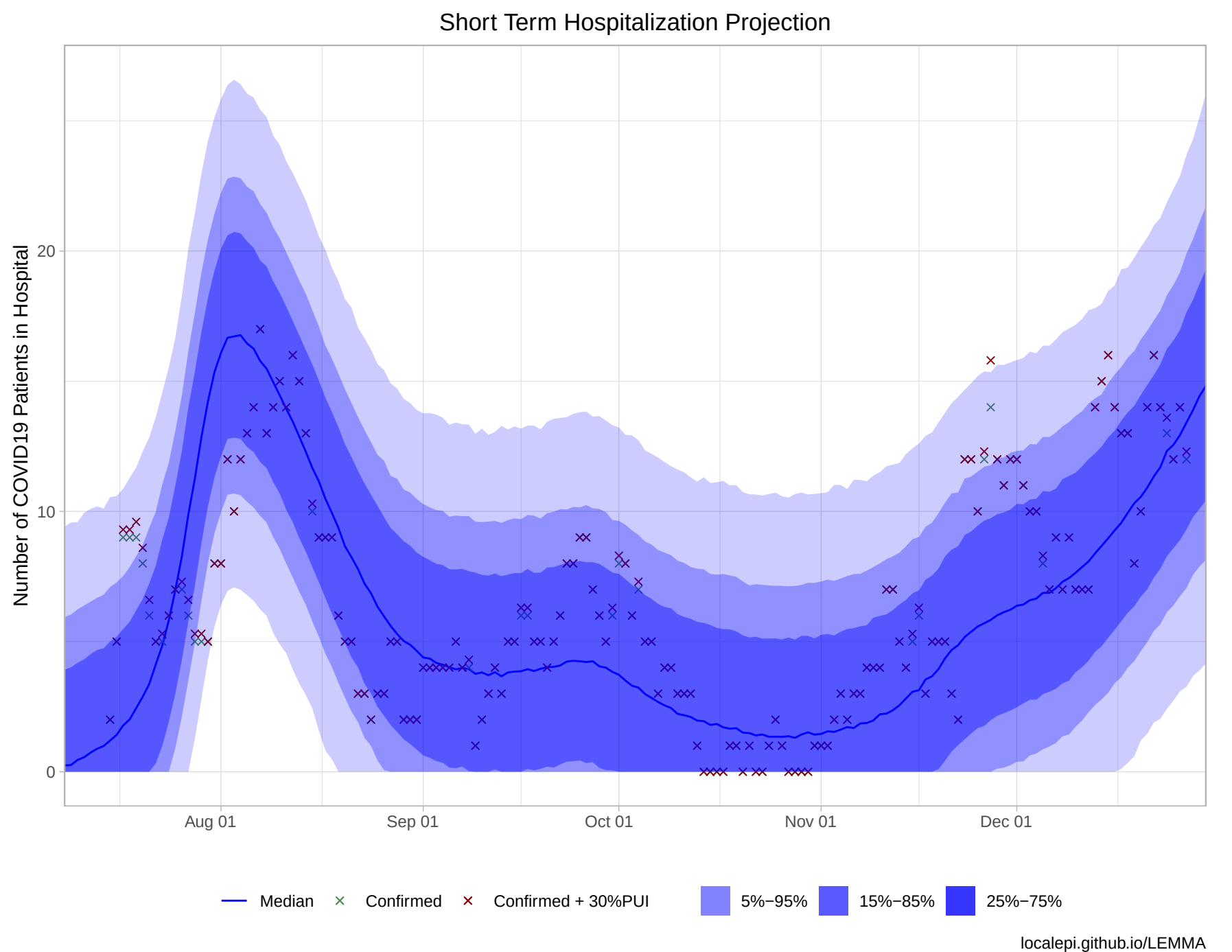
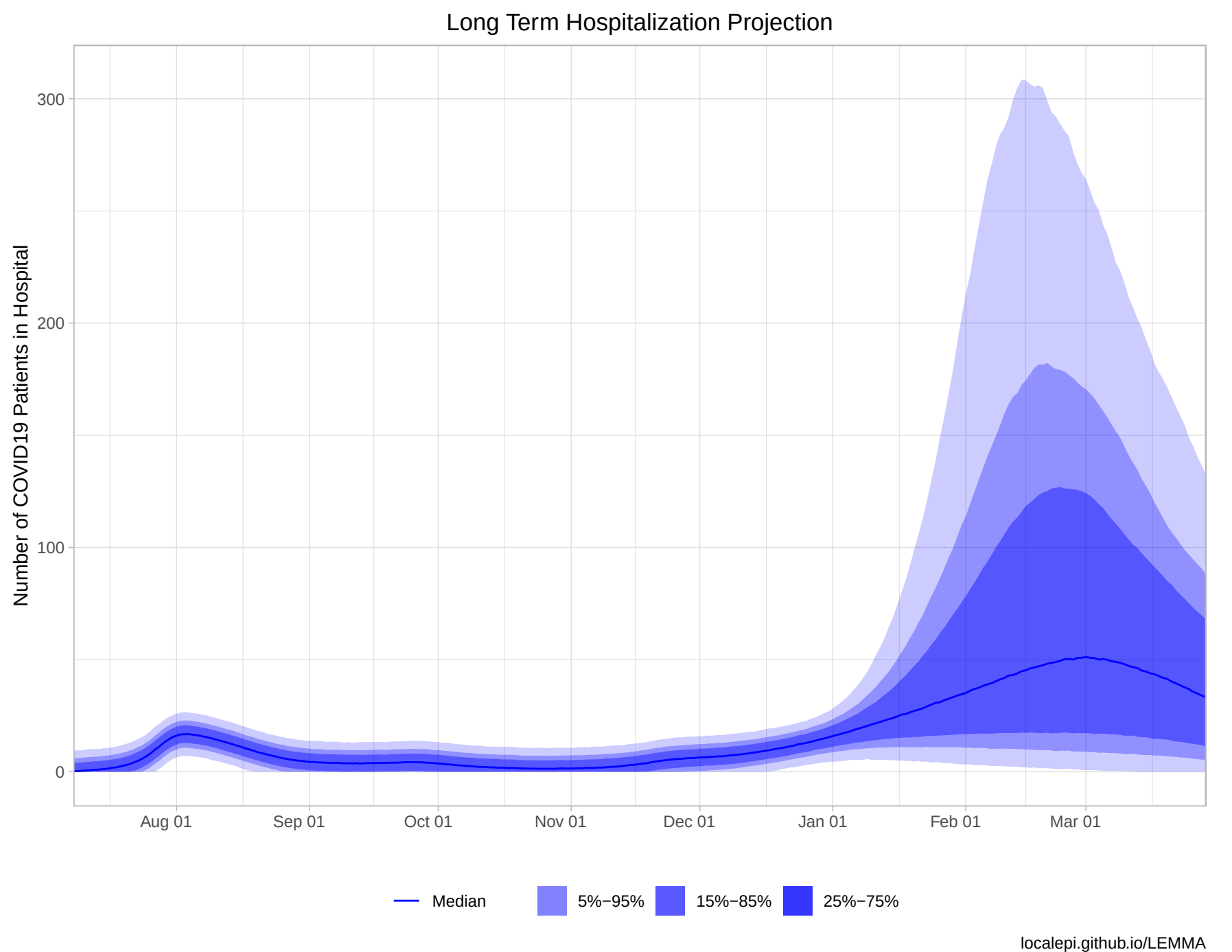
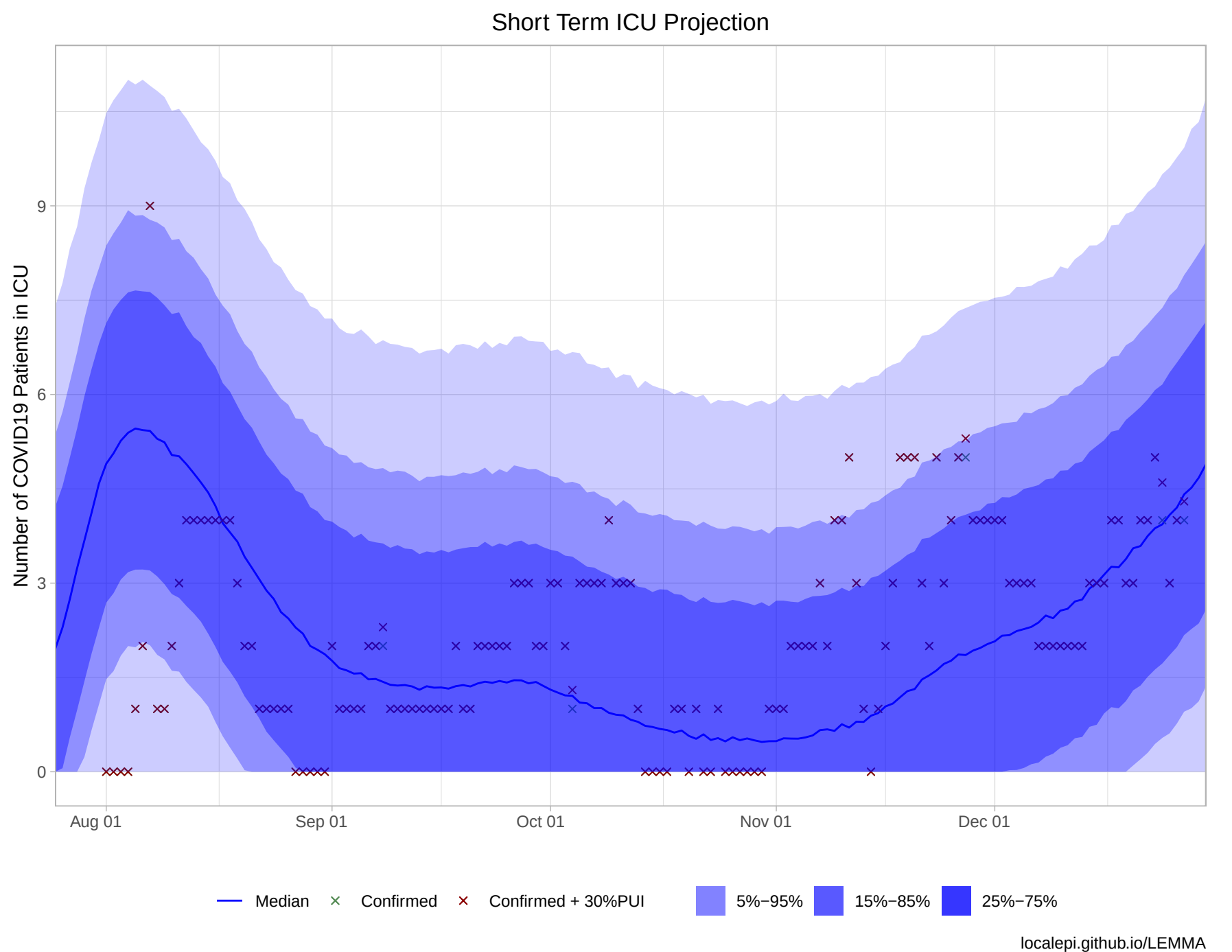
