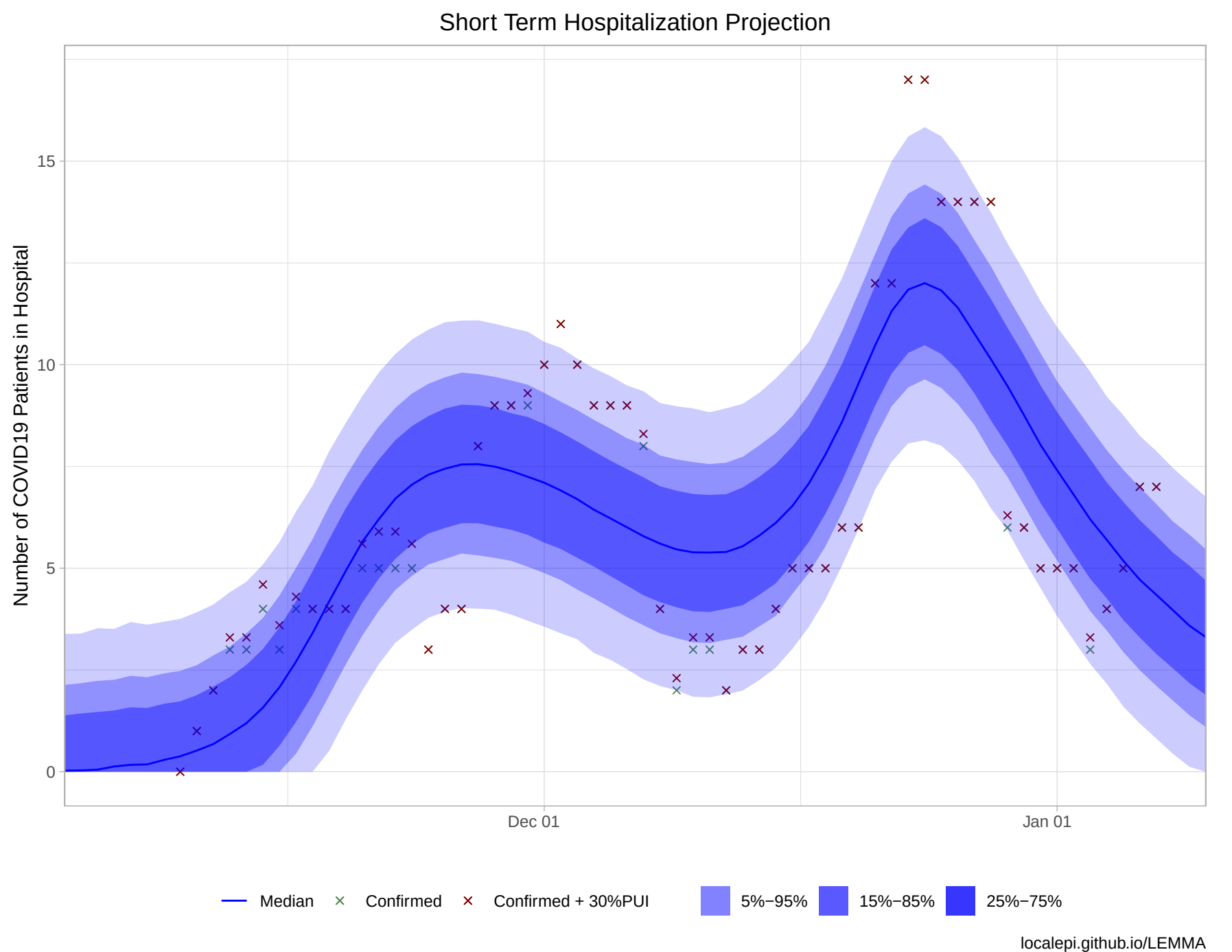
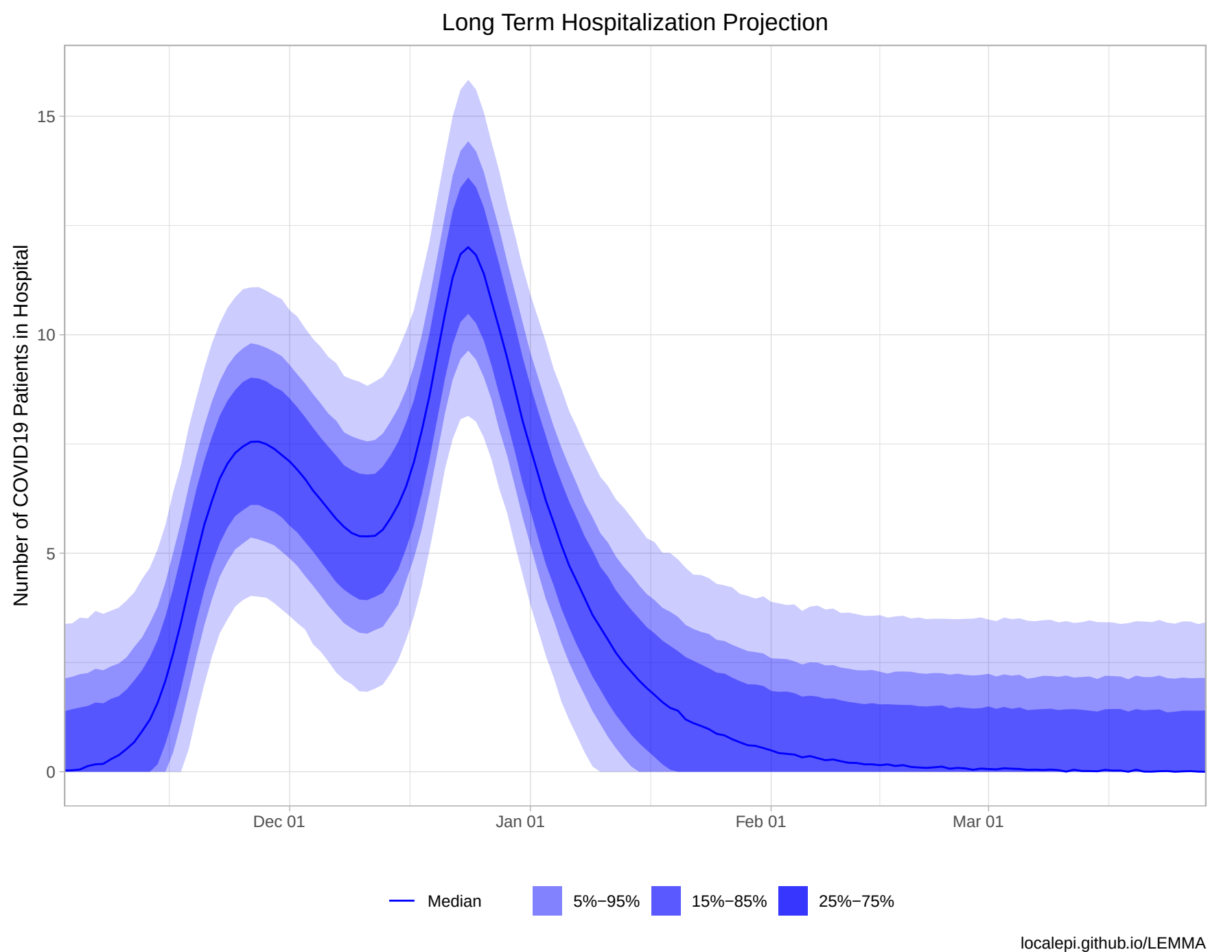
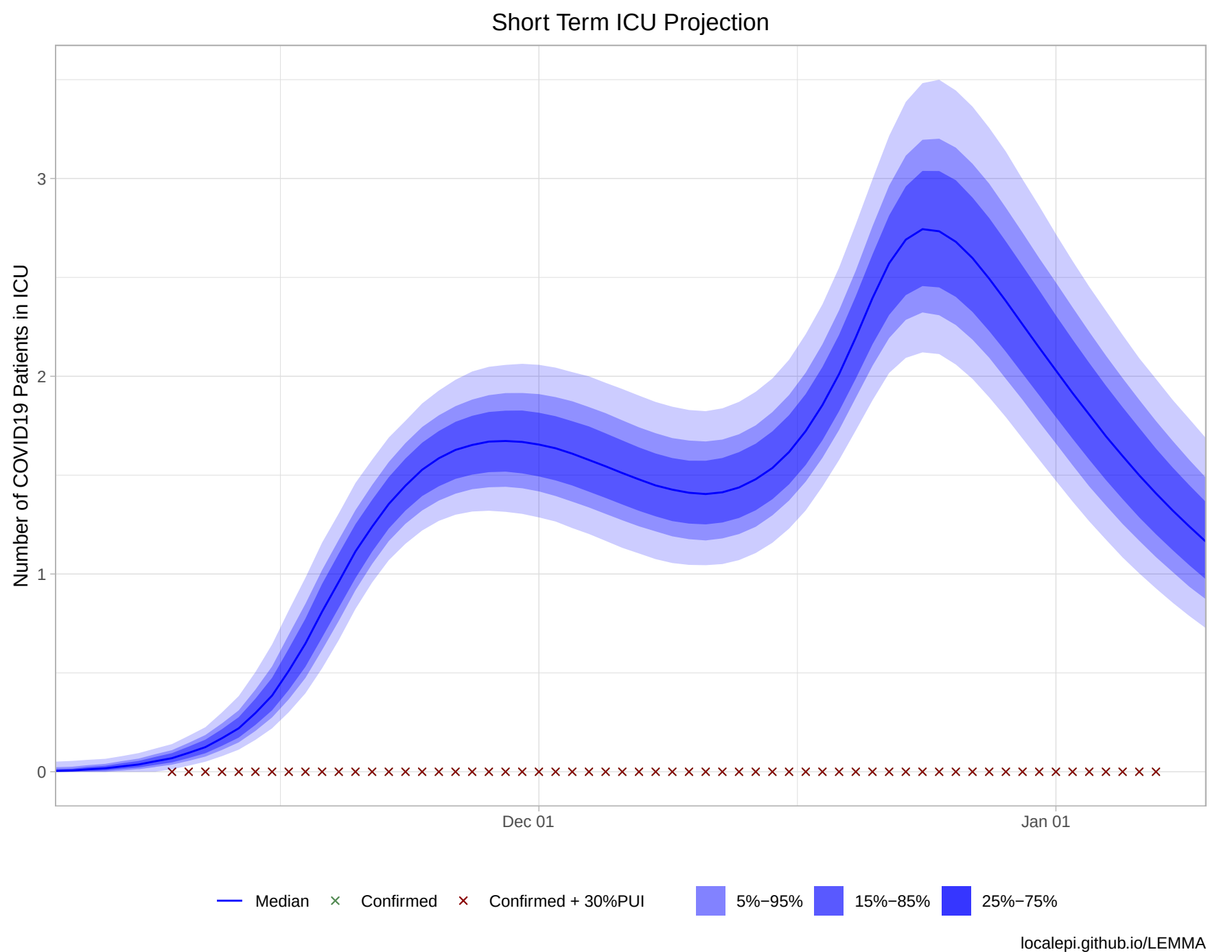
