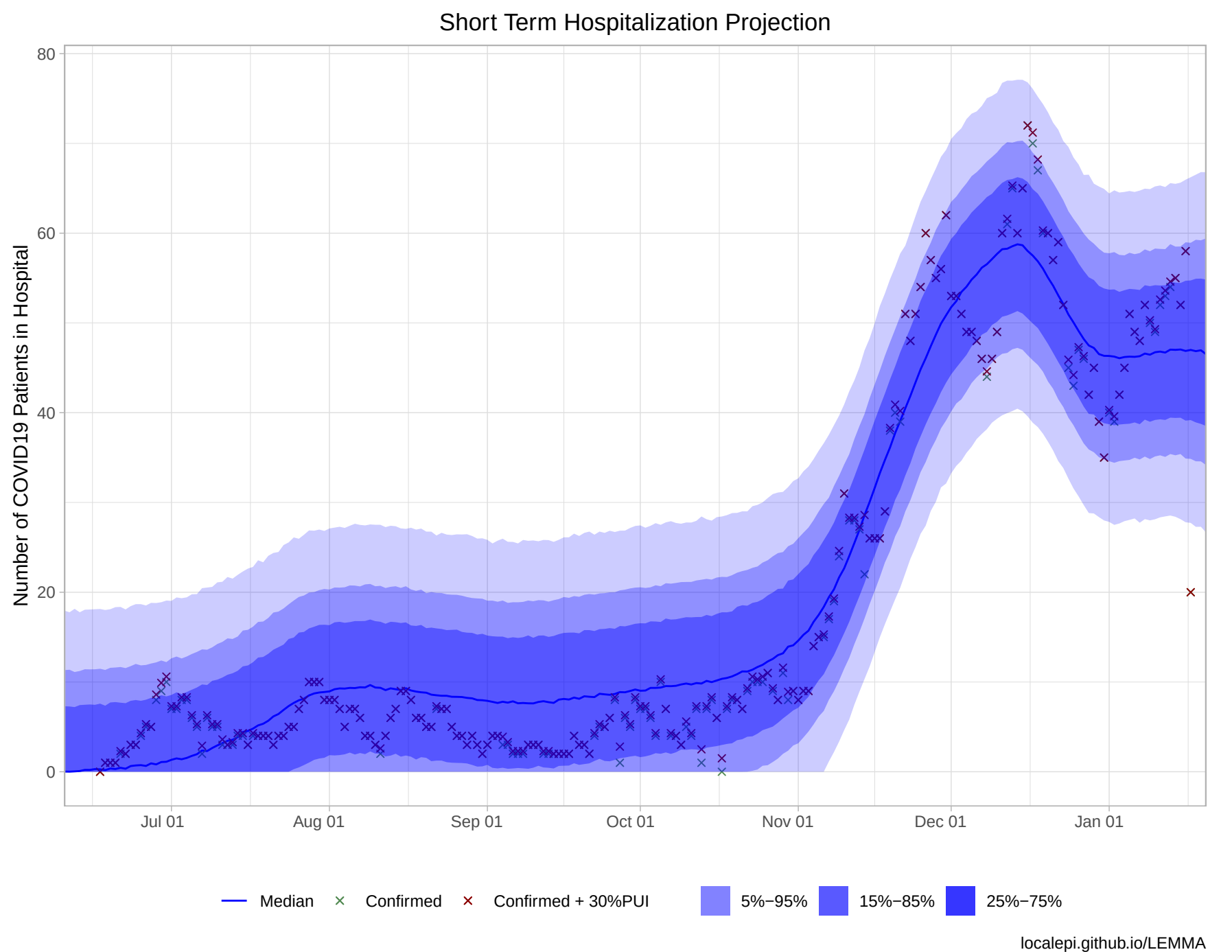
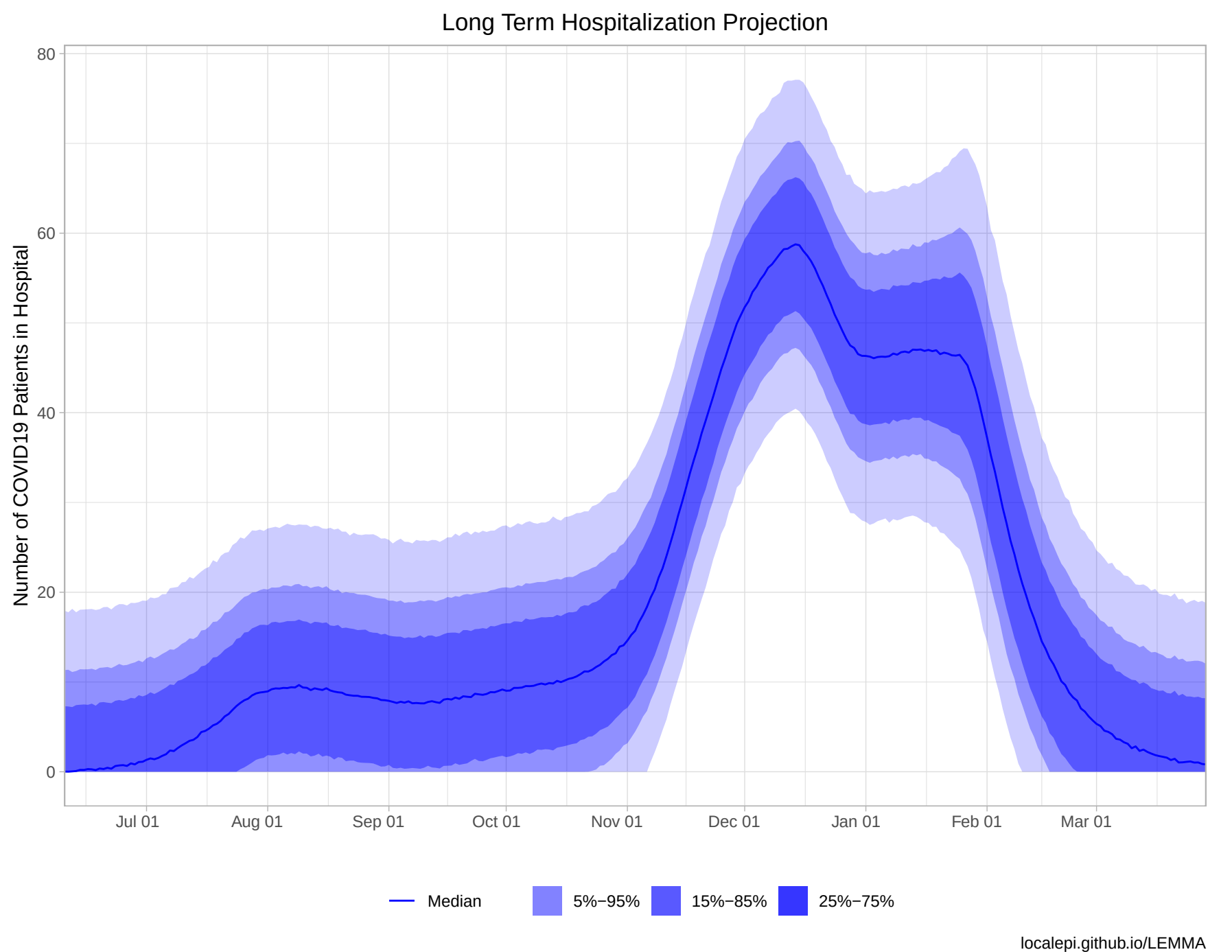
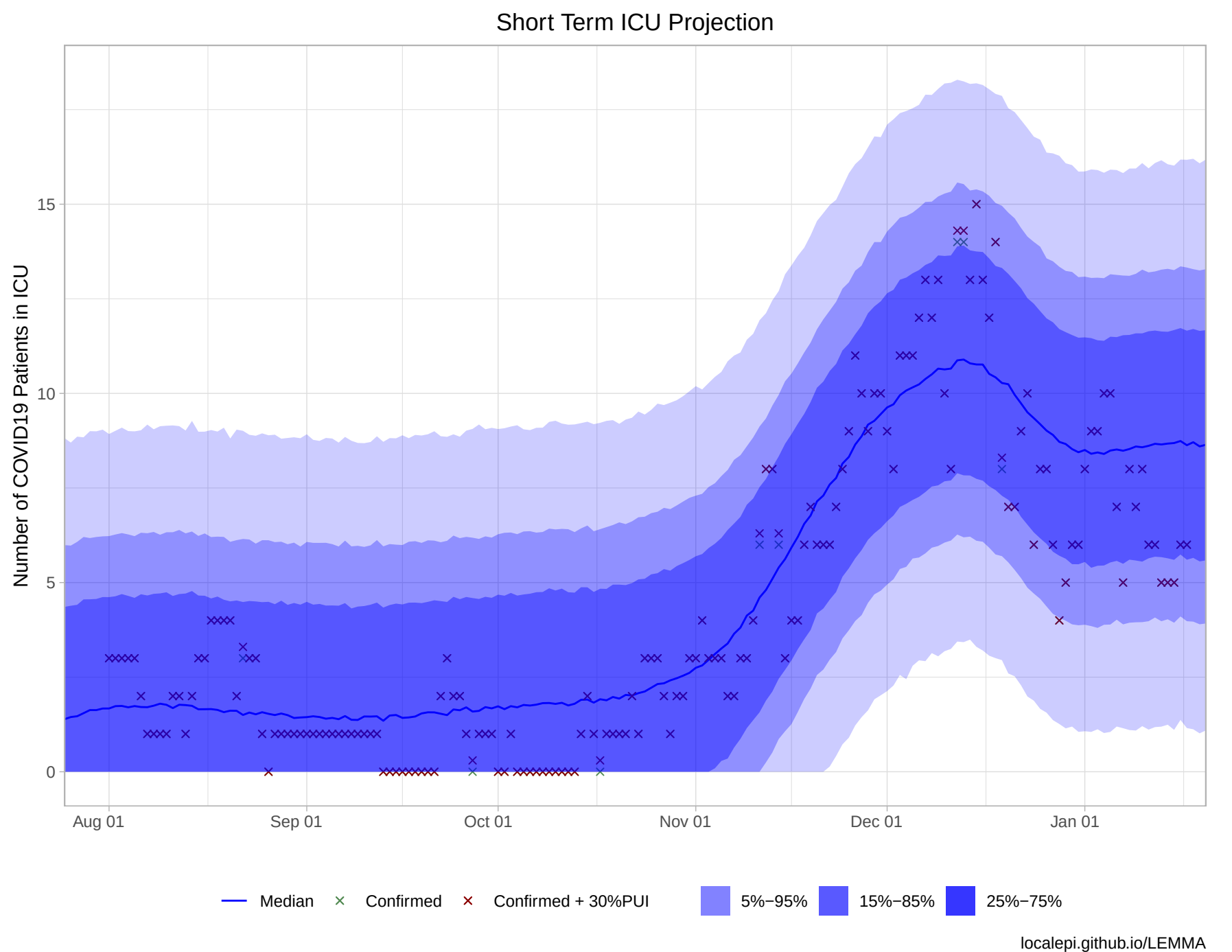
