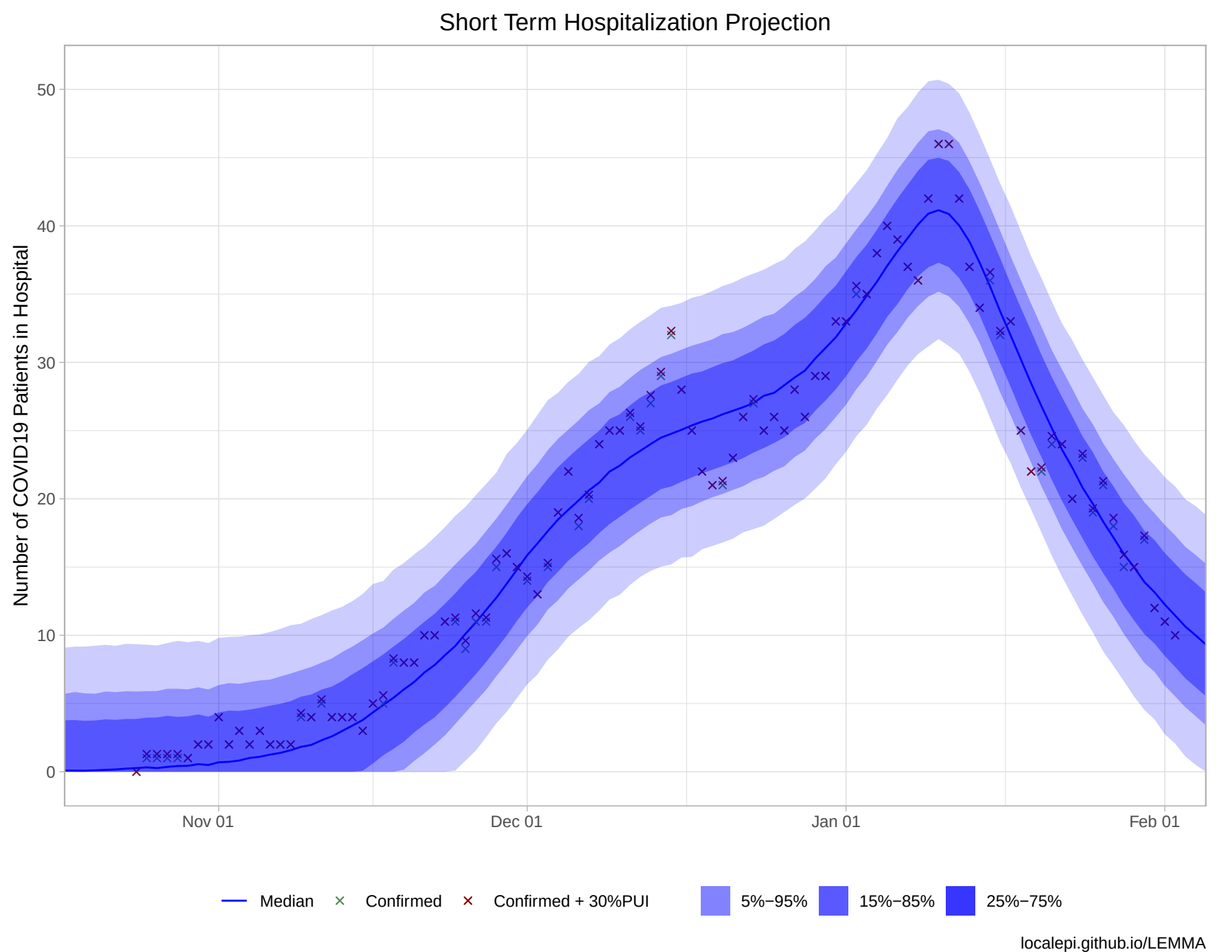
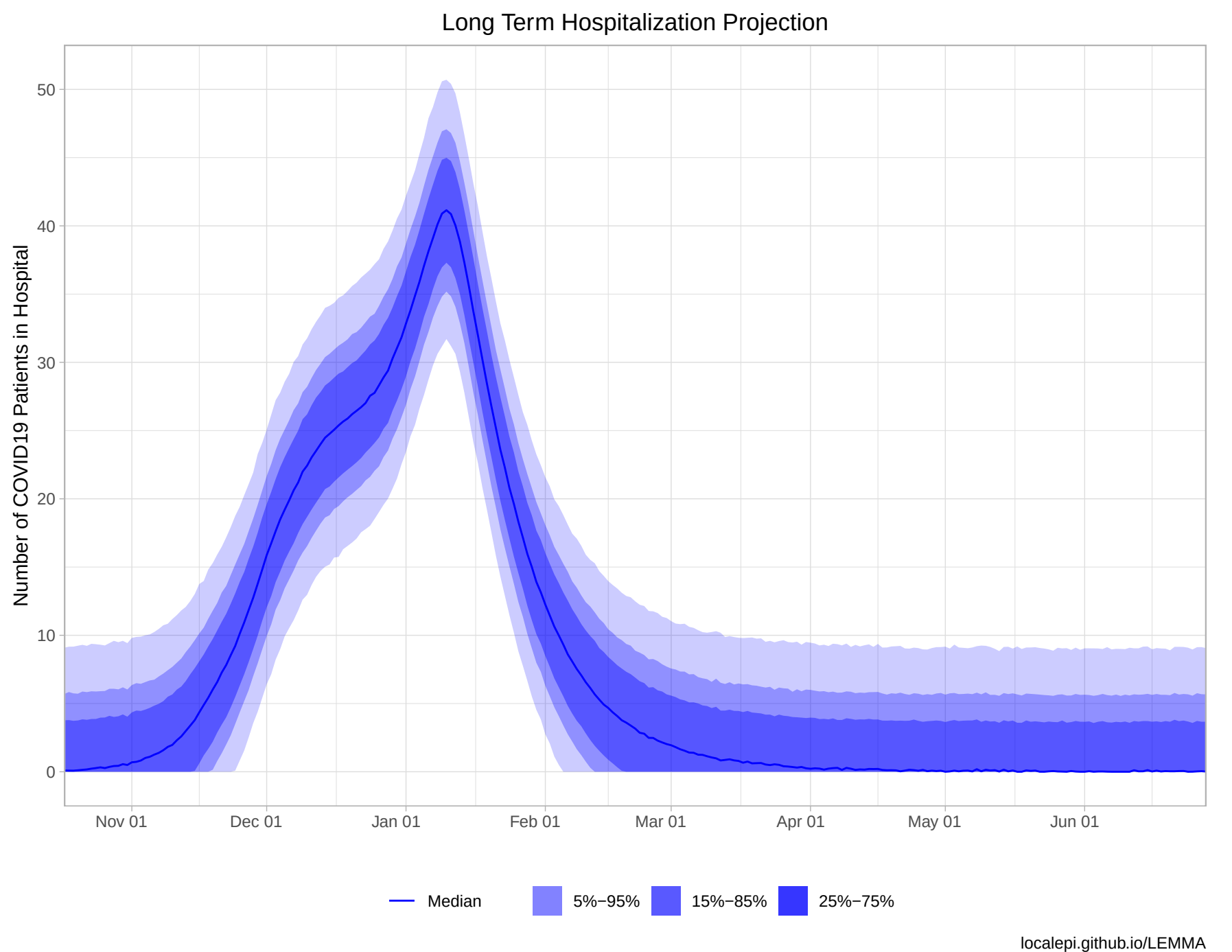
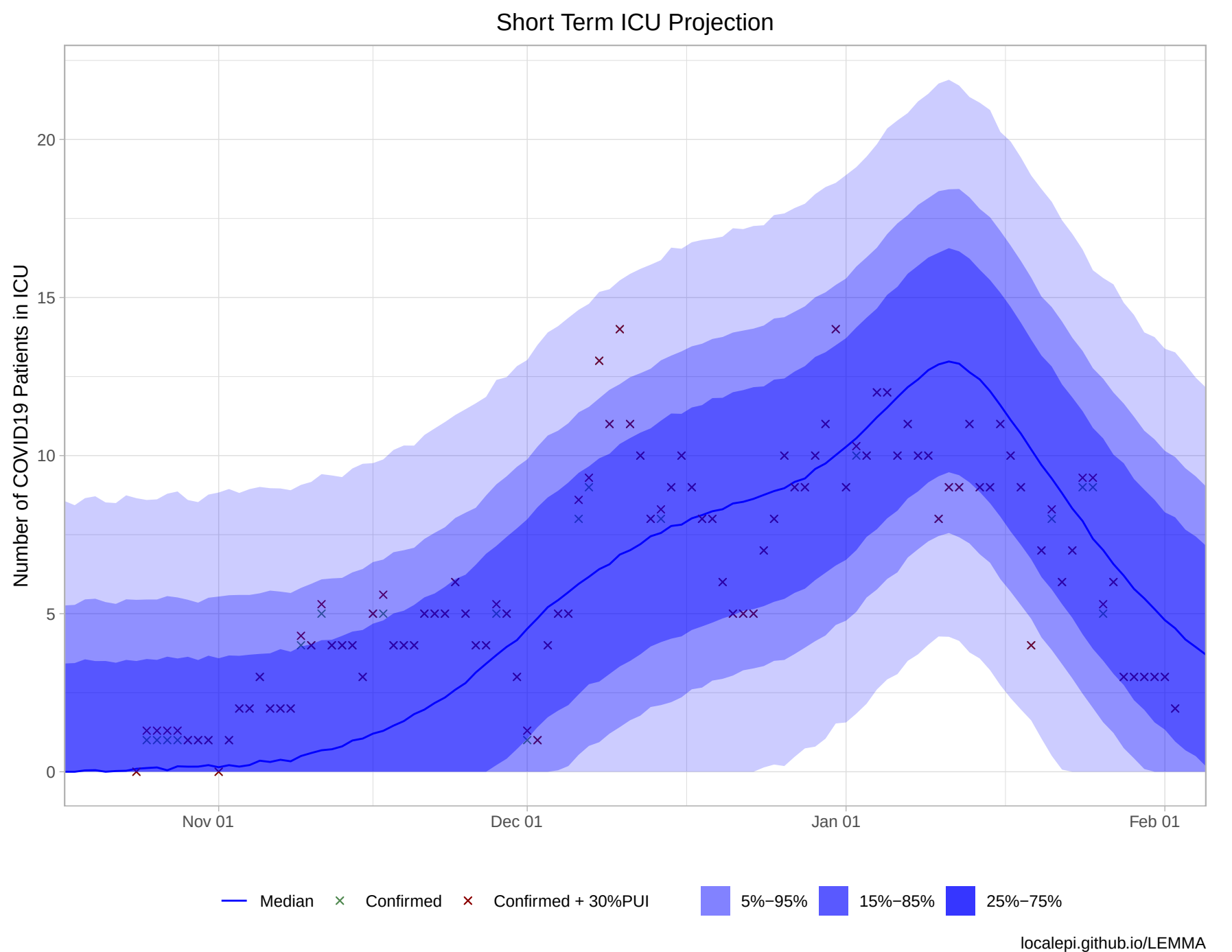