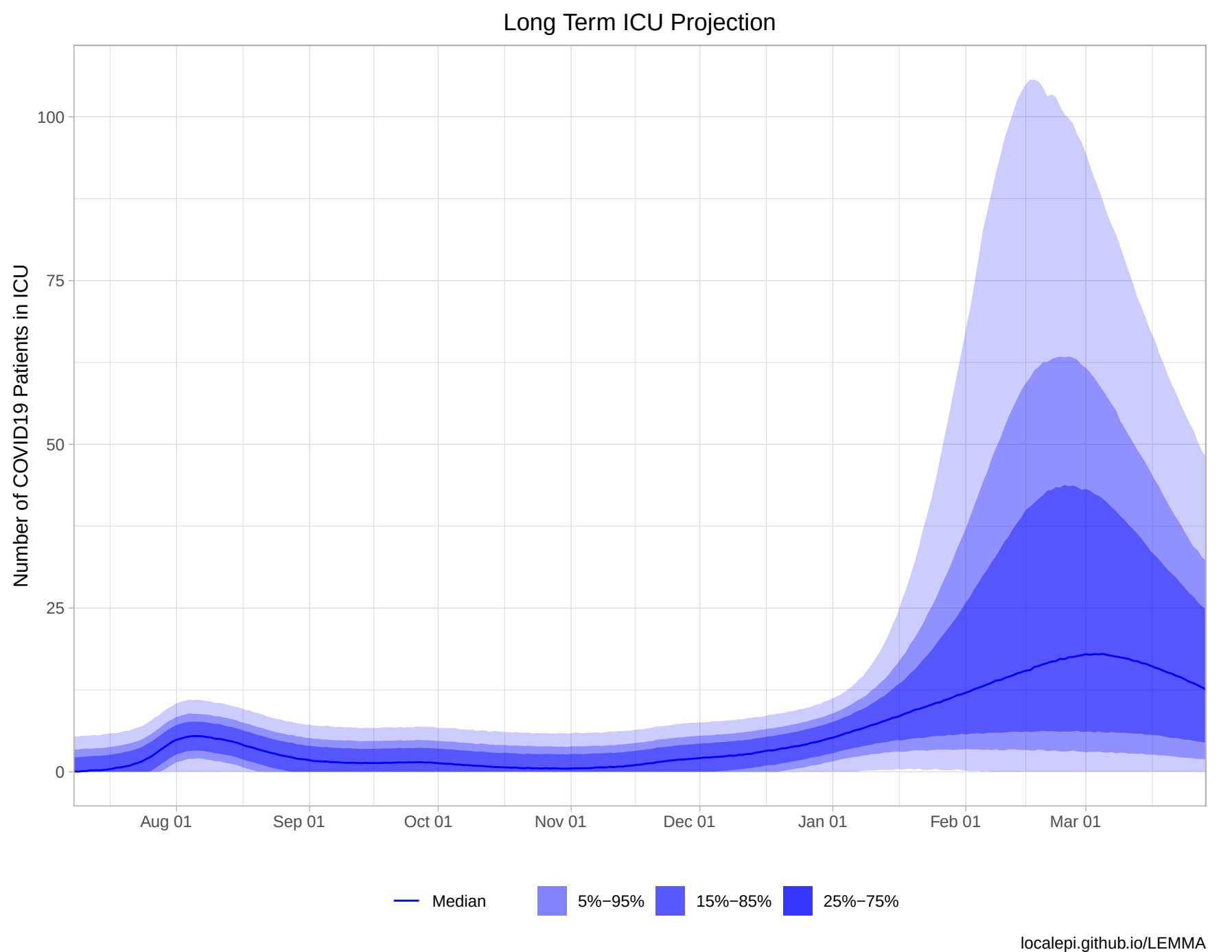
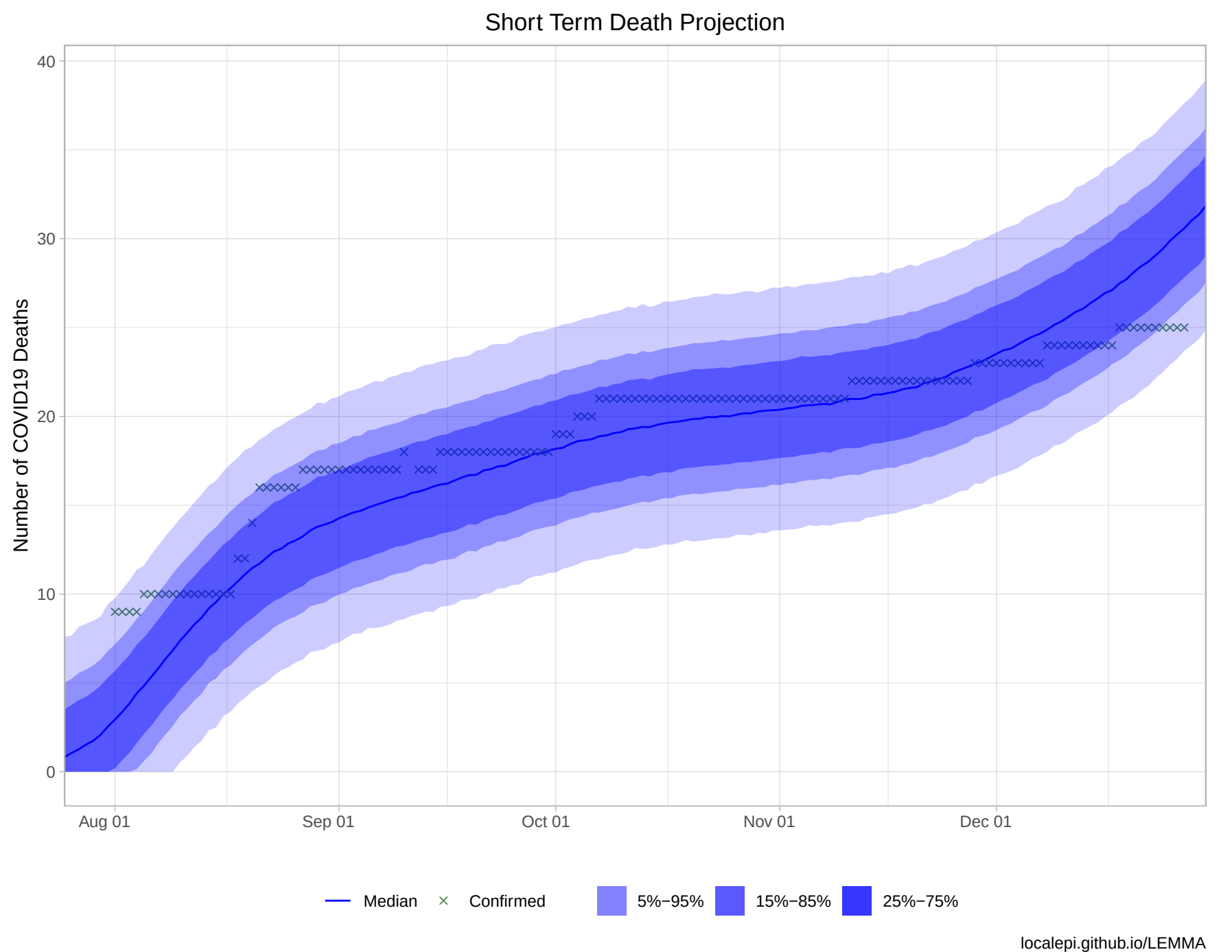
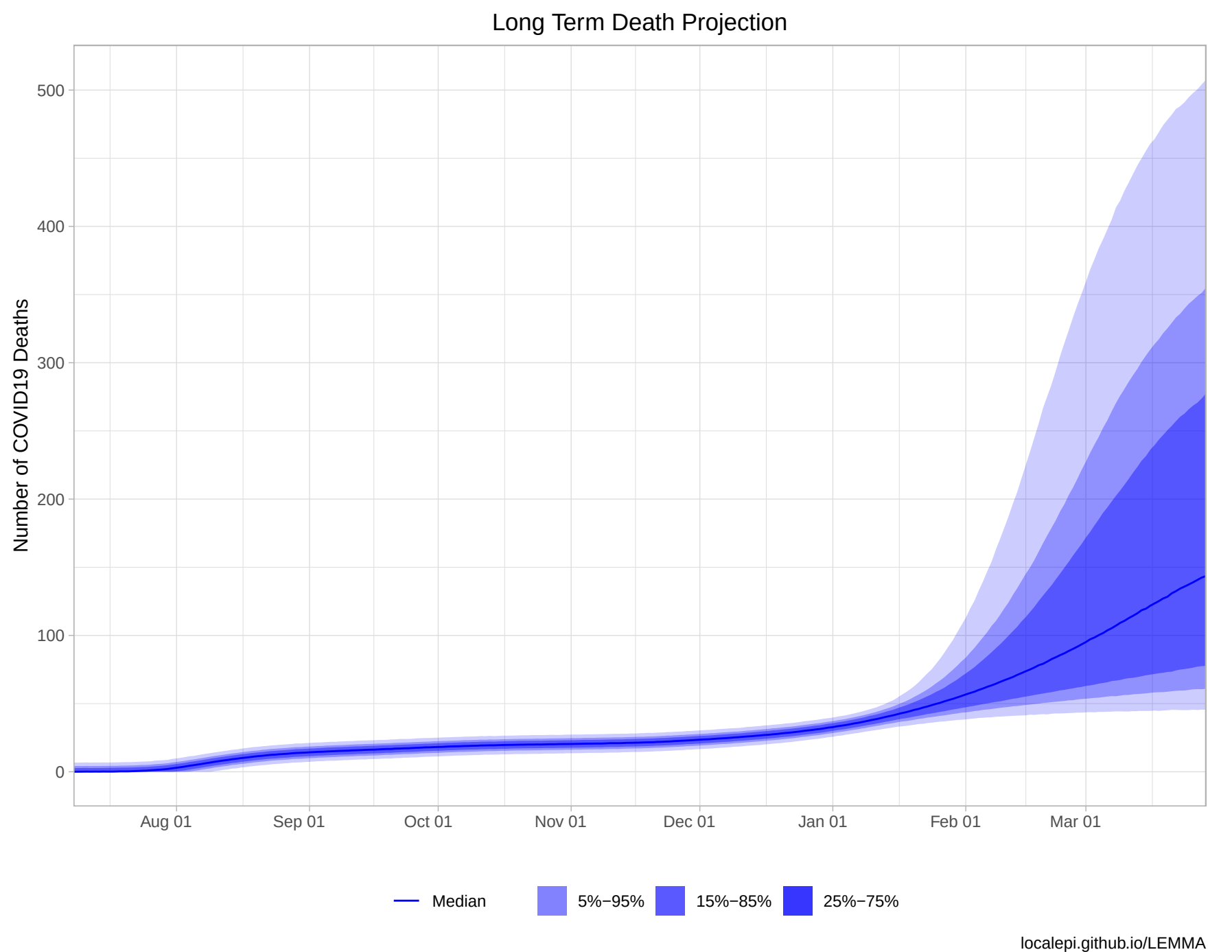