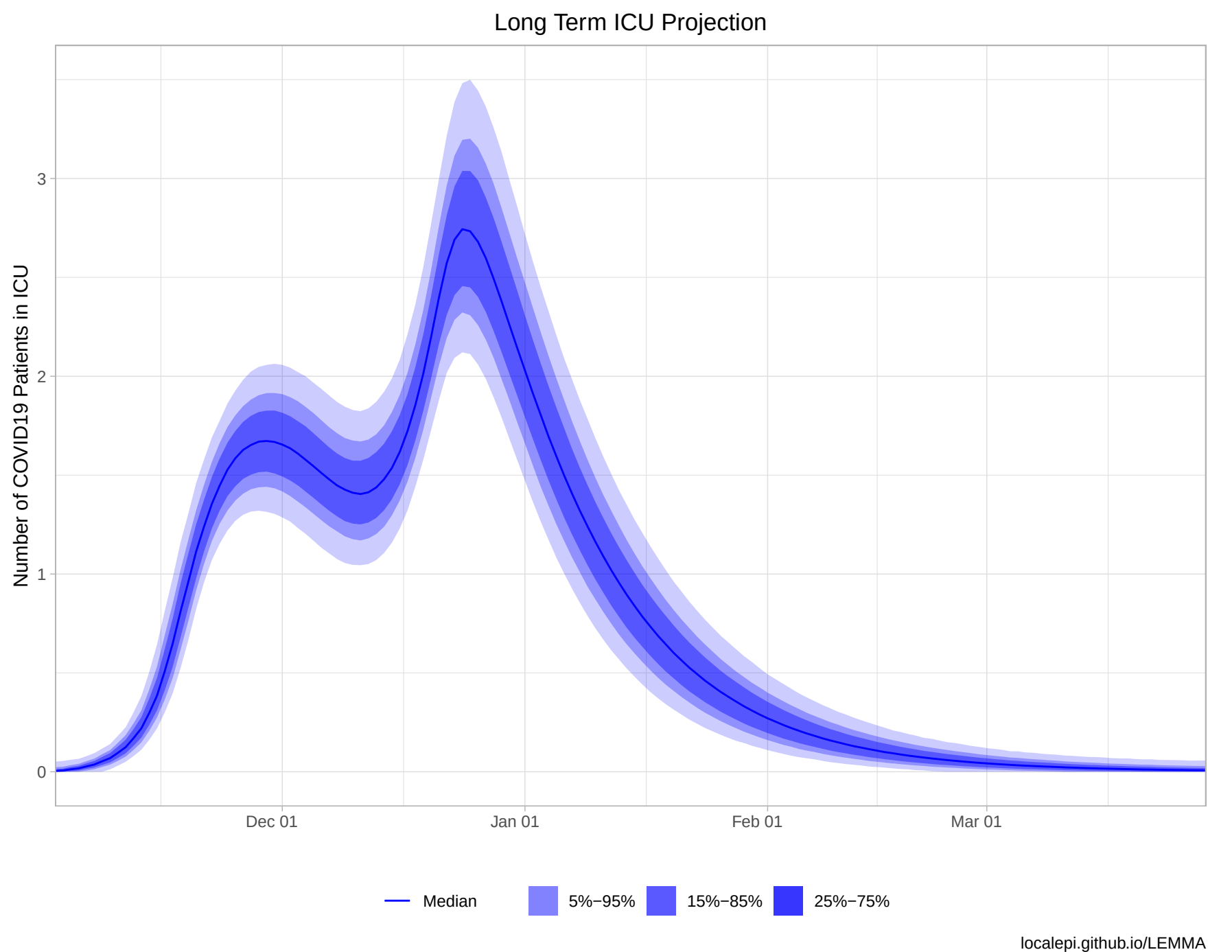
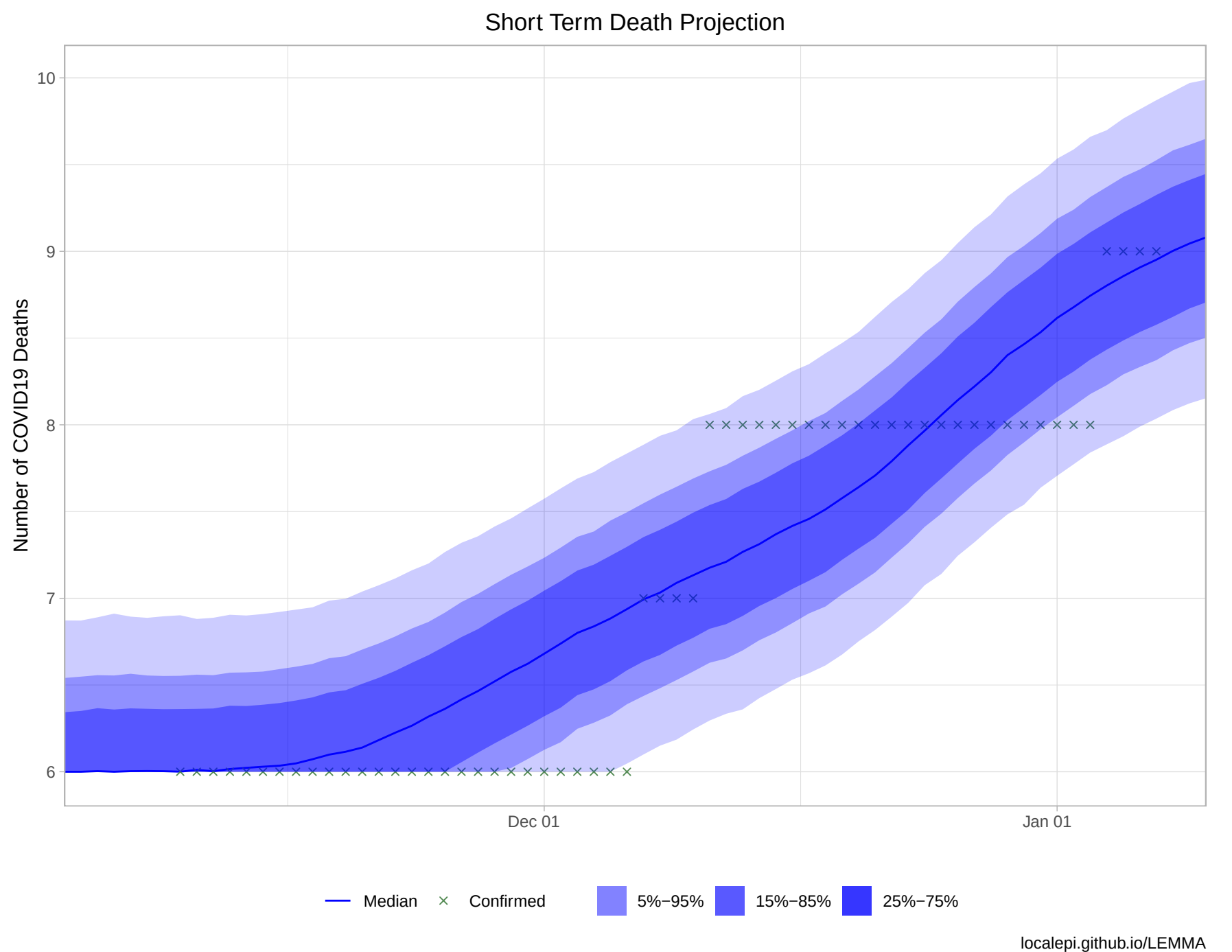
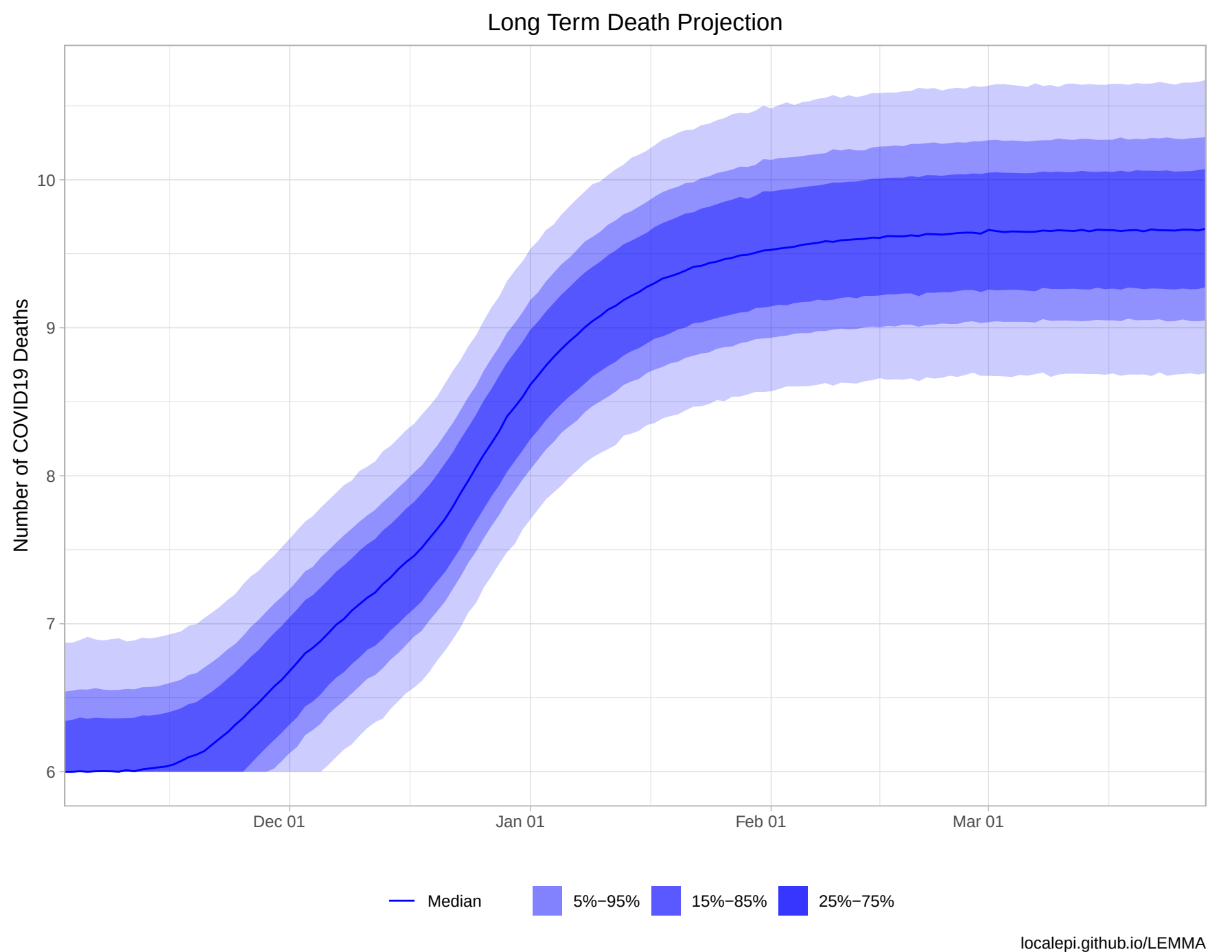