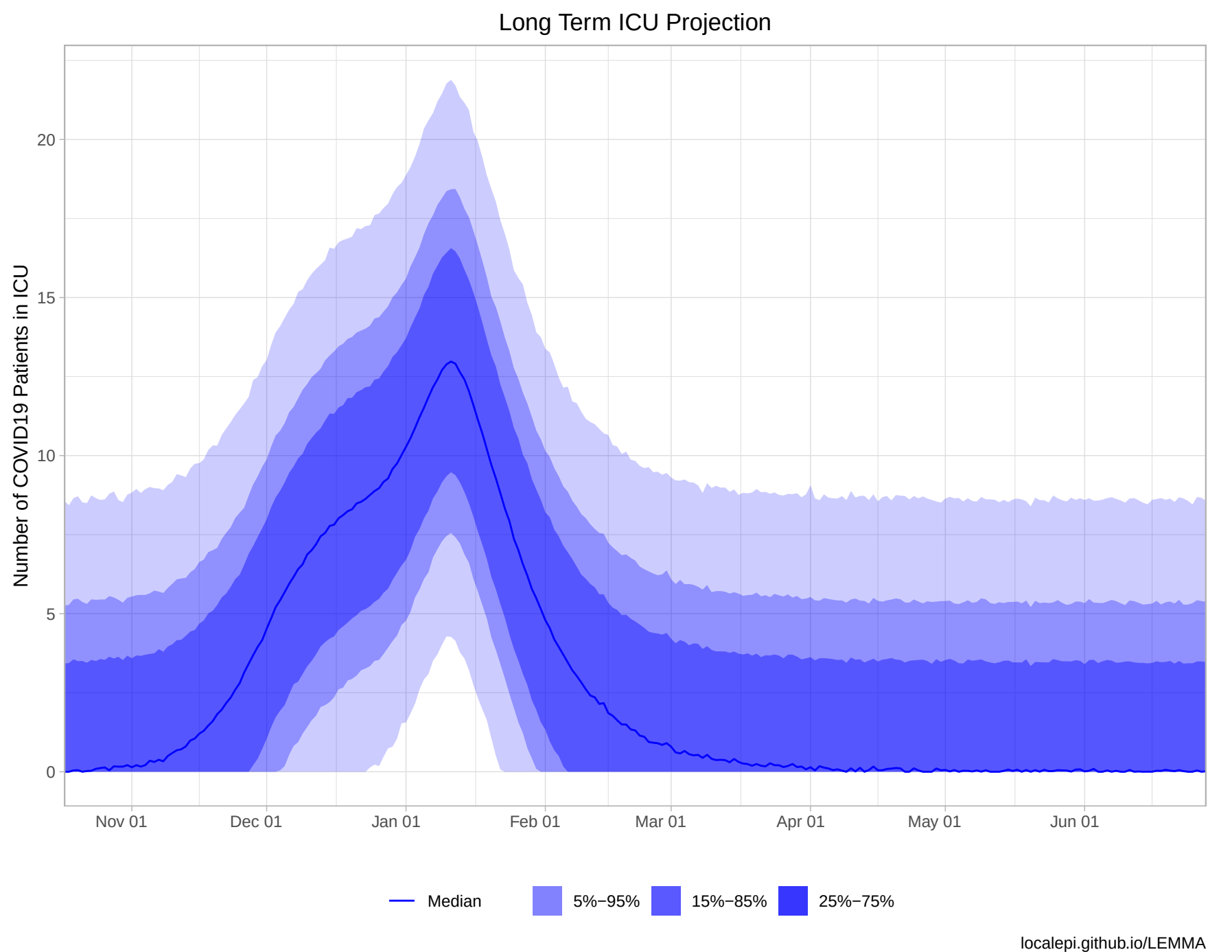
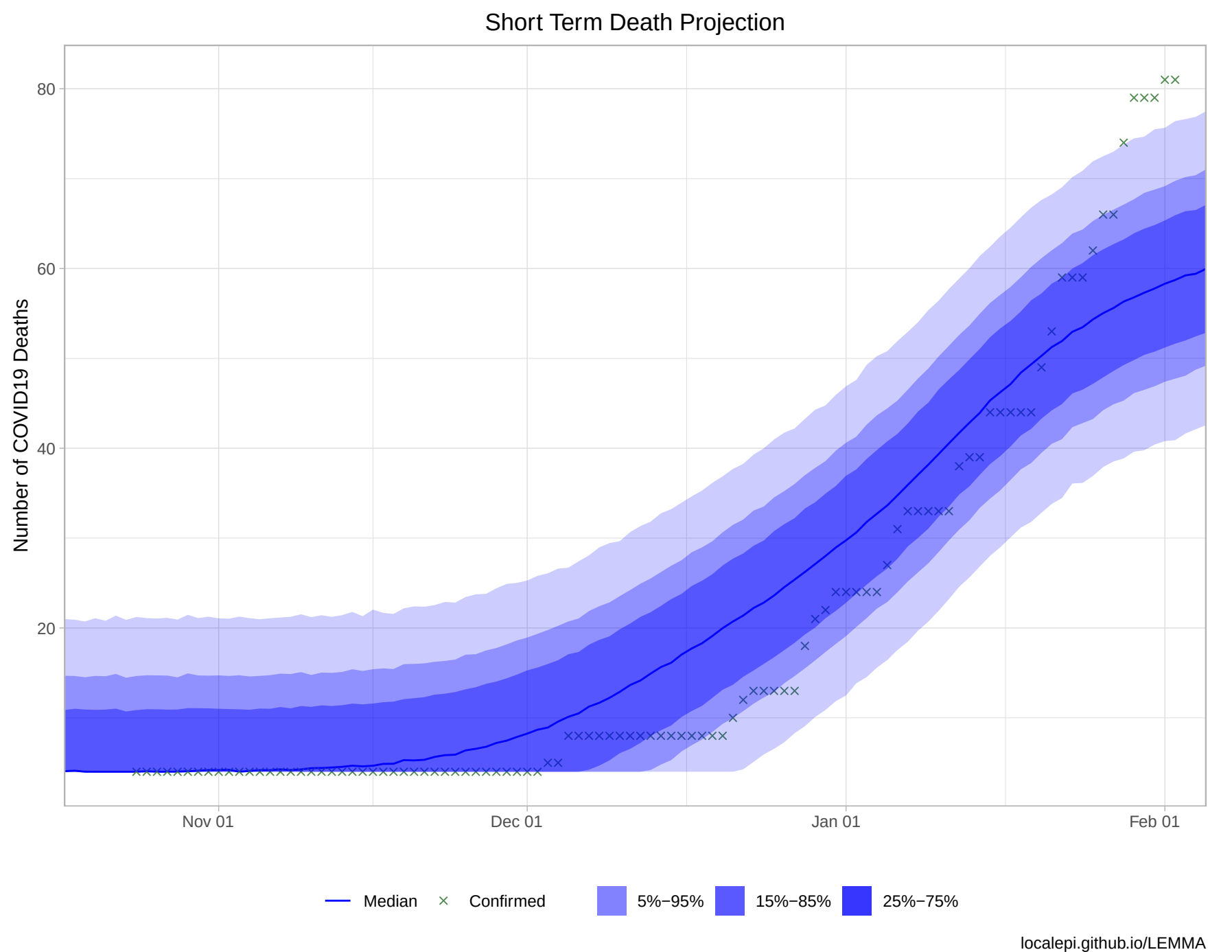
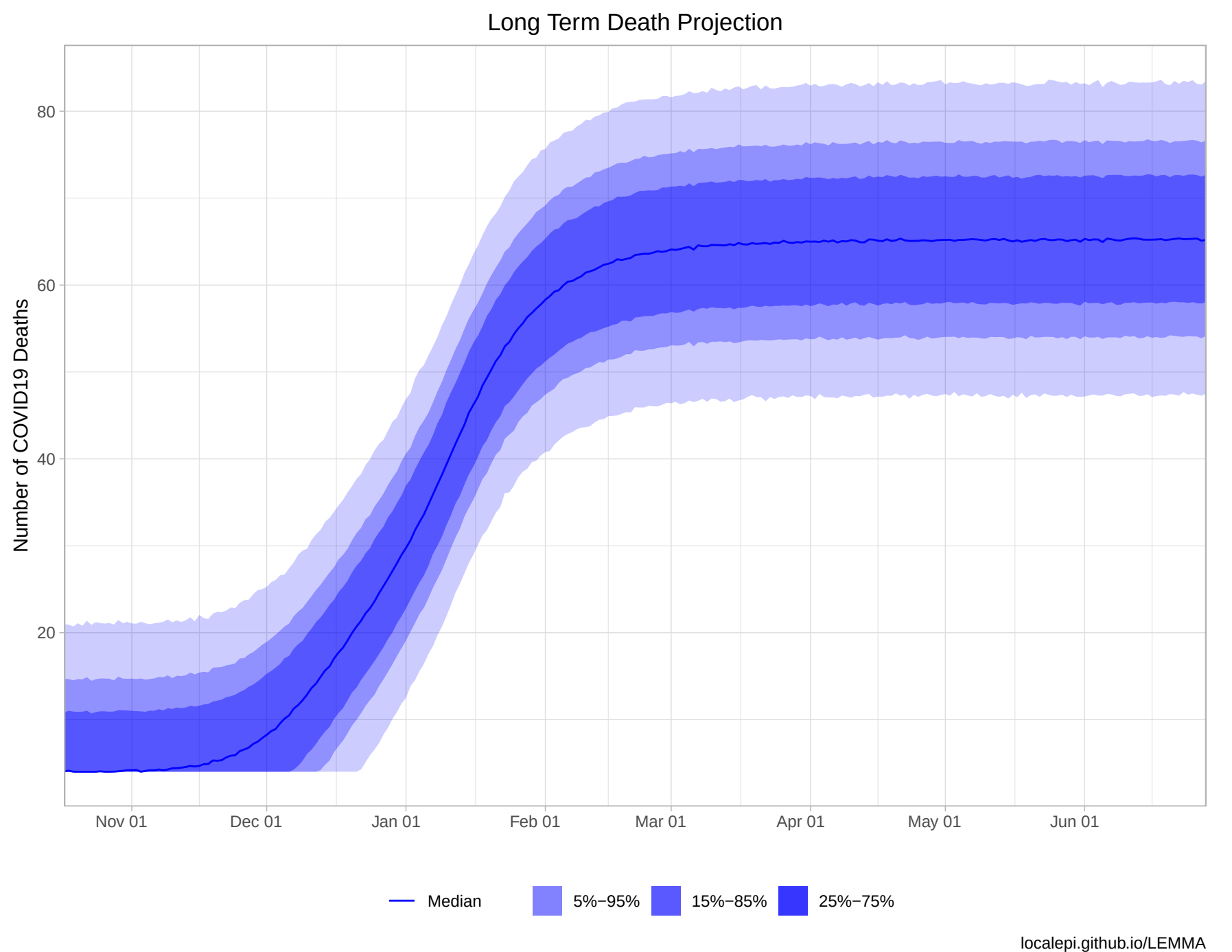