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
10
20
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

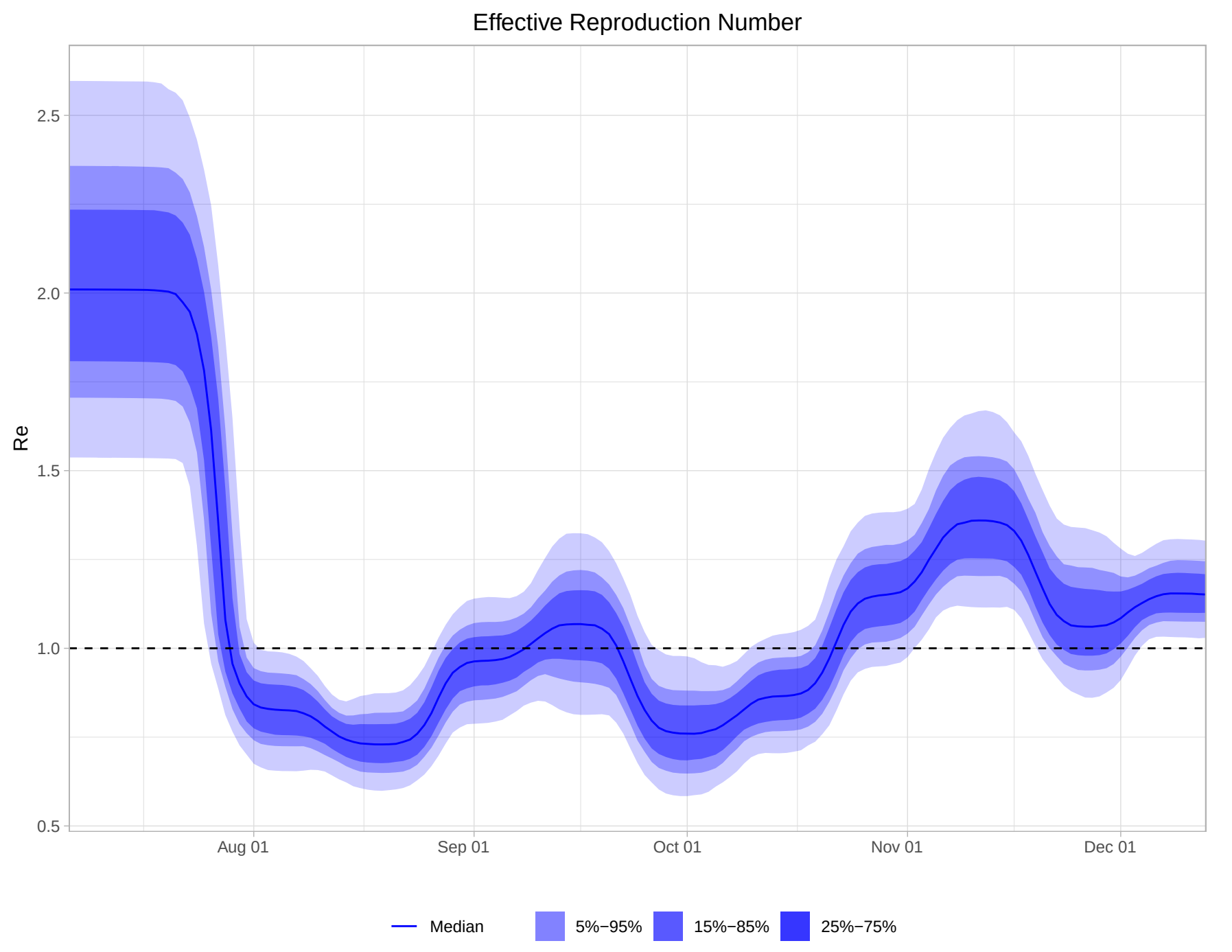

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
300
200
100
0
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


Short Term ICU Projection
Number of COVID19 Patients in ICU
0
3
6
9
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
100
75
50
25
0
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

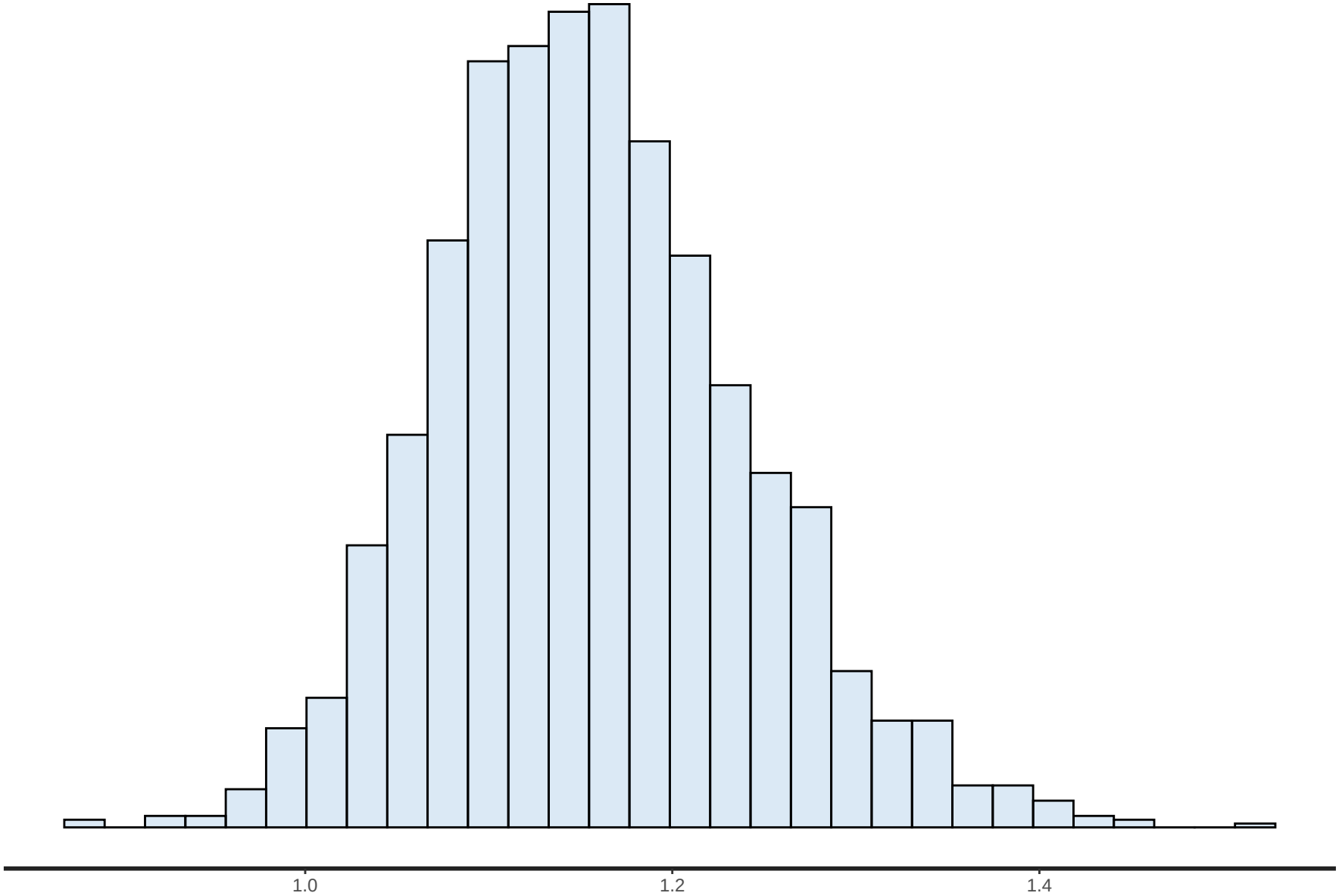

Short Term Death Projection
Number of COVID19 Deaths
40
30
20
10
0
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