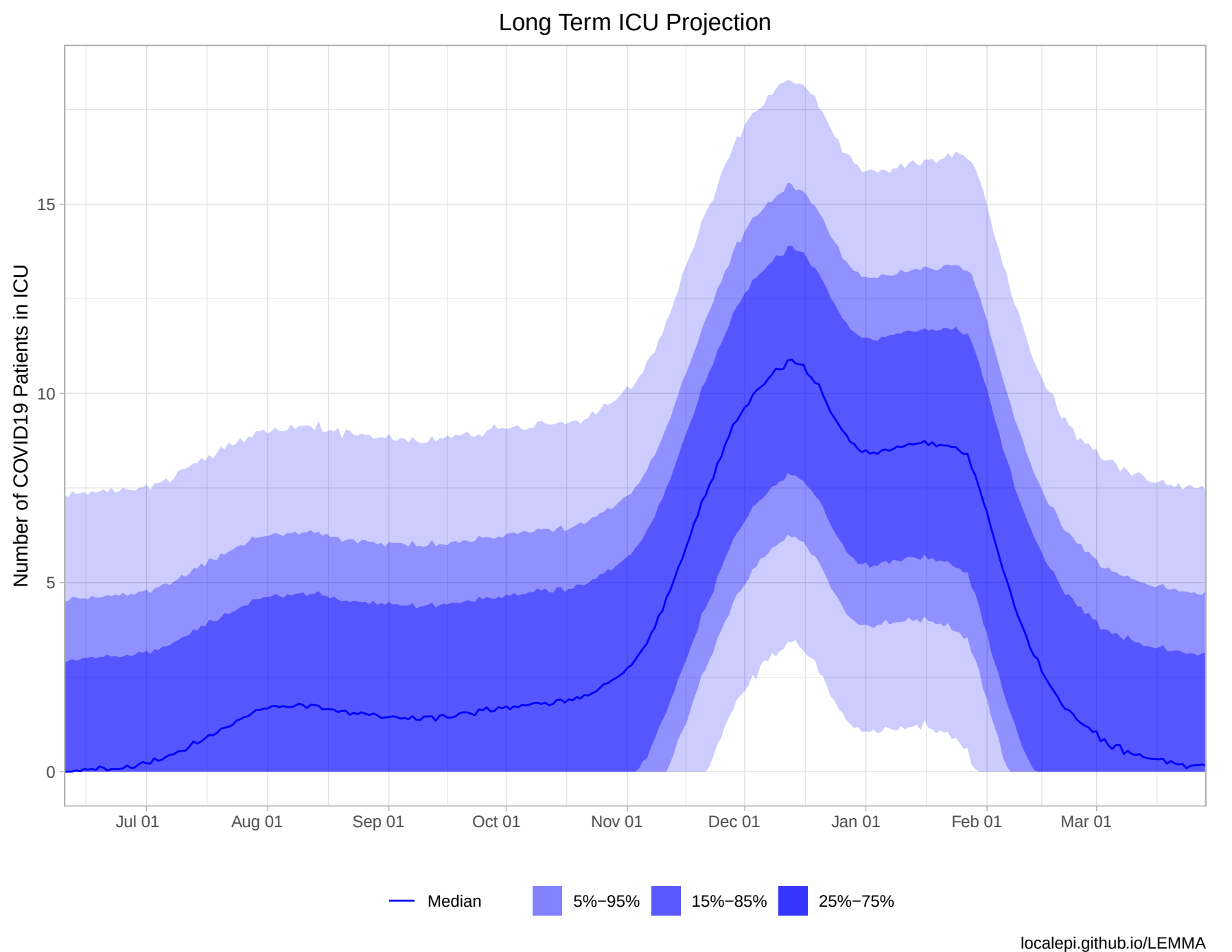
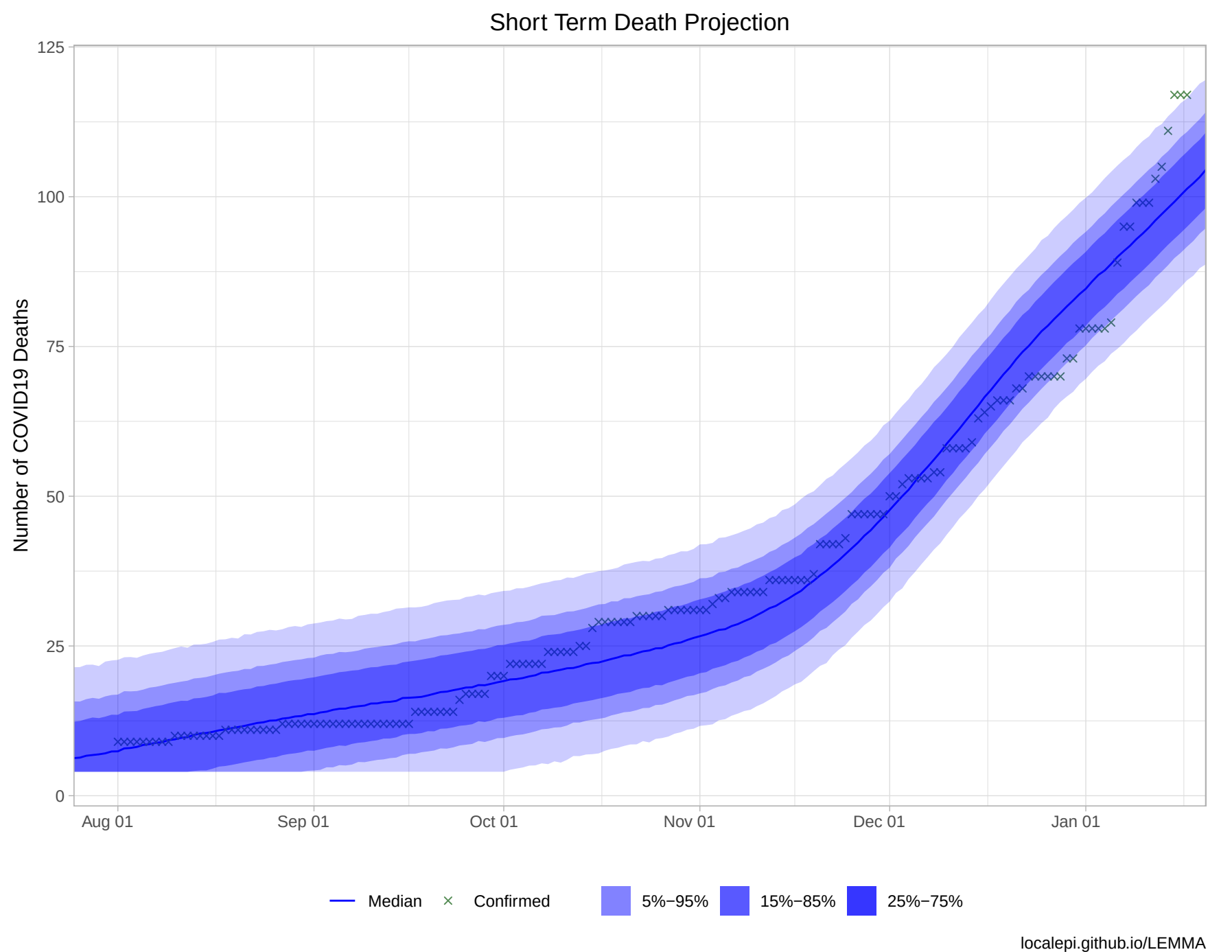
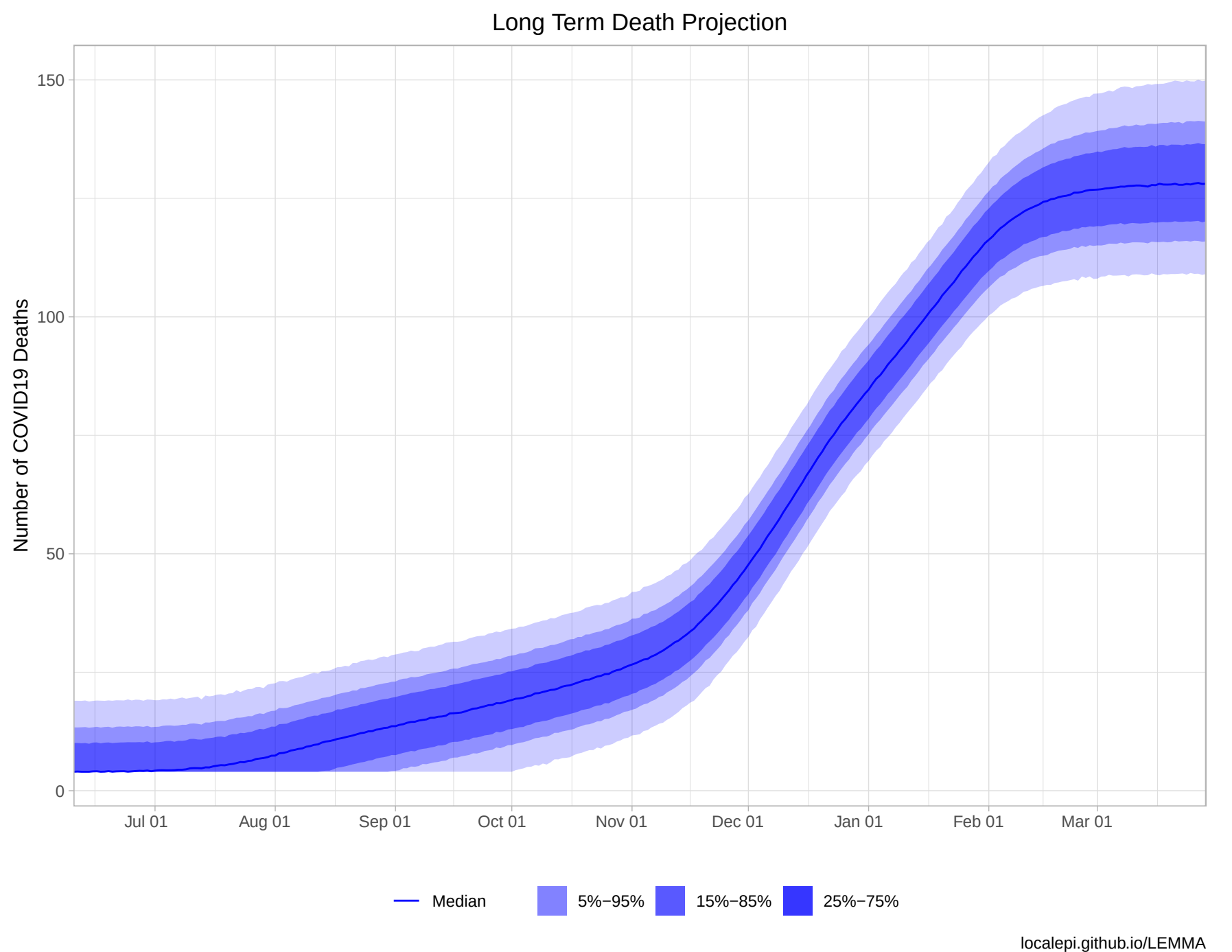