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
10
20
30
40
50
Nov 01
Dec 01
Jan 01
Feb 01
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

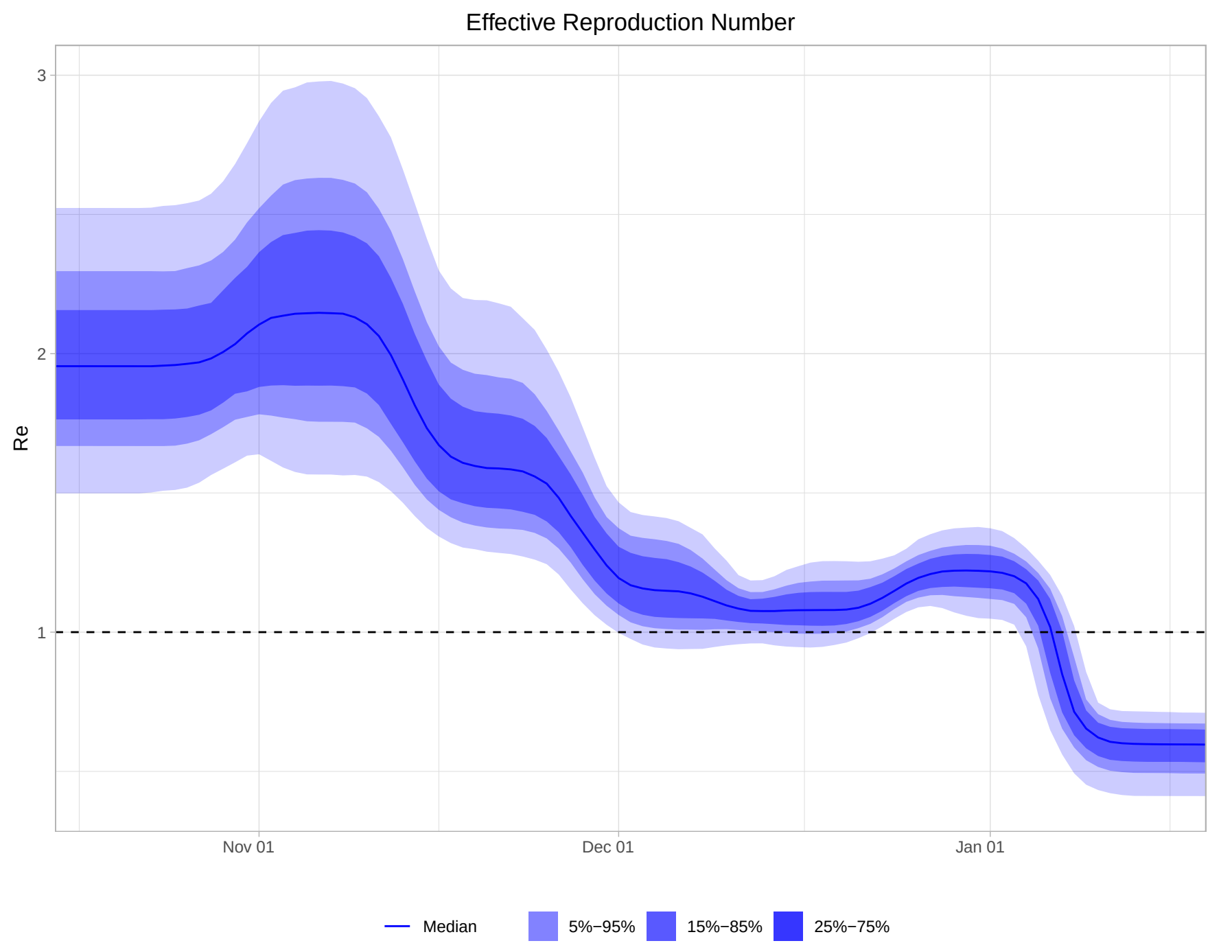

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
50
40
30
20
10
0
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Apr 01
May 01
Jun 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


Short Term ICU Projection
Number of COVID19 Patients in ICU
0
5
10
15
20
Nov 01
Dec 01
Jan 01
Feb 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
20
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Apr 01
May 01
Jun 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

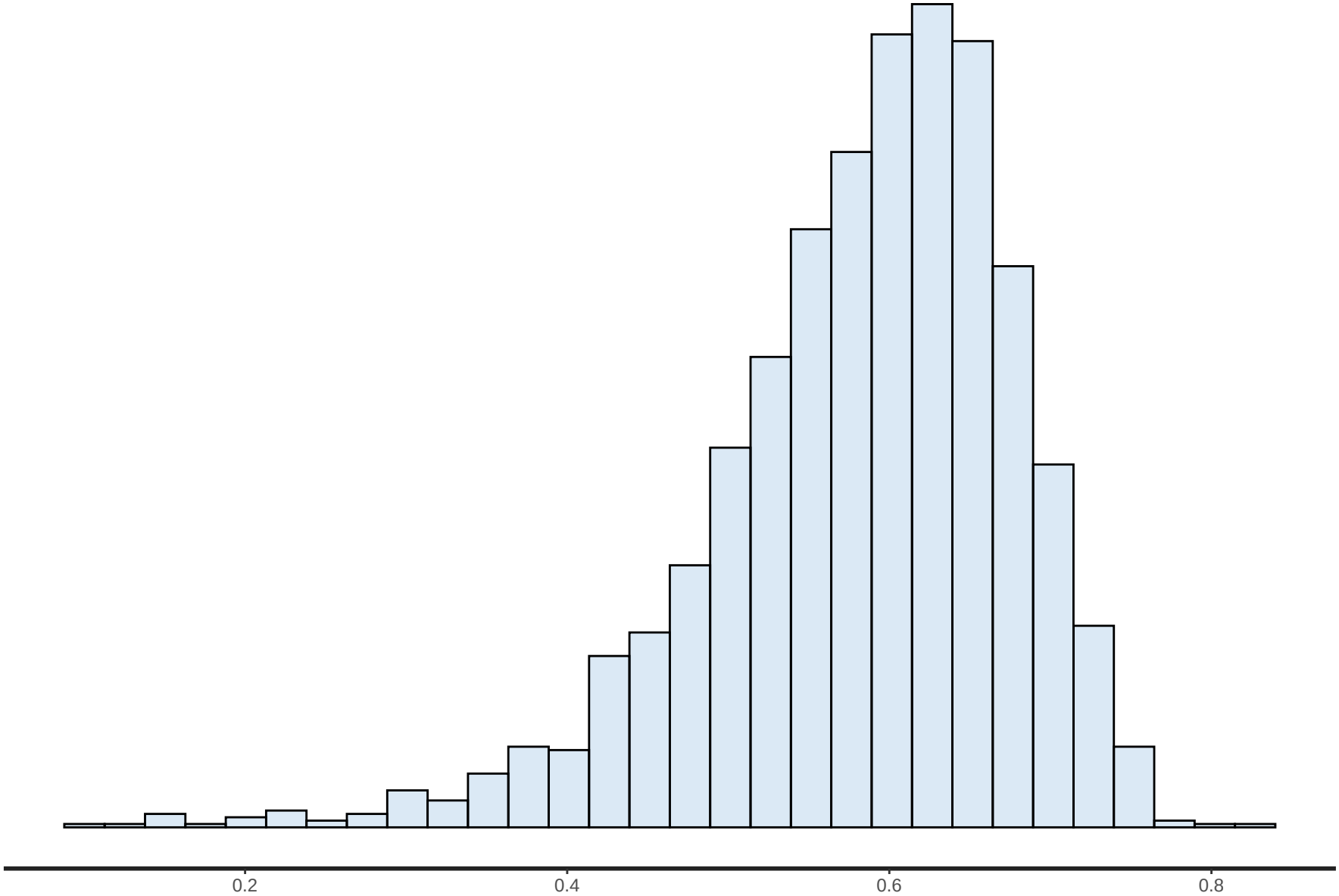

Short Term Death Projection
Number of COVID19 Deaths
80
60
40
20
Nov 01
Dec 01
Jan 01
Feb 01
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