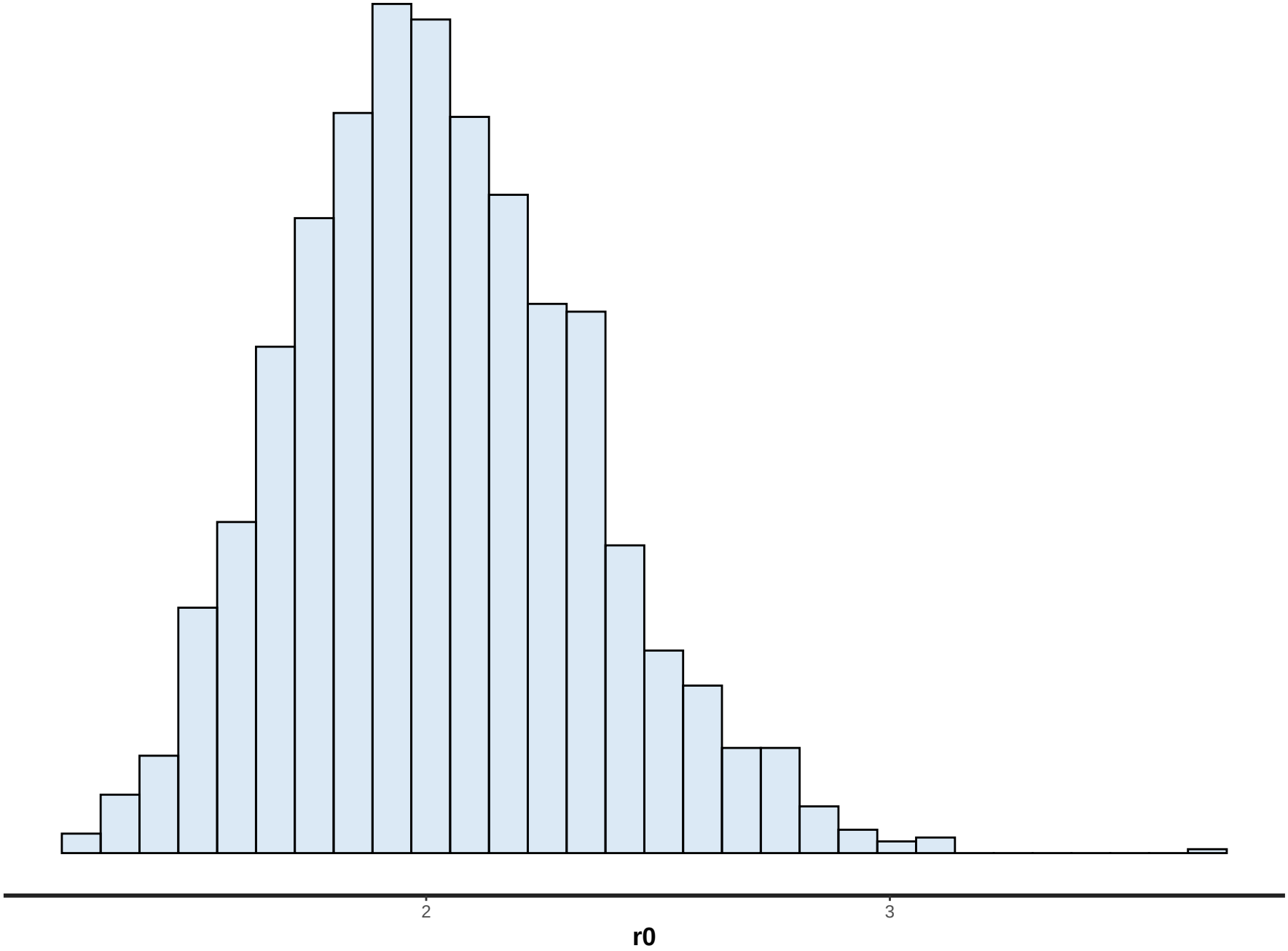

Long Term Death Projection
Number of COVID19 Deaths
500
400
300
200
100
0
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

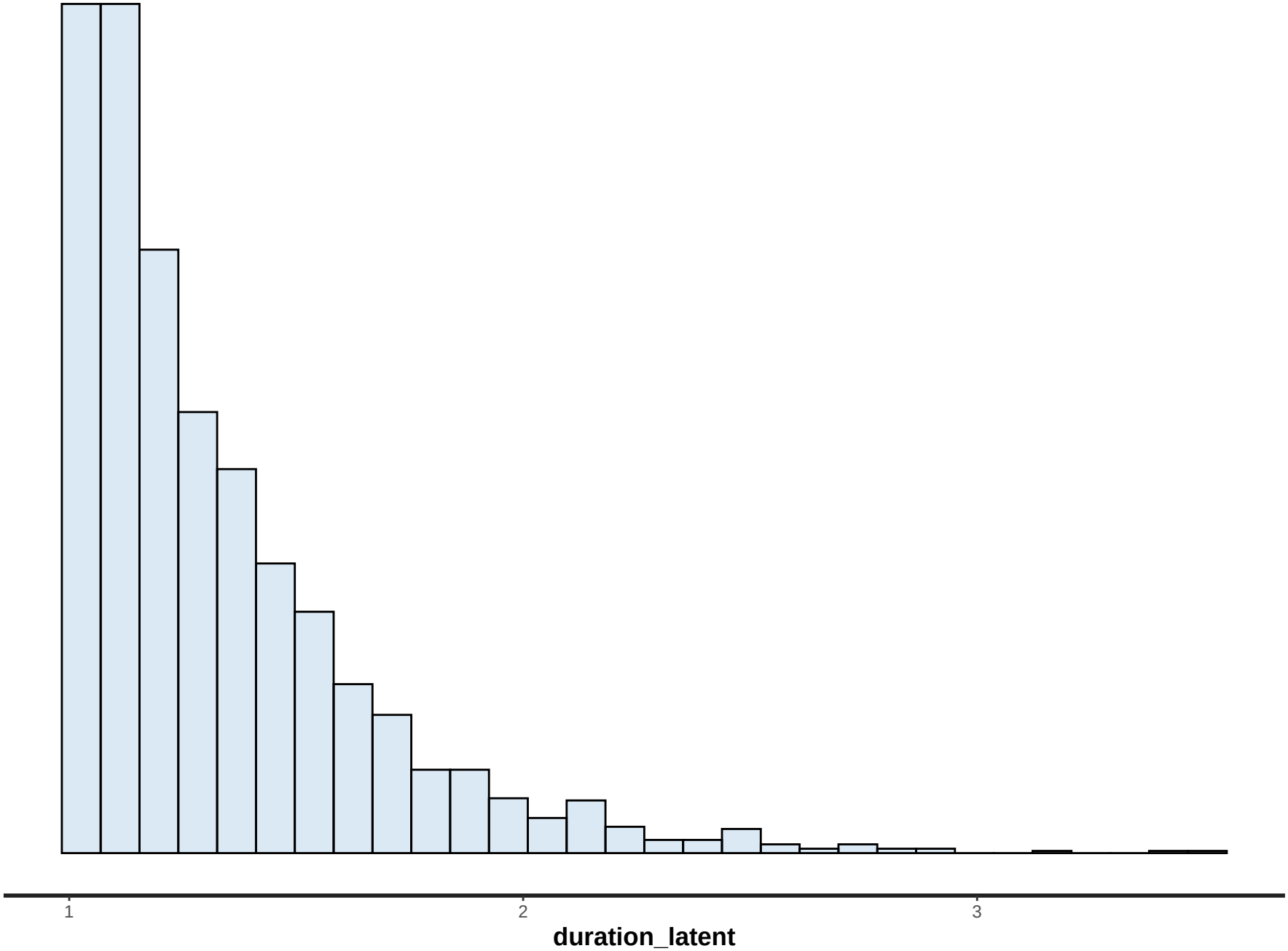

Effective Reproduction Number
Re
2.5
2.0
1.5
1.0
0.5
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
5%−95%
15%−85%
25%−75%

