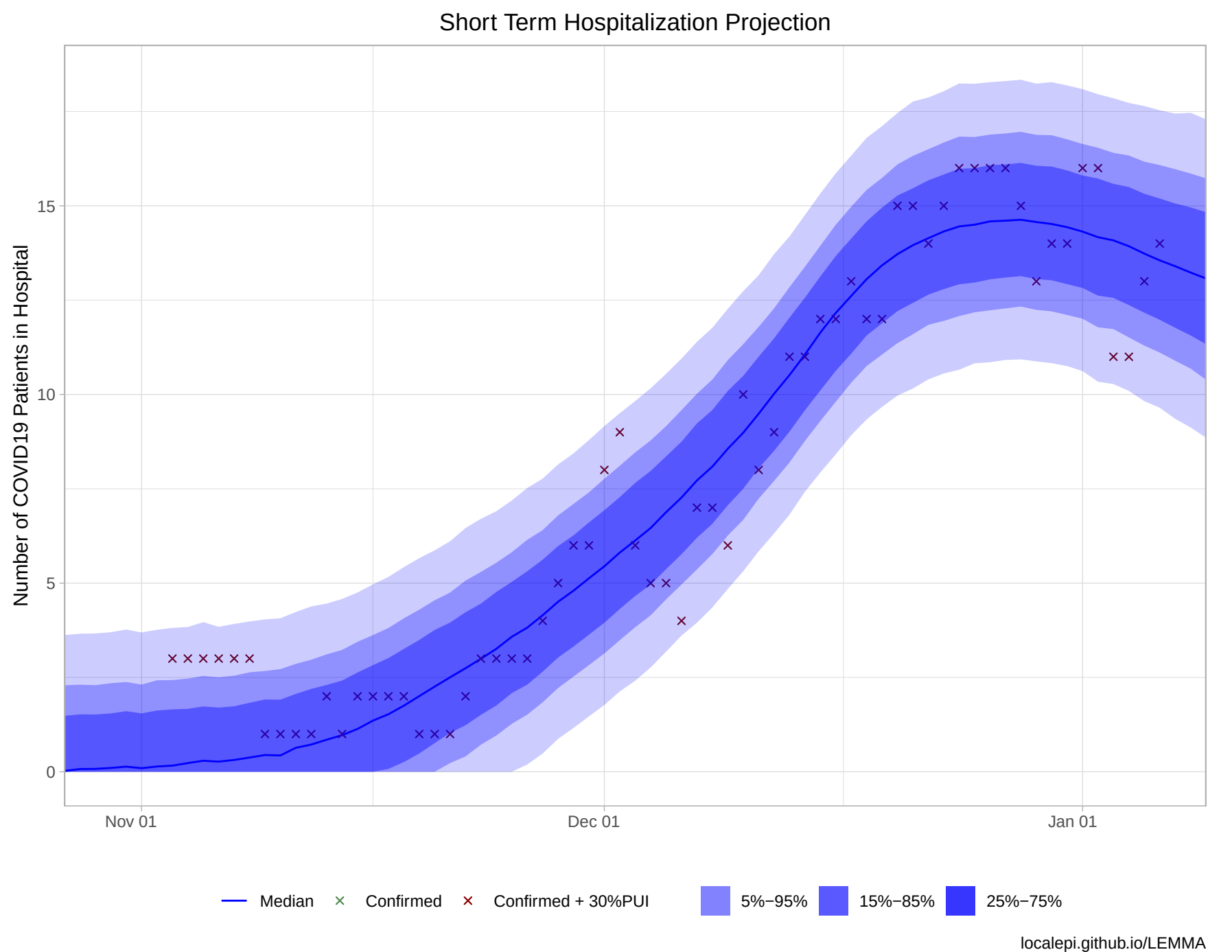
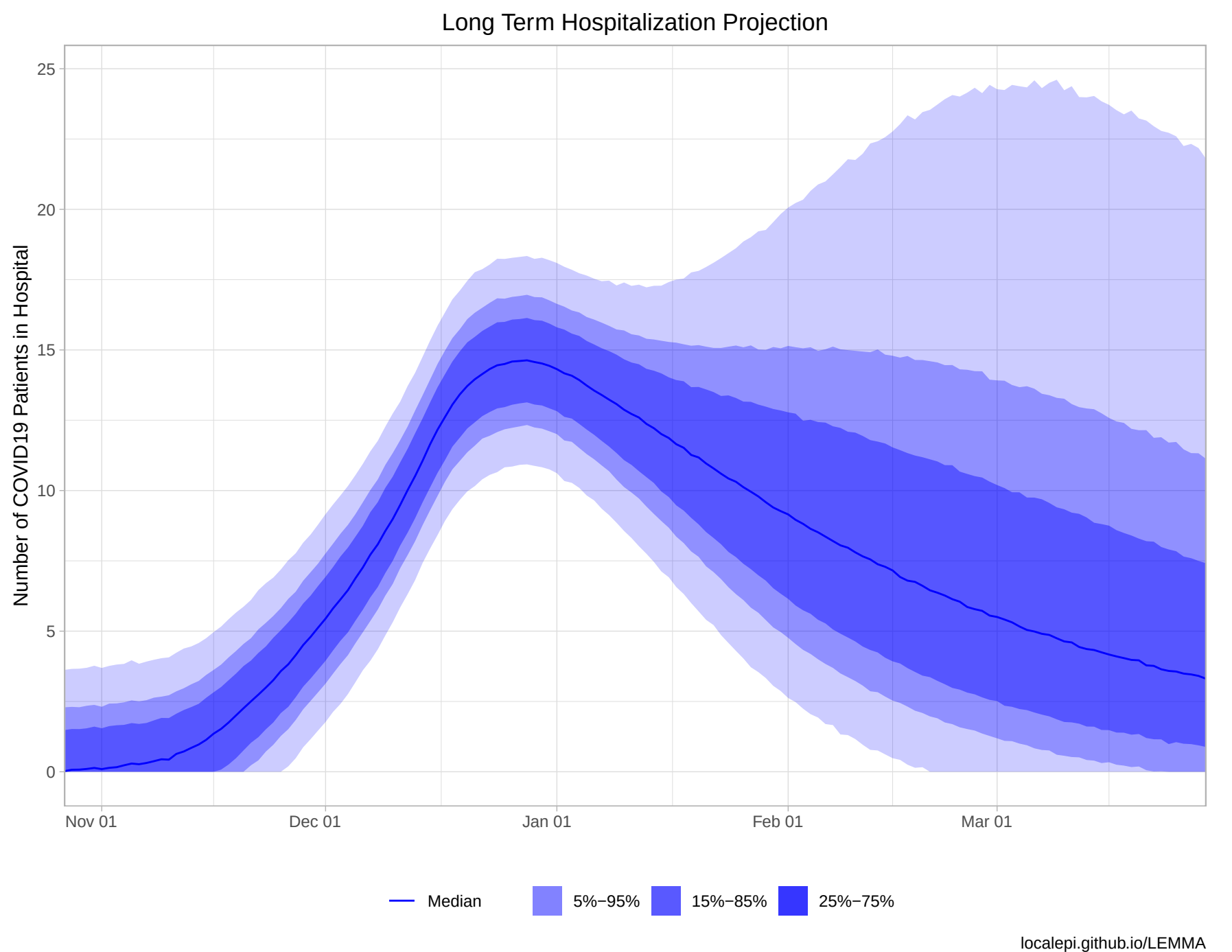
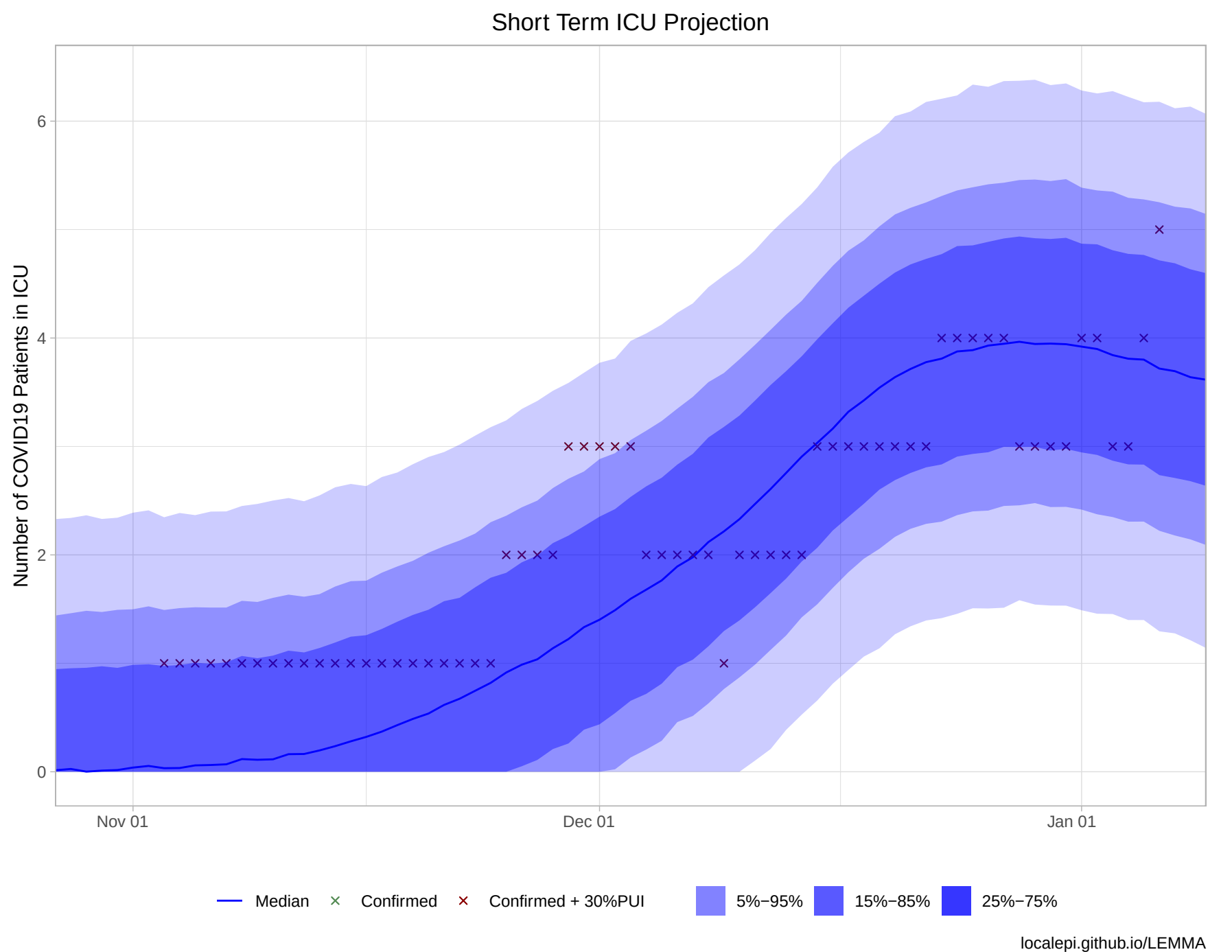