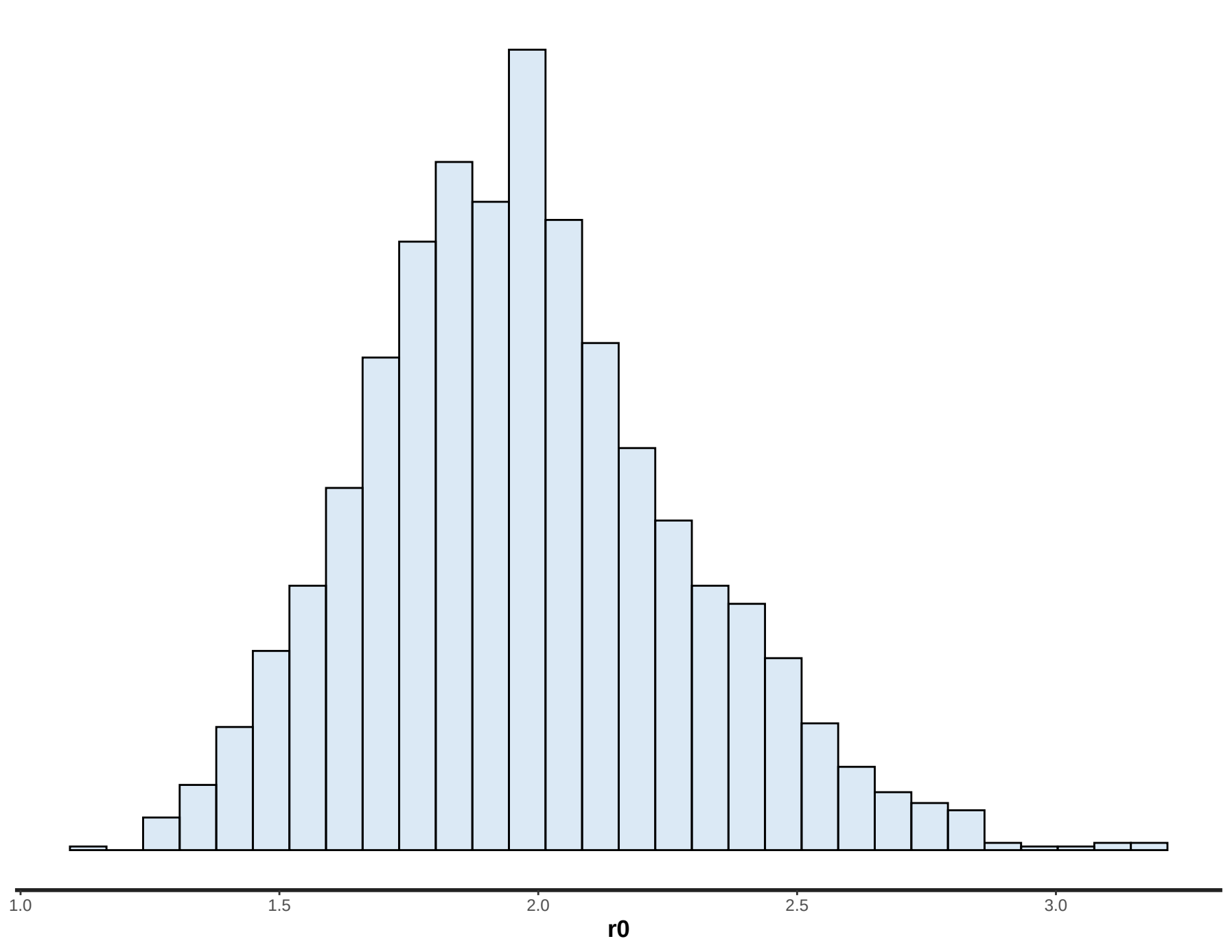

Long Term Death Projection
Number of COVID19 Deaths
80
60
40
20
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Apr 01
May 01
Jun 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

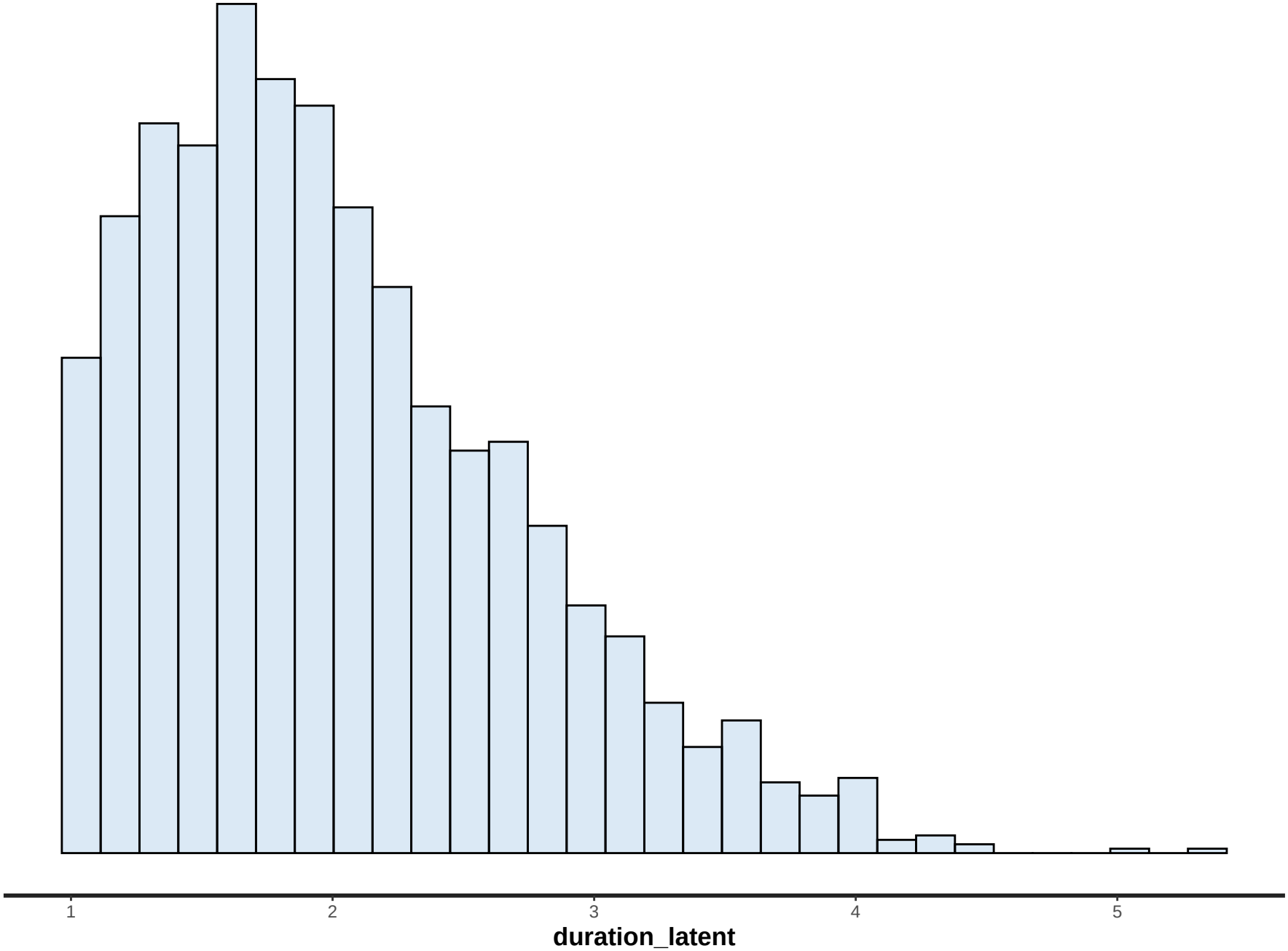

Effective Reproduction Number
Re
3
2
1
Nov 01
Dec 01
Jan 01
Median
5%−95%
15%−85%
25%−75%