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
5
10
15
Dec 01
Jan 01
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

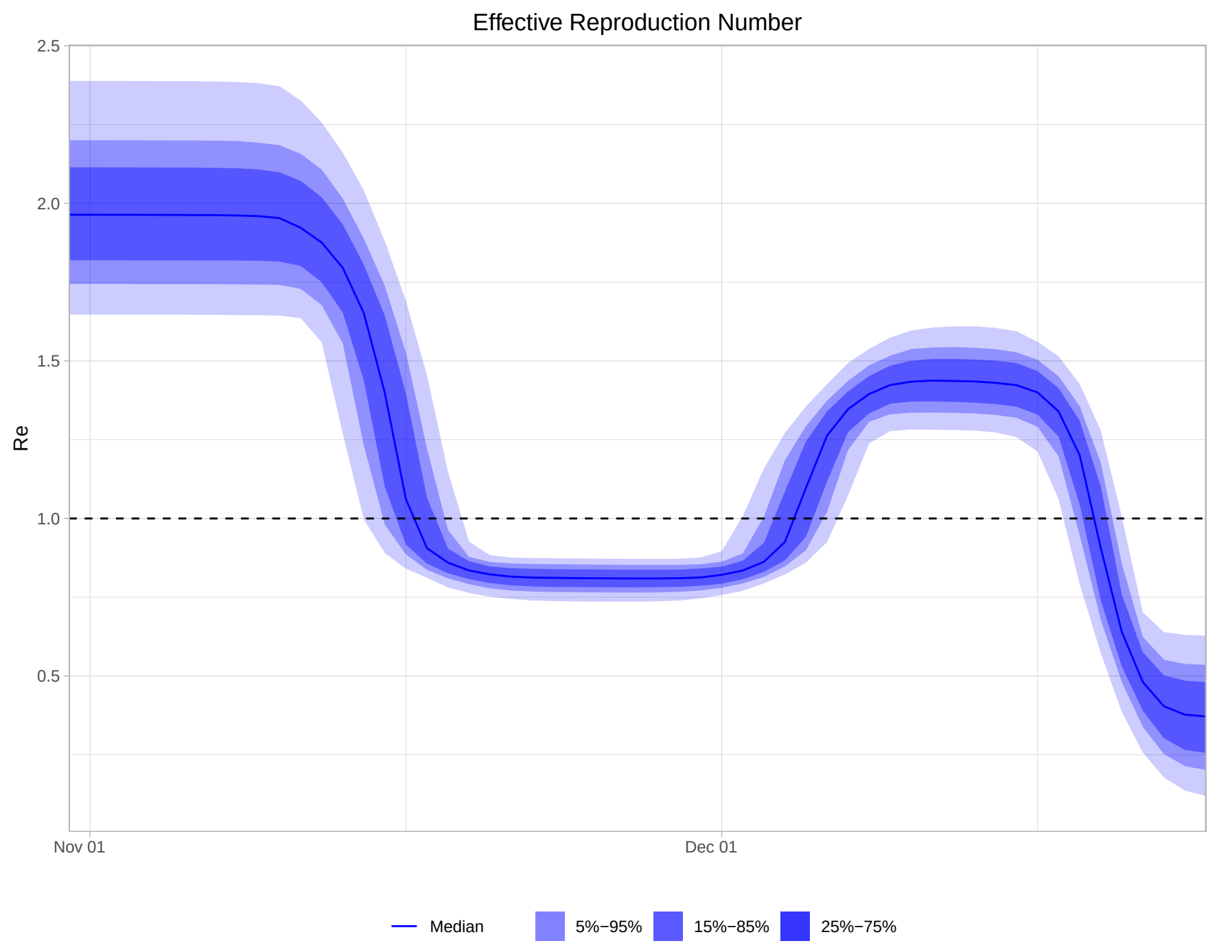

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
15
10
5
0
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


Short Term ICU Projection
Number of COVID19 Patients in ICU
0
1
2
3
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
3
2
1
0
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

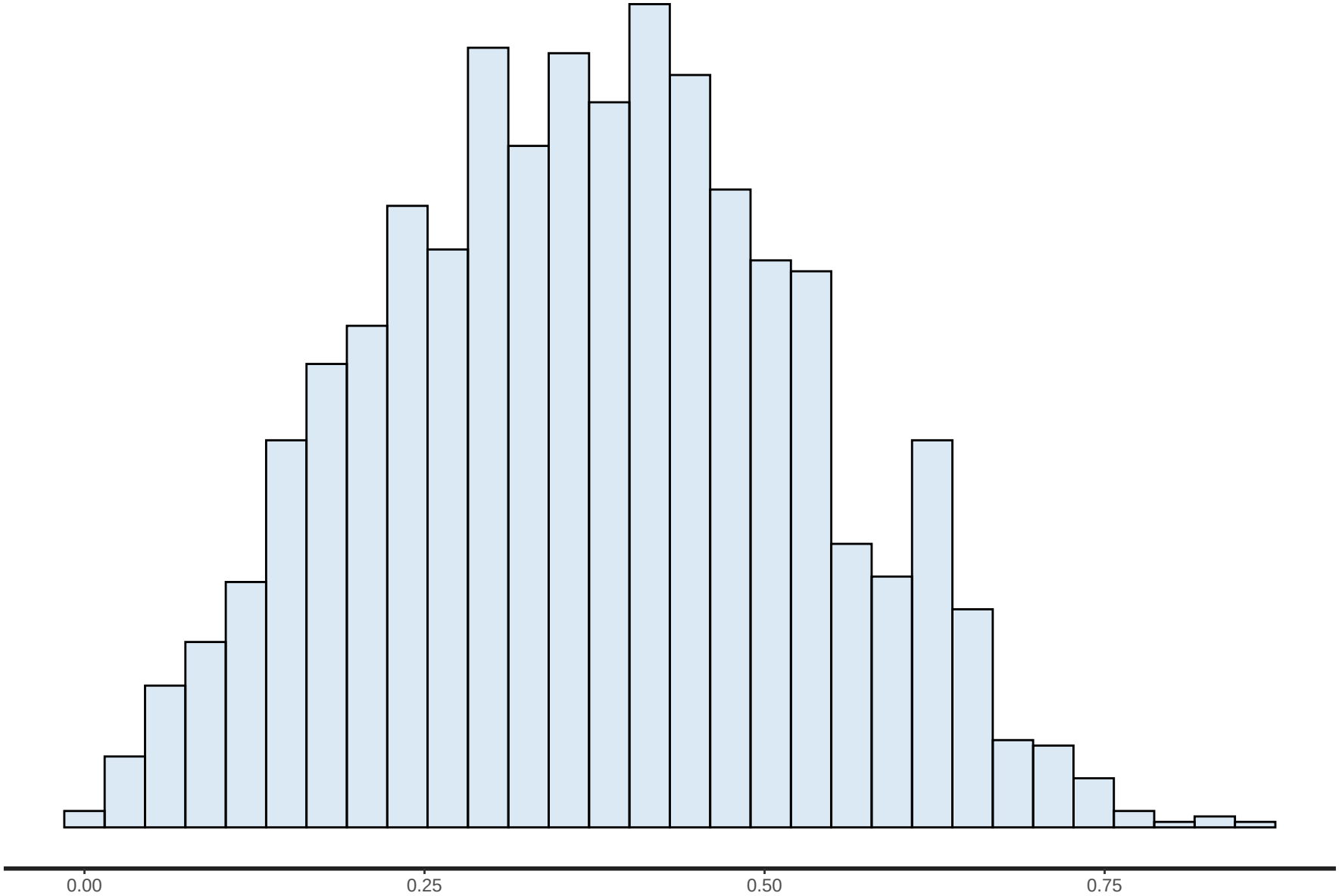

Short Term Death Projection
Number of COVID19 Deaths
10
9
8
7
6
Dec 01
Jan 01
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