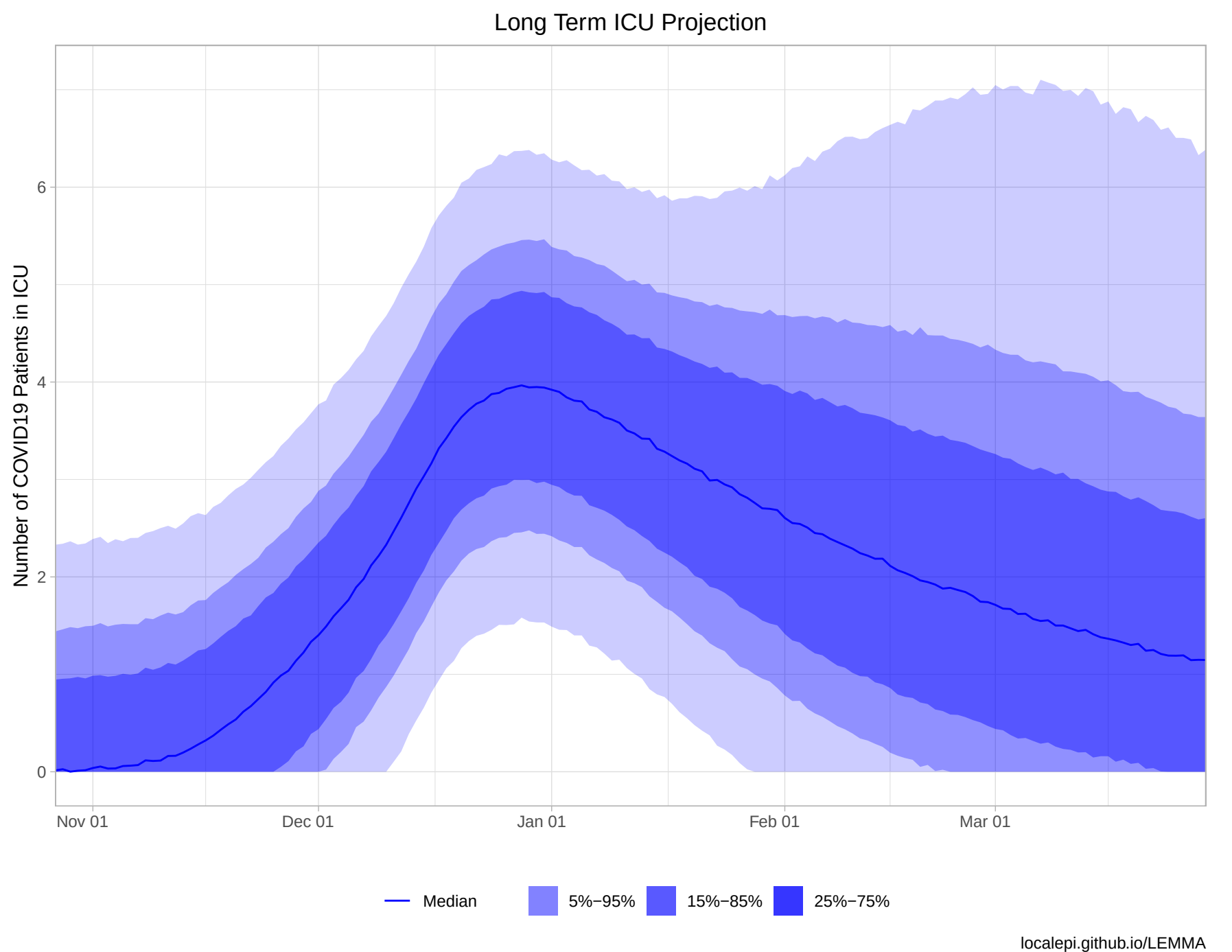
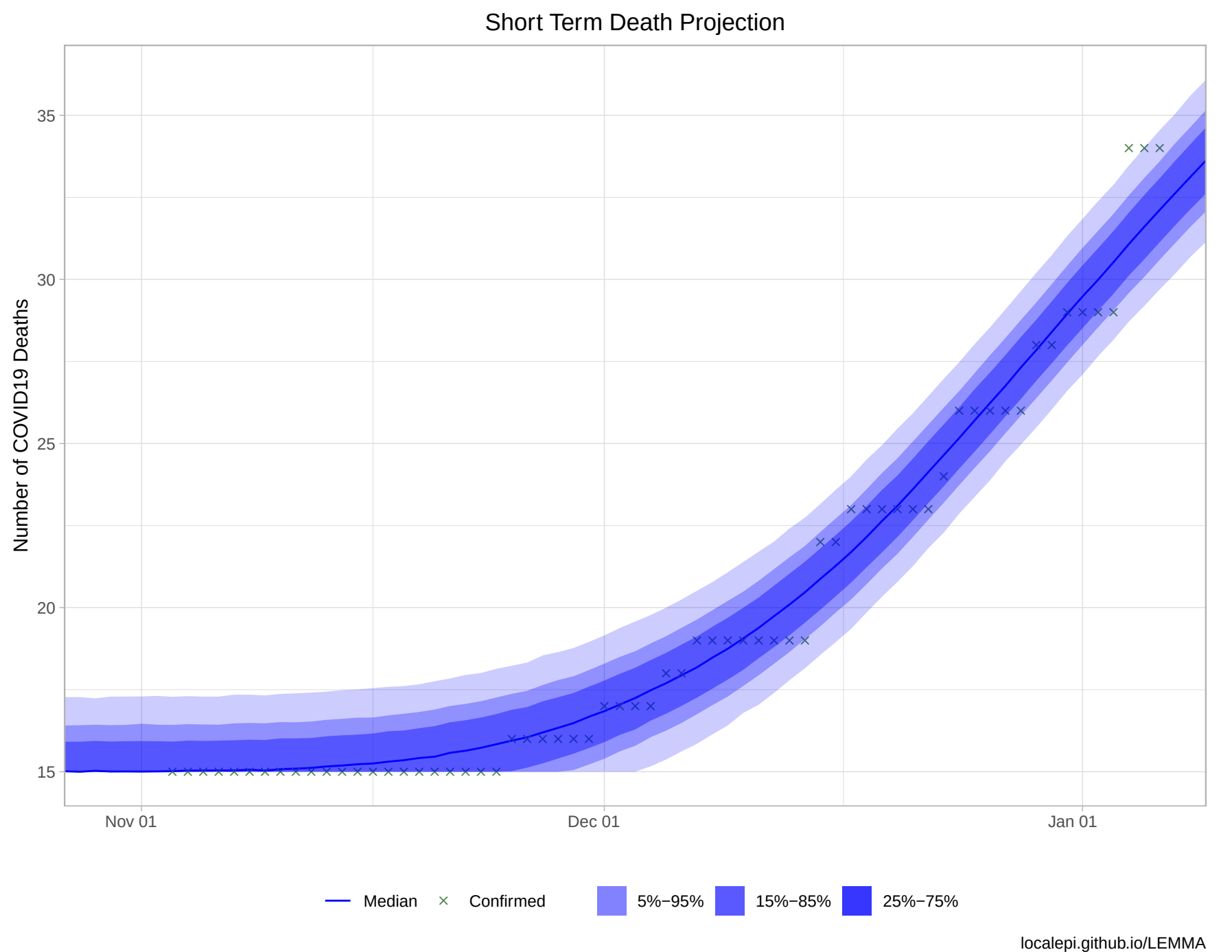
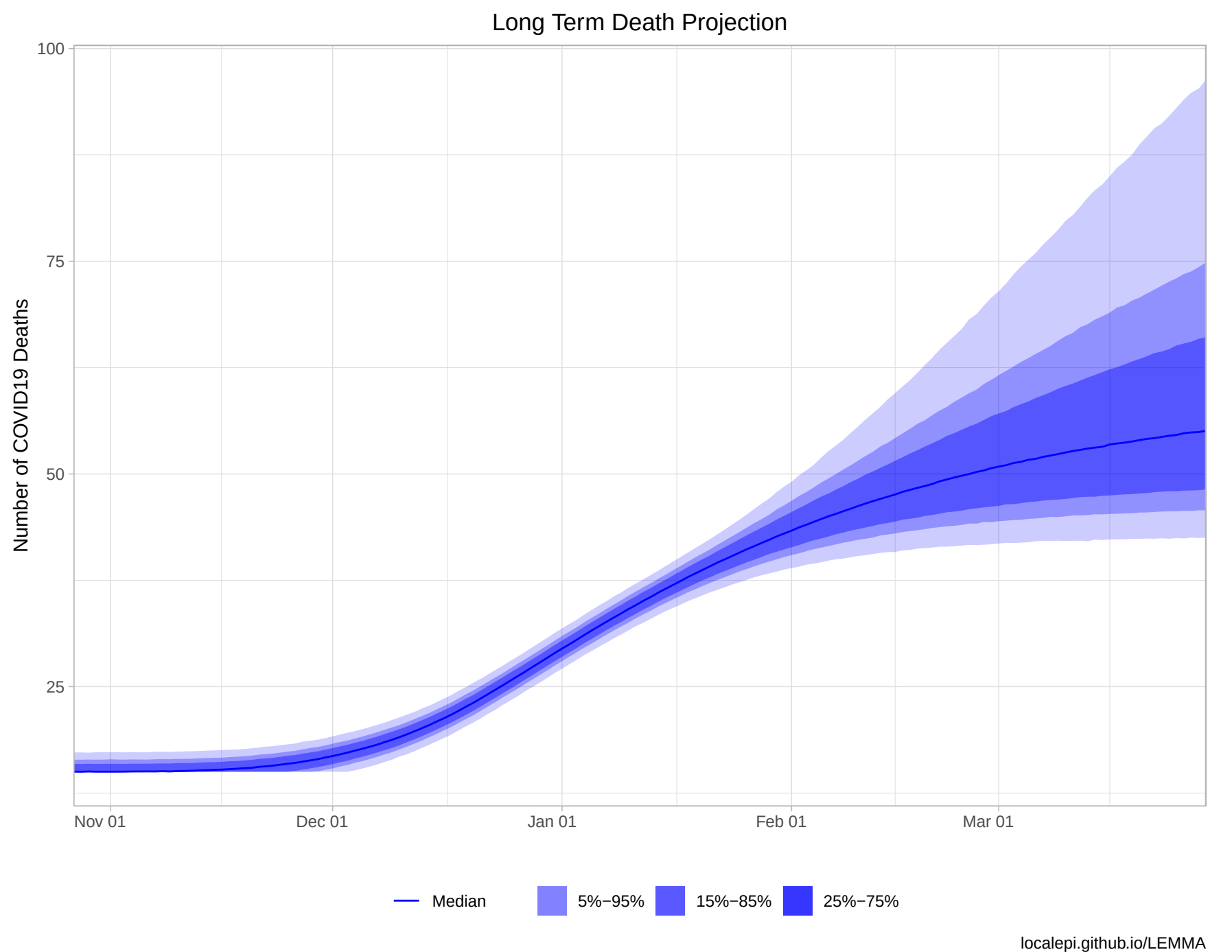