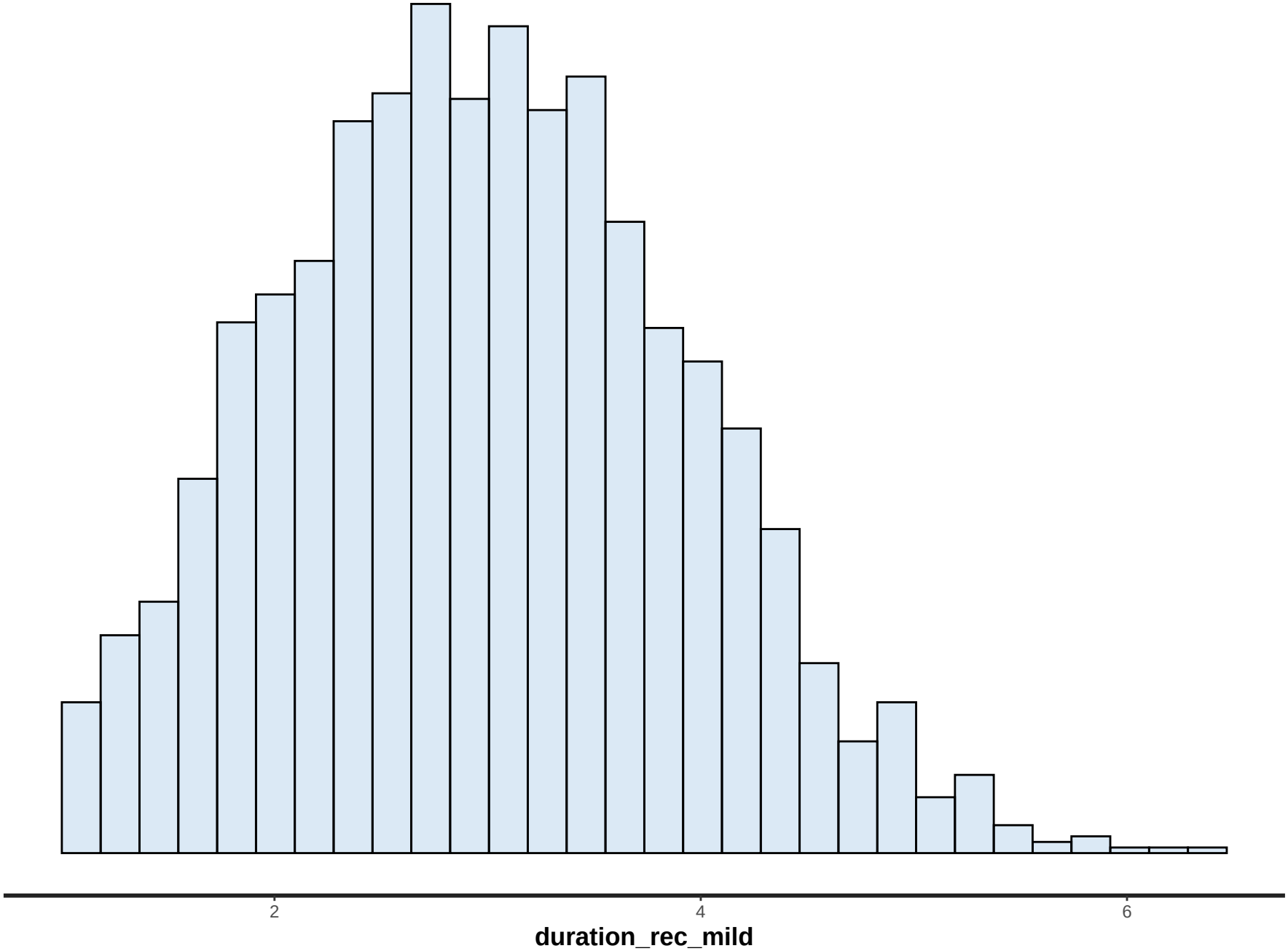
Rt as of 2020−12−13

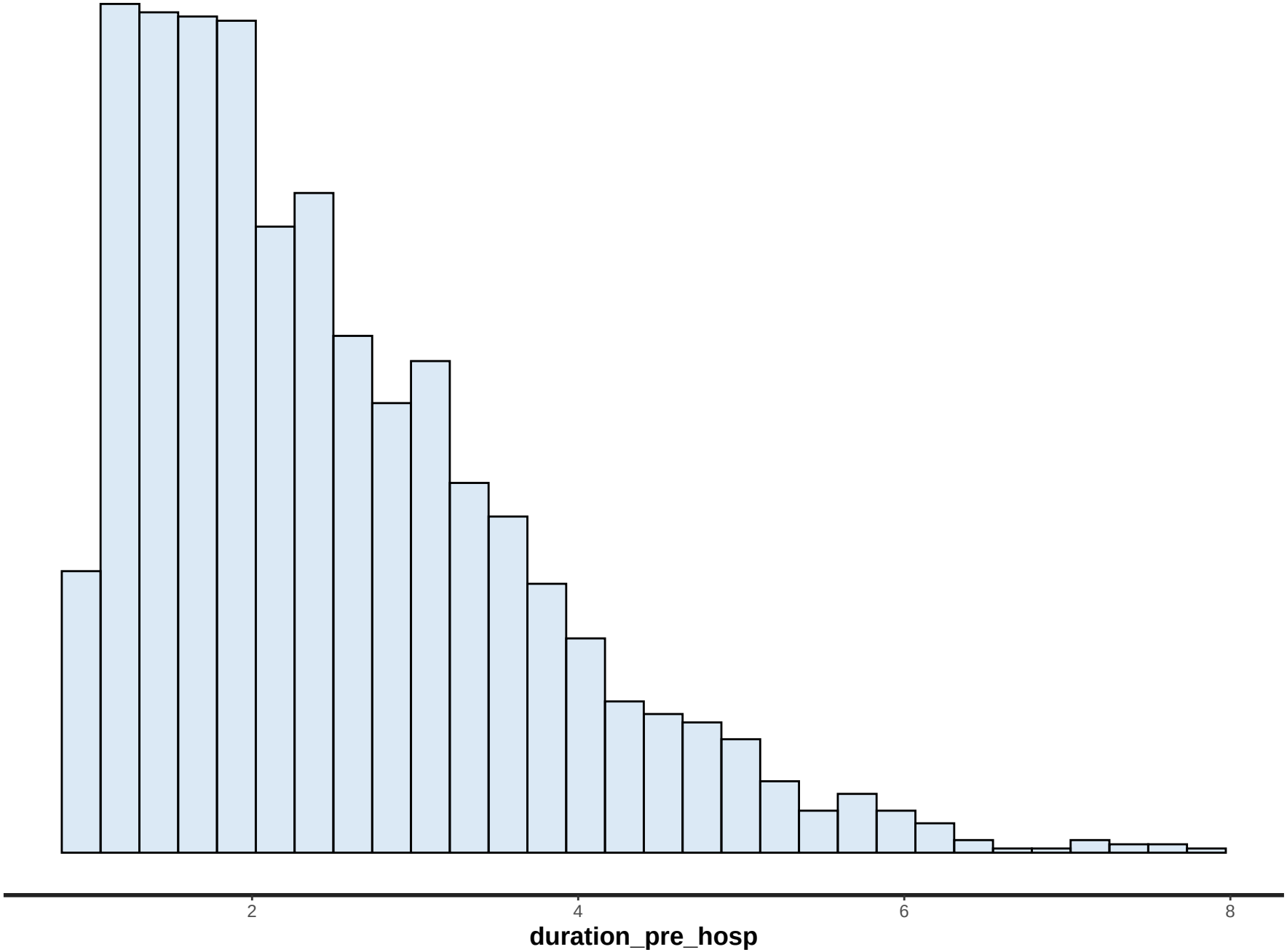
5%	10%	25%	50%	75%	90%	95%
1.03	1.06	1.10	1.15	1.21	1.27	1.30