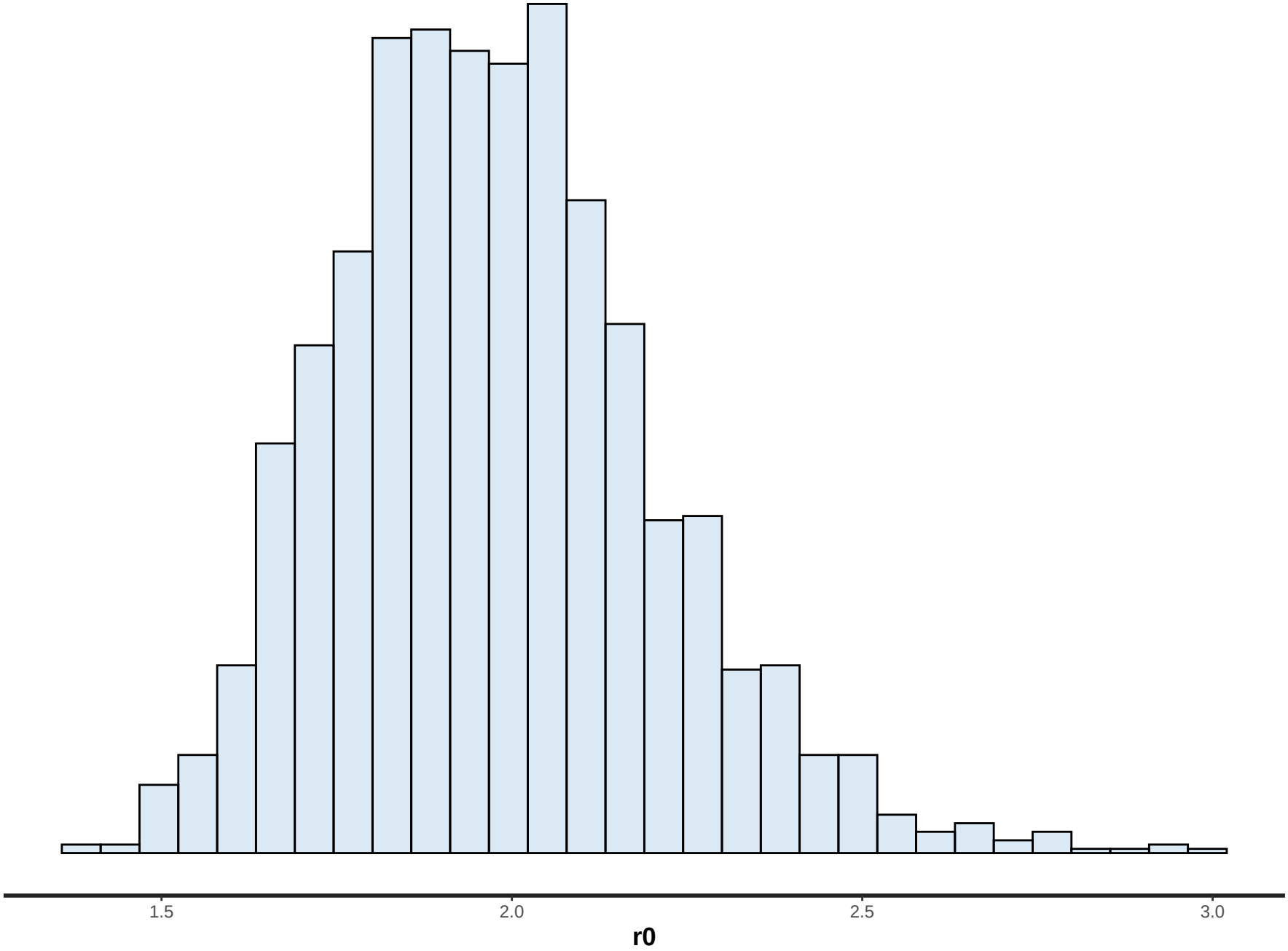

Long Term Death Projection
Number of COVID19 Deaths
10
9
8
7
6
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

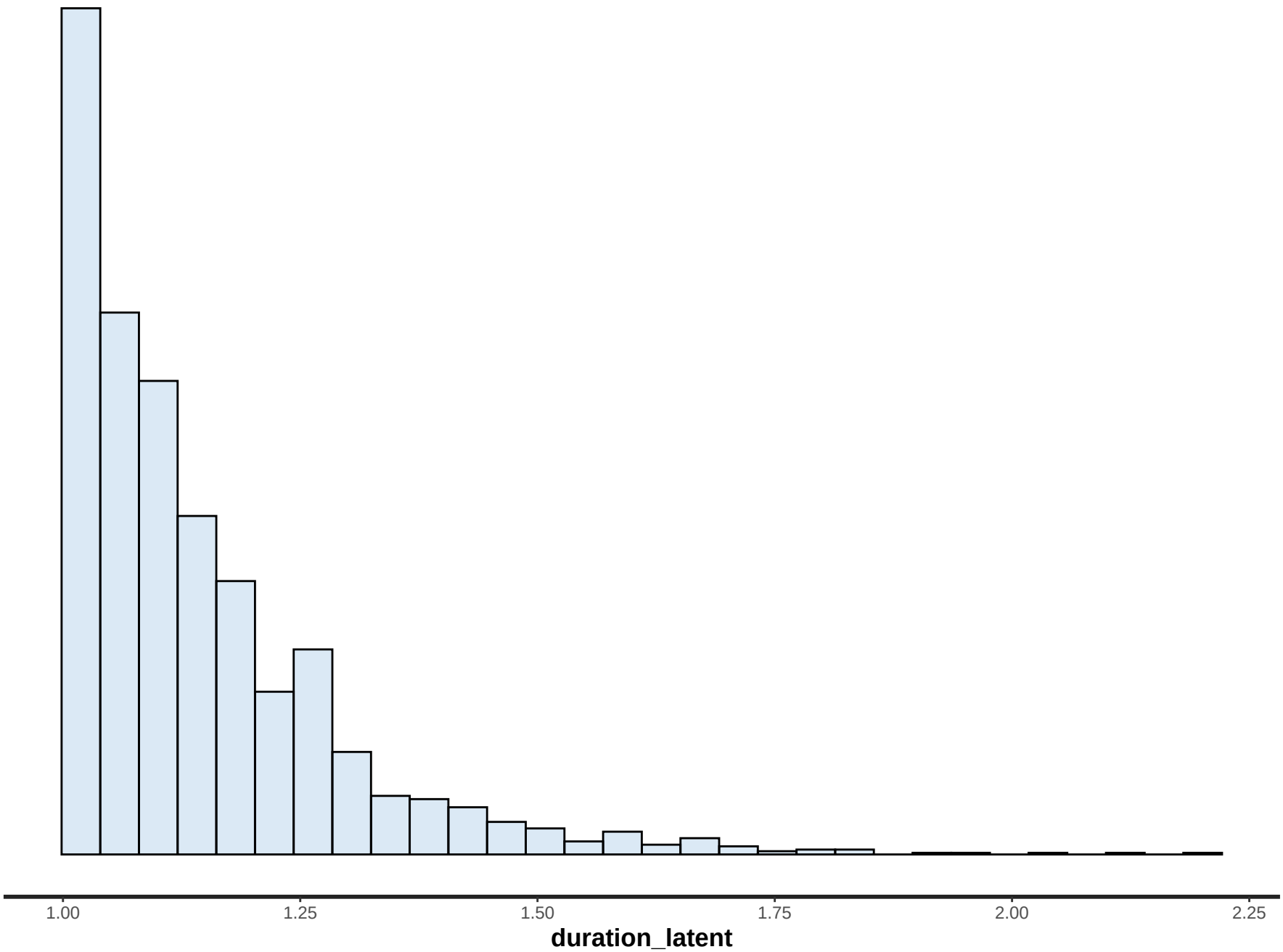

Effective Reproduction Number
2.5
2.0
1.5
1.0
0.5
Re
Nov 01
Dec 01
Median
5%−95%
15%−85%
25%−75%