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
5
10
15
Nov 01
Dec 01
Jan 01
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

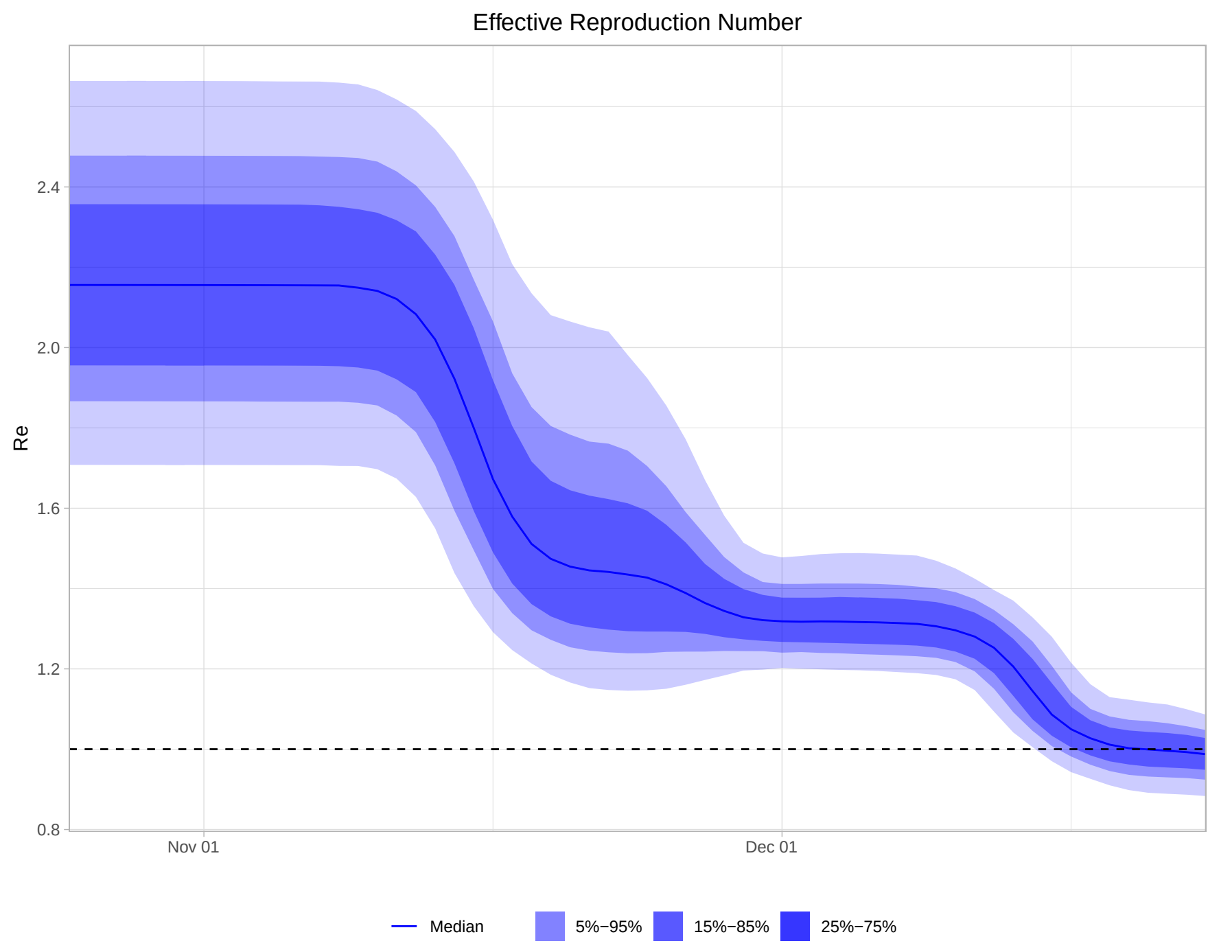

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
25
20
15
10
5
0
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


Short Term ICU Projection
Number of COVID19 Patients in ICU
0
2
4
6
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
2
4
6
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

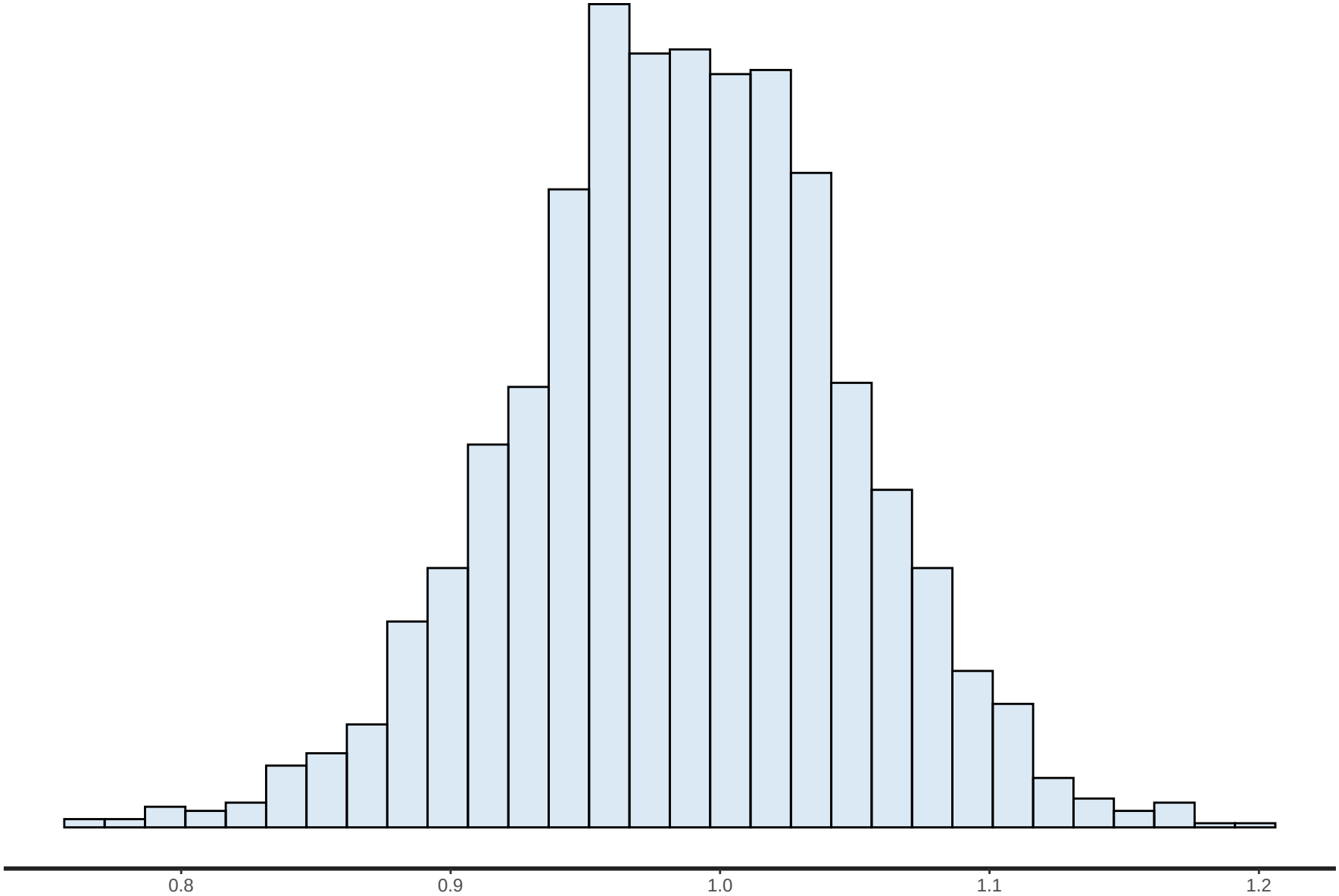

Short Term Death Projection
Number of COVID19 Deaths
35
30
25
20
15
Nov 01
Dec 01
Jan 01
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

