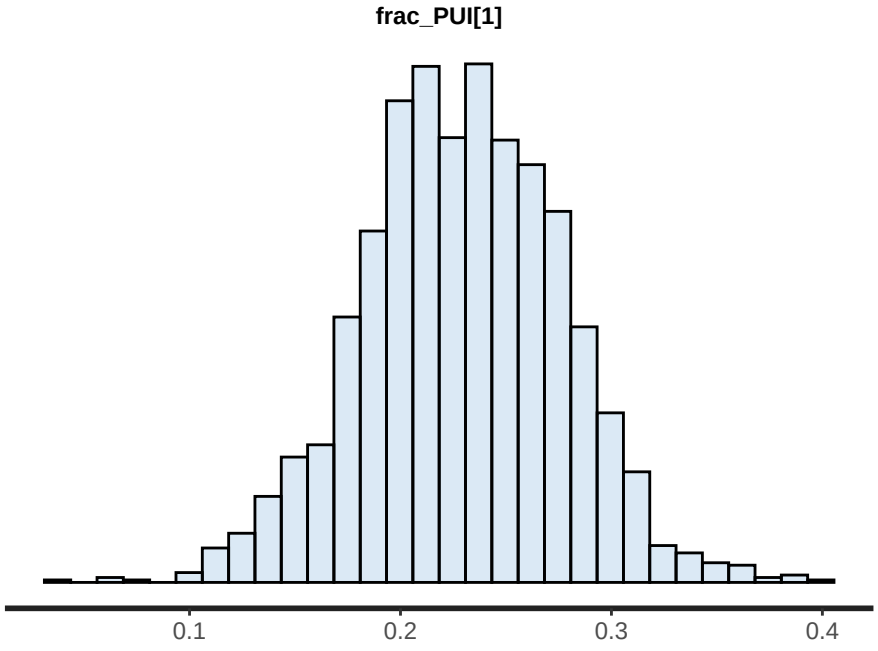
5 10
len_inter[15]
5 10
len_inter[16]
5 10
len_inter[17]
0 5 10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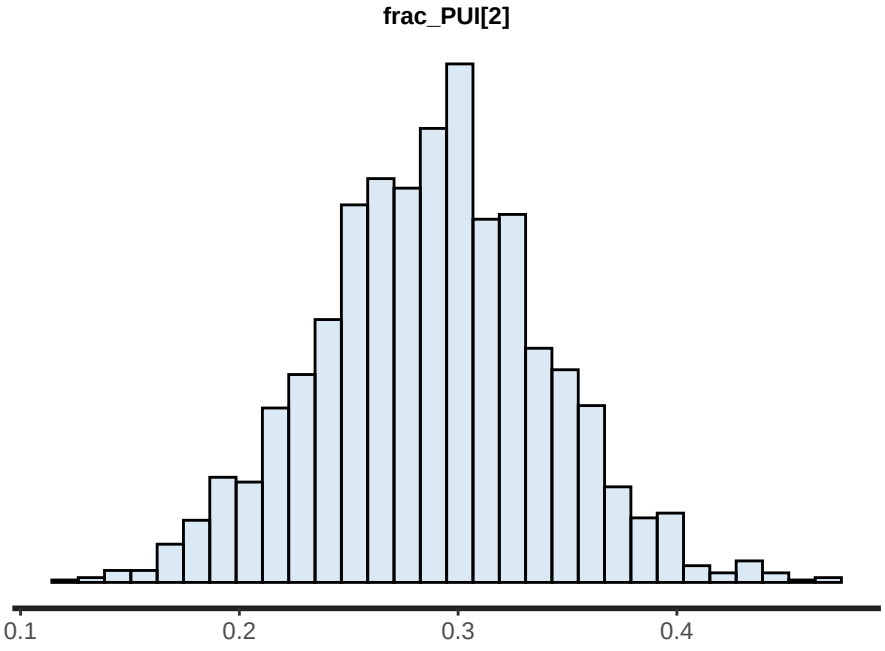