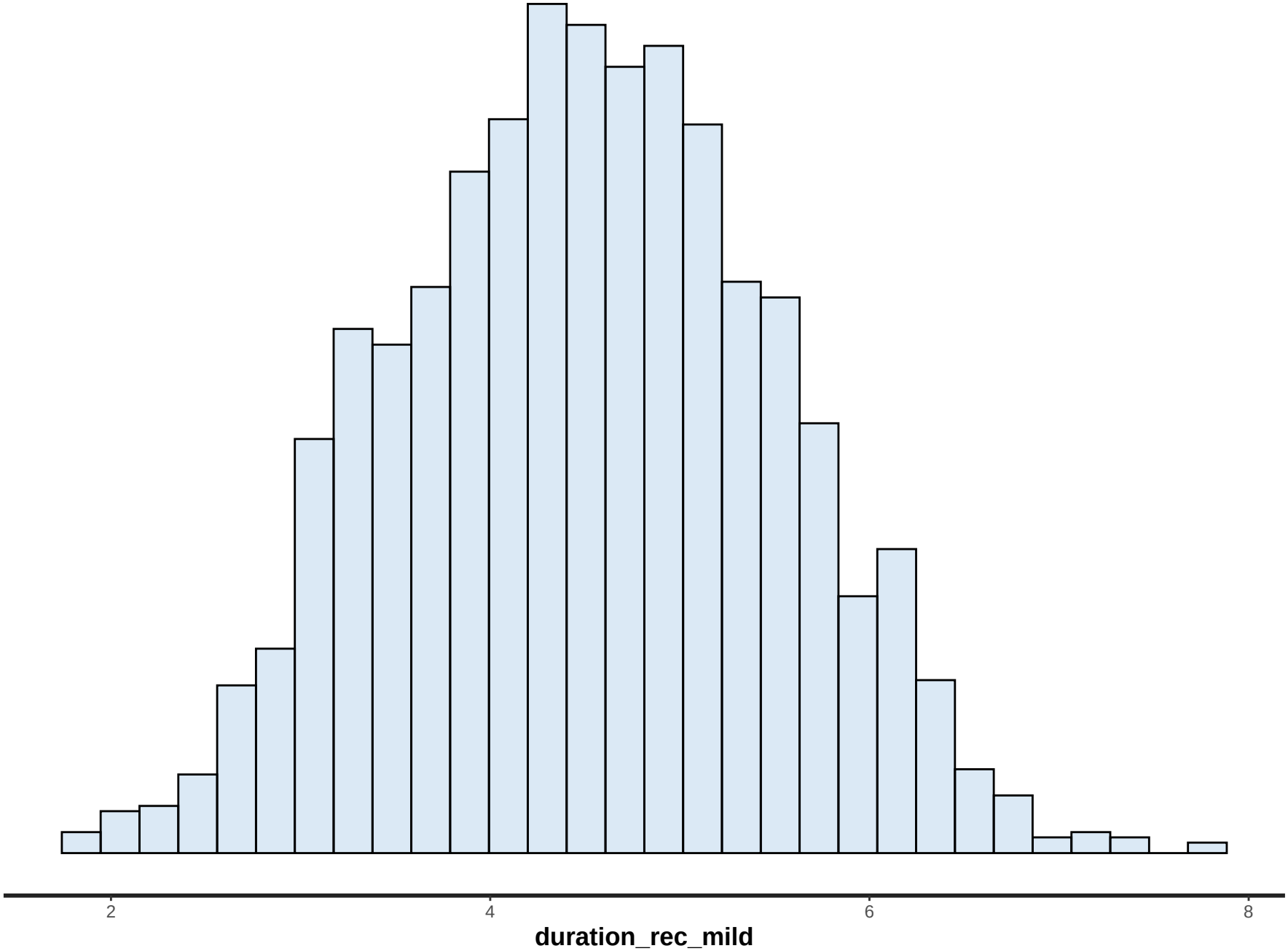
Rt as of 2021−01−19

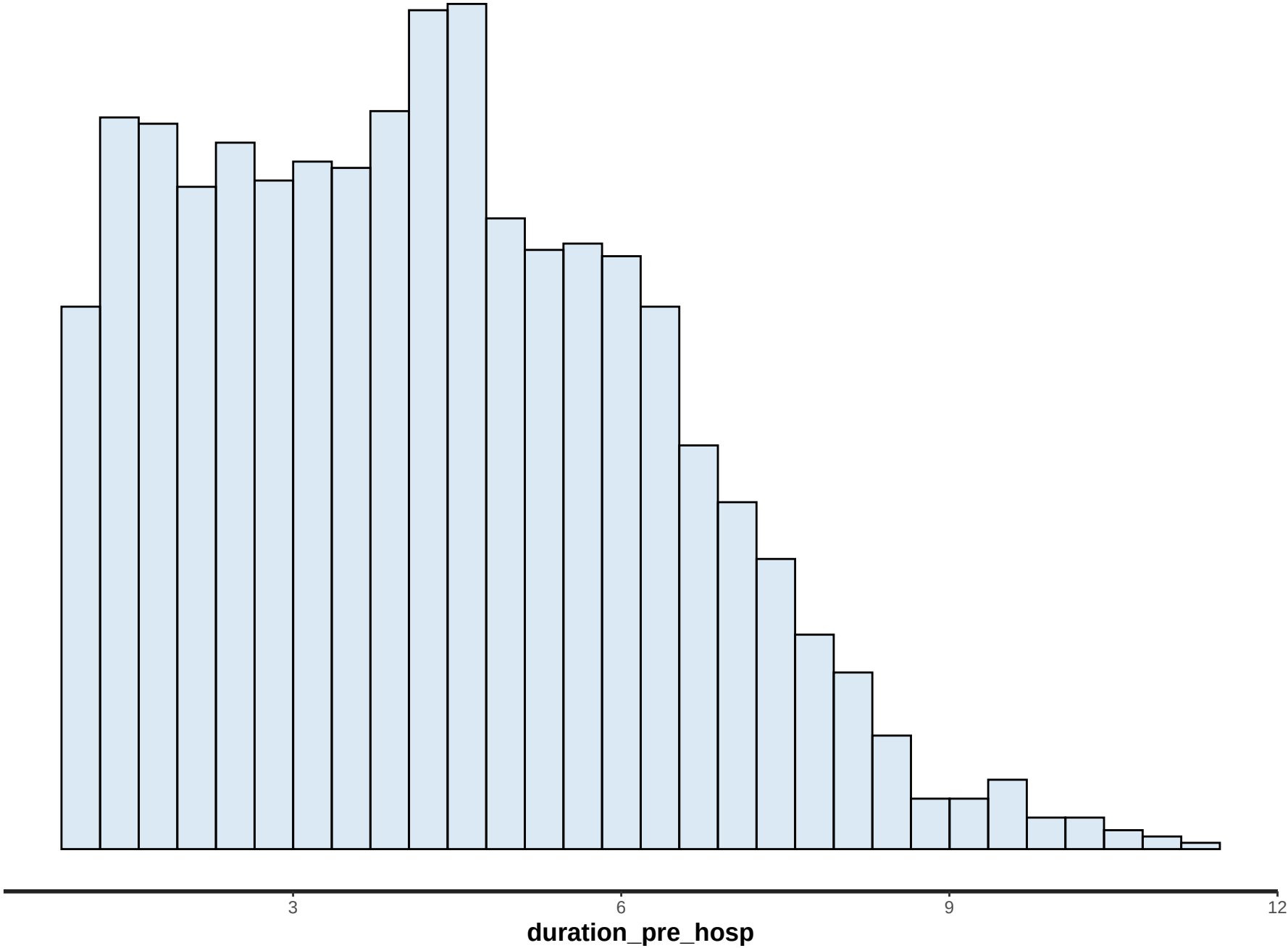
5%	10%	25%	50%	75%	90%	95%
0.41	0.46	0.53	0.60	0.65	0.69	0.71