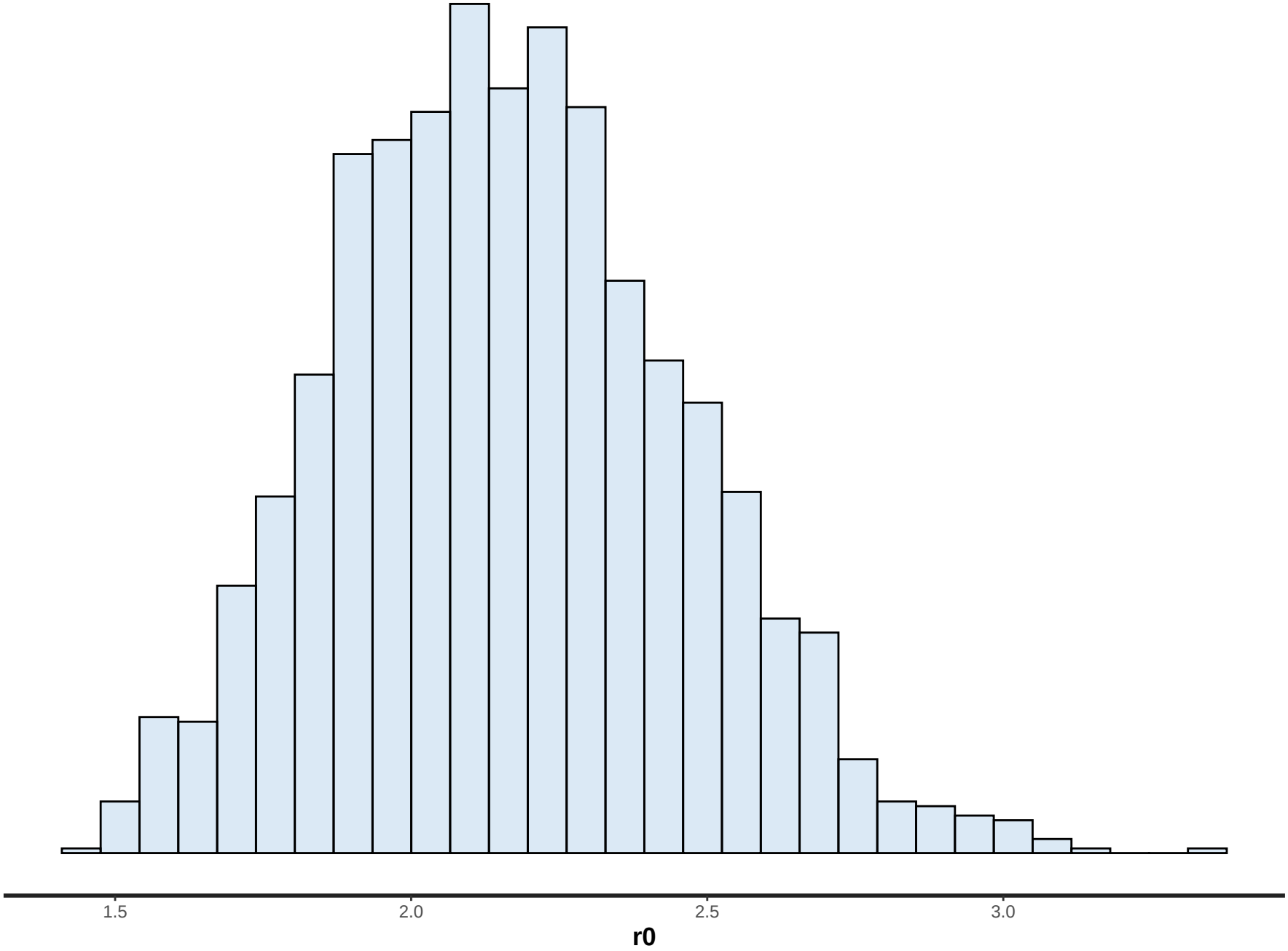

Long Term Death Projection
Number of COVID19 Deaths
100
75
50
25
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

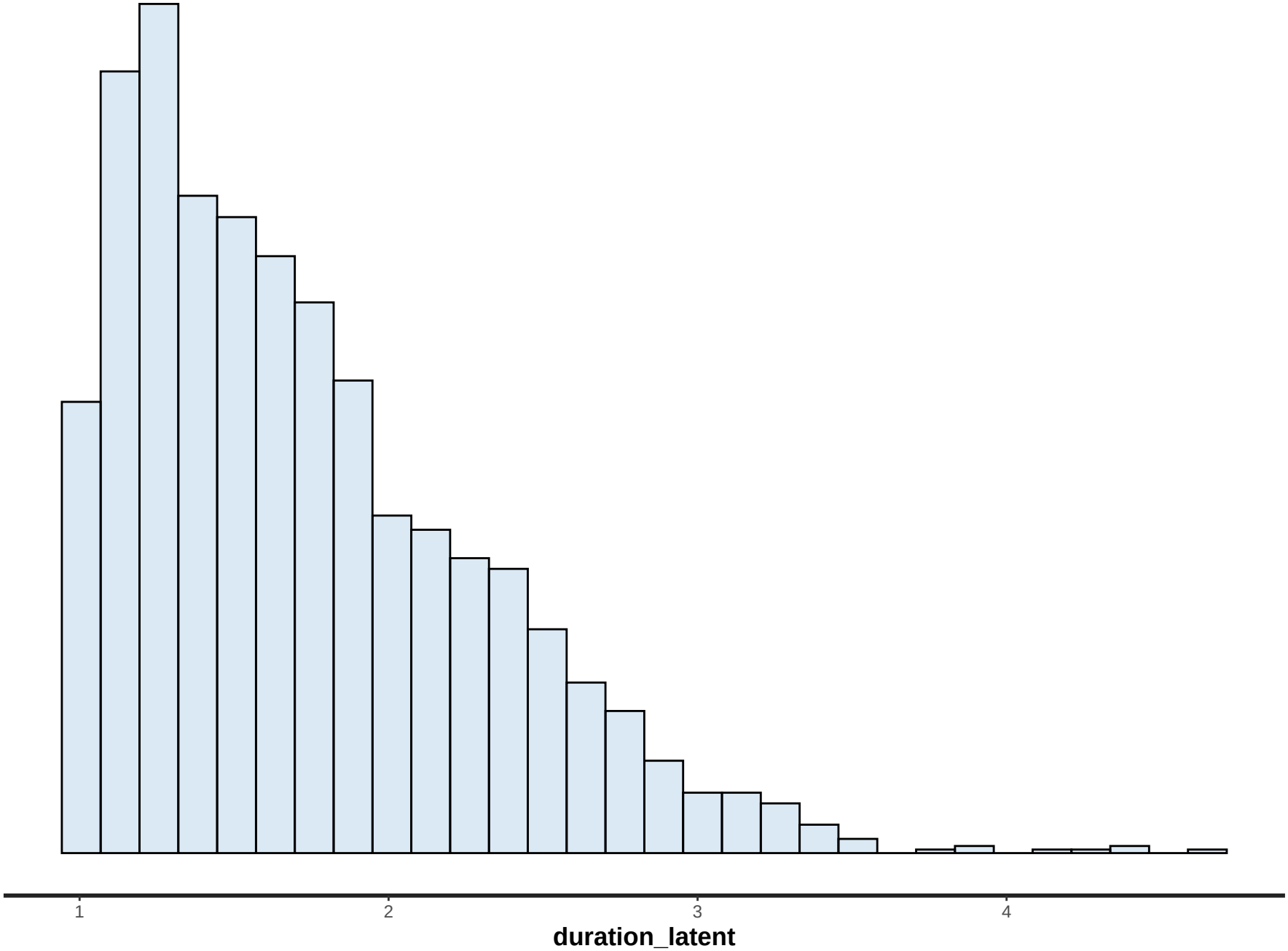

Effective Reproduction Number
Re
2.4
2.0
1.6
1.2
0.8
Nov 01
Dec 01
Median
5%−95%
15%−85%
25%−75%