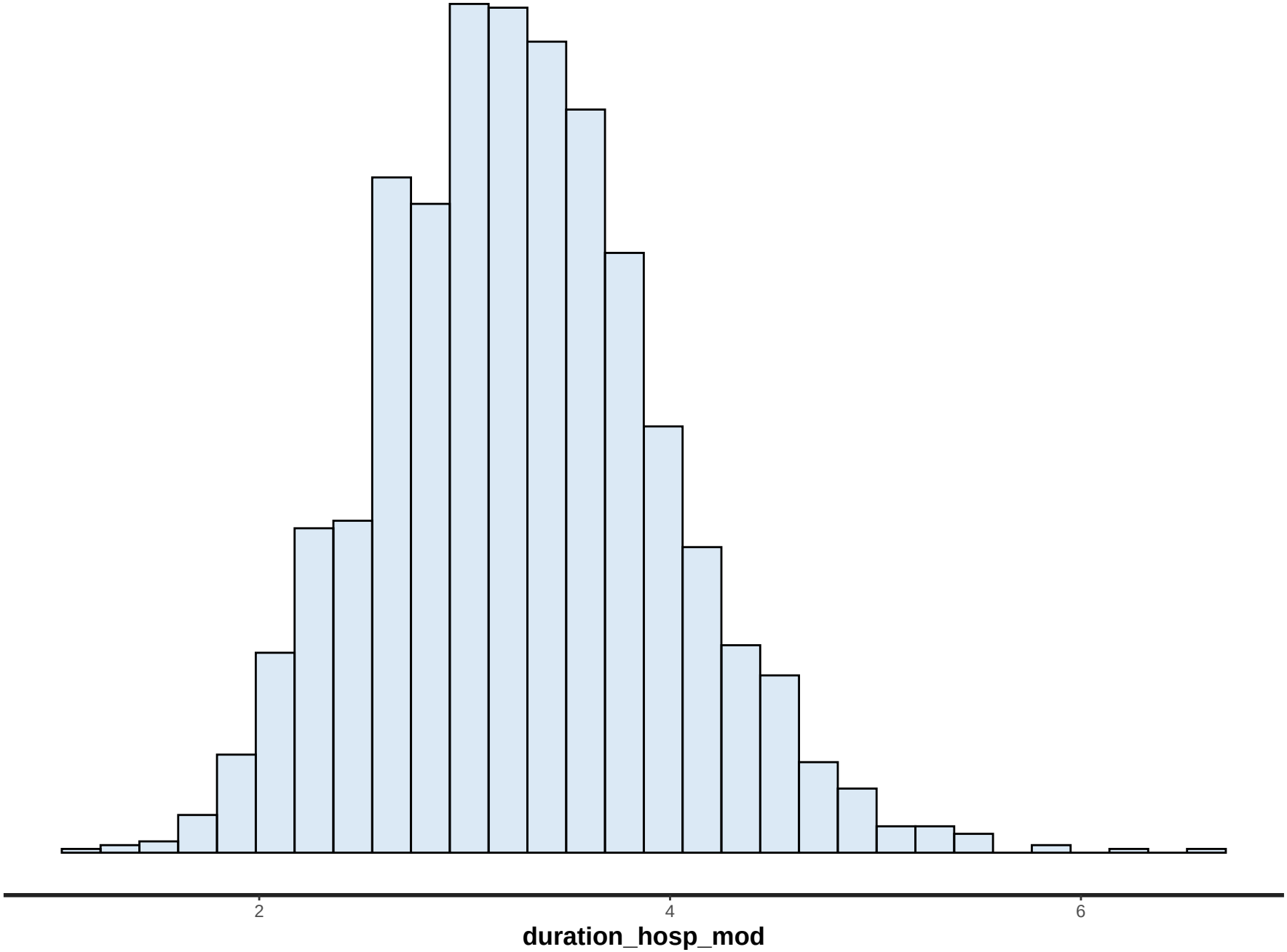


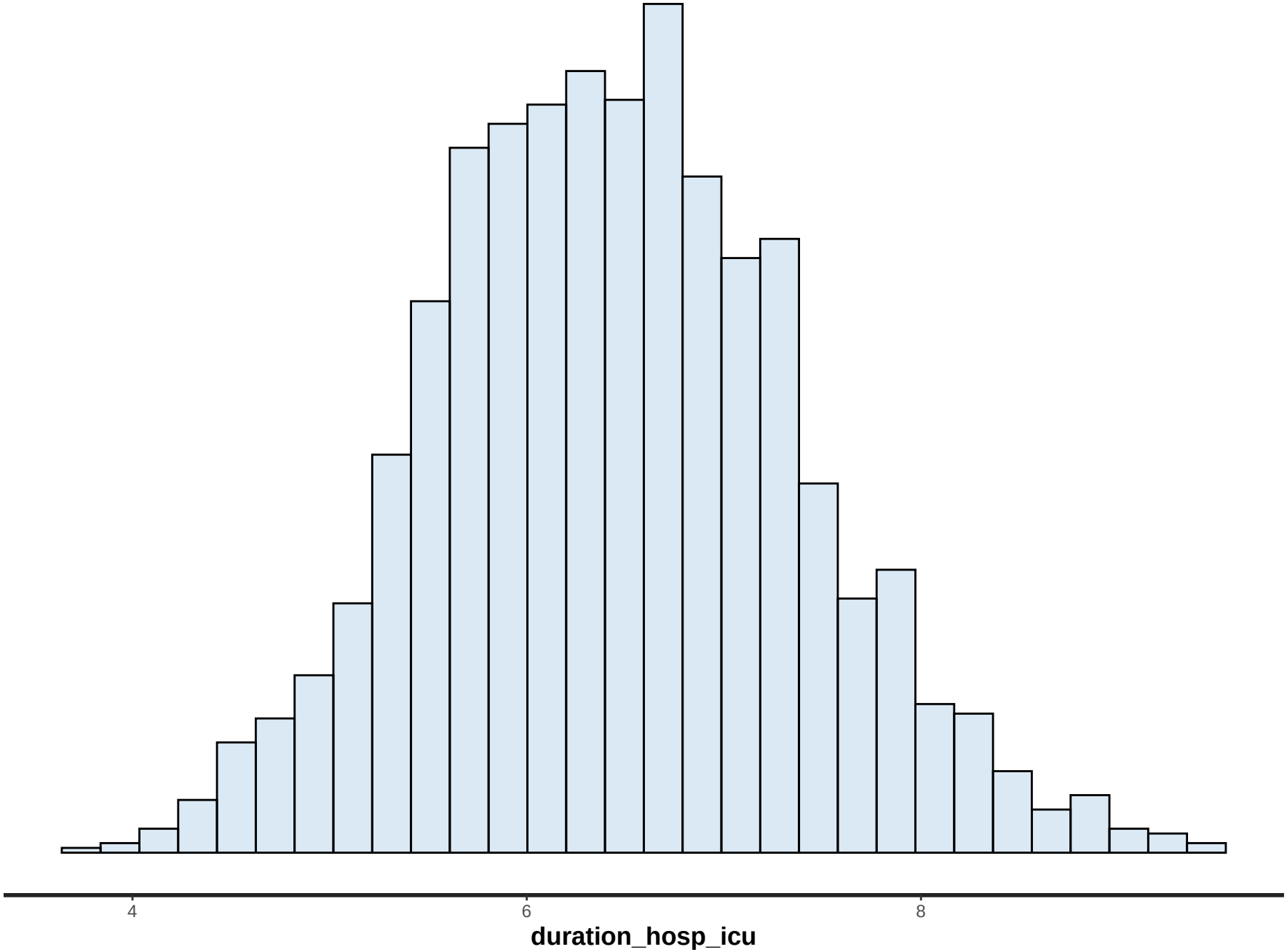

2
3
r0

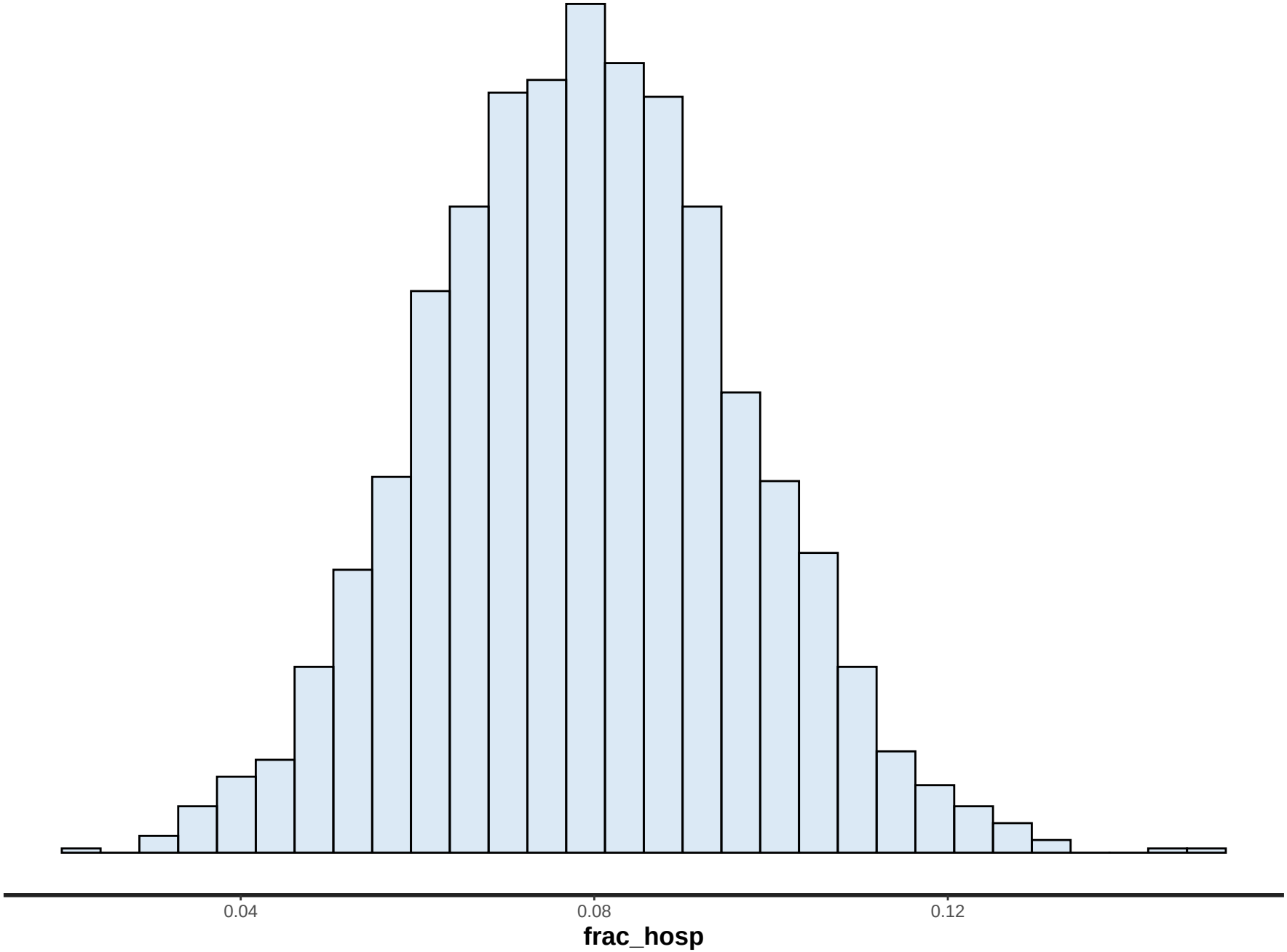

1
2
3
duration_latent

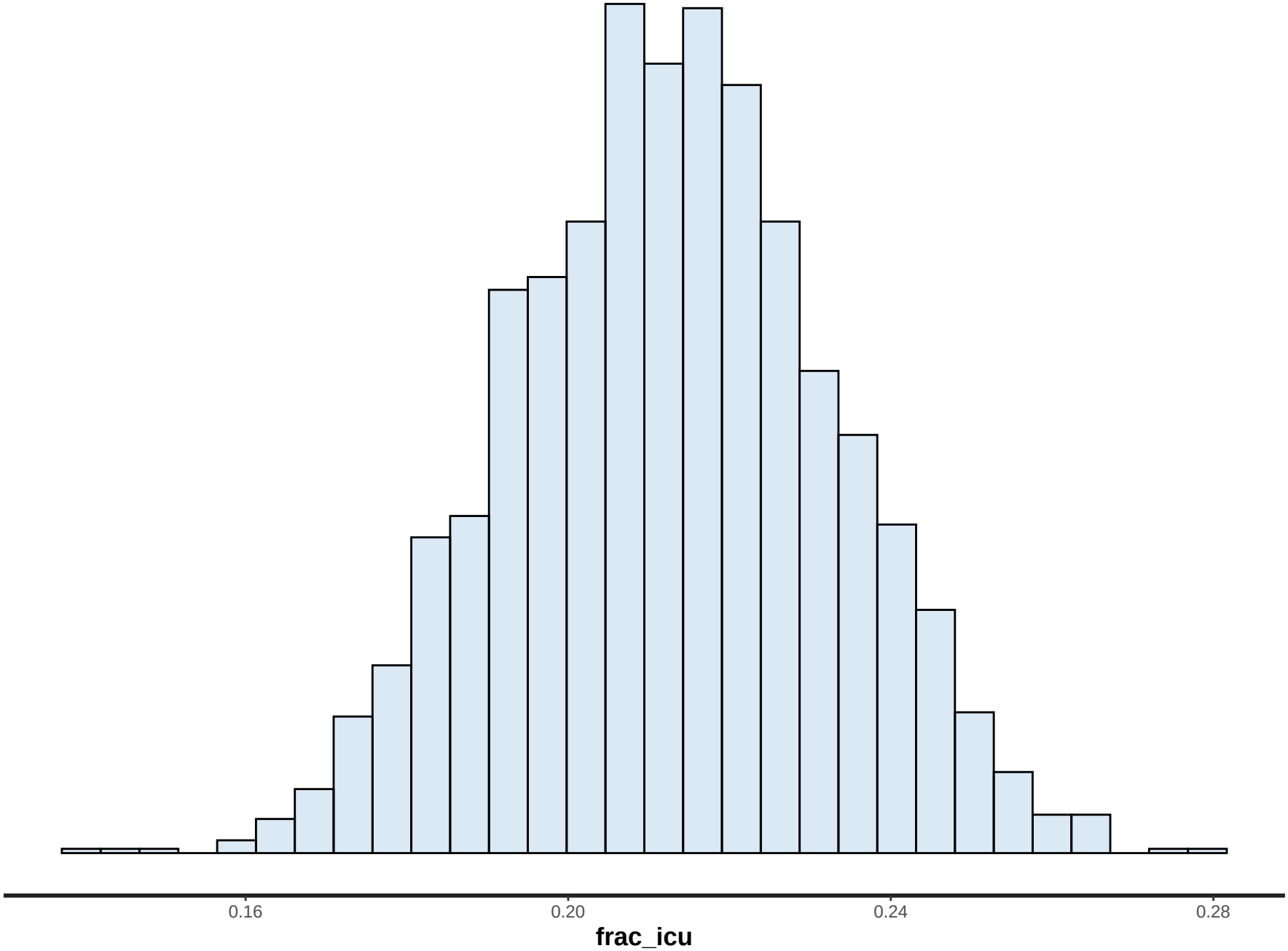

2
4
6
duration_rec_mild

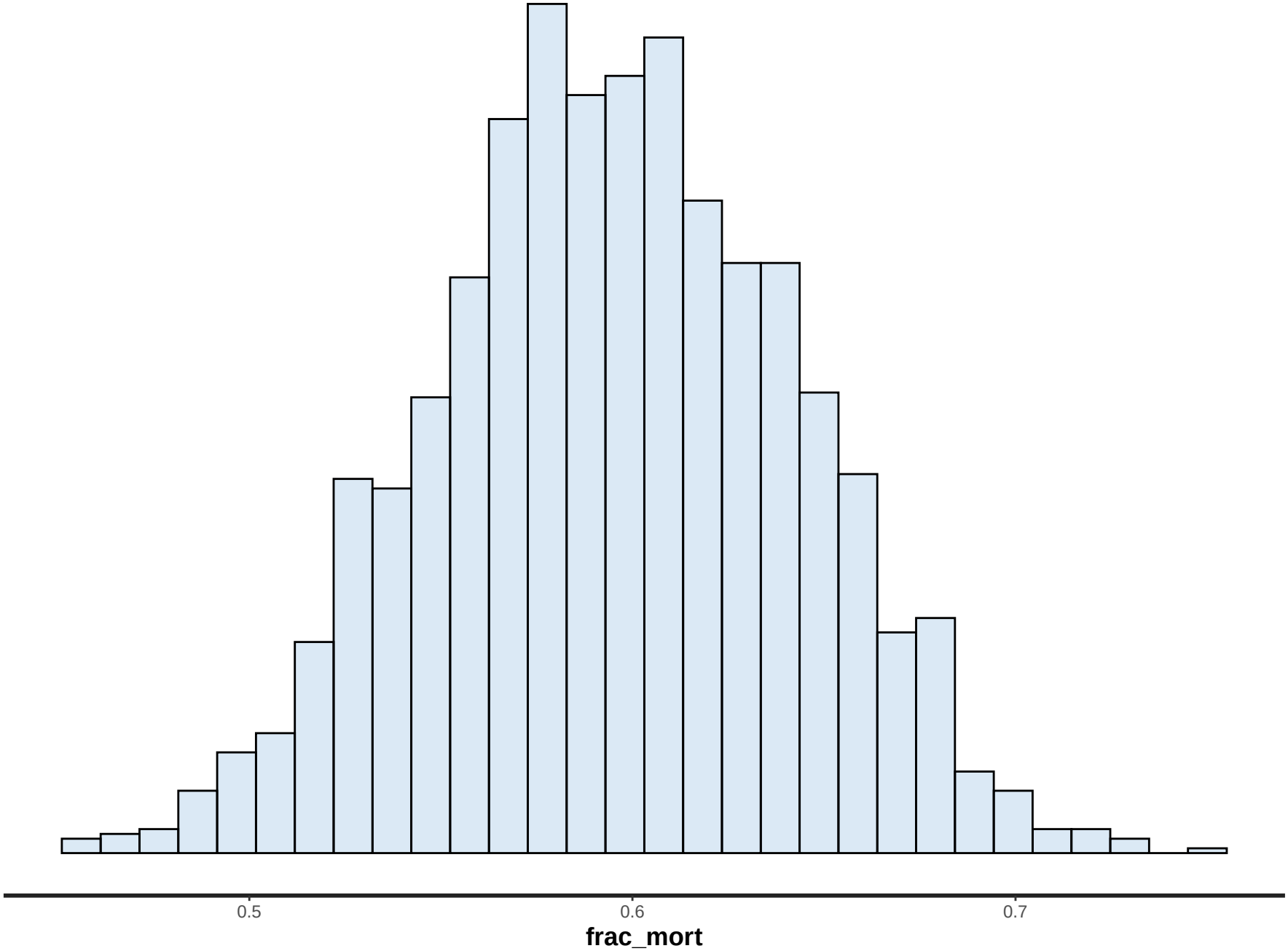

2
4
6
8
duration_pre_hosp

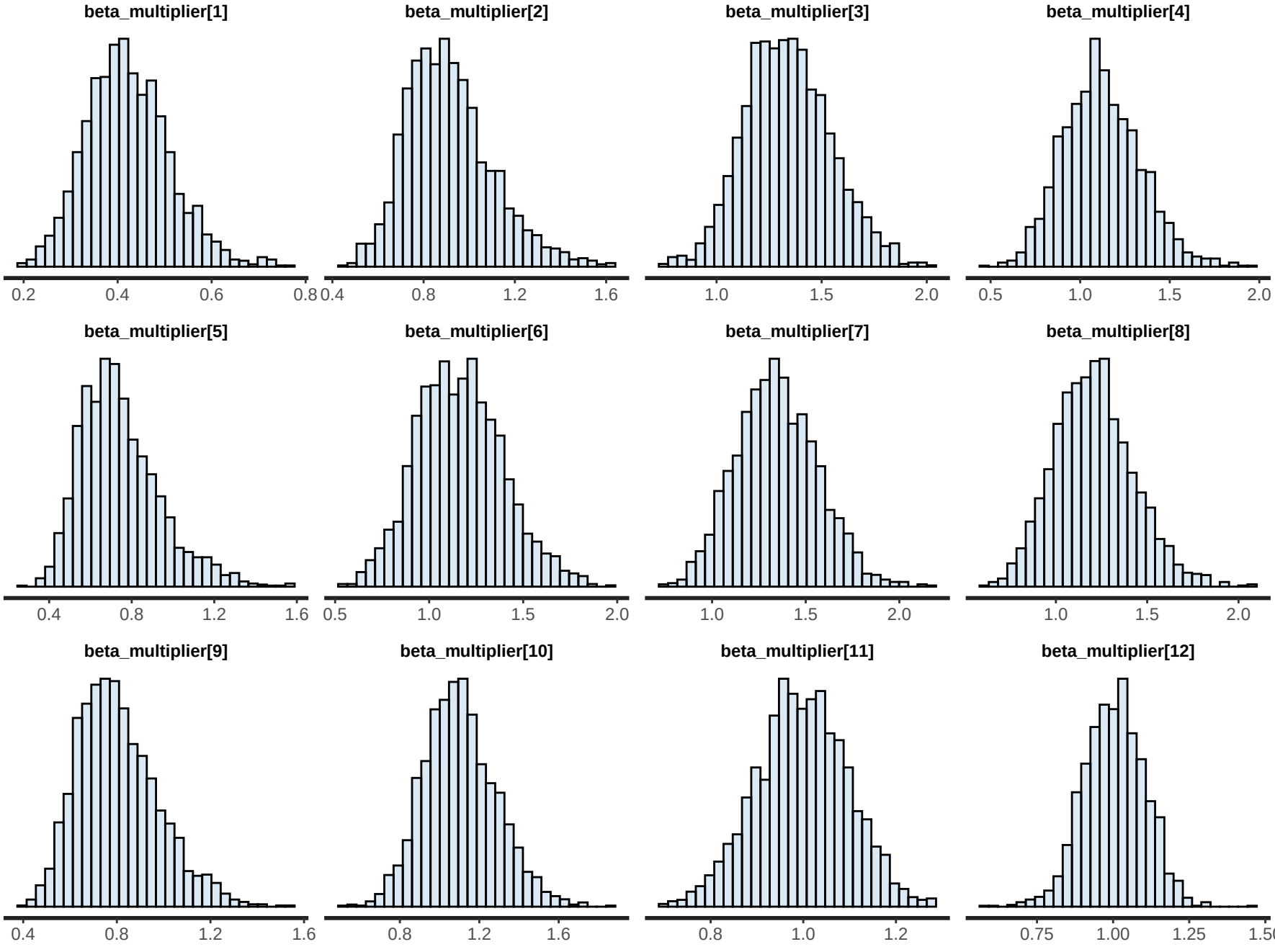

2
4
6
duration_hosp_mod


4
6
8
duration_hosp_icu


0.04
0.08
0.12
frac_hosp


0.16
0.20
0.24
0.28
frac_icu


0.5
0.6
0.7