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
80
60
40
20
0
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

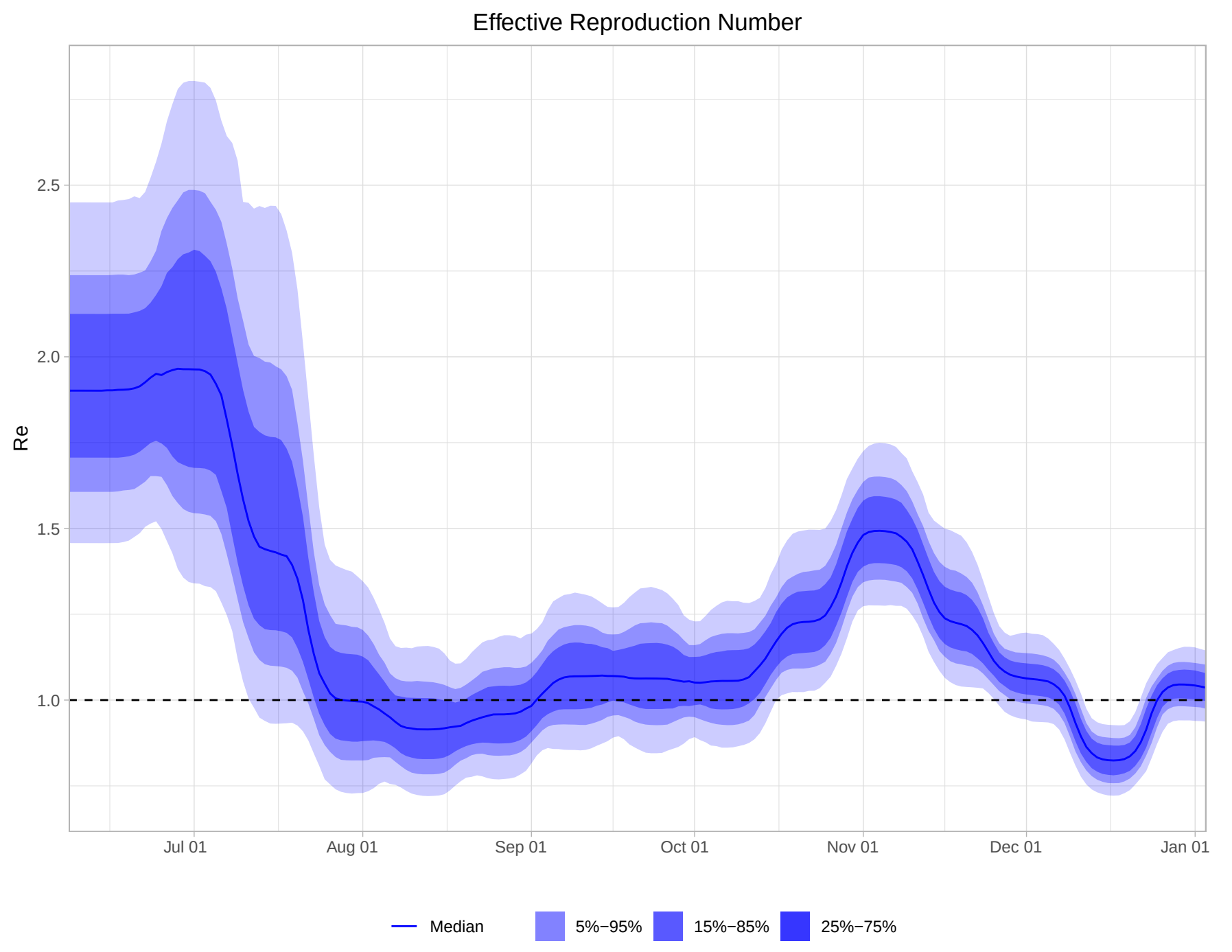

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
80
60
40
20
0
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


Short Term ICU Projection
Number of COVID19 Patients in ICU
0
5
10
15
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 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
5
10
15
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

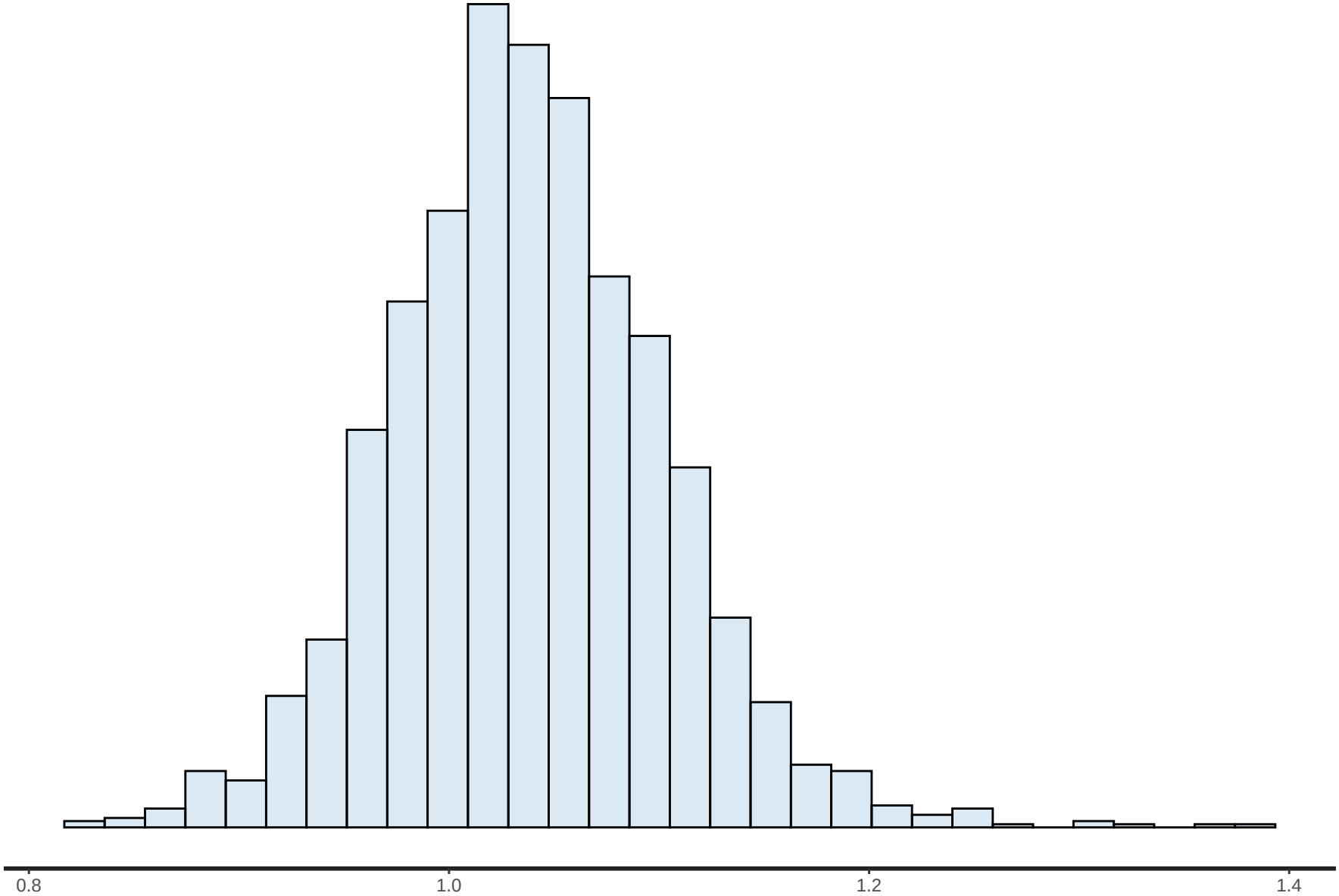

Short Term Death Projection
Number of COVID19 Deaths
125
100
75
50
25
0
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