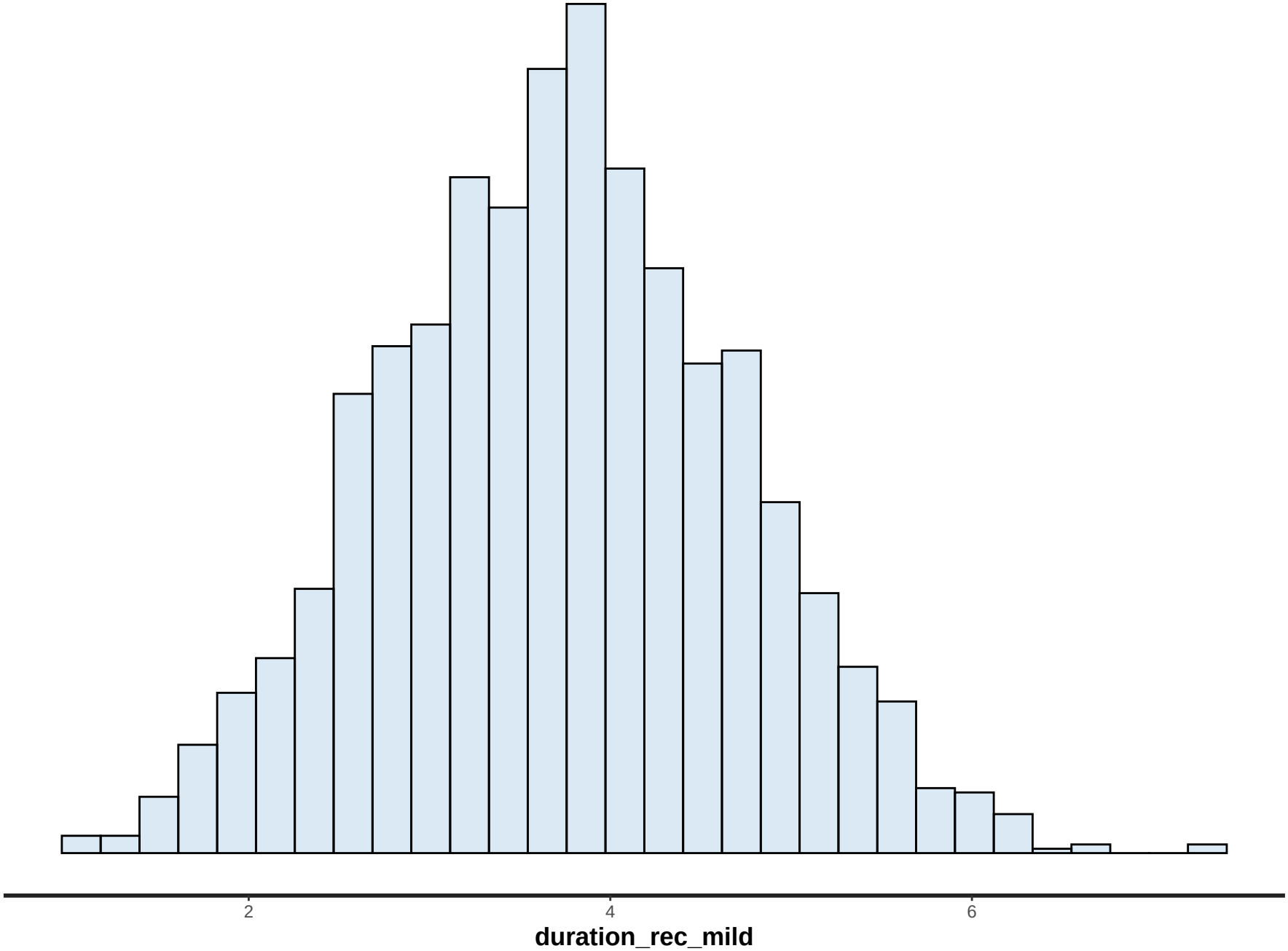
Rt as of 2020−12−23

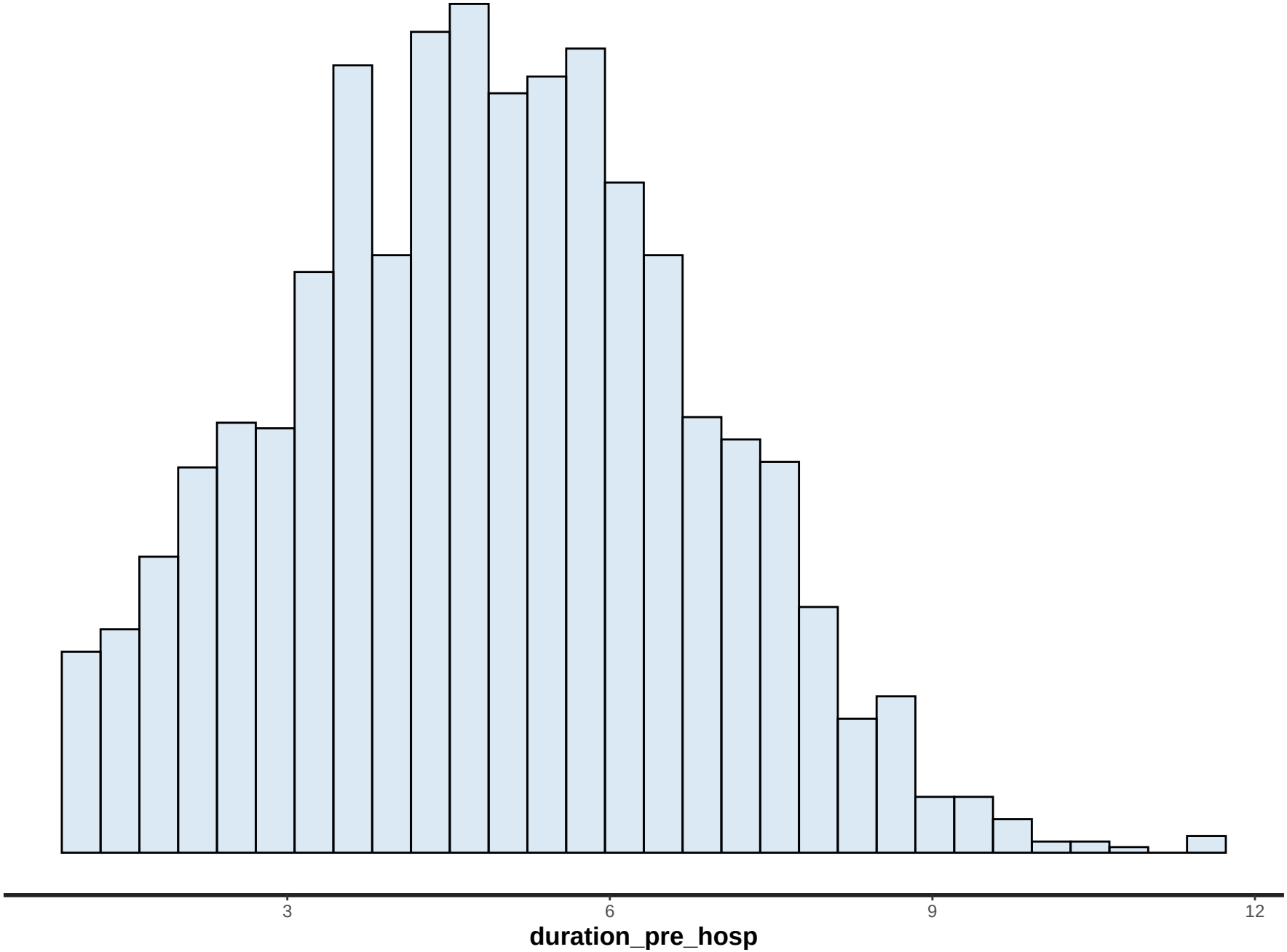
5%	10%	25%	50%	75%	90%	95%
0.88	0.91	0.95	0.99	1.03	1.07	1.09