frac_mort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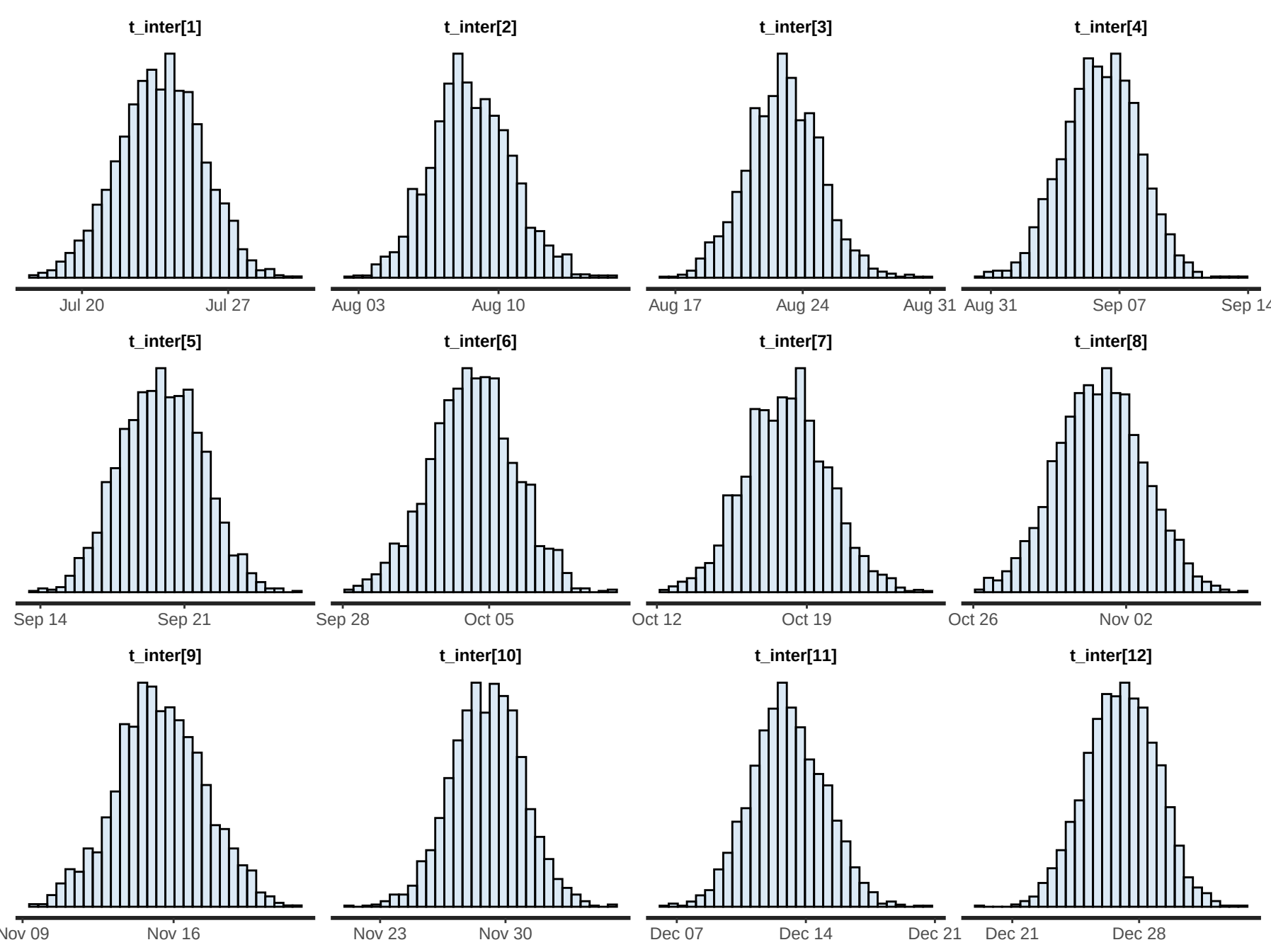
0.2
0.4
0.6
0.8
beta_multiplier[2]
0.4
0.8
1.2
1.6
beta_multiplier[3]
1.0
1.5
2.0
beta_multiplier[4]
0.5
1.0
1.5
2.0
beta_multiplier[5]
0.4
0.8
1.2
1.6
beta_multiplier[6]
0.5
1.0
1.5
2.0
beta_multiplier[7]
1.0
1.5
2.0
beta_multiplier[8]
1.0
1.5
2.0
beta_multiplier[9]
0.4
0.8
1.2
1.6
beta_multiplier[10]
0.8
1.2
1.6
beta_multiplier[11]
0.8
1.0
1.2
beta_multiplier[12]
0.75
1.00
1.25
1.50