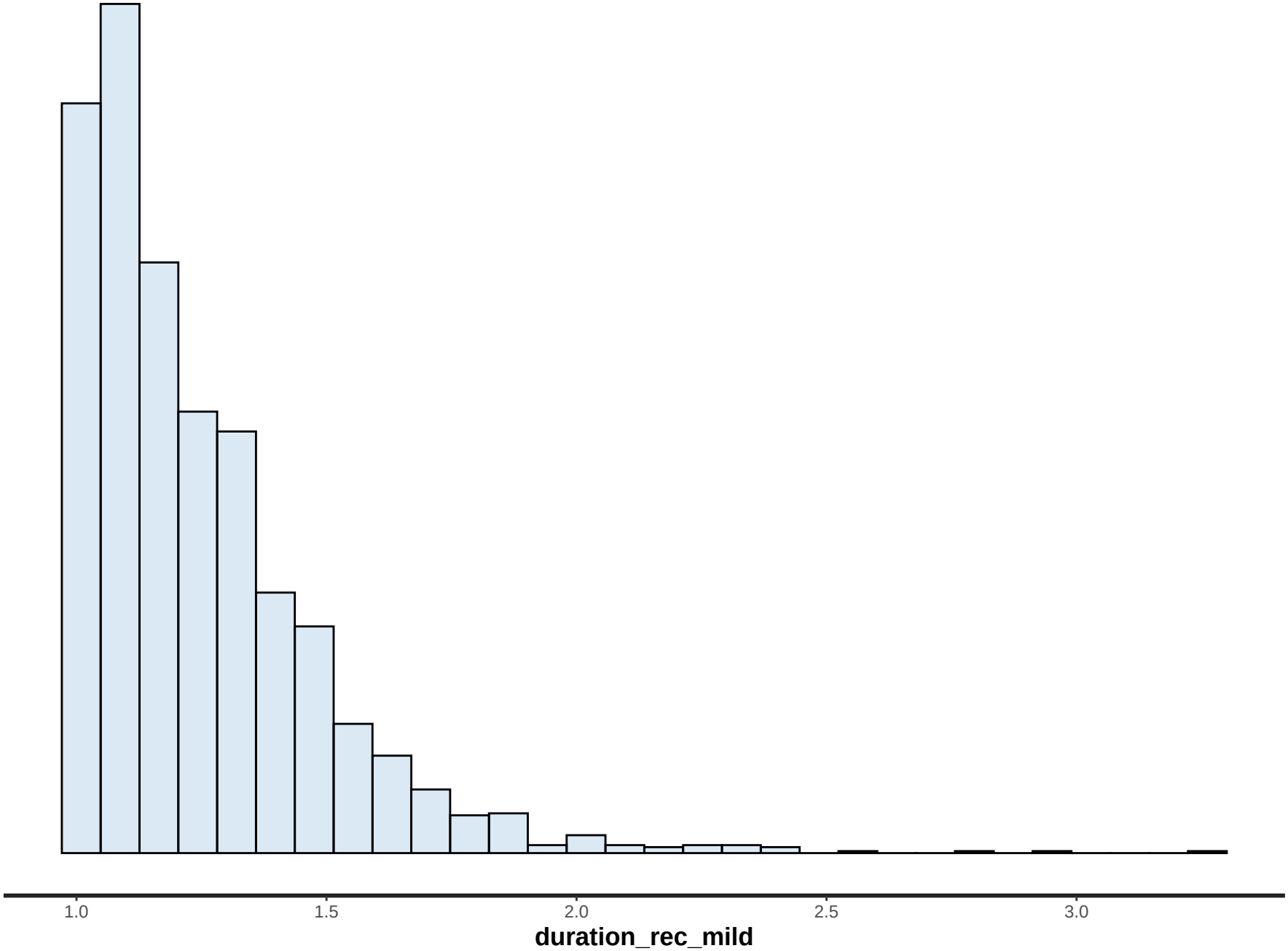
Rt as of 2020−12−24

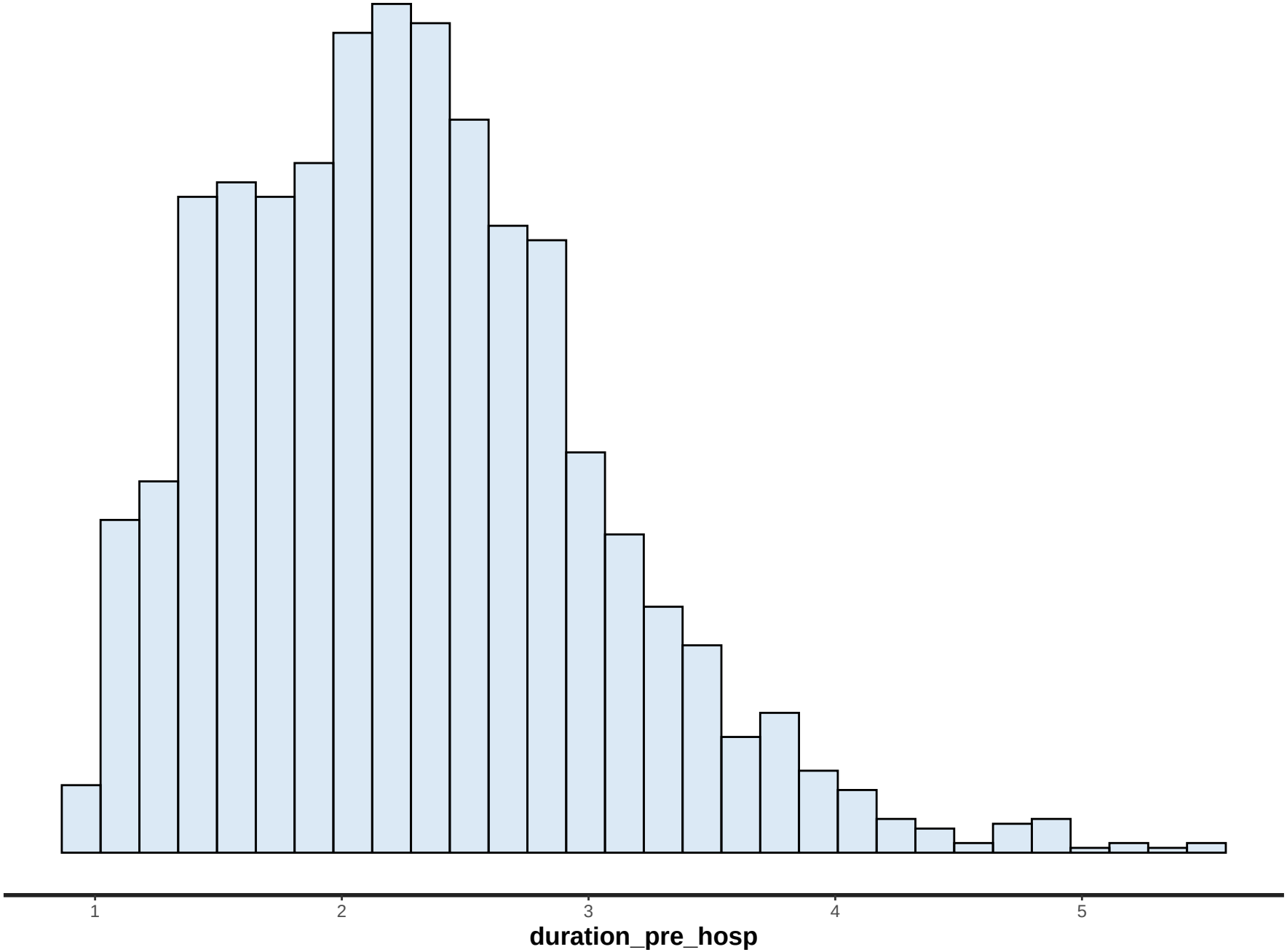
5%	10%	25%	50%	75%	90%	95%
0.12	0.17	0.26	0.37	0.48	0.58	0.63