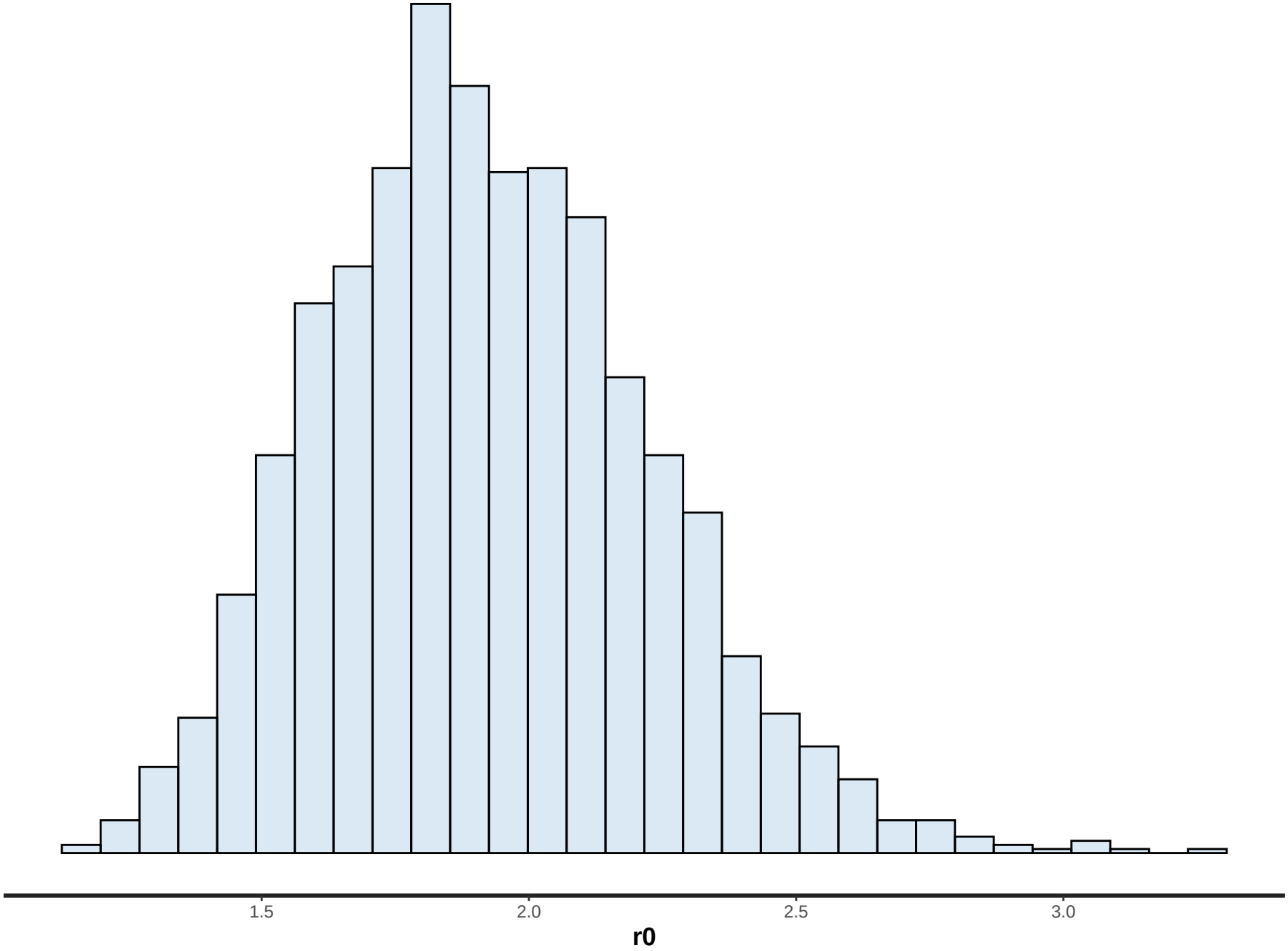

Long Term Death Projection
Number of COVID19 Deaths
150
100
50
0
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

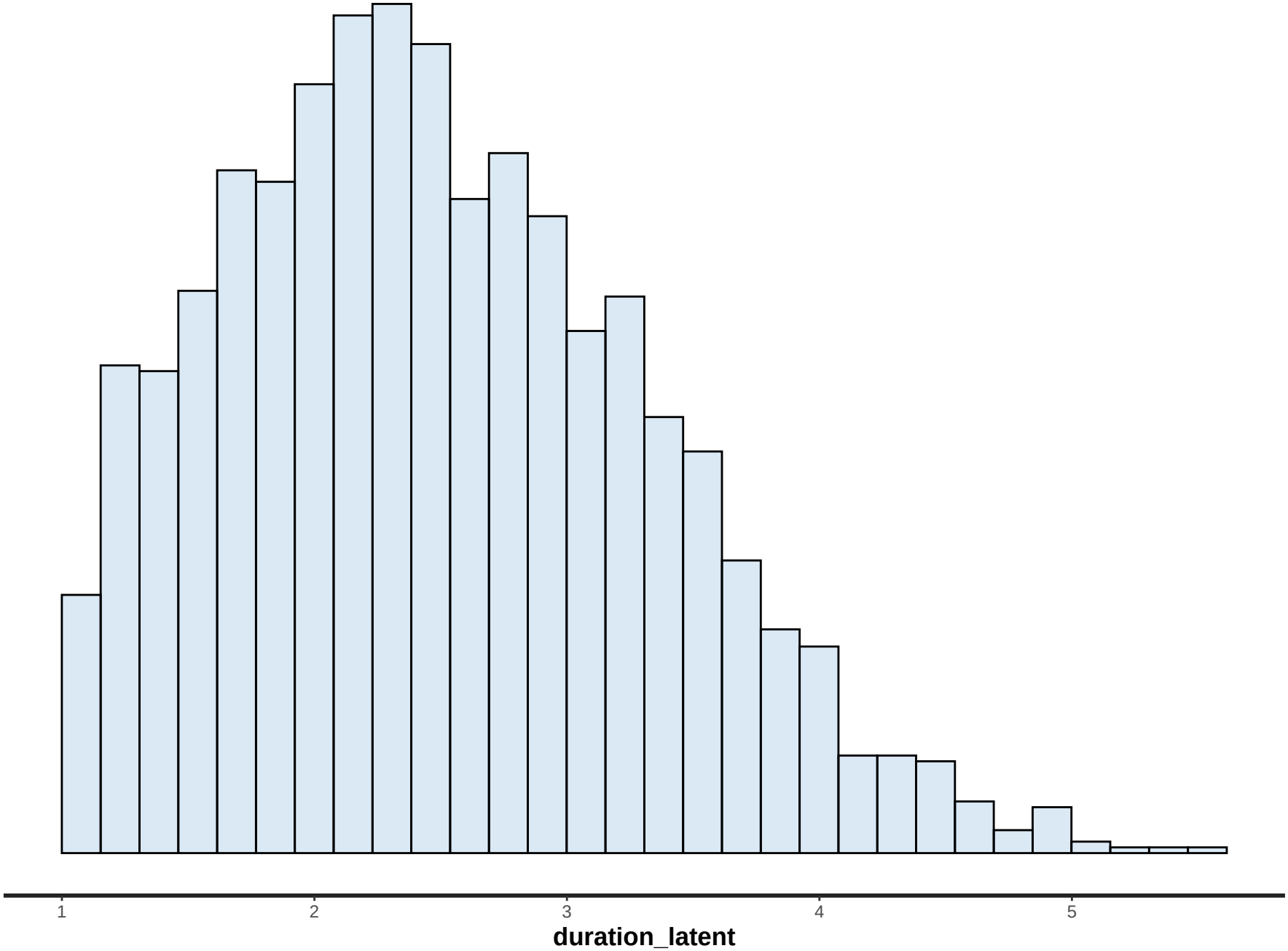

Effective Reproduction Number
Re
2.5
2.0
1.5
1.0
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Median
5%−95%
15%−85%
25%−75%