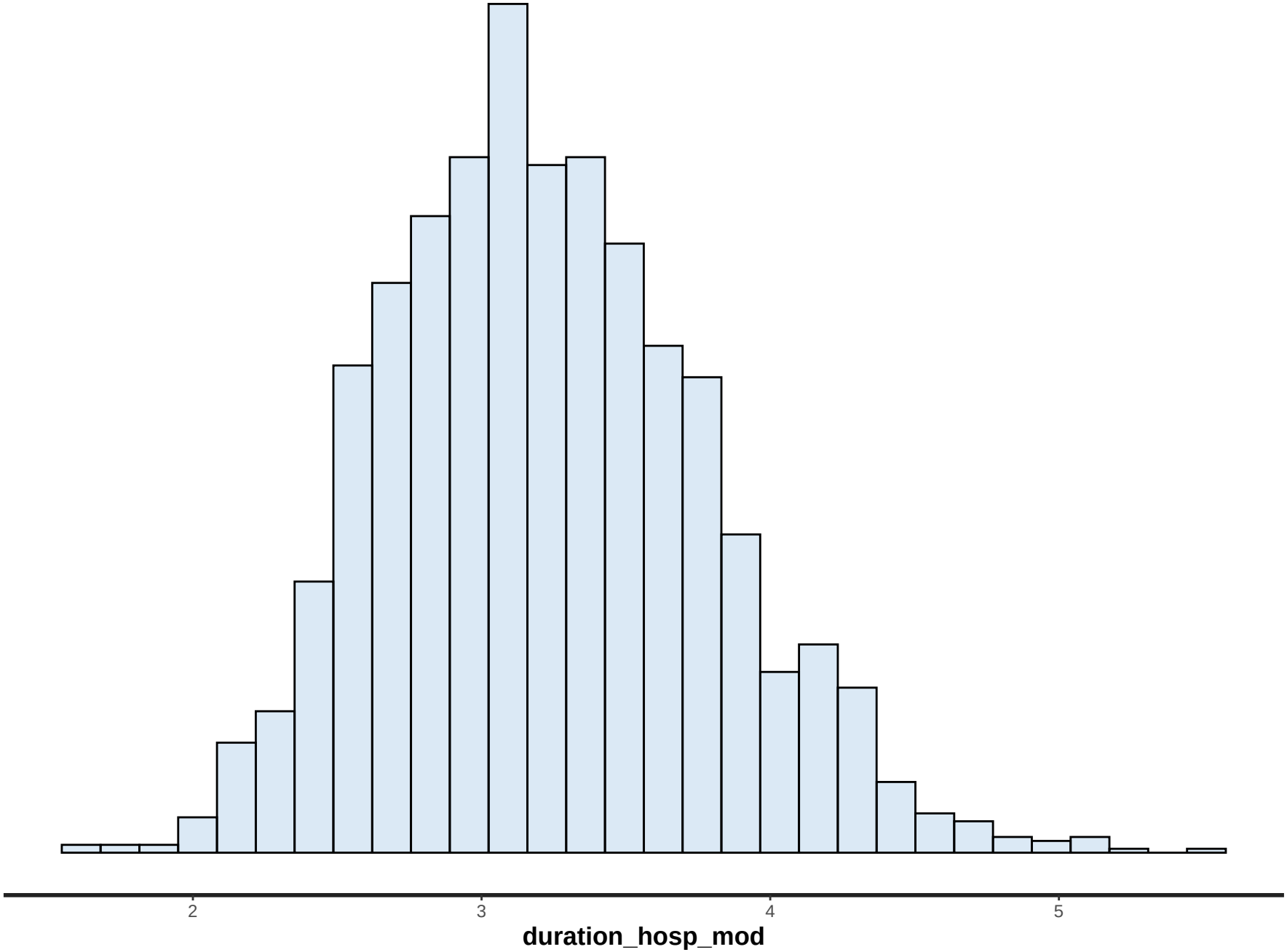


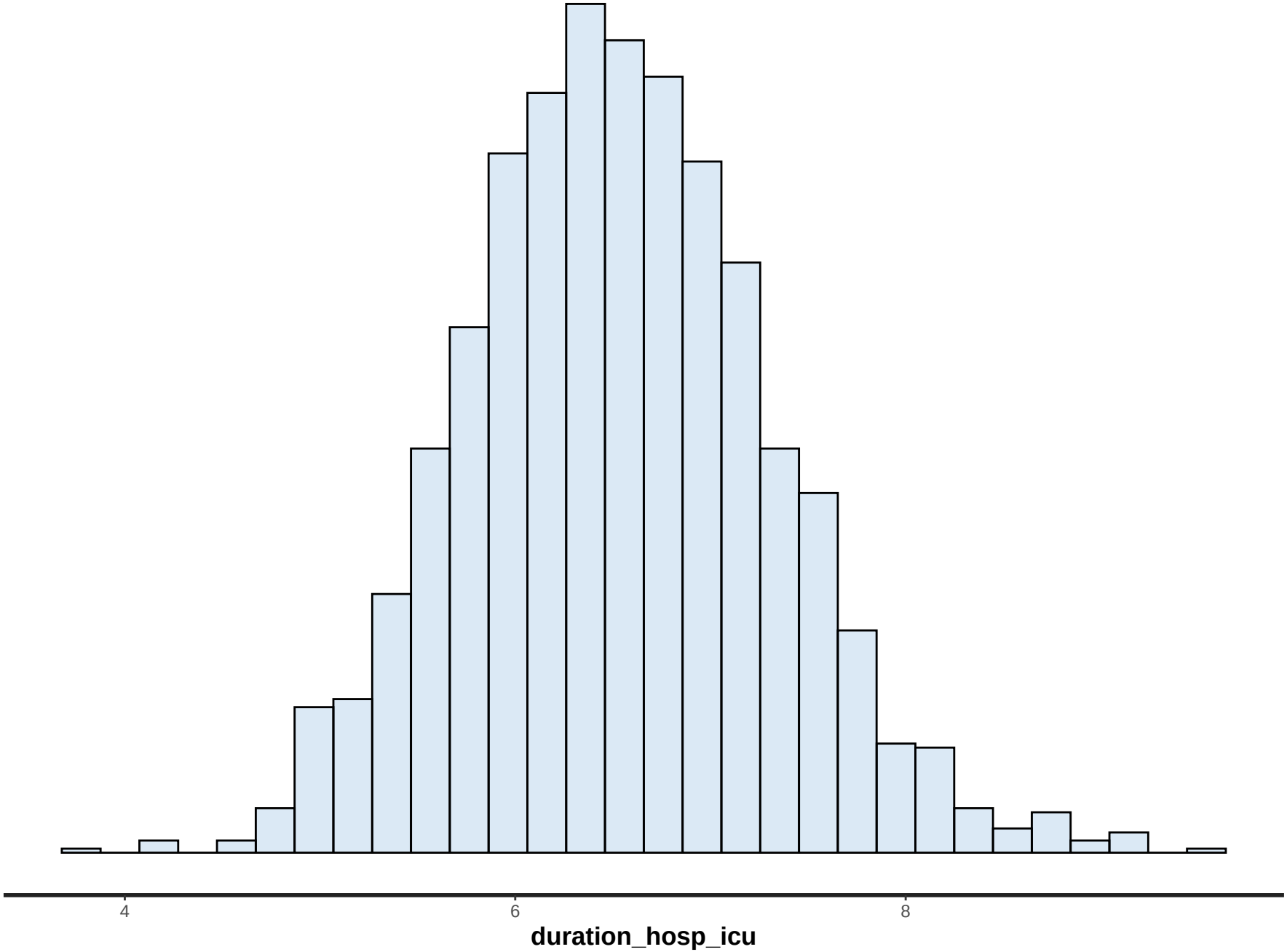

1.0
1.5
2.0
2.5
3.0
r0

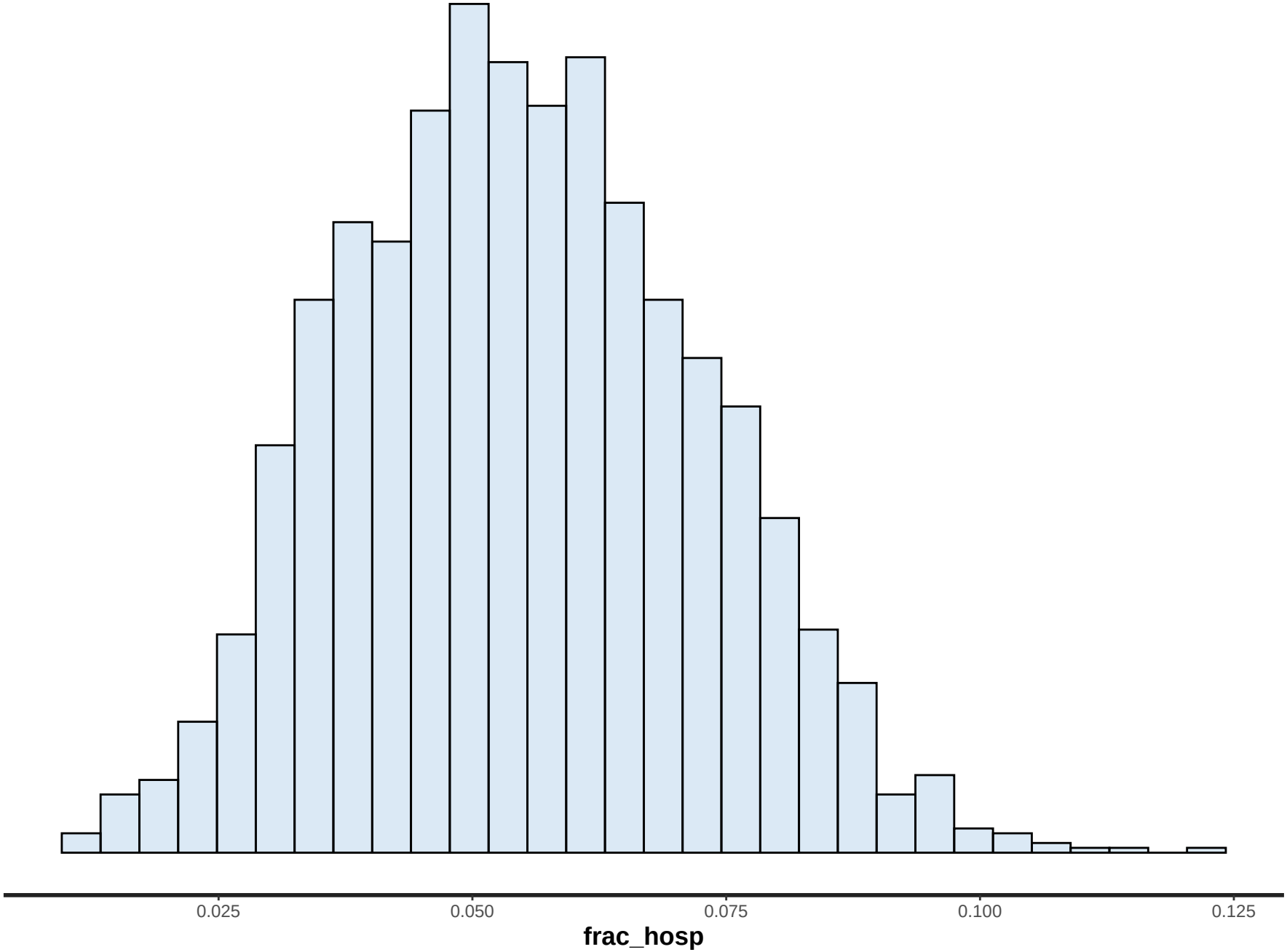

1
2
3
4
5
duration_latent

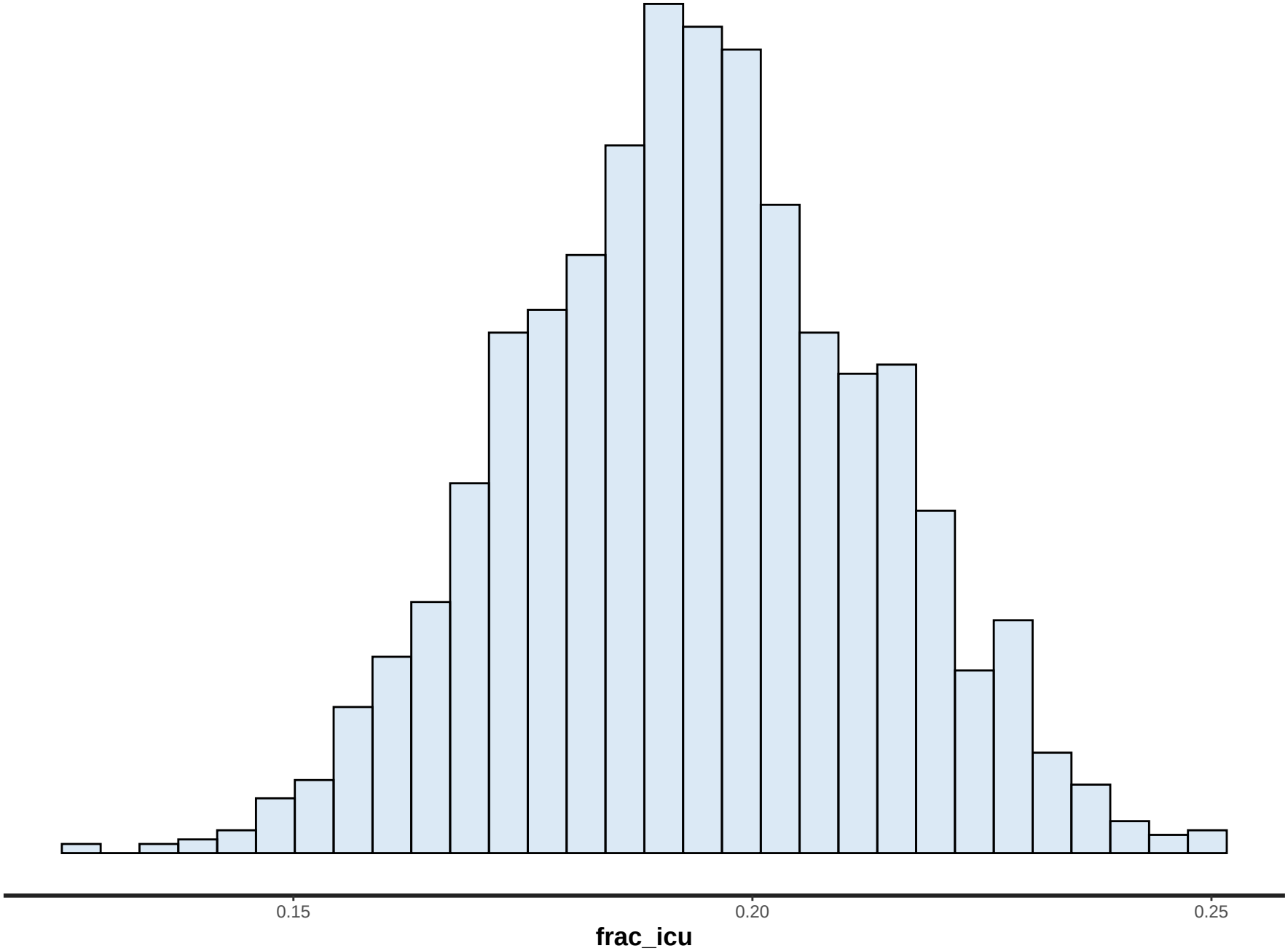

2
4
6
8
duration_rec_mild

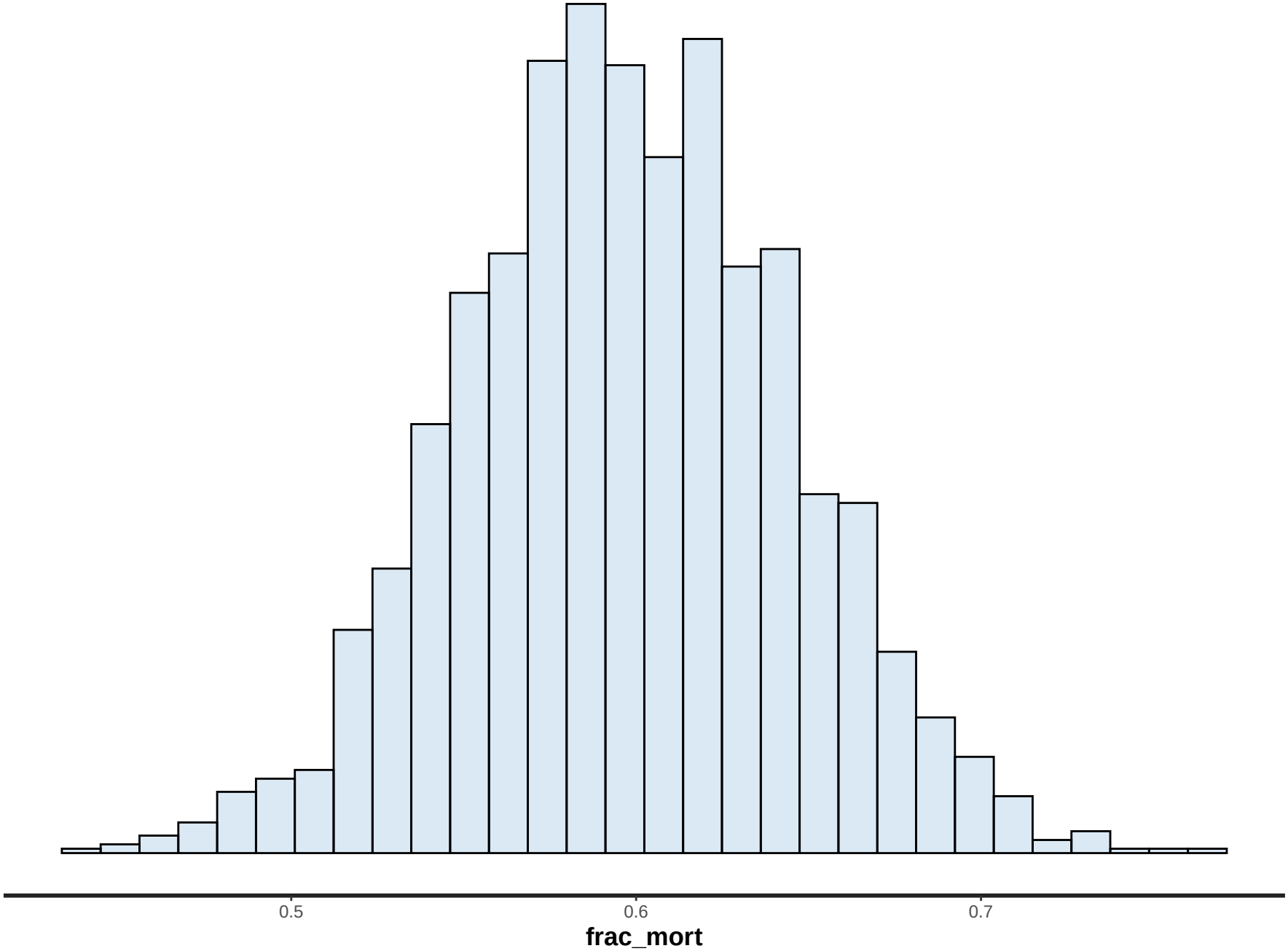

3
6
9
12
duration_pre_hosp

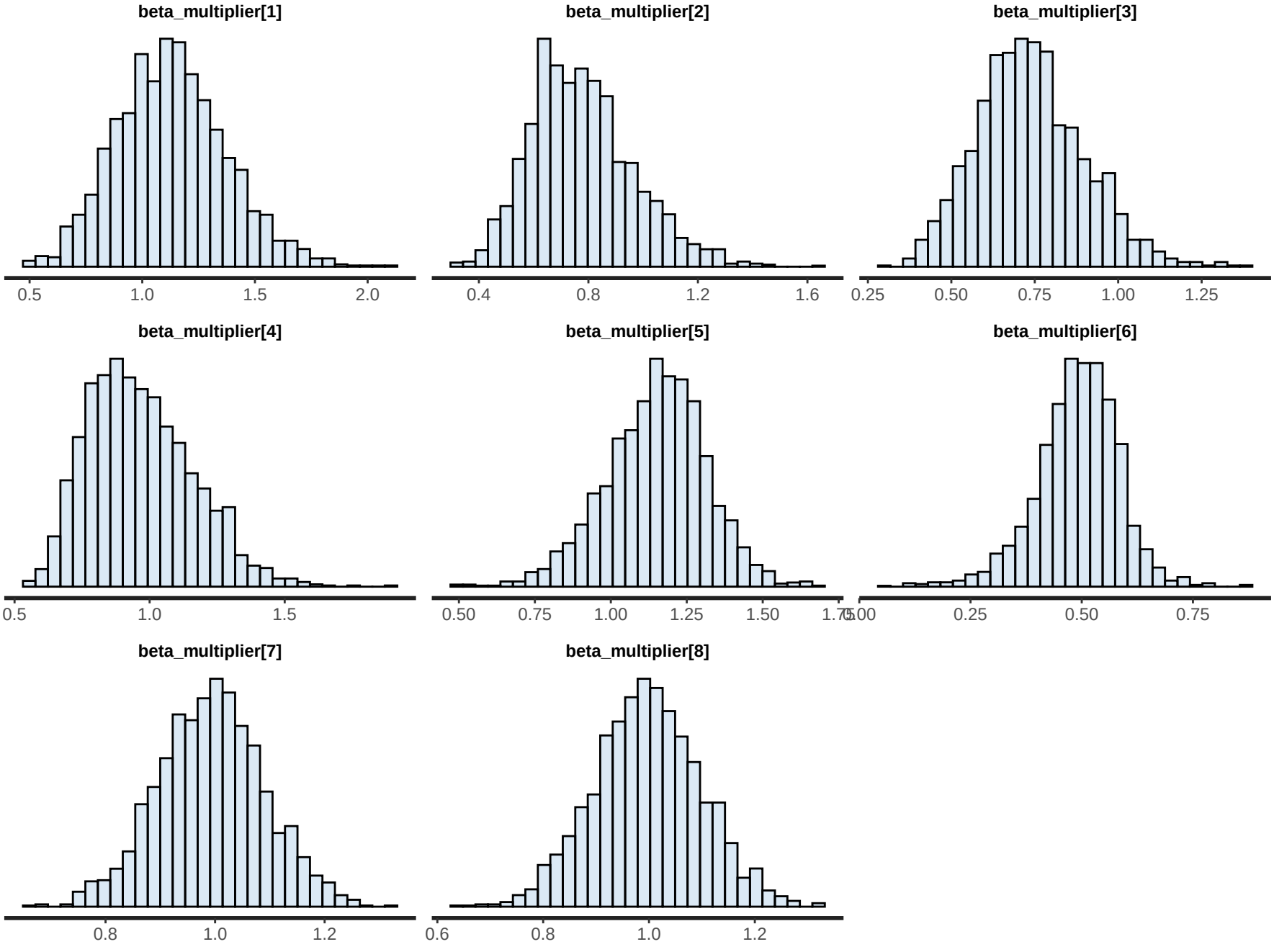

2
3
4
5
duration_hosp_mod

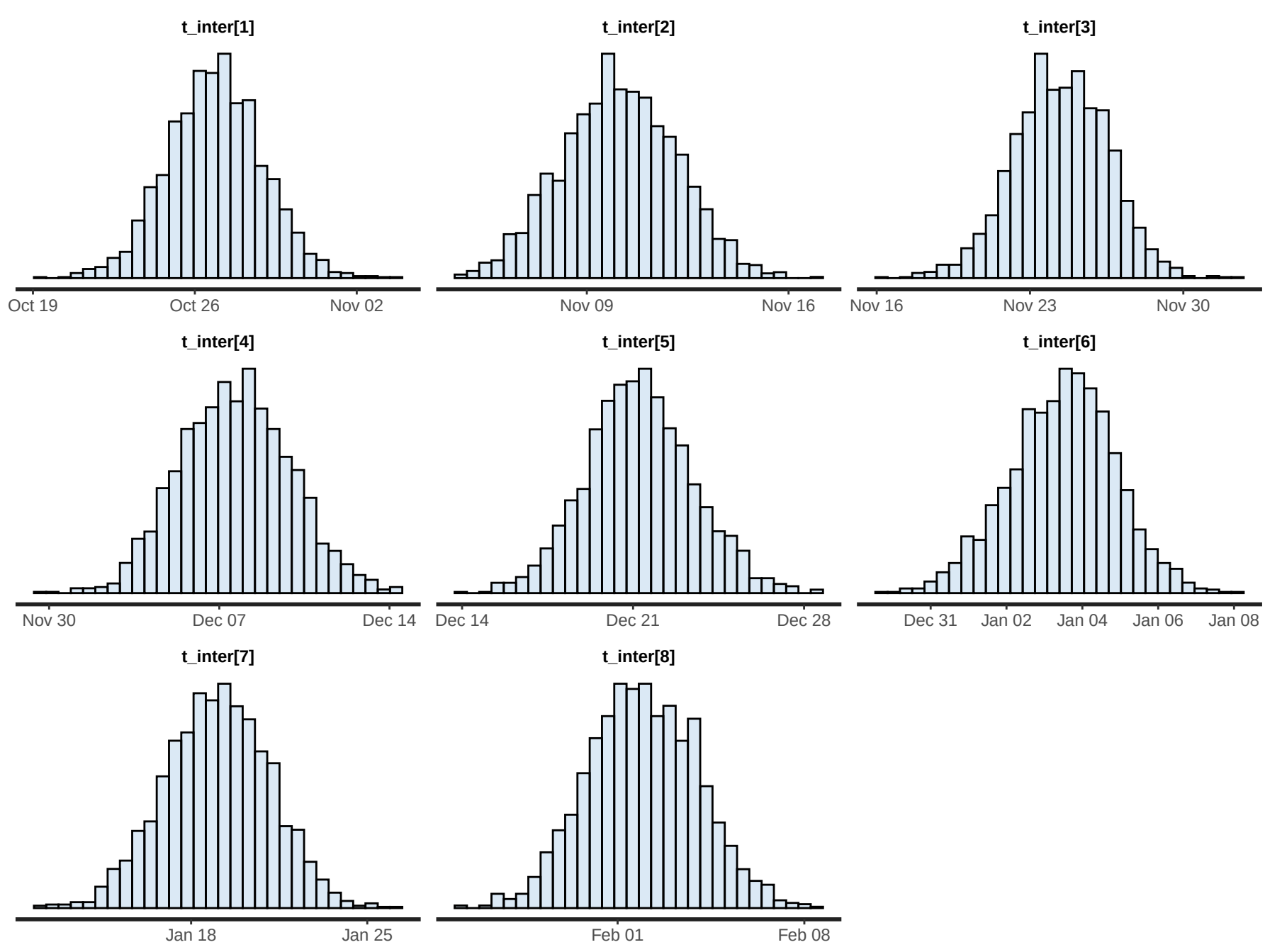

4
6
8
duration_hosp_icu

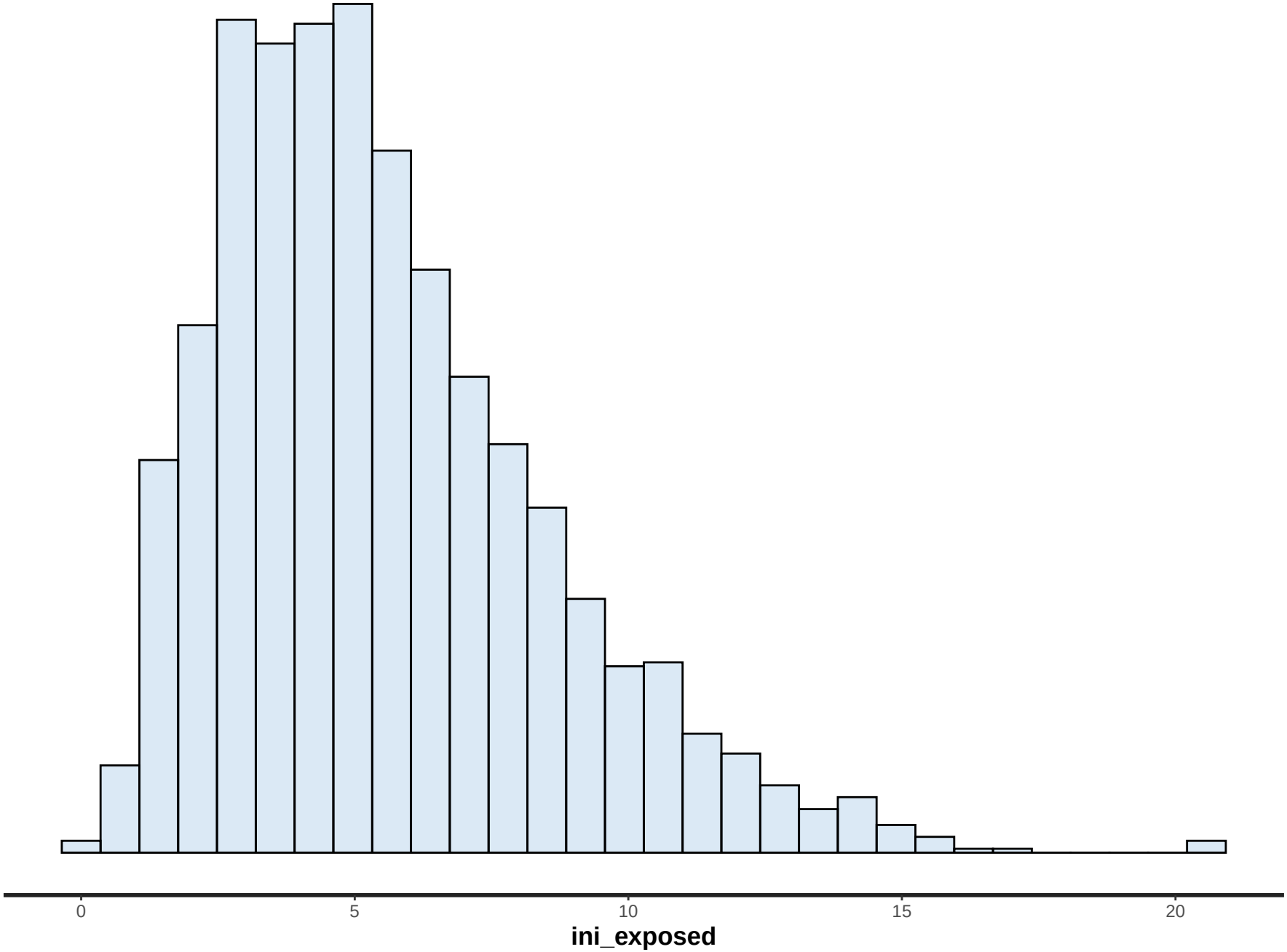

0.025
0.050
0.075