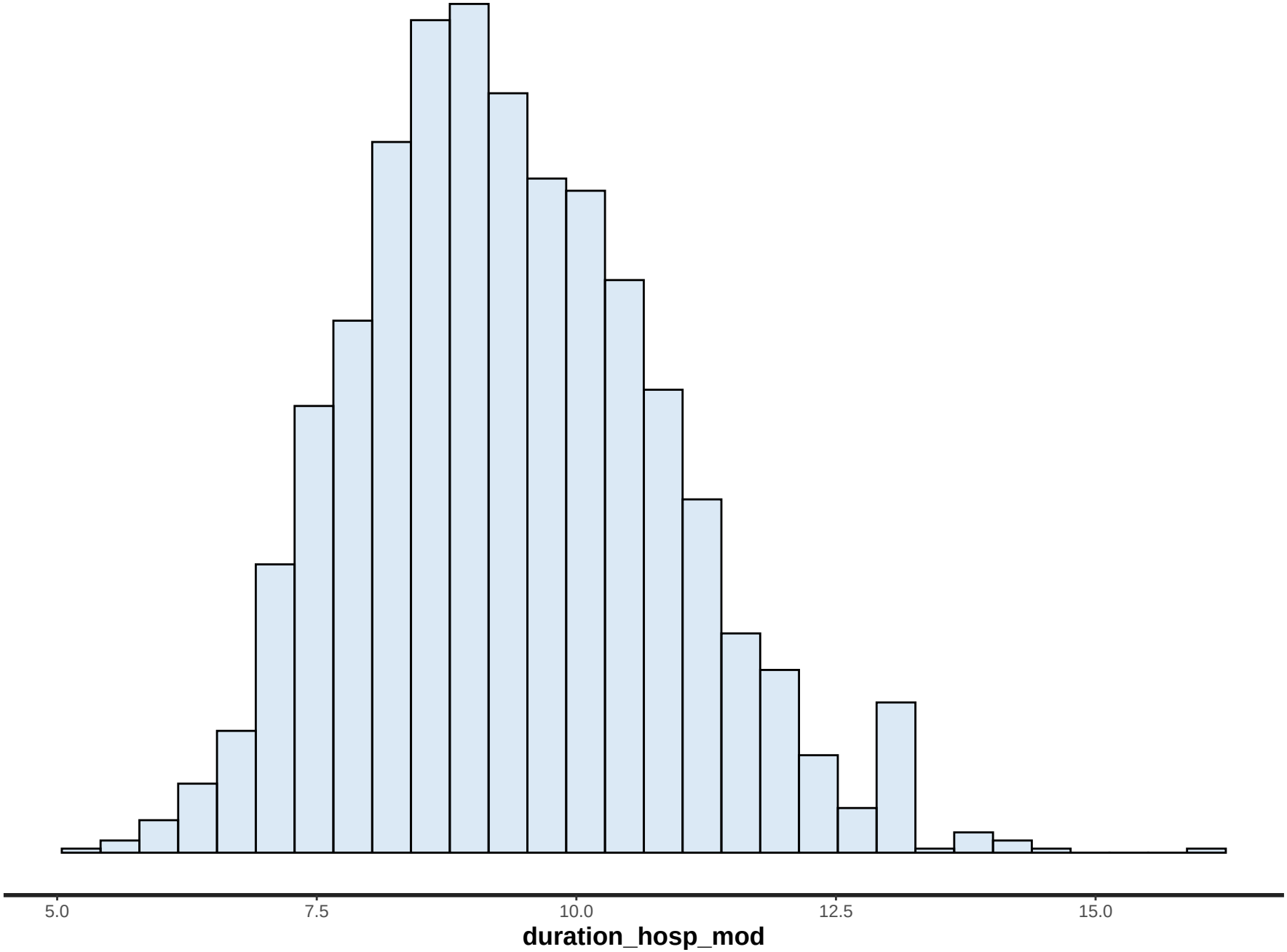


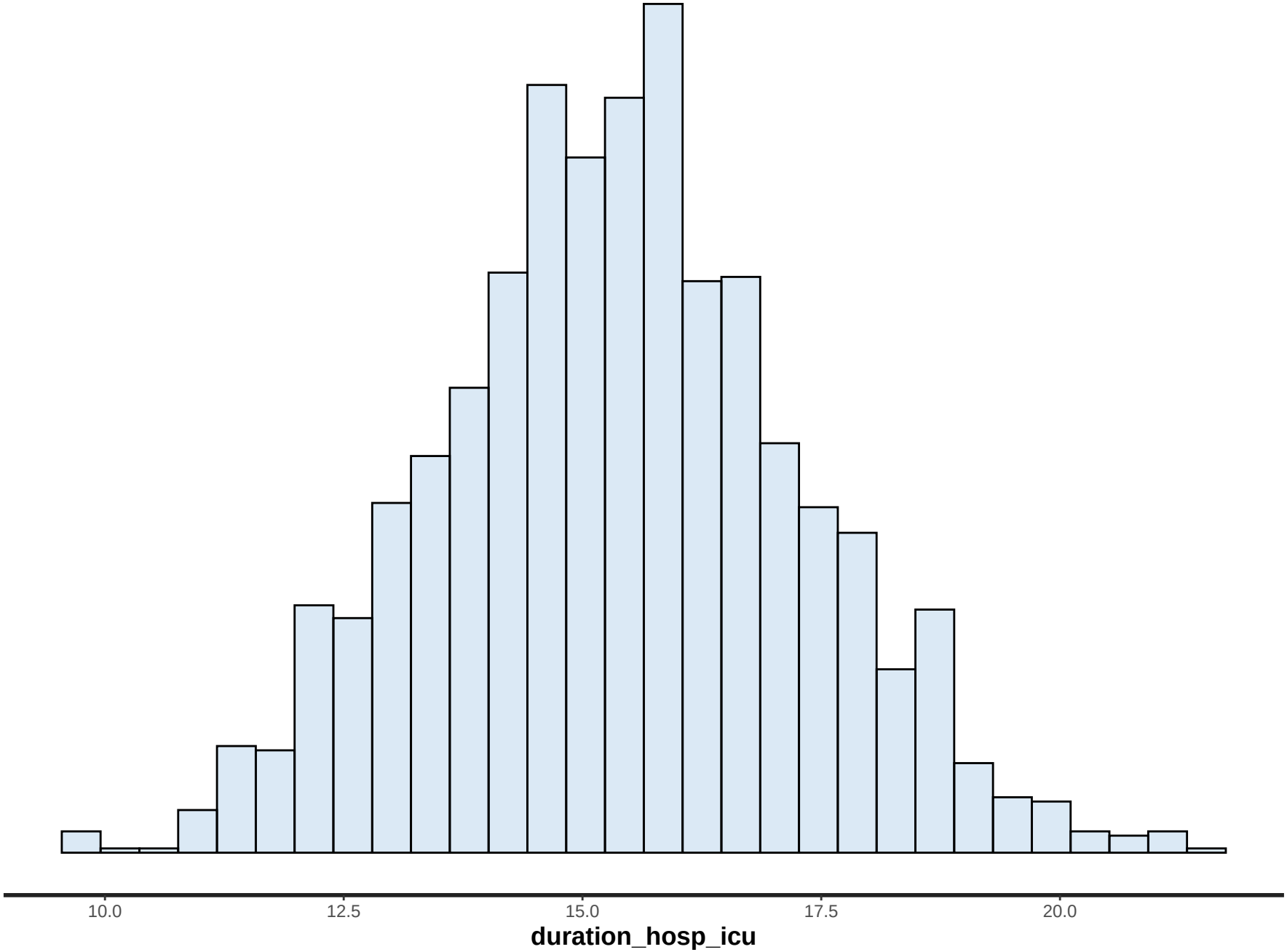

1.5
2.0
2.5
3.0
r0

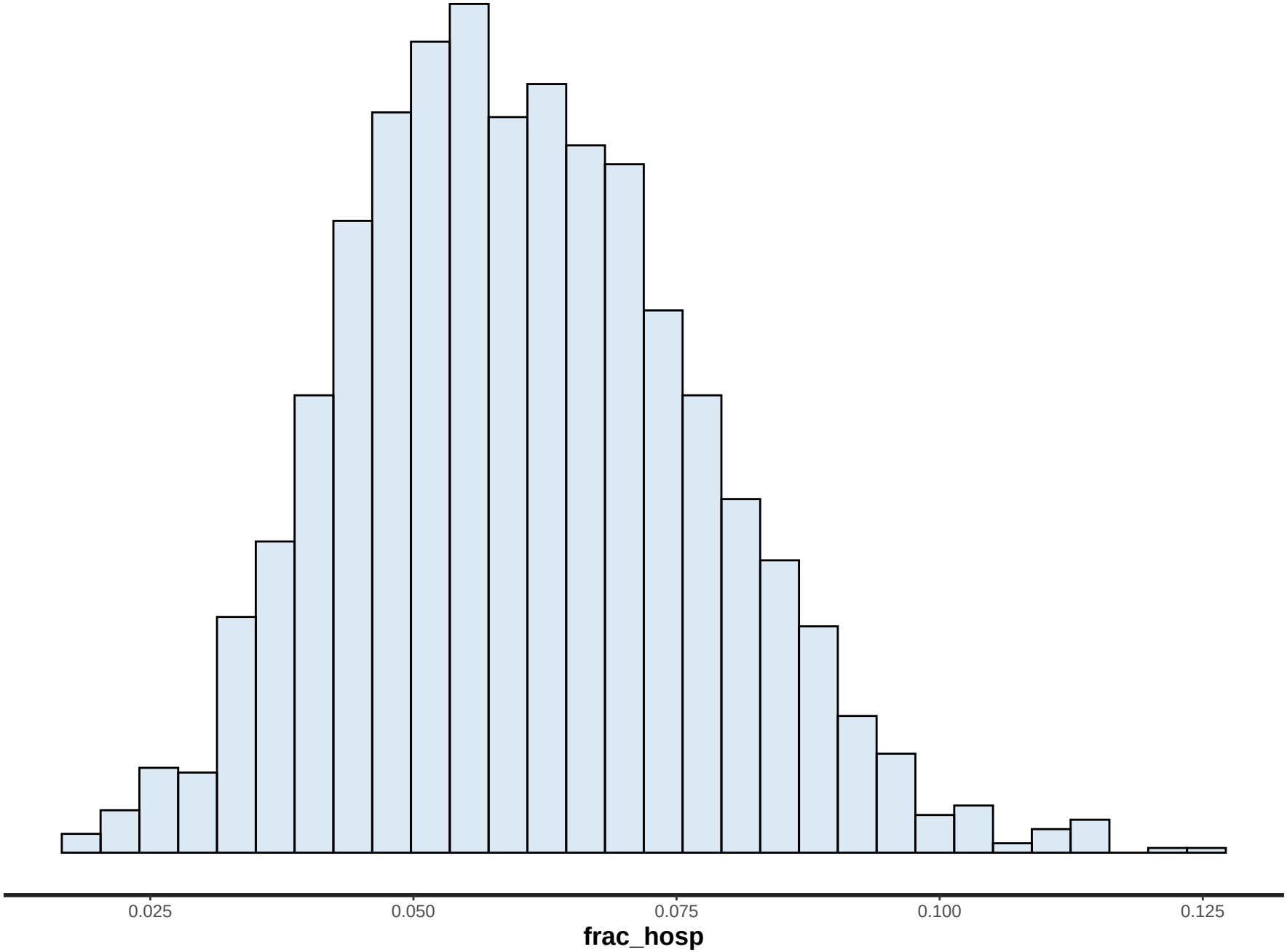

1.00
1.25
1.50
1.75
2.00
2.25
duration_latent

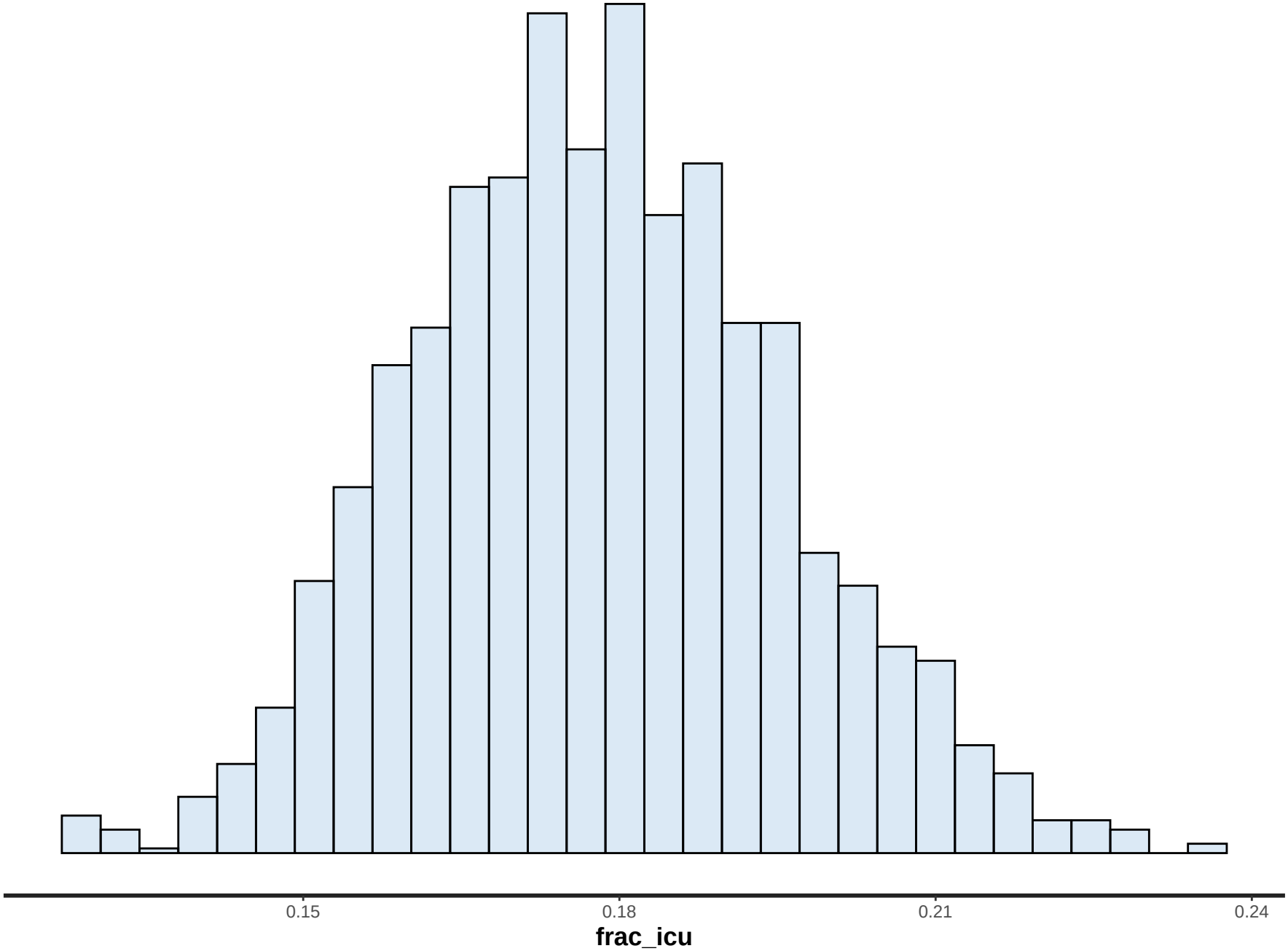

1.0
1.5
2.0
2.5
3.0
duration_rec_mild

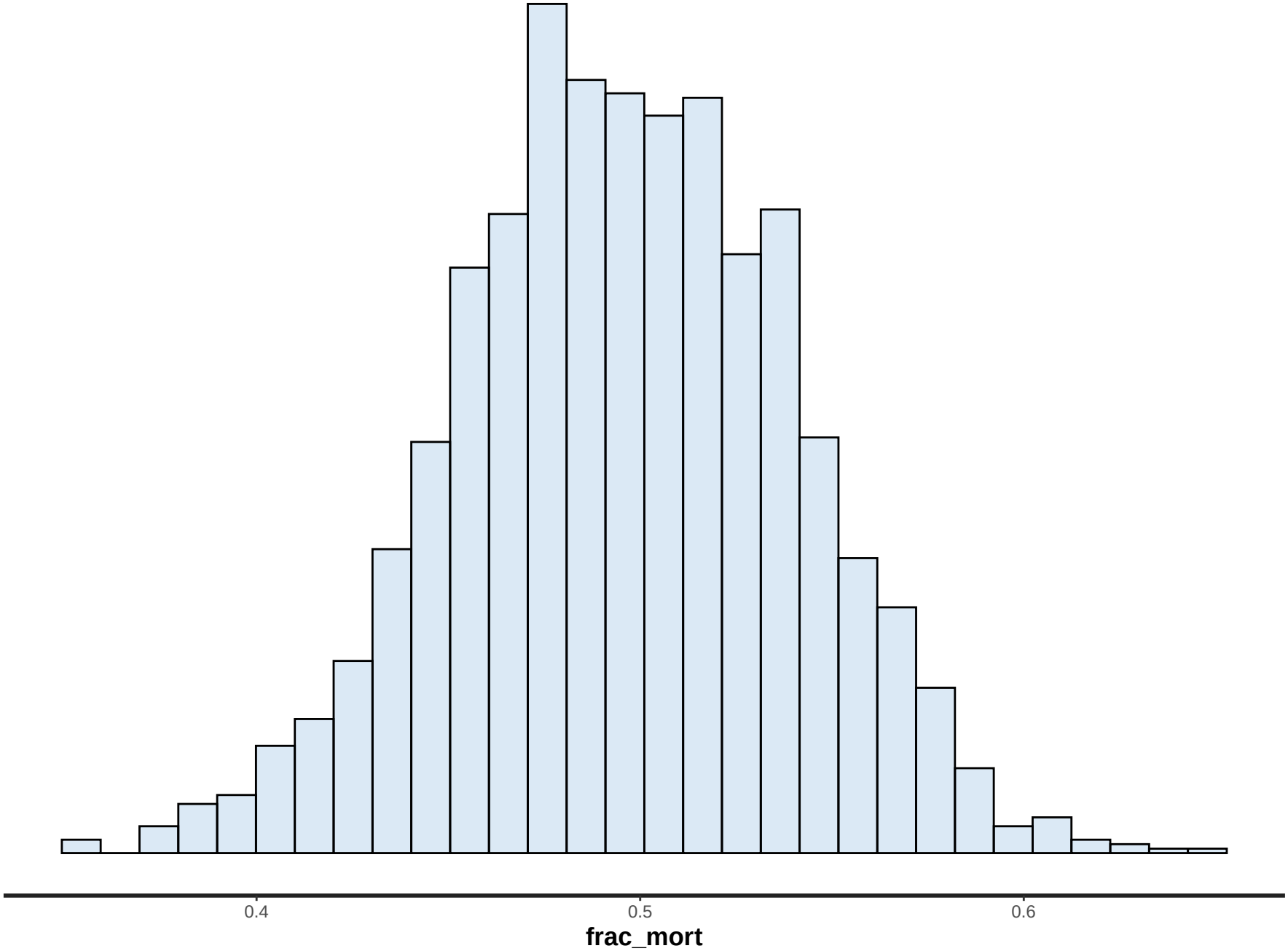

1
2
3
4
5
duration_pre_hosp

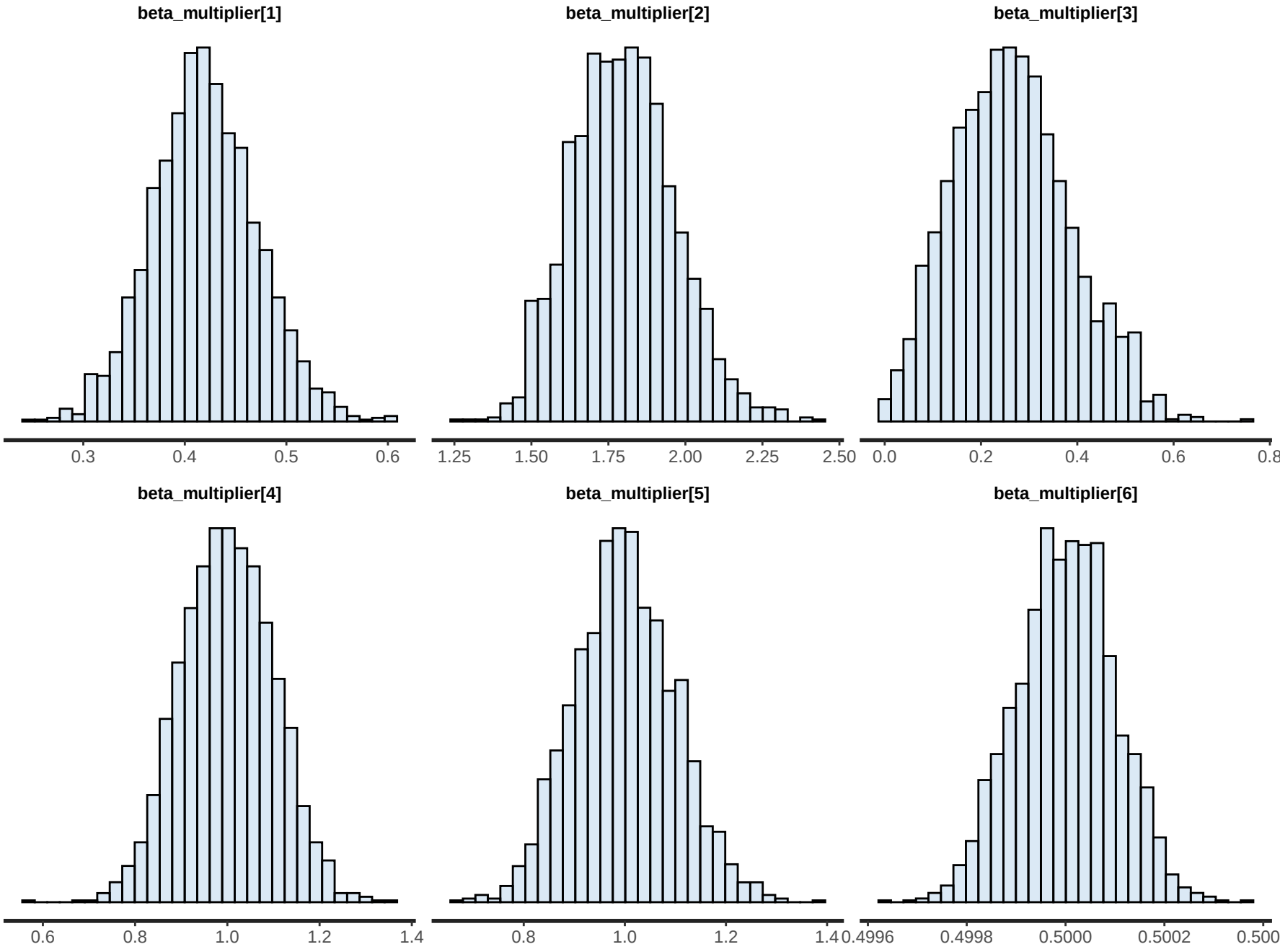

5.0
7.5
10.0
12.5
15.0
duration_hosp_mod