Rt as of 2021−01−03

5%	10%	25%	50%	75%	90%	95%
0.94	0.96	1.00	1.04	1.08	1.12	1.14




1.5
2.0
2.5
3.0
r0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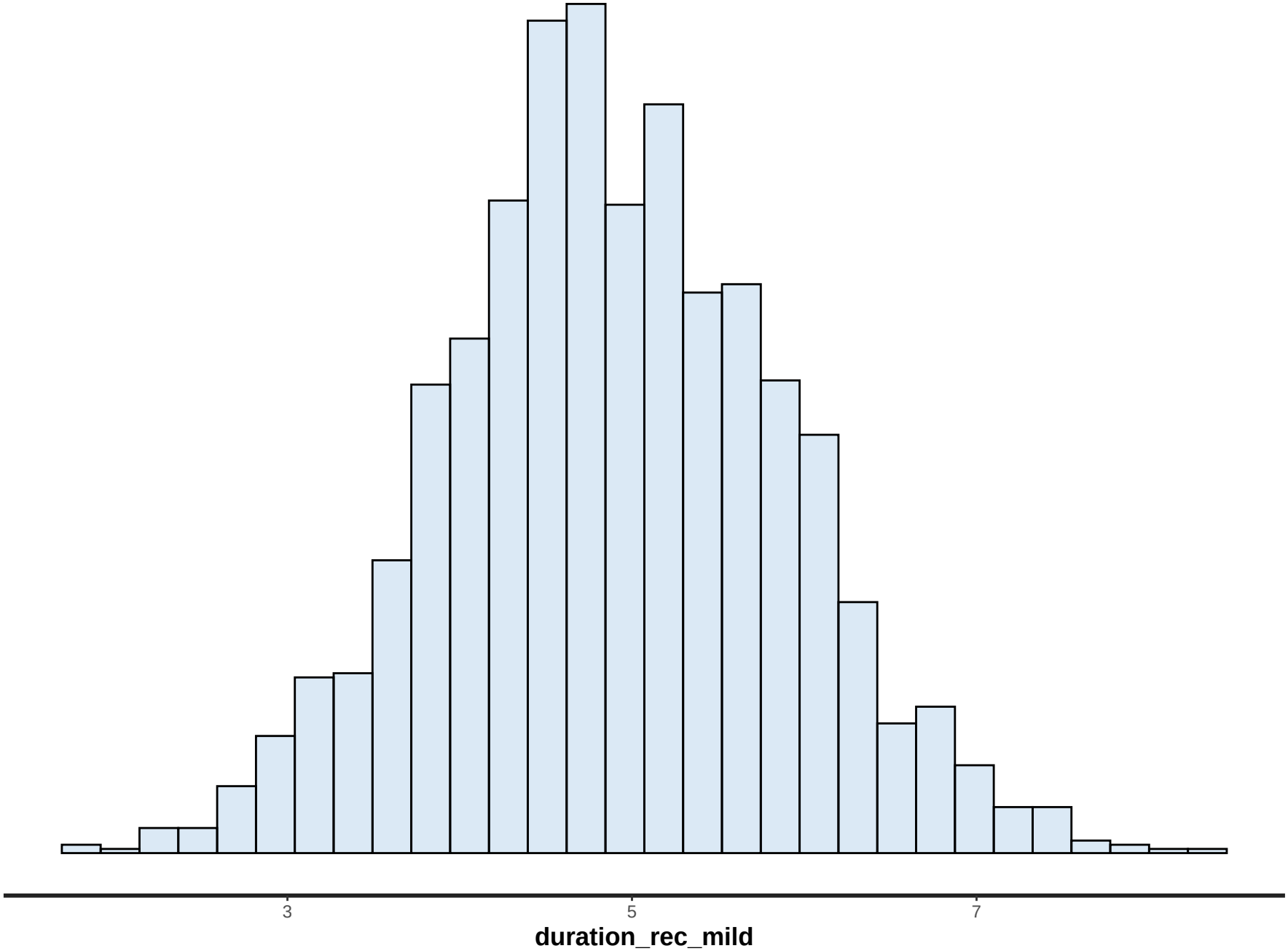
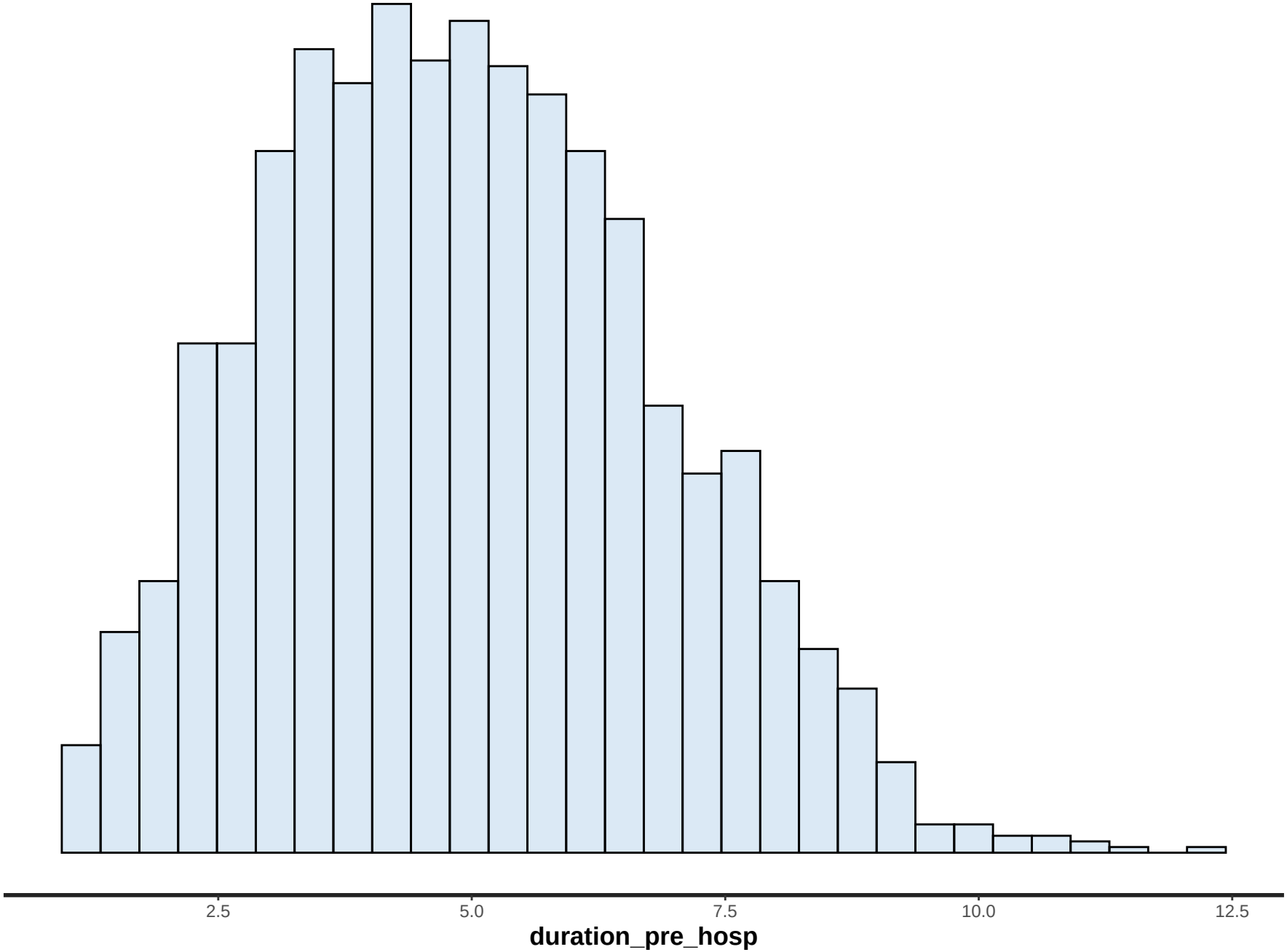
2
3
4
5
duration_latent