0.3
0.4


frac_PUI[2]
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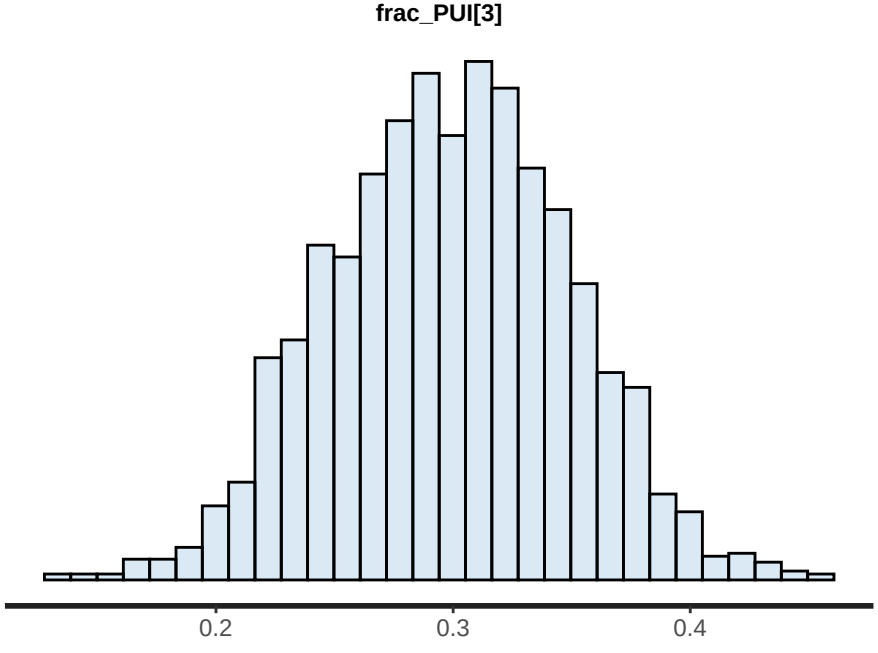
0.2
0.3
0.4


frac_PUI[3]
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