t_inter[1]
Jul 20
Jul 27
t_inter[2]
Aug 03
Aug 10
t_inter[3]
Aug 17
Aug 24
Aug 31
t_inter[4]
Aug 31
Sep 07
Sep 14
t_inter[5]
Sep 14
Sep 21
t_inter[6]
Sep 28
Oct 05
t_inter[7]
Oct 12
Oct 19
t_inter[8]
Oct 26
Nov 02
t_inter[9]
Nov 09
Nov 16
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Nov 23
Nov 30
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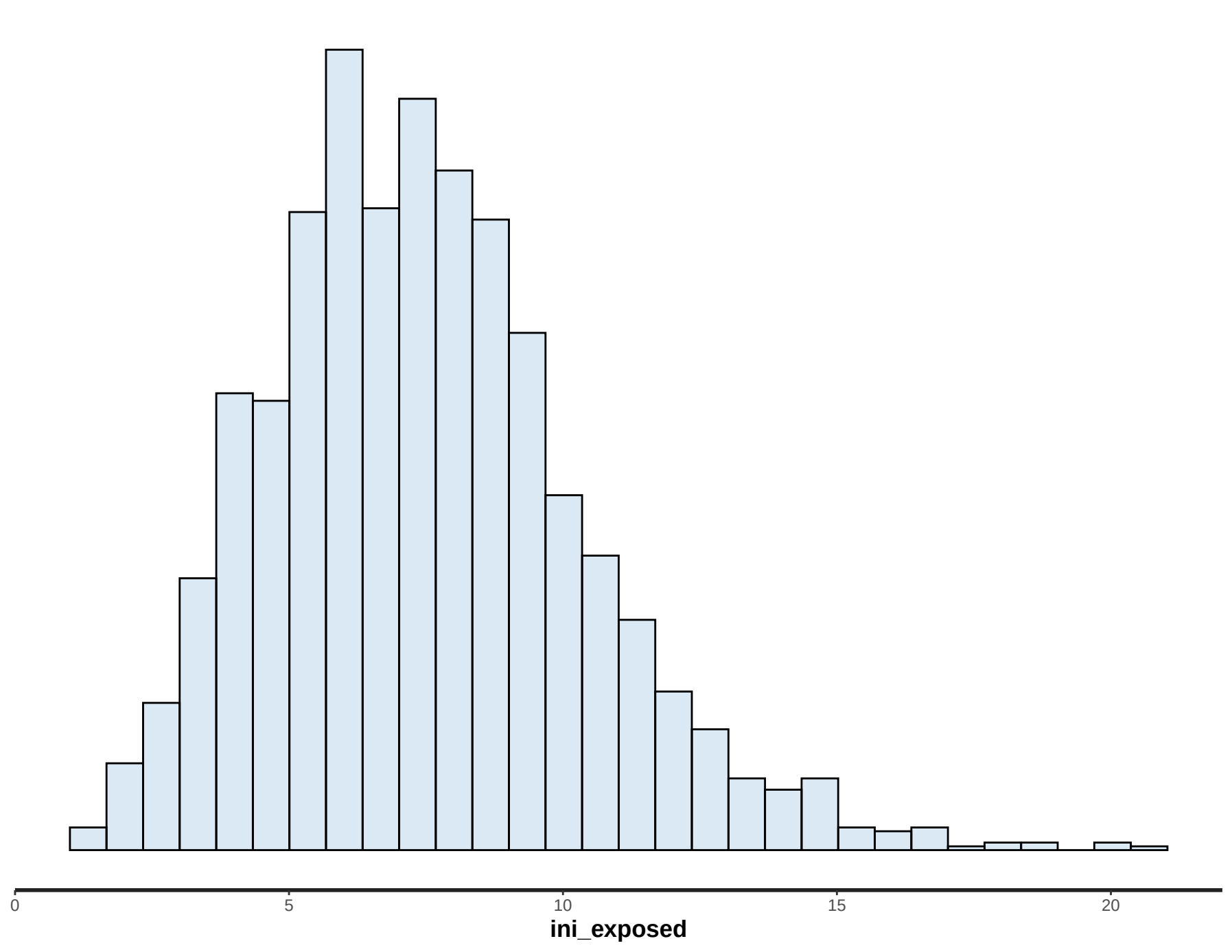
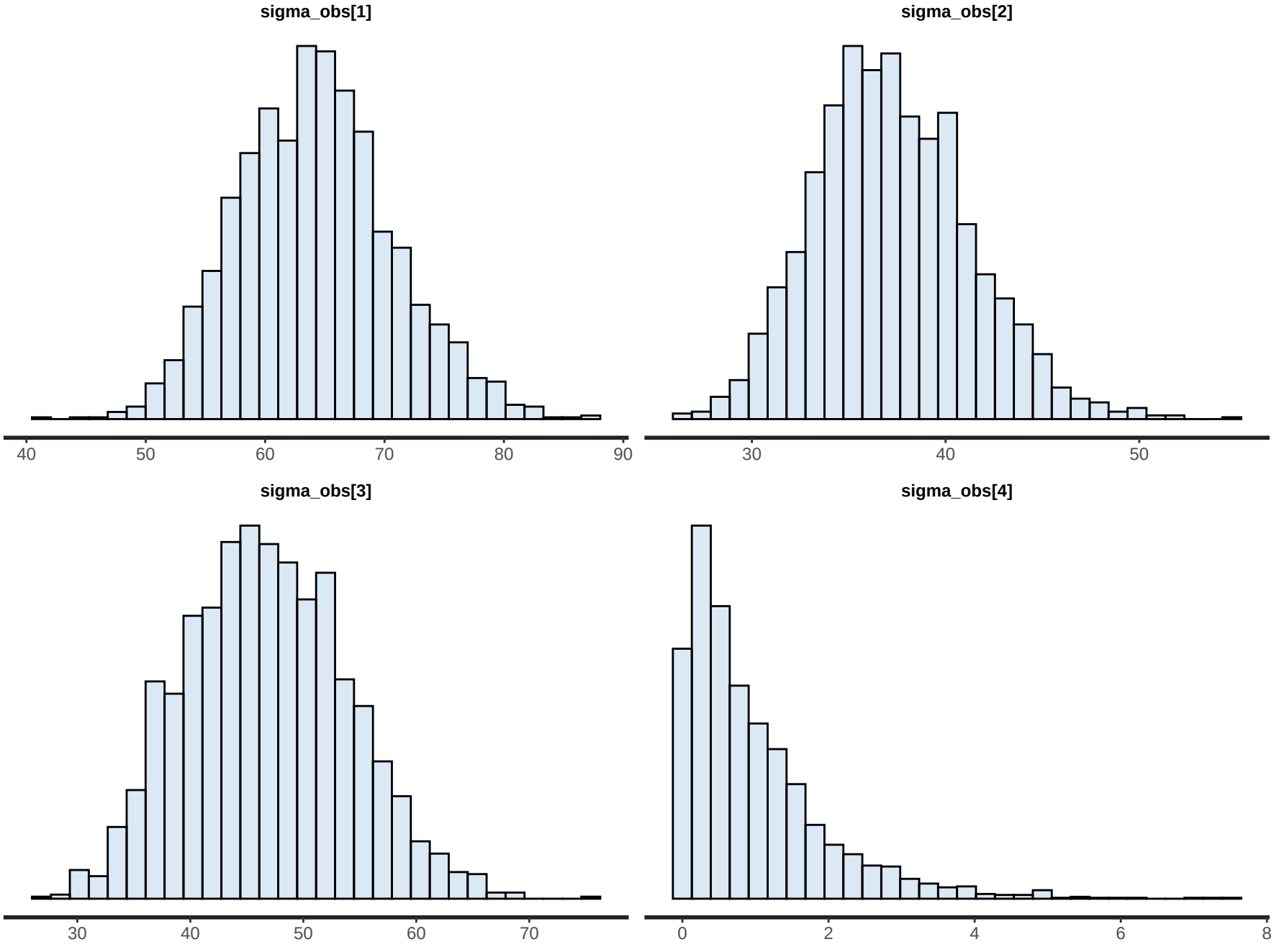
Dec 07
Dec 14
Dec 21
t_inter[12]
Dec 21
Dec 28


0
5
10
15
20
ini_exposed


sigma_obs[1]
40
50
60
70
80
90
sigma_obs[2]
30
40
50
sigma_obs[3]
30
40
50
60
70
sigma_obs[4]
0
2
4
6
8