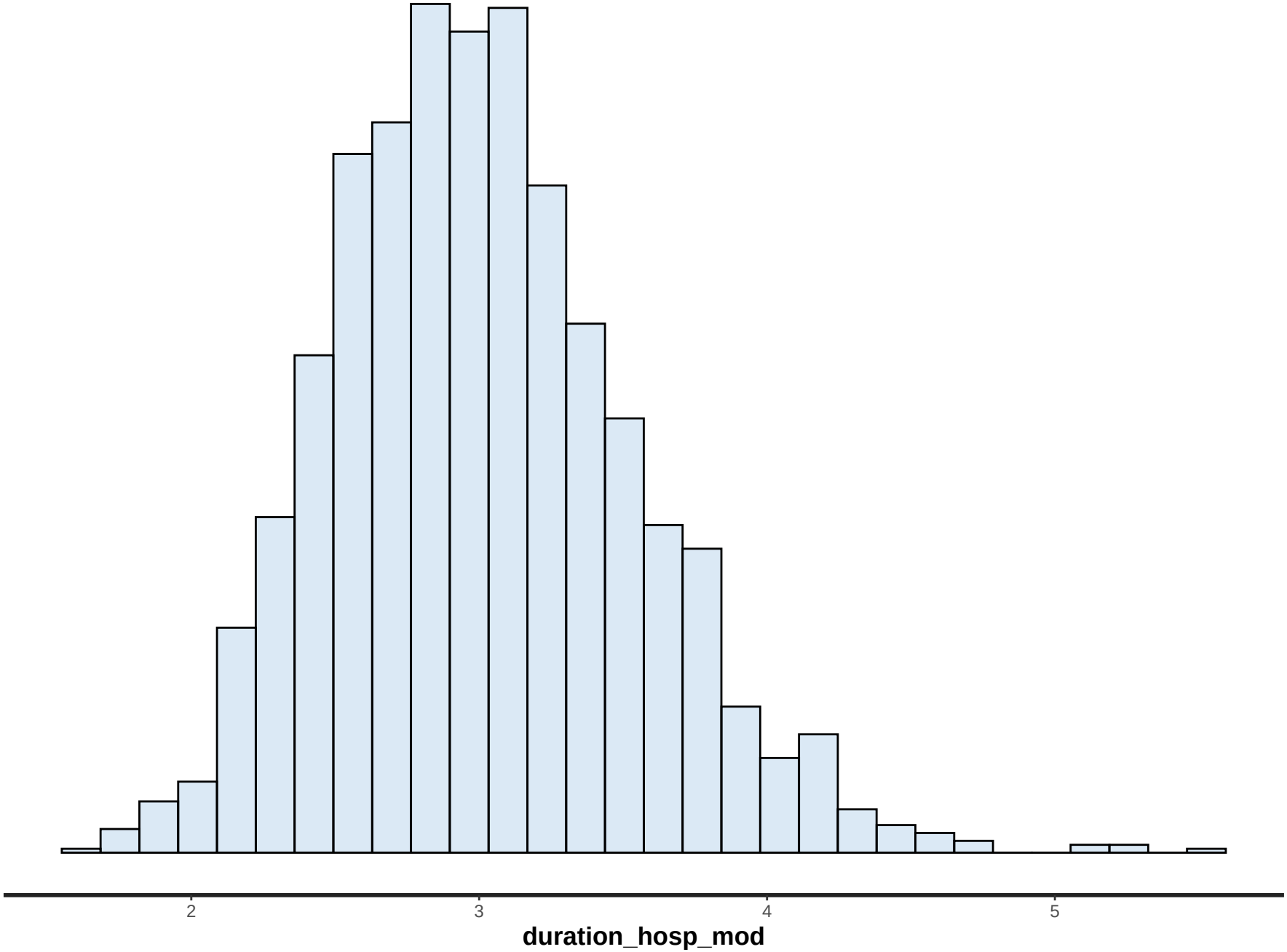


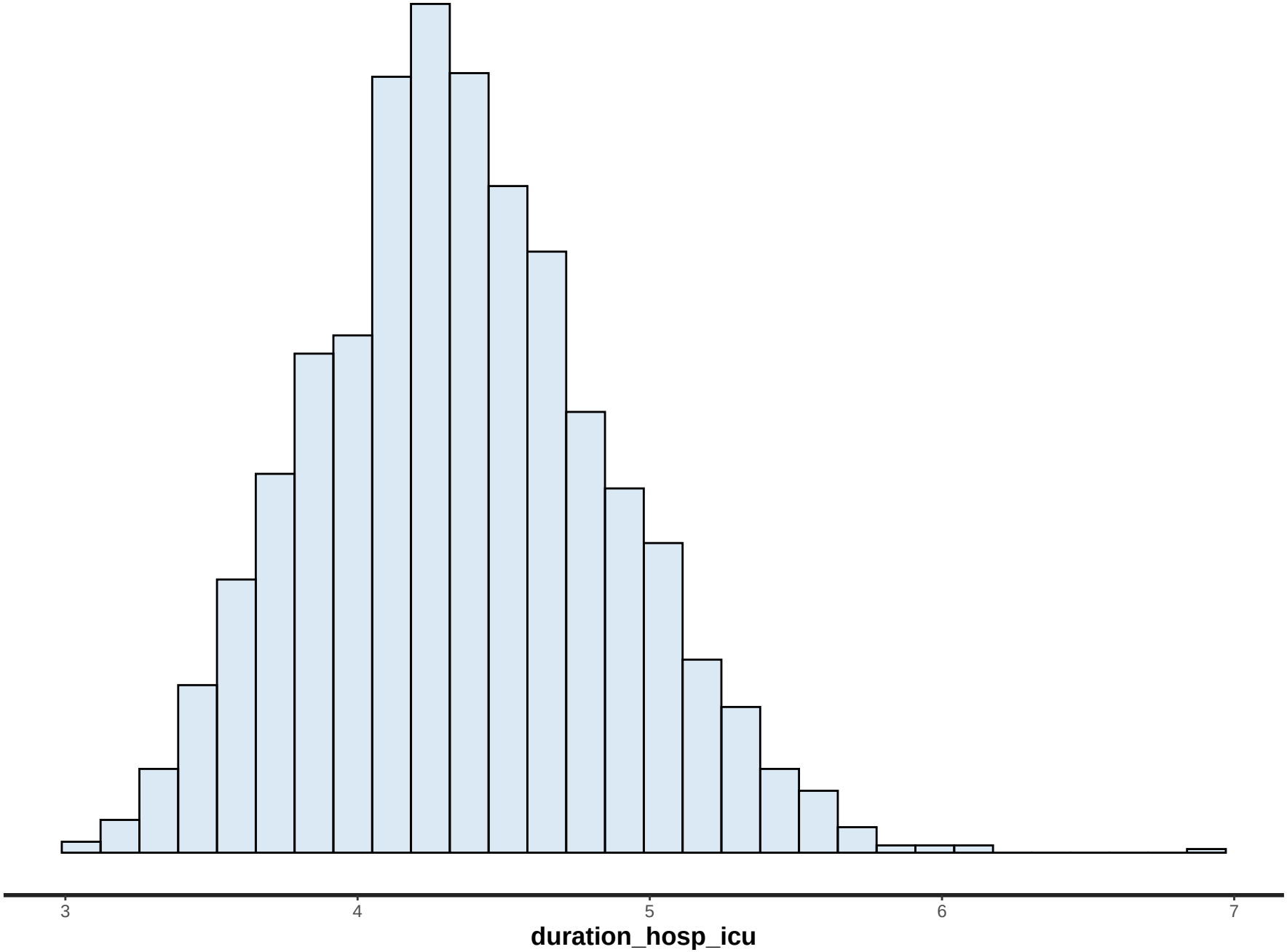

1.5
2.0
2.5
3.0
r0

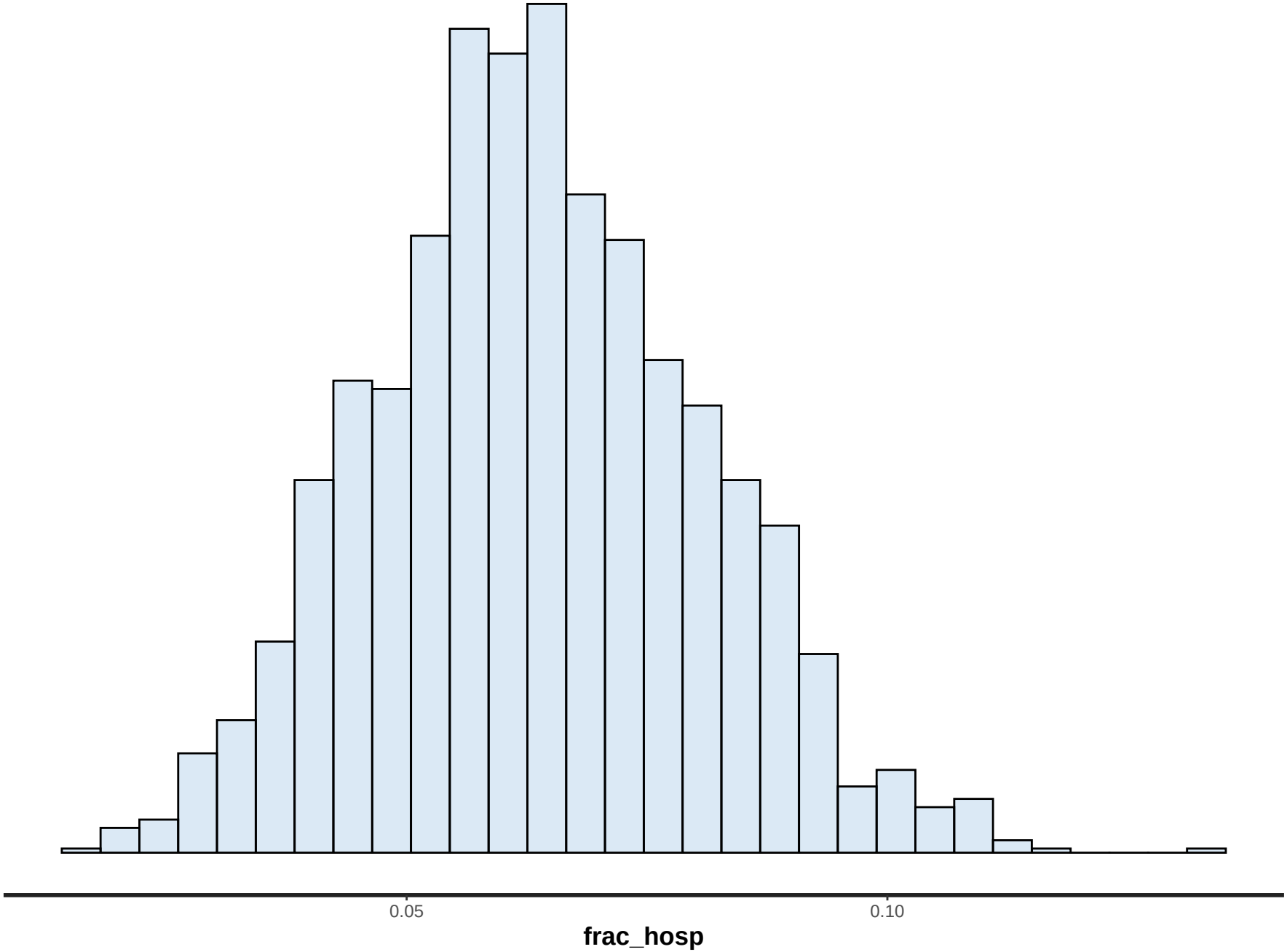

1
2
3
4
duration_latent

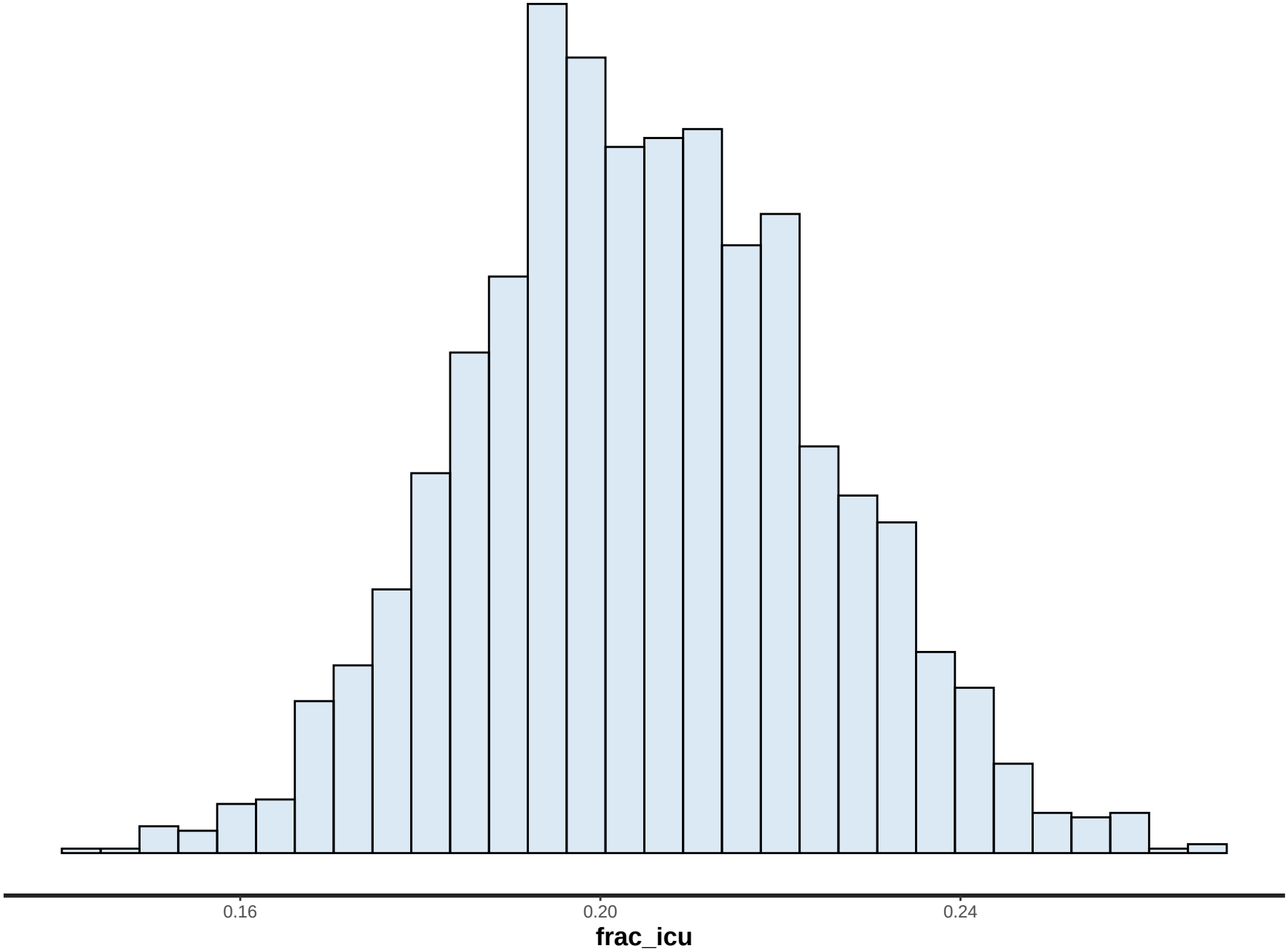

2
4
6
duration_rec_mild

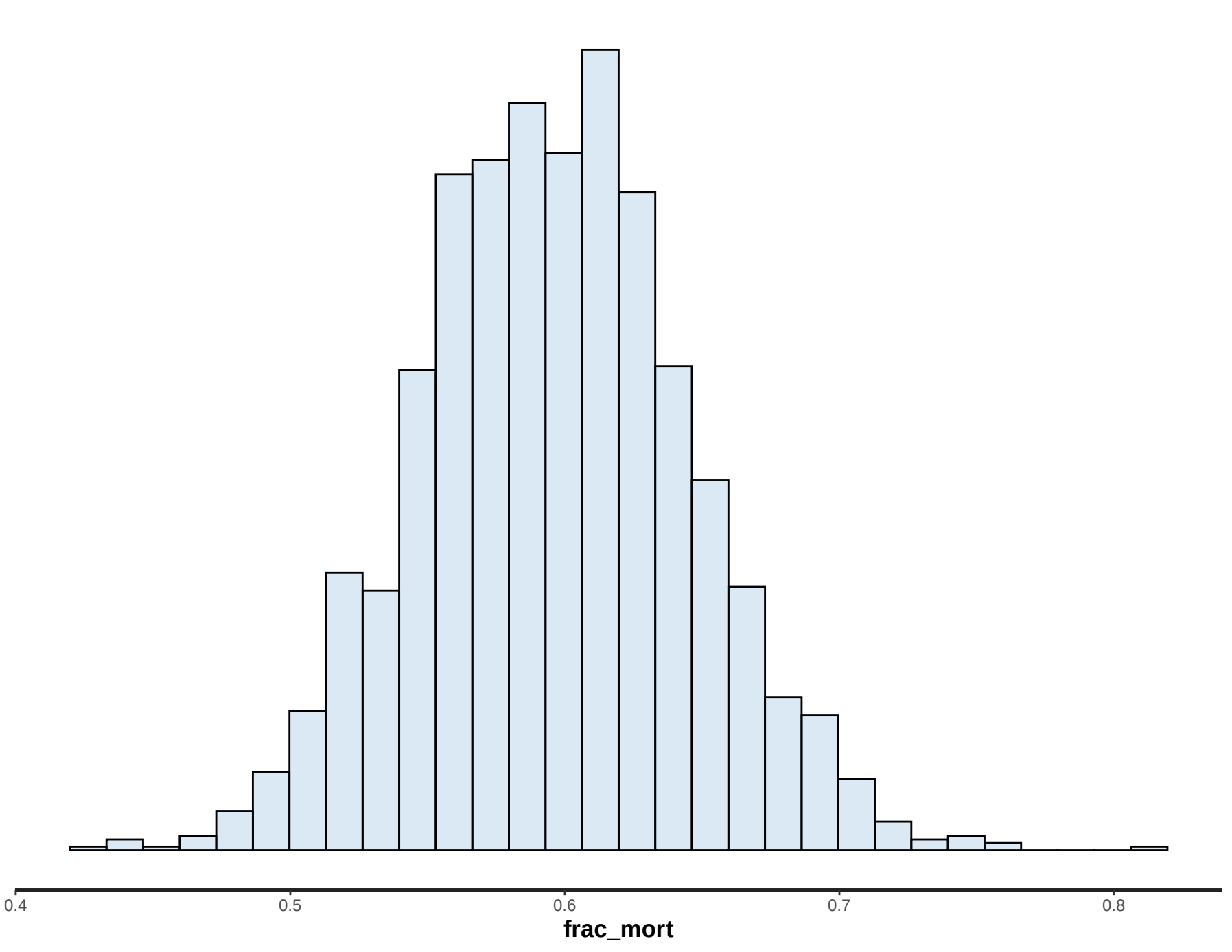

3
6
9
12
duration_pre_hosp

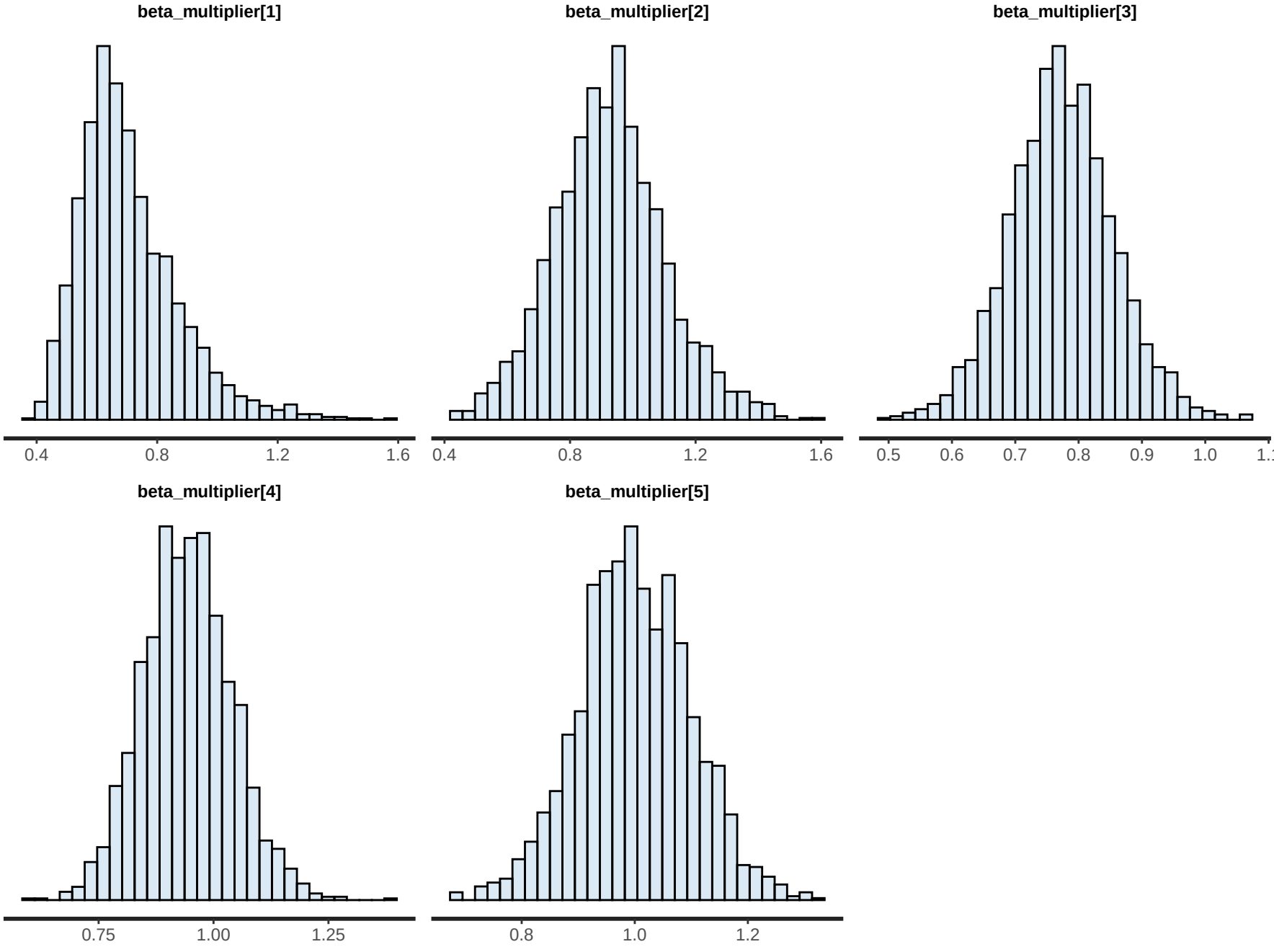

2
3
4
5
duration_hosp_mod

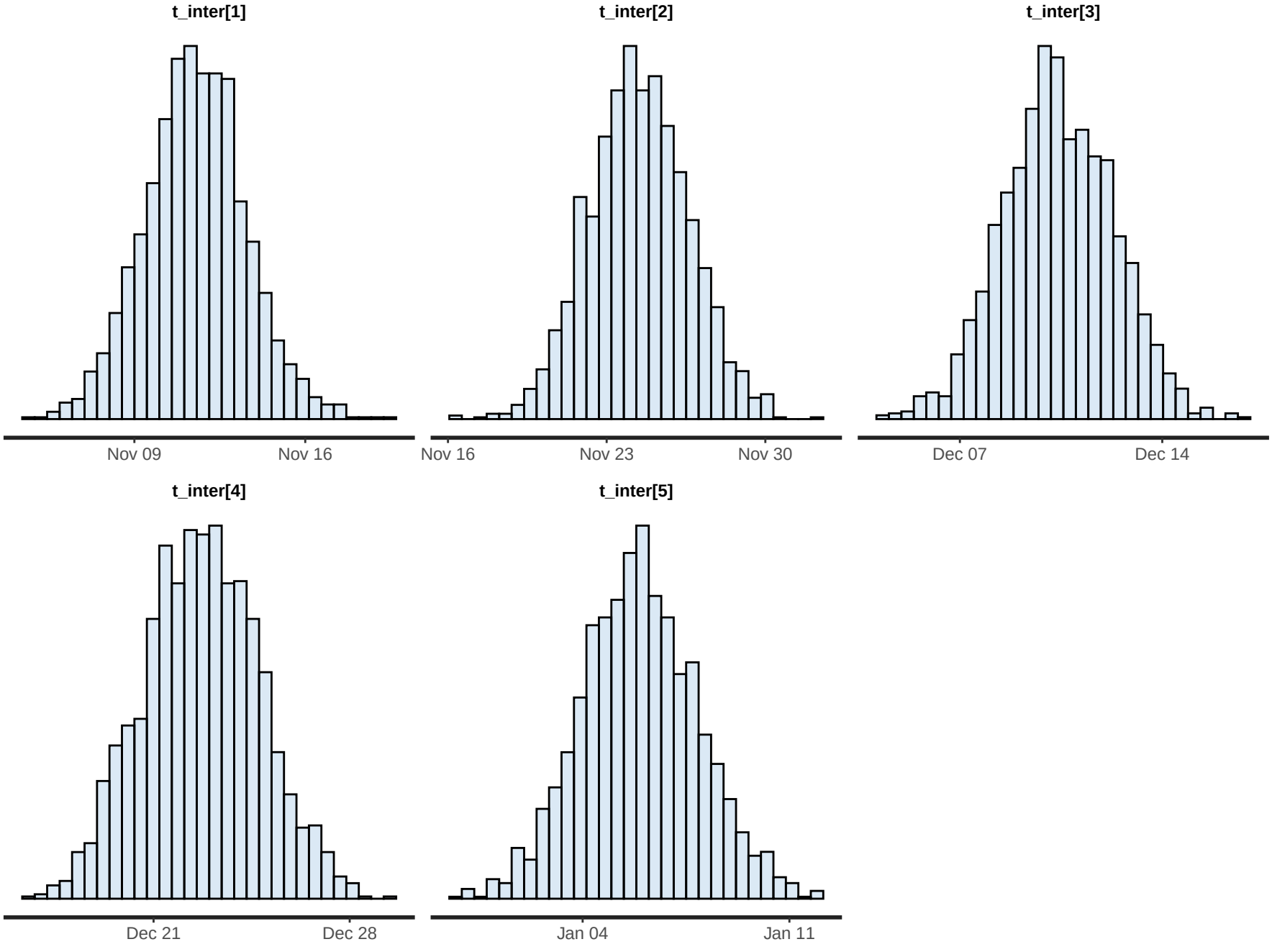

3