0.100
0.125
frac_hosp

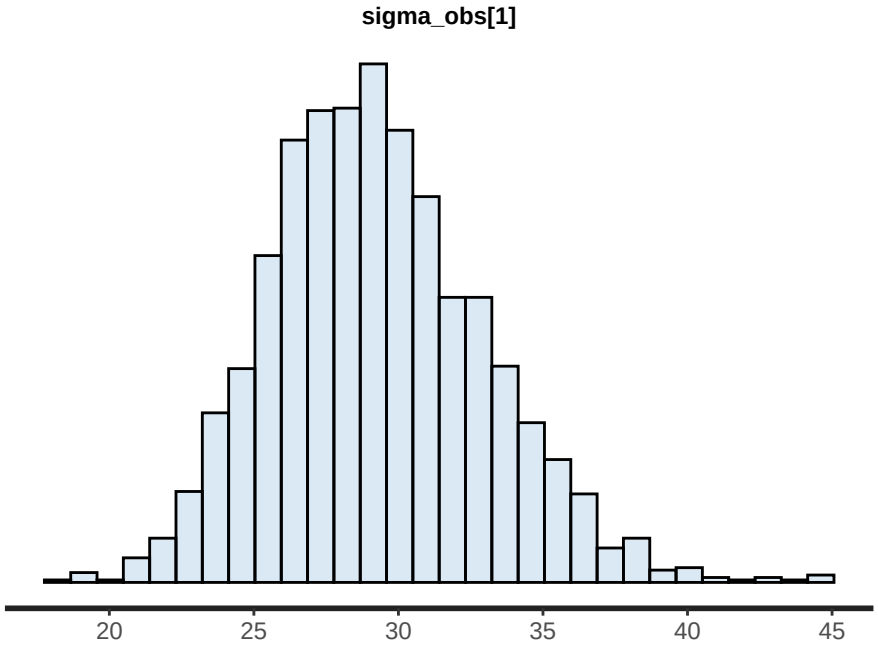

0.15
0.20
0.25
frac_icu


0.5
0.6
0.7
frac_mort


beta_multiplier[1]
0.5
1.0
1.5
2.0
beta_multiplier[2]
0.4
0.8
1.2
1.6
beta_multiplier[3]
0.25
0.50
0.75
1.00
1.25
beta_multiplier[4]
0.5
1.0
1.5
beta_multiplier[5]
0.50
0.75
1.00
1.25
1.50
beta_multiplier[6]
0.00
0.25
0.50
0.75
beta_multiplier[7]
0.8
1.0
1.2
beta_multiplier[8]
0.6
0.8
1.0
1.2


t_inter[1]
Oct 19
Oct 26
Nov 02
t_inter[2]
Nov 09
Nov 16
t_inter[3]
Nov 16
Nov 23
Nov 30
t_inter[4]
Nov 30