3
5
7
duration_rec_mild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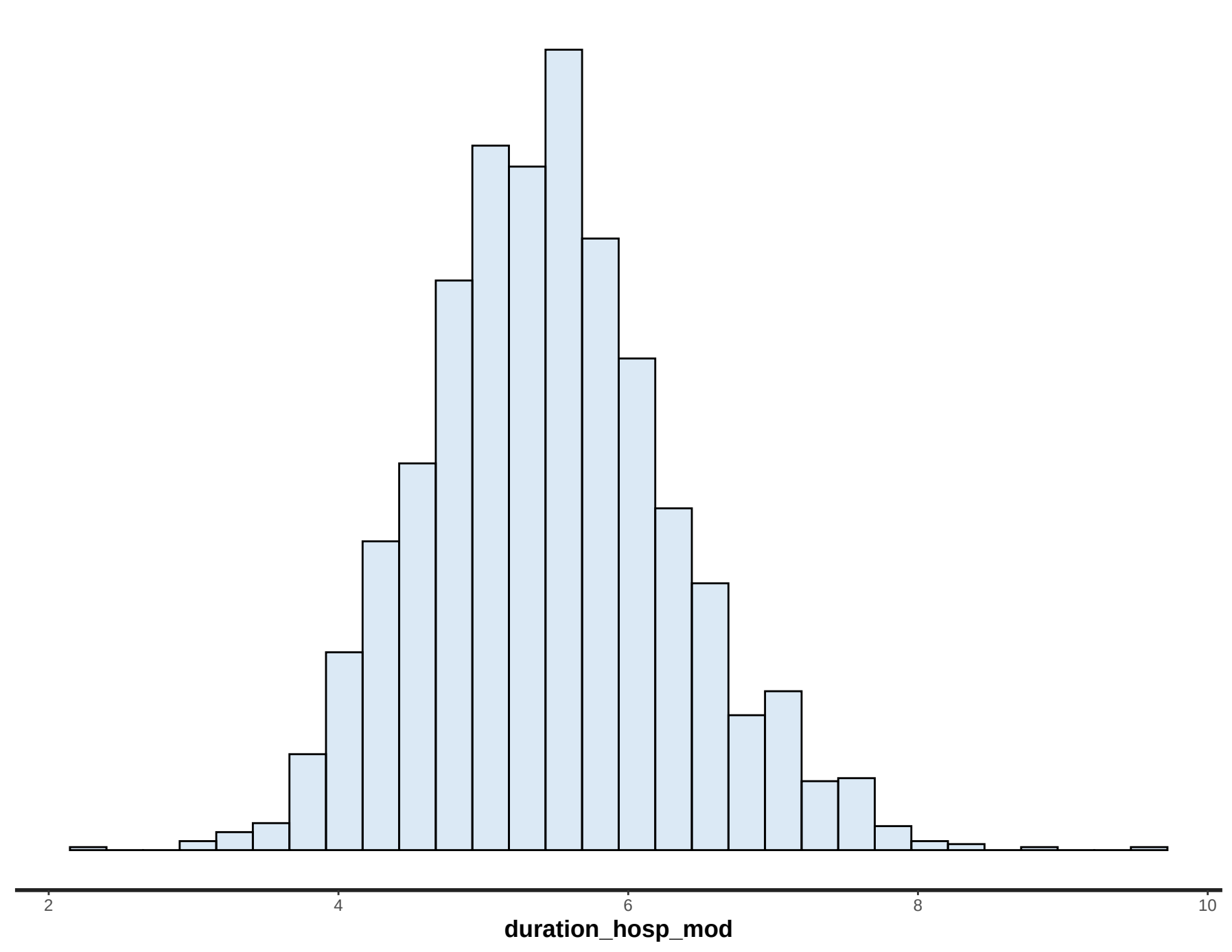
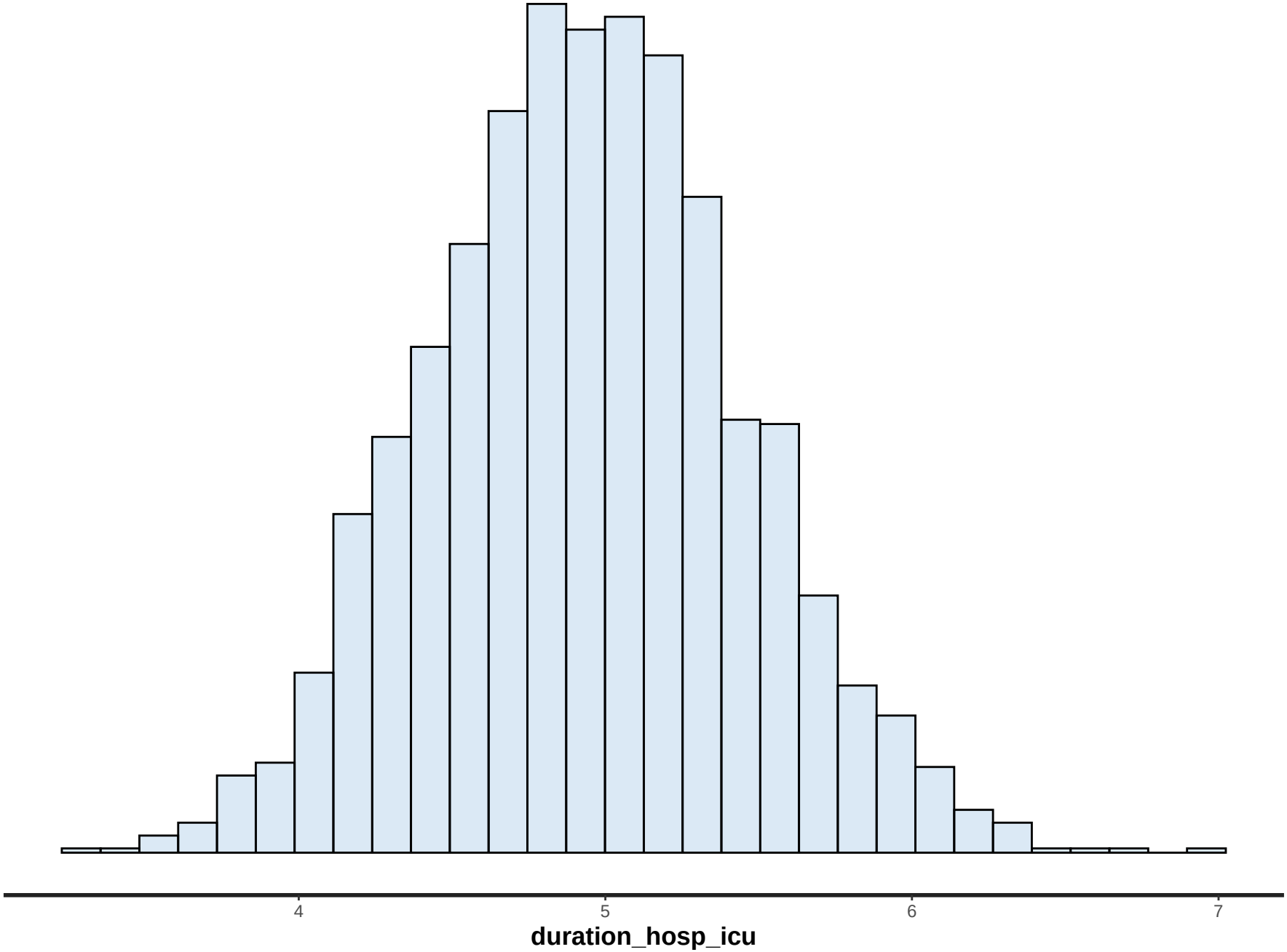