4
5
6
7
duration_hosp_icu

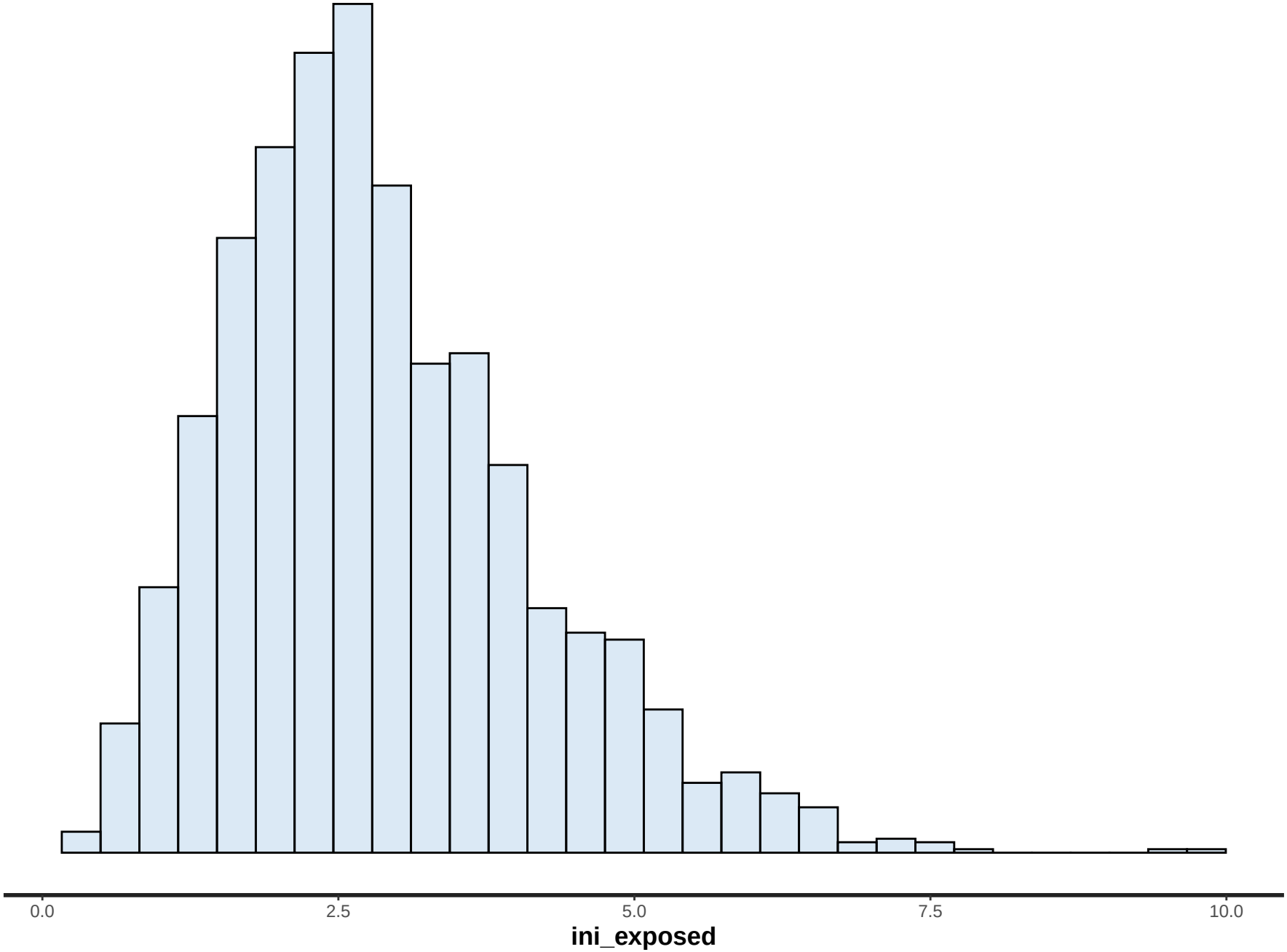

0.05
0.10
frac_hosp

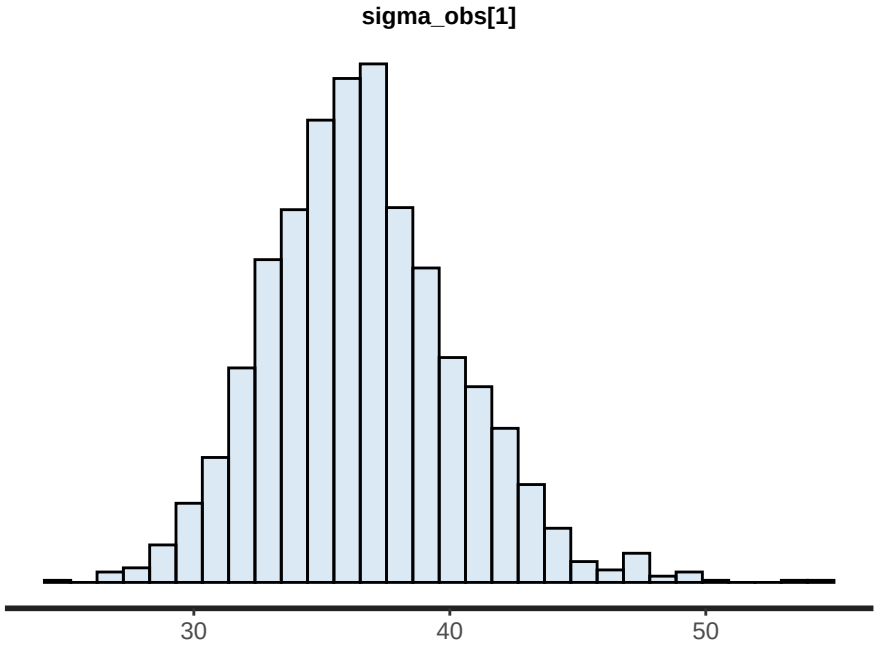

0.16
0.20
0.24
frac_icu


0.4
0.5
0.6
0.7
0.8
frac_mort


beta_multiplier[1]
0.4
0.8
1.2
1.6
beta_multiplier[2]
0.4
0.8
1.2
1.6
beta_multiplier[3]
0.5
0.6
0.7
0.8
0.9
1.0
1.1
beta_multiplier[4]
0.75
1.00
1.25
beta_multiplier[5]
0.8
1.0
1.2


t_inter[1]
Nov 09
Nov 16
t_inter[2]
Nov 16
Nov 23