Dec 07
Dec 14
t_inter[5]
Dec 14
Dec 21
Dec 28
t_inter[6]
Dec 31
Jan 02
Jan 04
Jan 06
Jan 08
t_inter[7]
Jan 18
Jan 25
t_inter[8]
Feb 01
Feb 08


0
5
10
15
20
ini_exposed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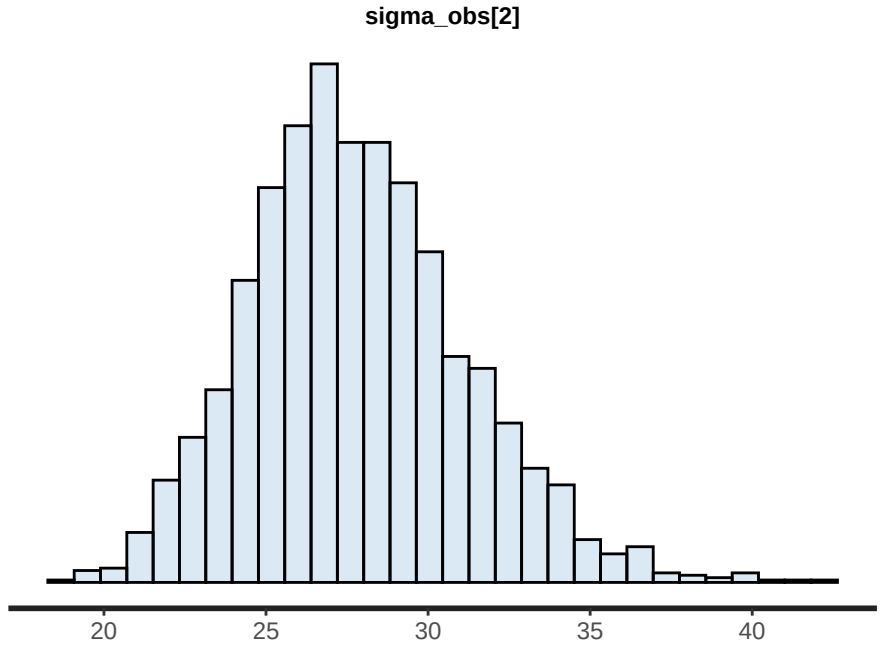
20
25
30
35
40
45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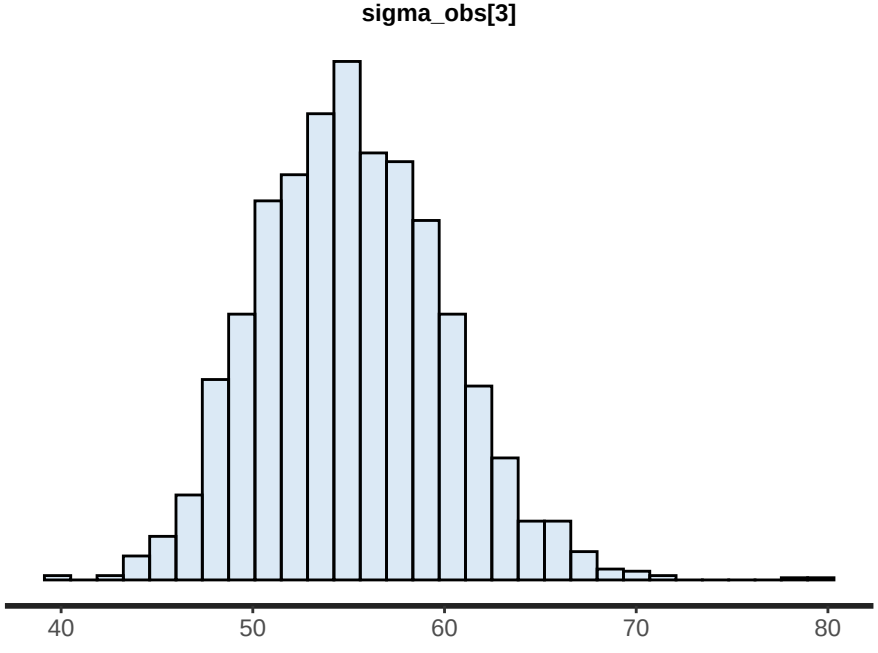
25
30
35
40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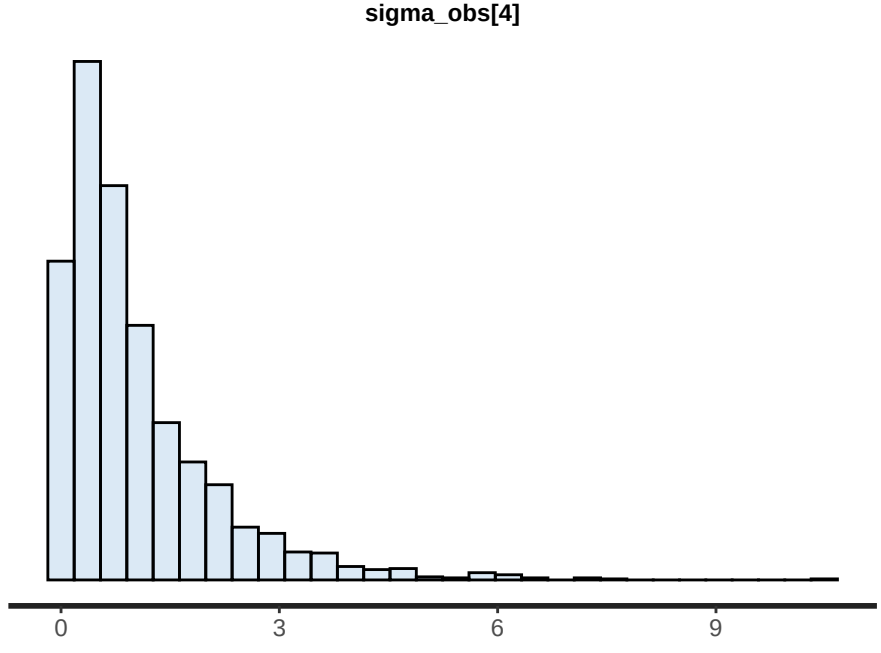
40
50
60
70
80


sigma_obs[4]
0
3
6
9