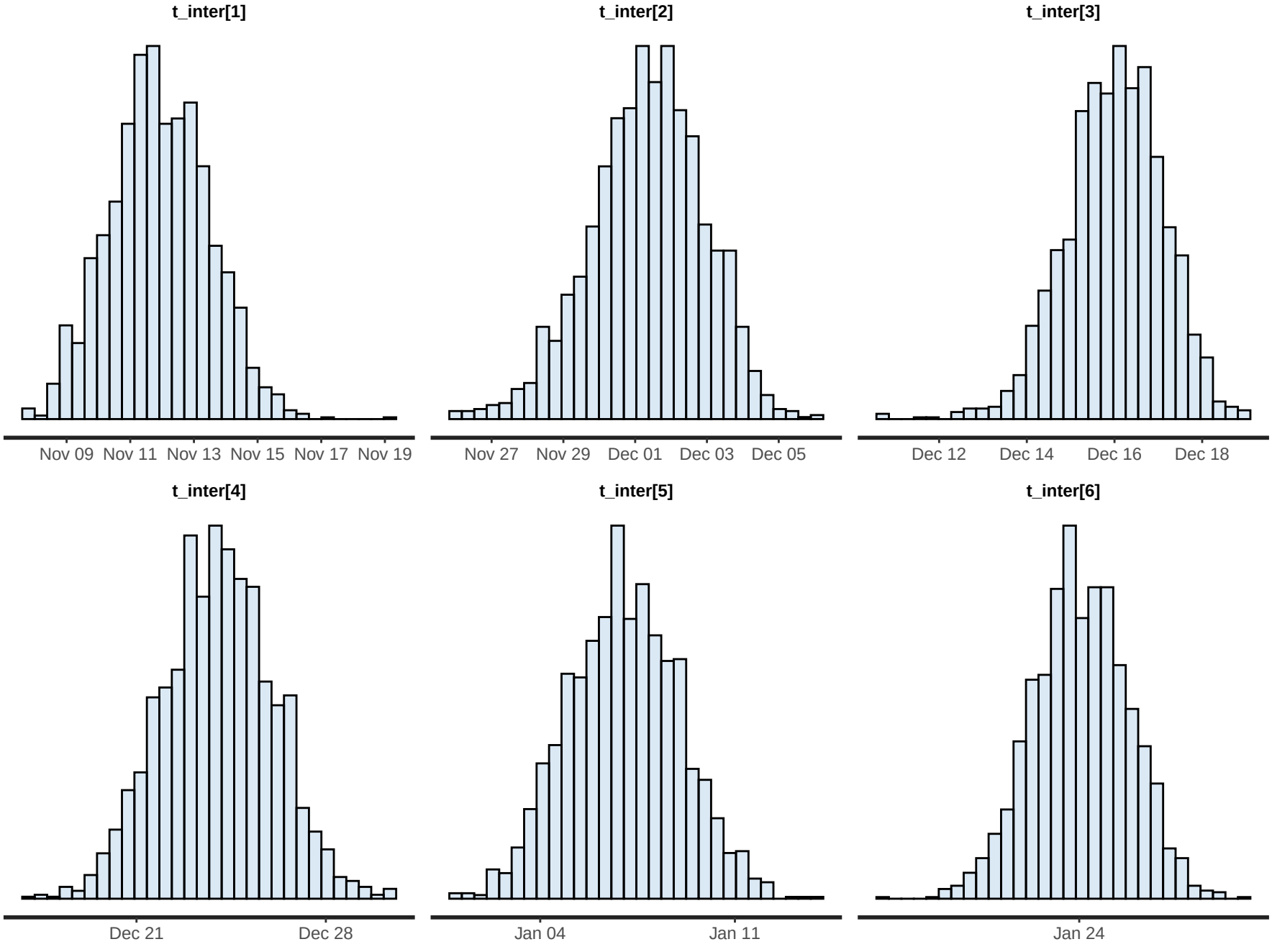

10.0
12.5
15.0
17.5
20.0
duration_hosp_icu

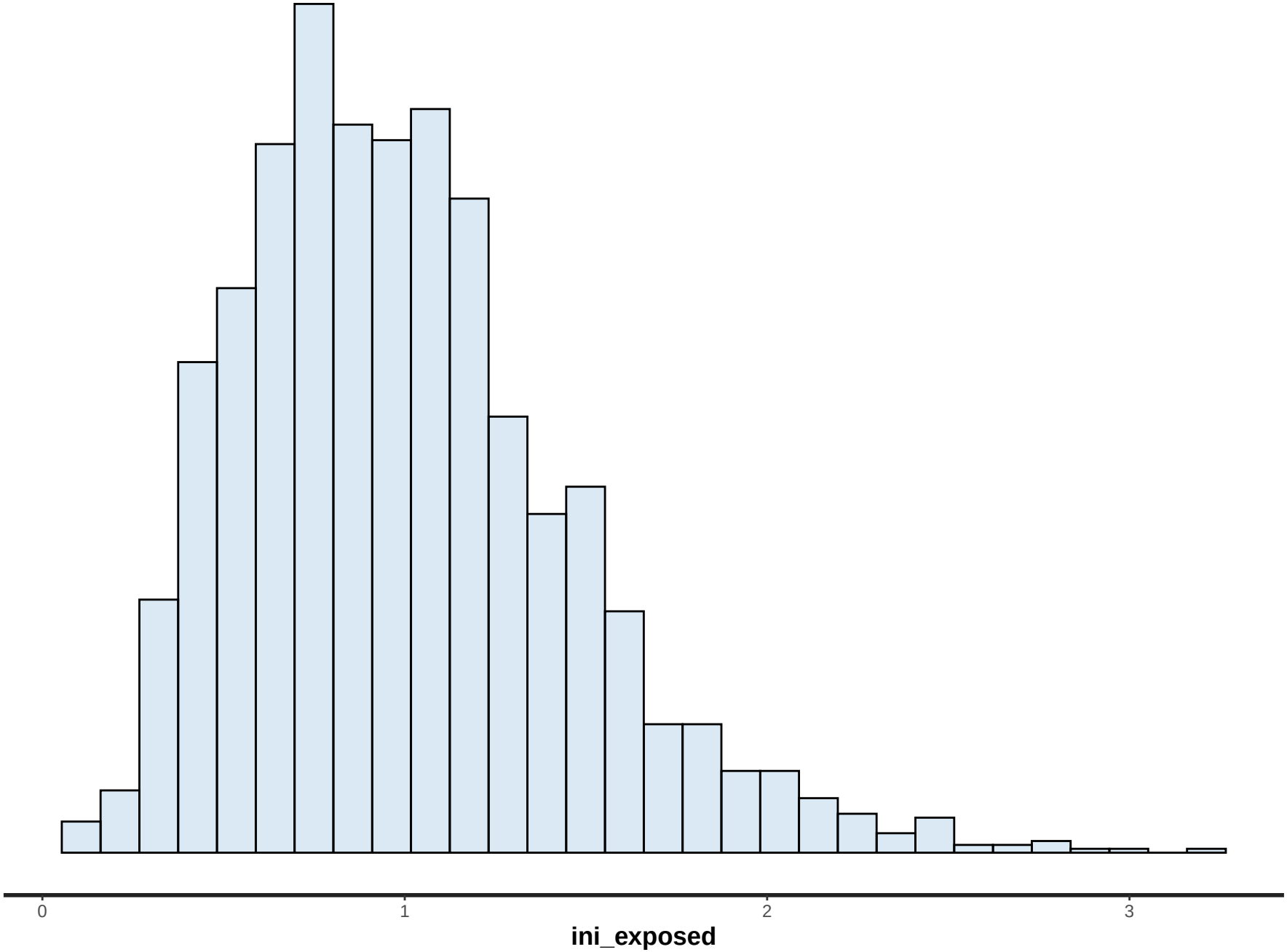

0.025
0.050
0.075
0.100
0.125
frac_hosp

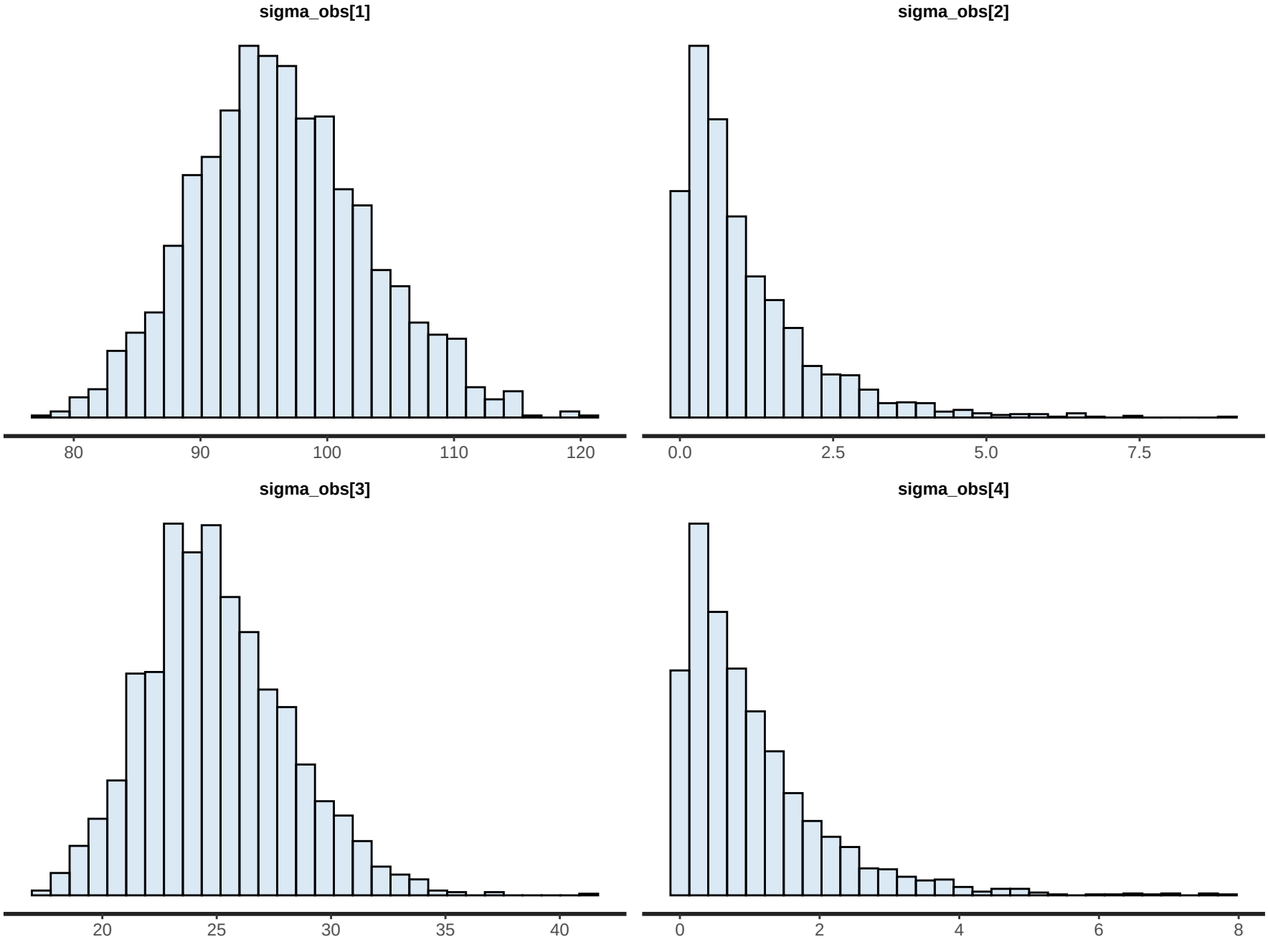

0.15
0.18
0.21
0.24
frac_icu


0.4
0.5
0.6
frac_mort


beta_multiplier[1]
0.3
0.4
0.5
0.6
beta_multiplier[2]
1.25
1.50
1.75
2.00
2.25
2.50
beta_multiplier[3]
0.0
0.2
0.4
0.6
0.8
beta_multiplier[4]
0.6
0.8
1.0
1.2
1.4
beta_multiplier[5]
0.8
1.0
1.2
1.4
beta_multiplier[6]
0.4996
0.4998
0.5000
0.5002
0.500


t_inter[1]
Nov 09
Nov 11
Nov 13
Nov 15
Nov 17
Nov 19
t_inter[2]
Nov 27
Nov 29
Dec 01
Dec 03
Dec 05
t_inter[3]
Dec 12
Dec 14
Dec 16
Dec 18
t_inter[4]
Dec 21
Dec 28
t_inter[5]
Jan 04
Jan 11
t_inter[6]
Jan 24


0
1
2
3
ini_exposed


sigma_obs[1]
80
90
100
110
120
sigma_obs[2]
0.0
2.5
5.0
7.5
sigma_obs[3]
20
25
30
35
40
sigma_obs[4]
0
2
4
6
8