Nov 30
t_inter[3]
Dec 07
Dec 14
t_inter[4]
Dec 21
Dec 28
t_inter[5]
Jan 04
Jan 11


0.0
2.5
5.0
7.5
10.0
ini_exposed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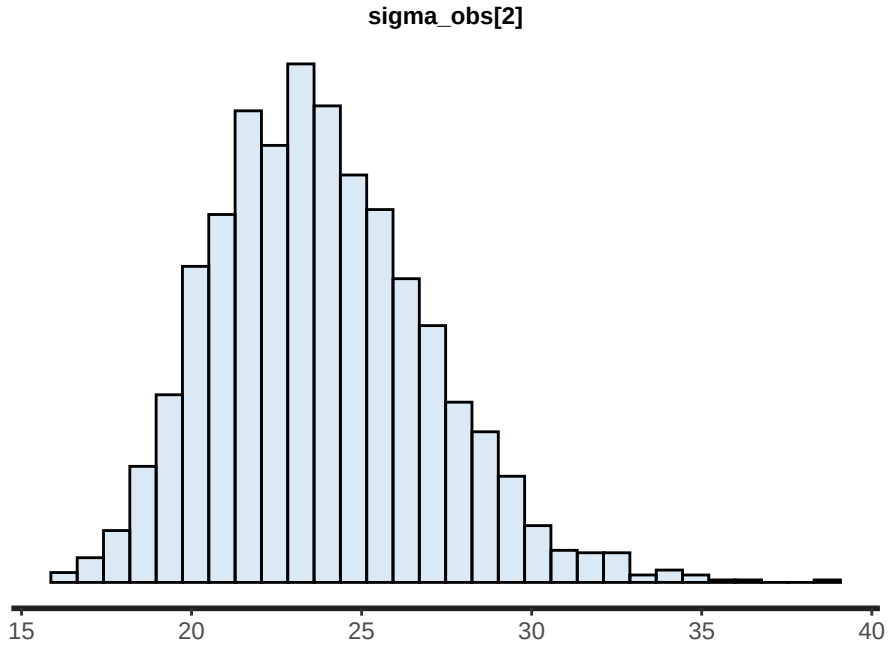
30
40
50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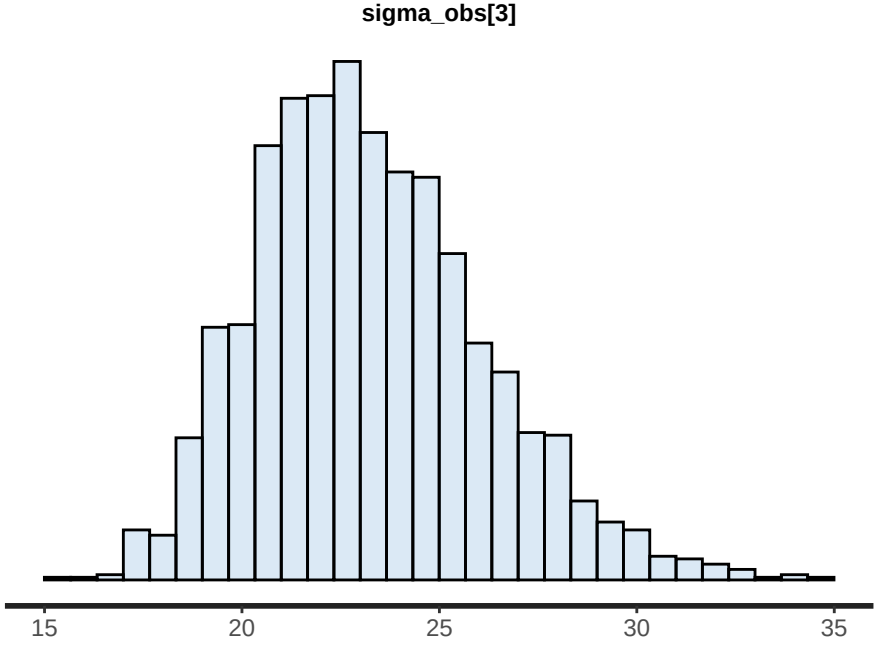
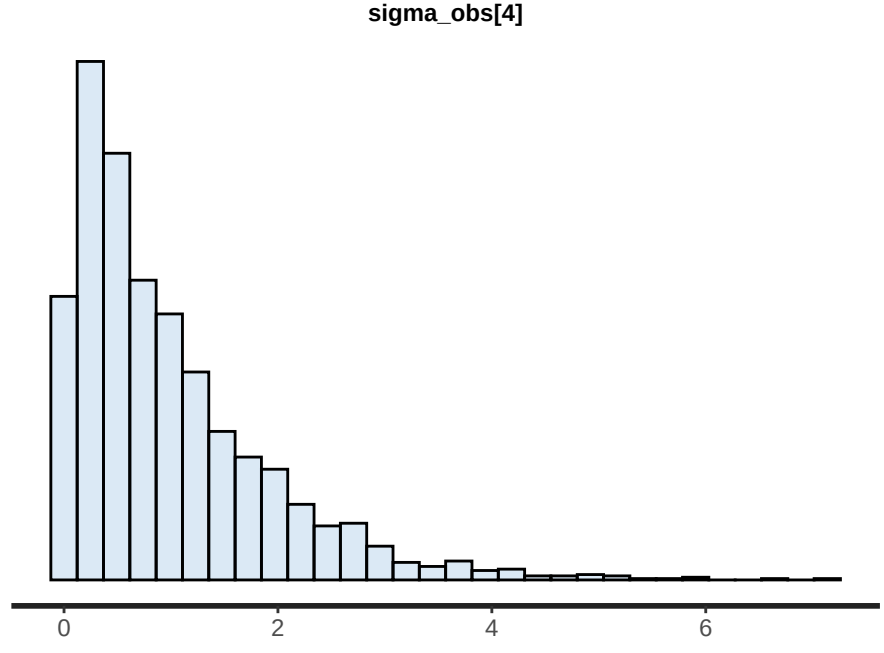
15
20
25
30
35
40


sigma_obs[3]
15
20
25
30
35


sigma_obs[4]
0
2
4
6