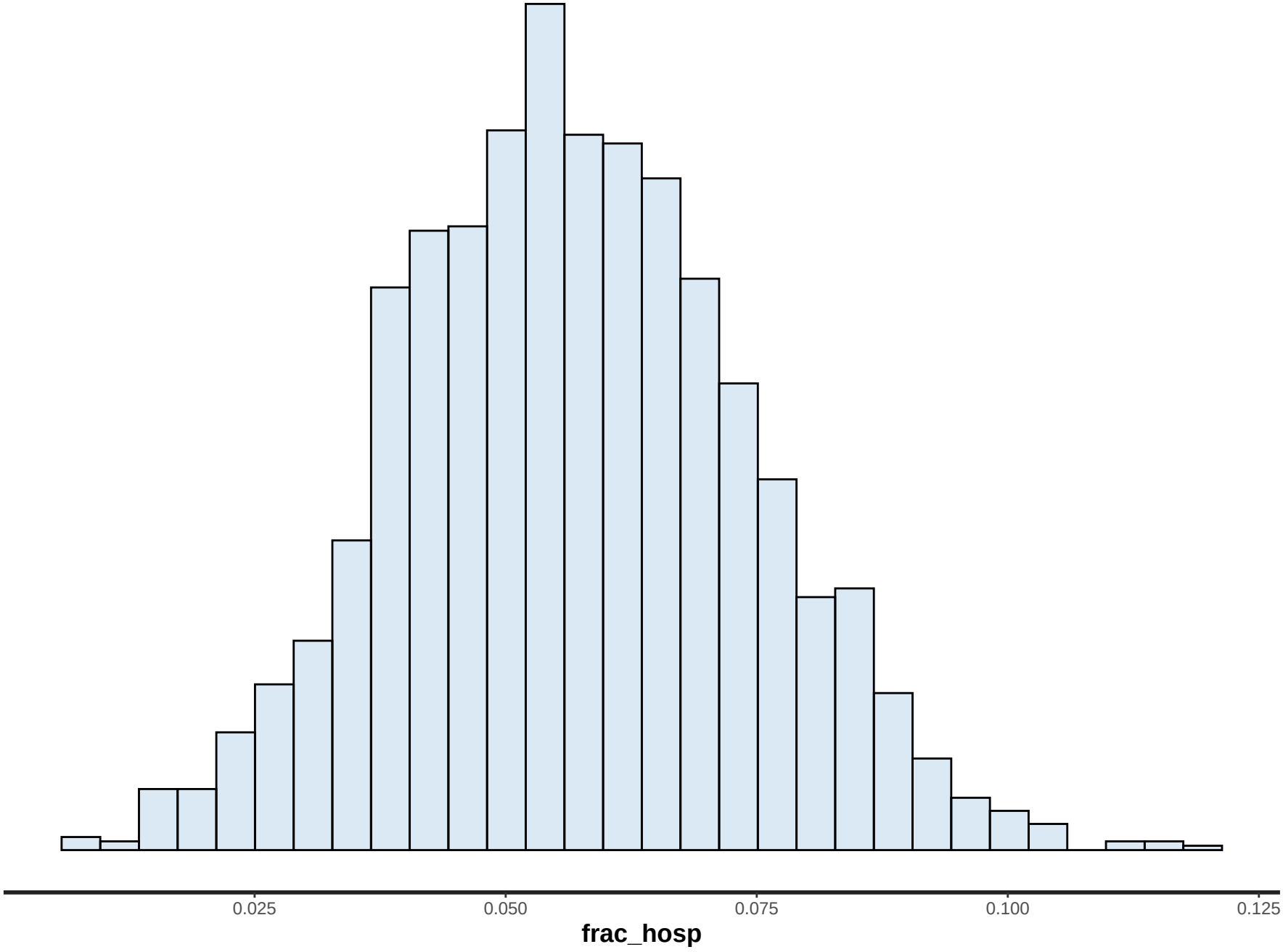
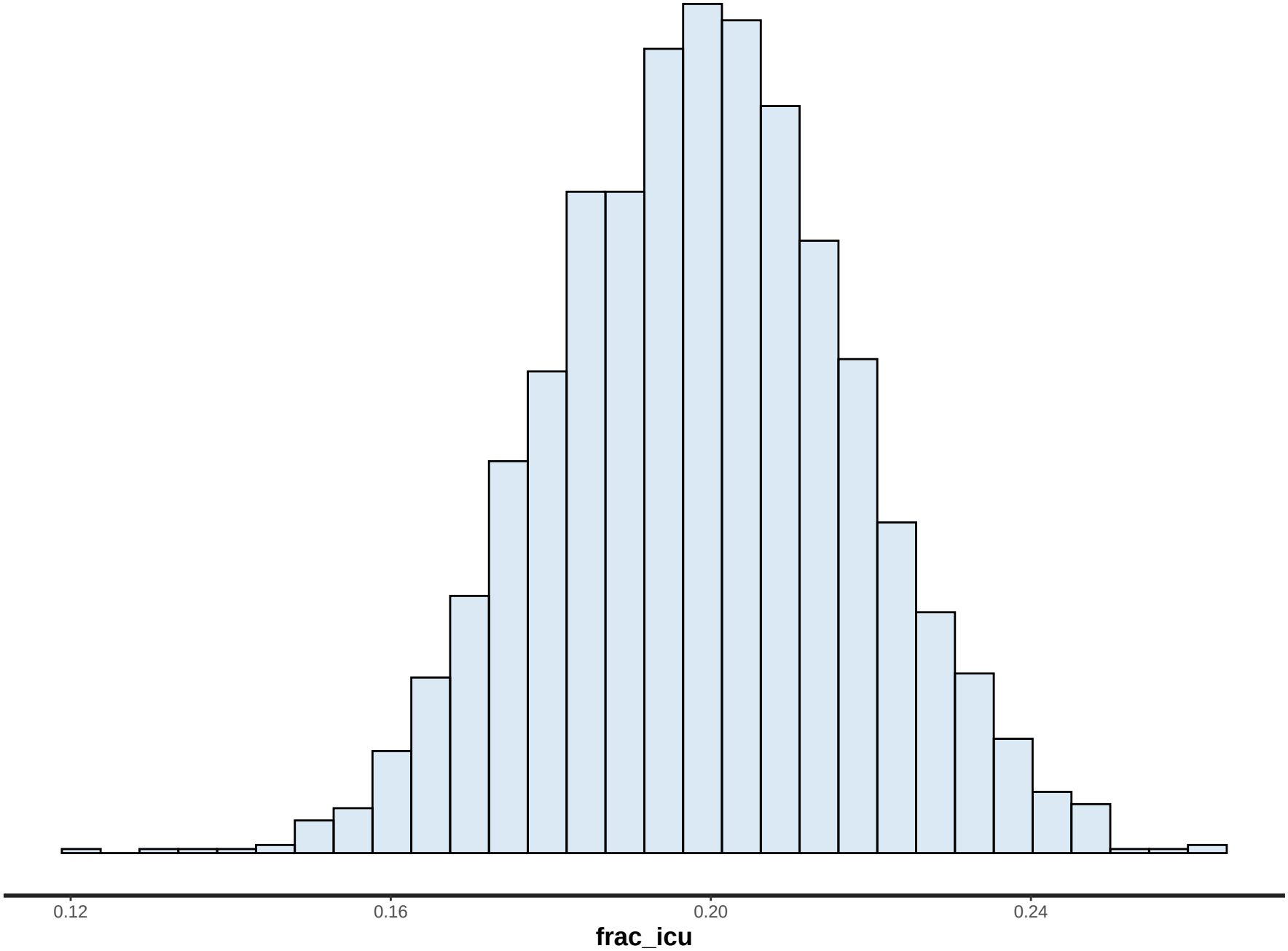
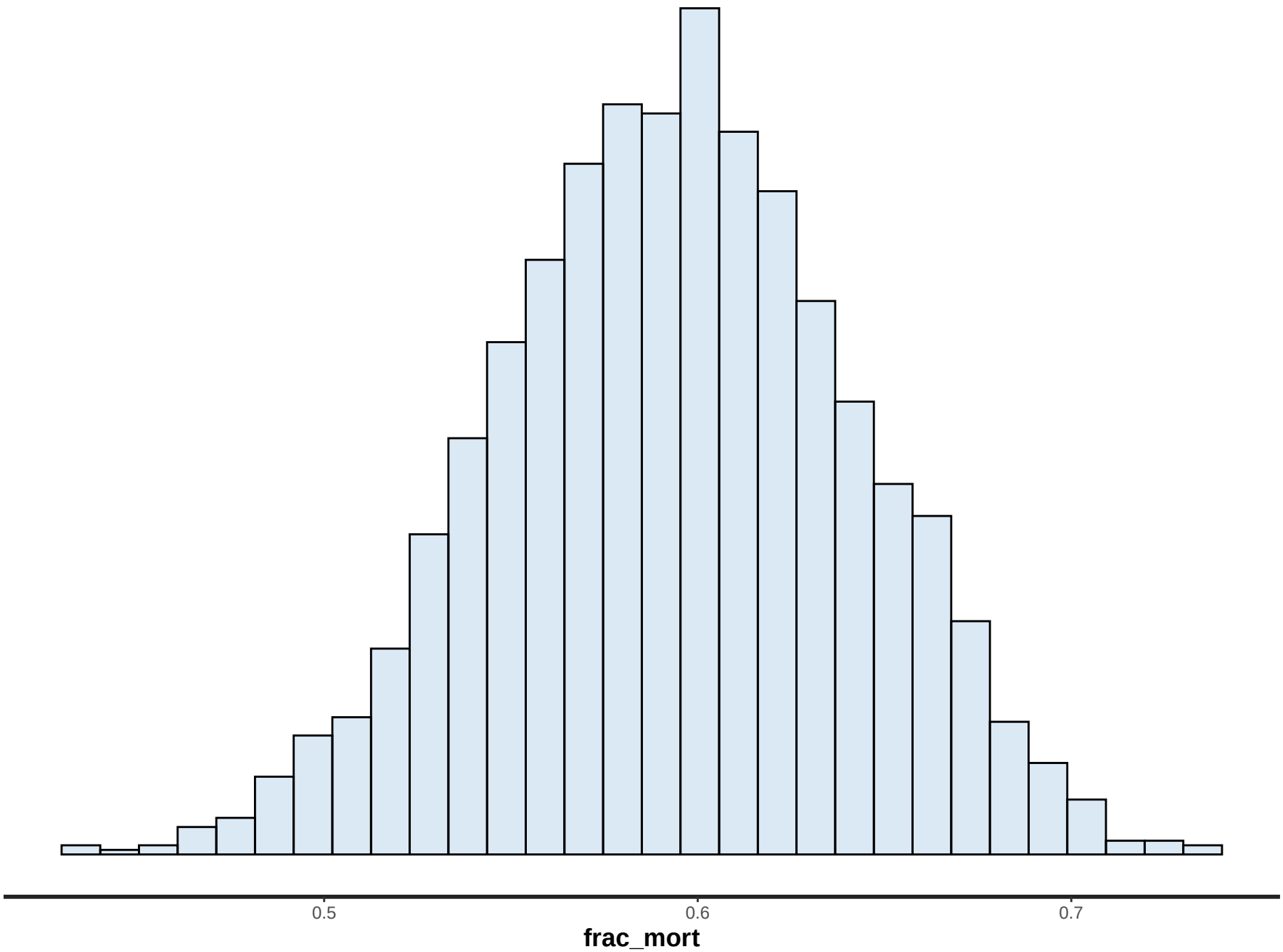
5.0
7.5
10.0
12.5
duration_pre_hosp