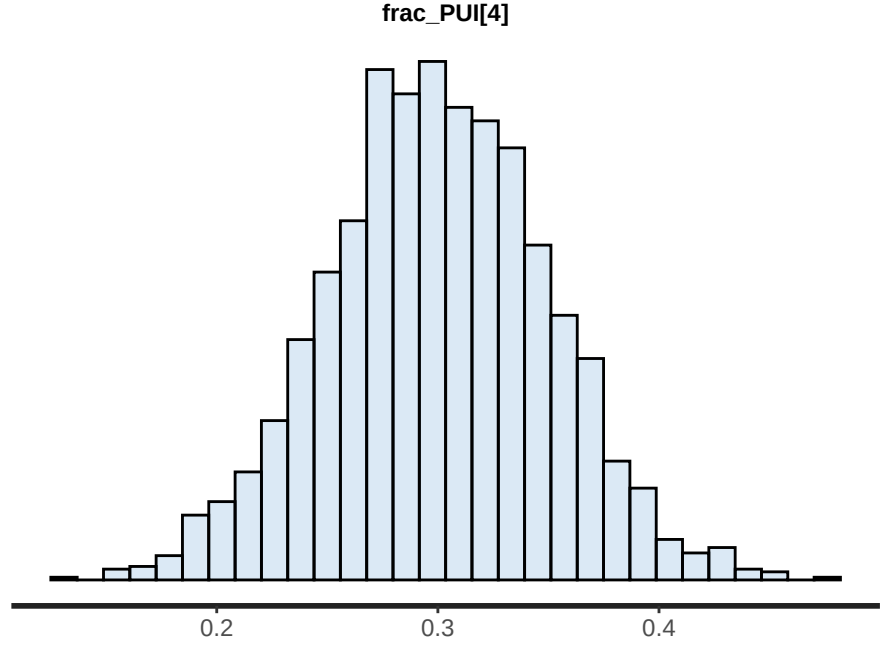
0.3
0.4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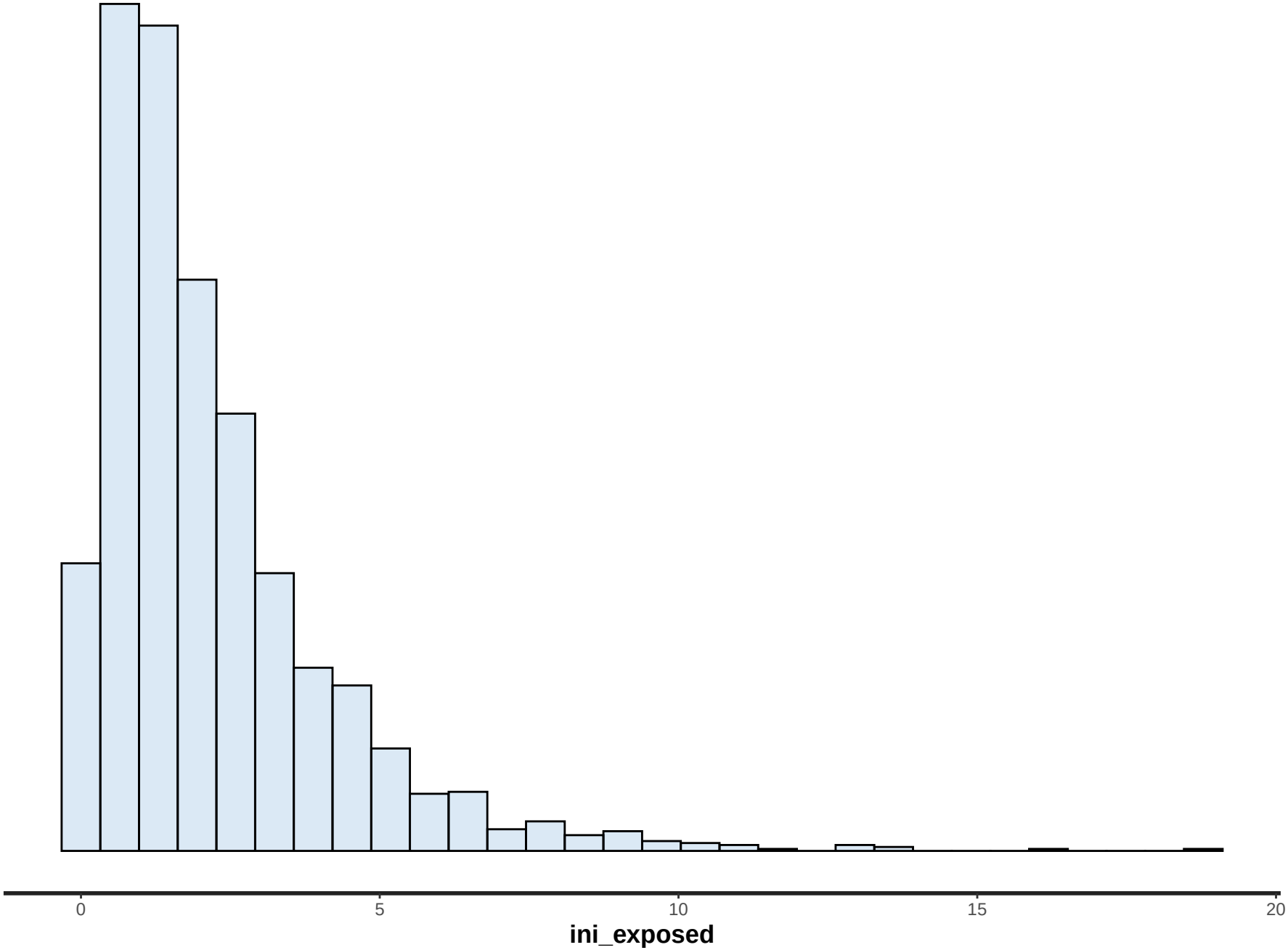
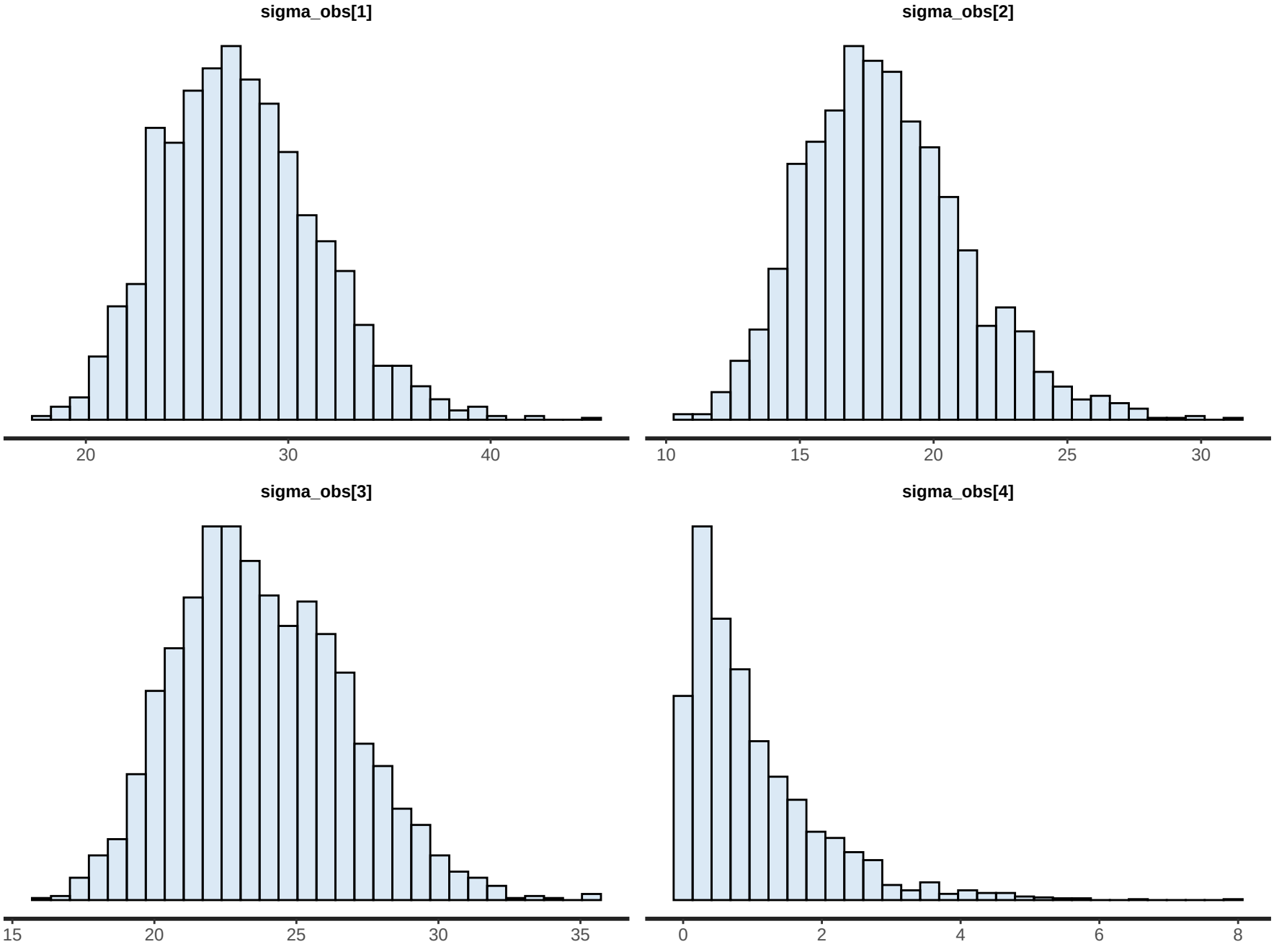
0.3
0.4


0
5
10
15
20
ini_exposed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sigma_obs[3]
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sigma_obs[4]
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4
6
8