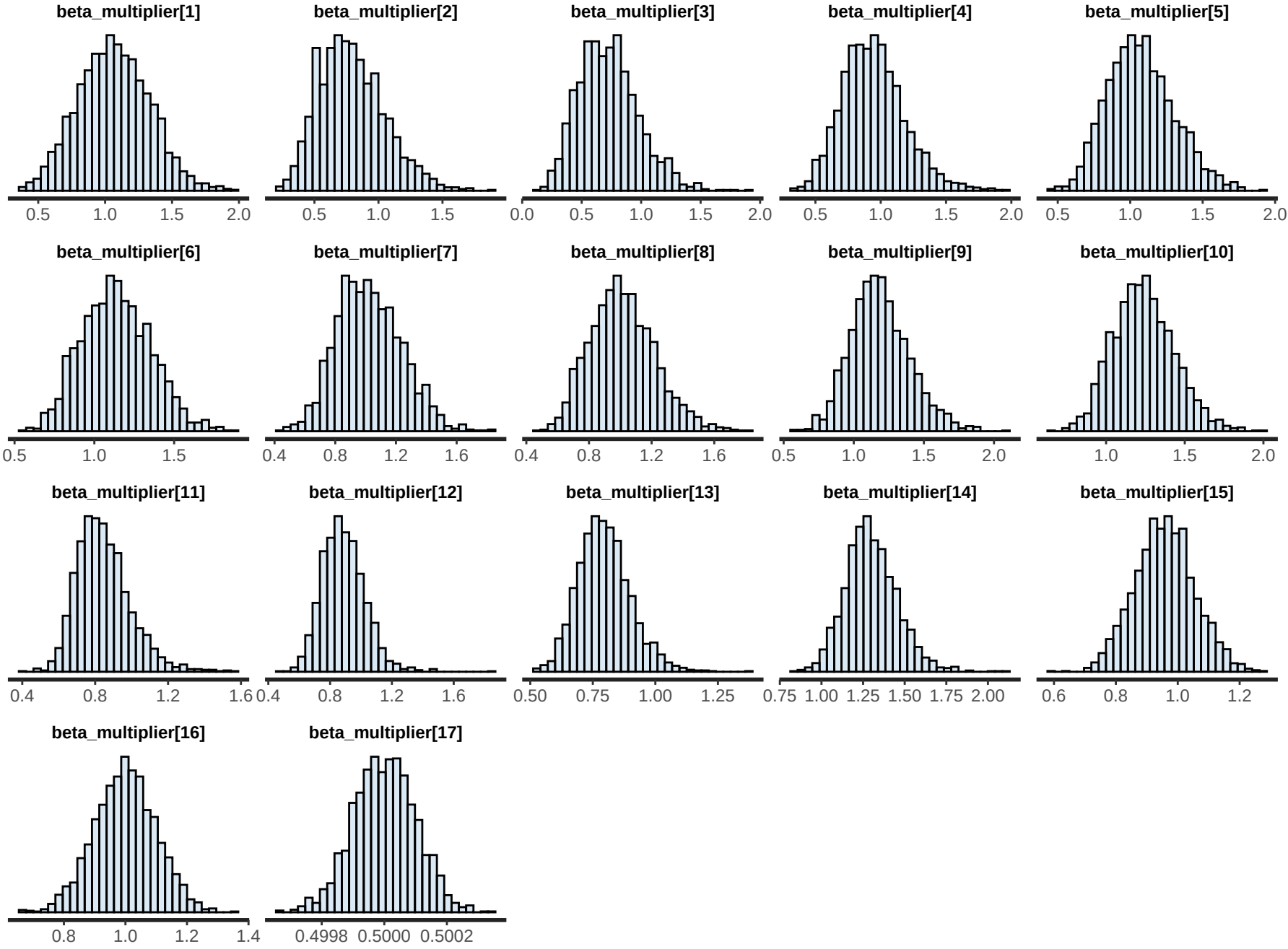

2
4
6
8
10
duration_hosp_mod


4
5
6
7
duration_hosp_icu


0.025
0.050
0.075
0.100
0.125
frac_hosp


0.12
0.16
0.20
0.24
frac_icu


0.5
0.6
0.7
frac_mort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beta_multiplier[3]
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beta_multiplier[4]
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beta_multiplier[5]
0.5 1.0 1.5 2.0
beta_multiplier[6]
0.5 1.0 1.5
beta_multiplier[7]
0.4 0.8 1.2 1.6
beta_multiplier[8]
0.4 0.8 1.2 1.6
beta_multiplier[9]
0.5 1.0 1.5 2.0
beta_multiplier[10]
1.0 1.5 2.0
beta_multiplier[11]
0.4 0.8 1.2 1.6
beta_multiplier[12]
0.4 0.8 1.2 1.6
beta_multiplier[13]
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beta_multiplier[14]
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beta_multiplier[15]
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beta_multiplier[16]
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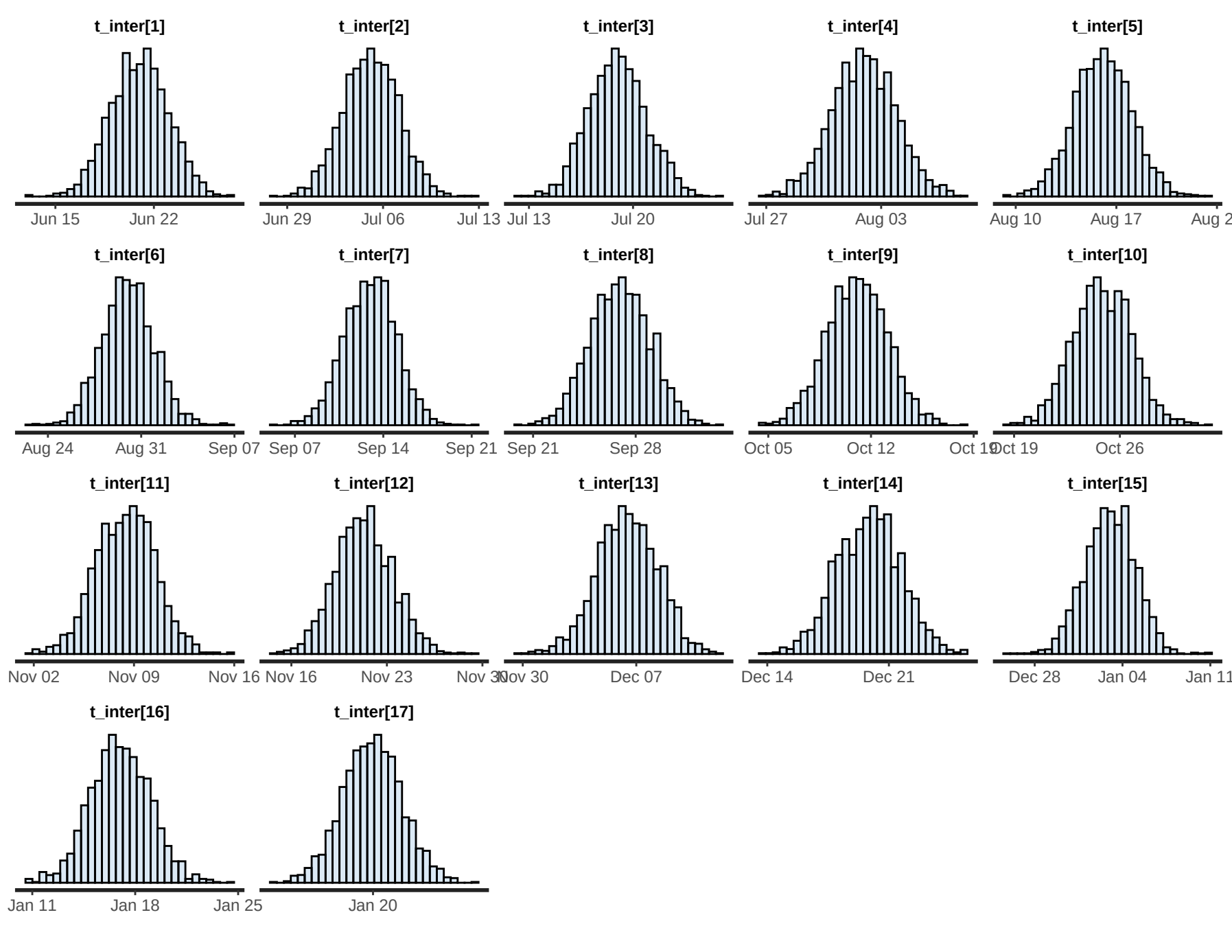
beta_multiplier[17]
0.4998 0.5000 0.5002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Aug 10
Aug 17
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Aug 31
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Sep 14
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Sep 28
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Oct 12
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Oct 19
Oct 26
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Nov 02
Nov 09
Nov 16
t_inter[12]
Nov 16
Nov 23
t_inter[13]
Nov 30
Dec 07
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Dec 21
t_inter[15]
Dec 28
Jan 04
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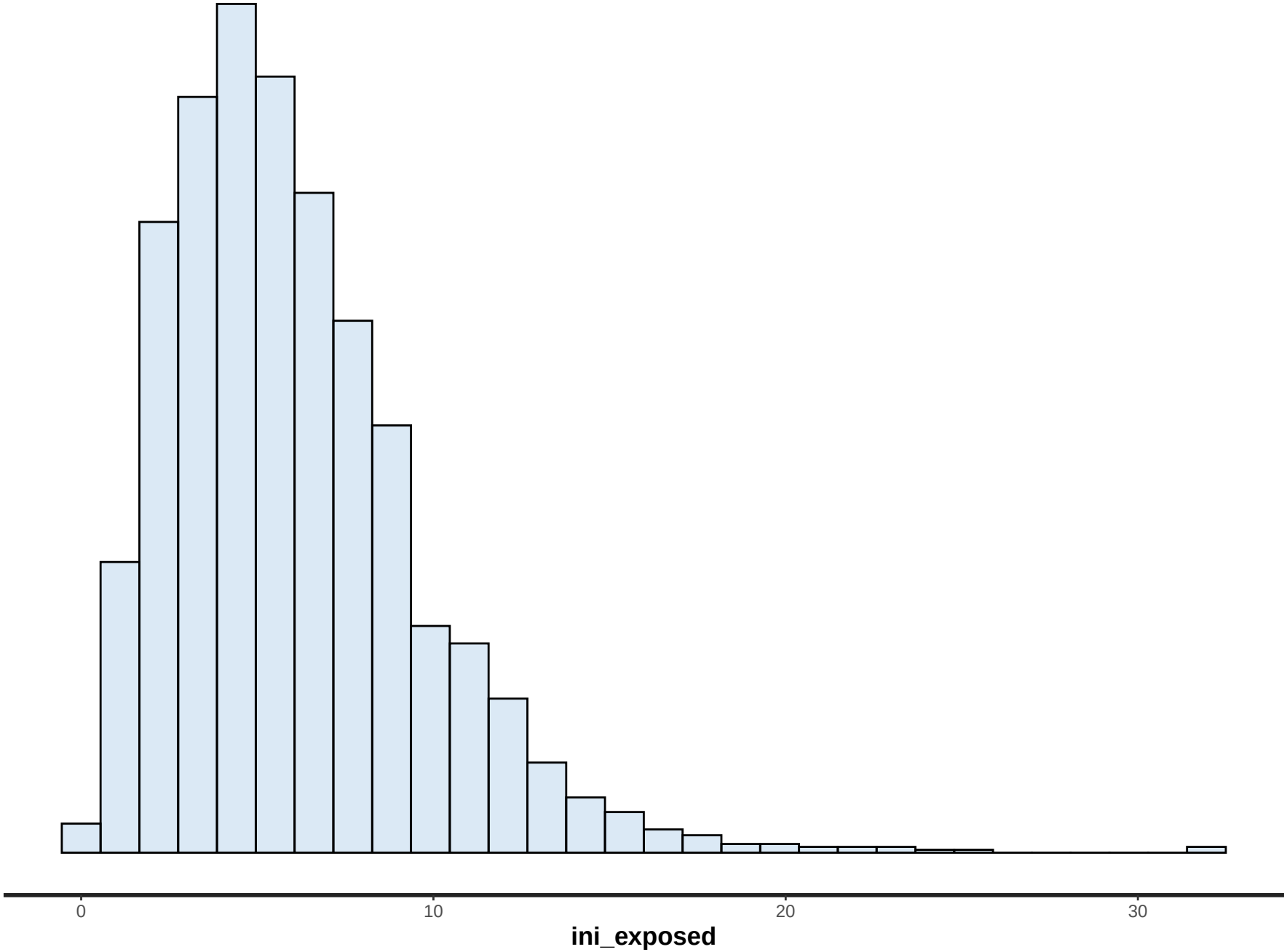
Jan 11
Jan 18
Jan 25
t_inter[17]
Jan 20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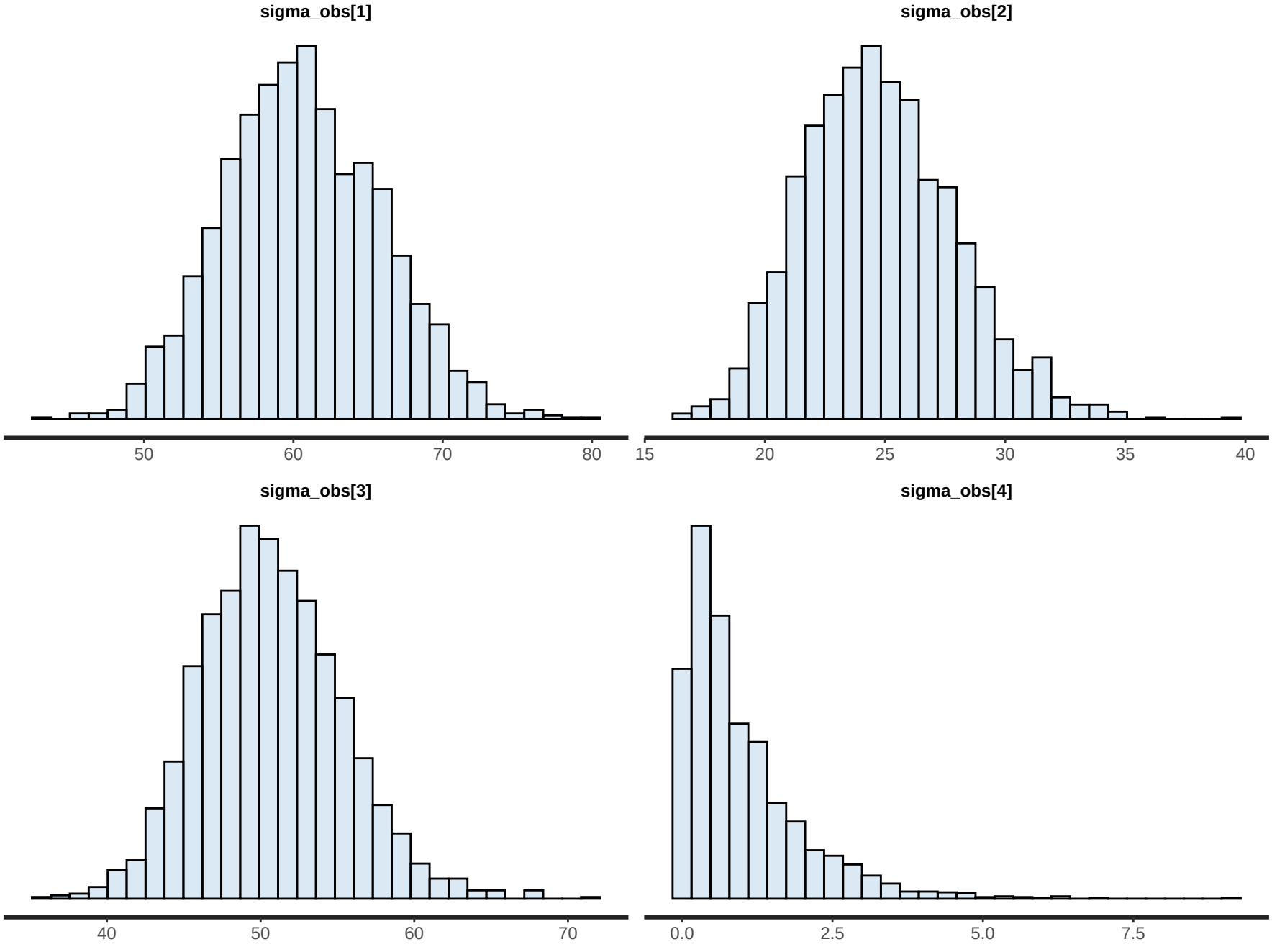
10
20
30
ini_exposed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sigma_obs[3]
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60
70
sigma_obs[4]
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2.5
5.0
7.5