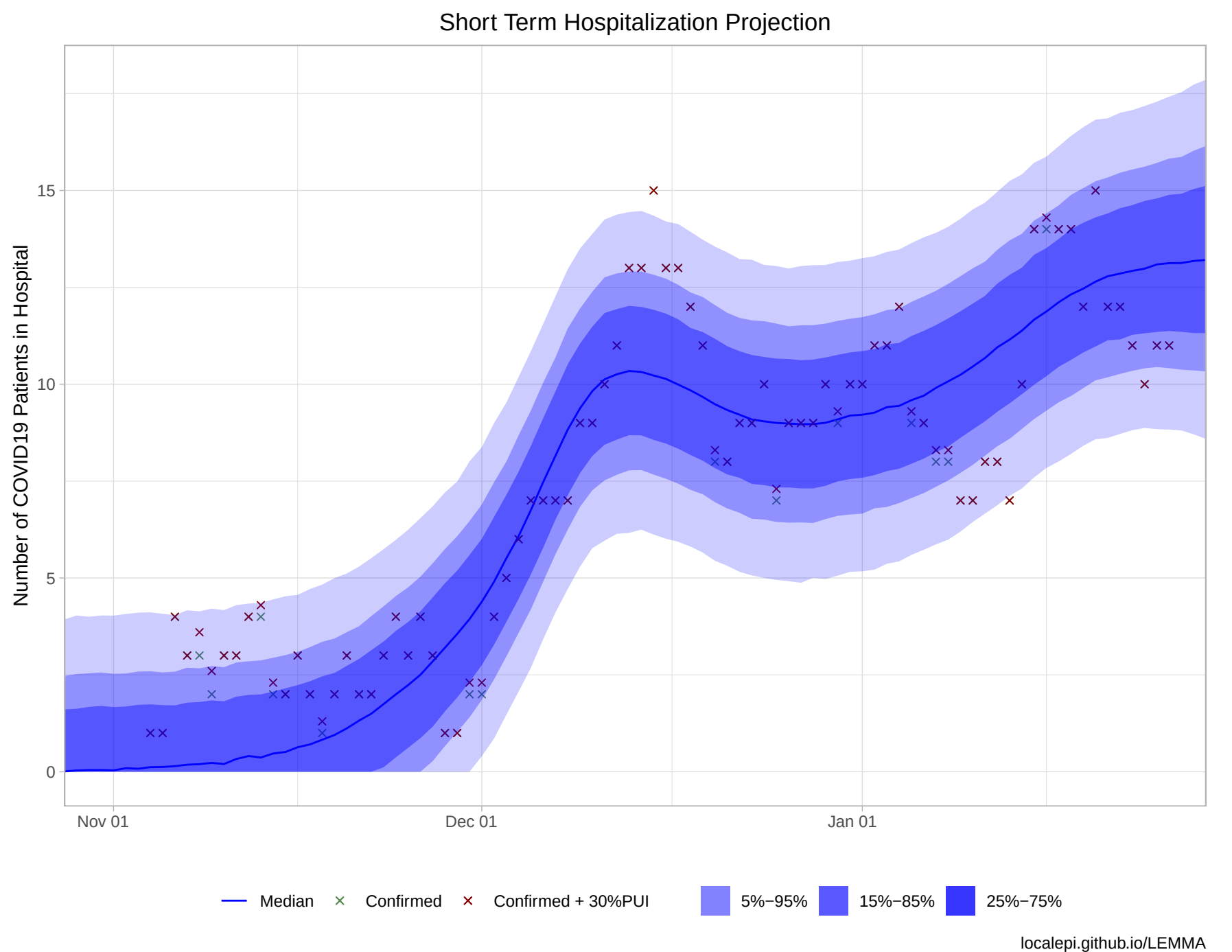
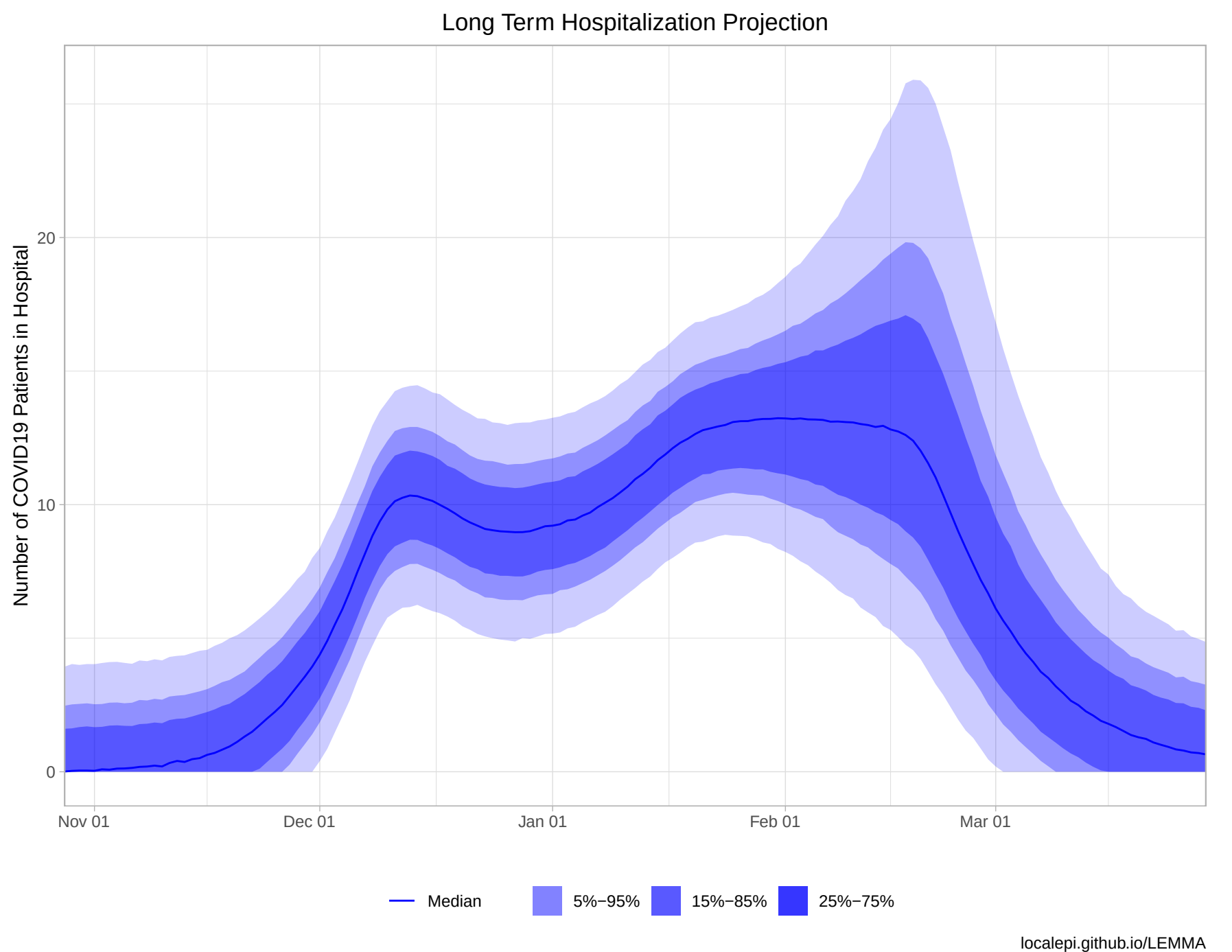
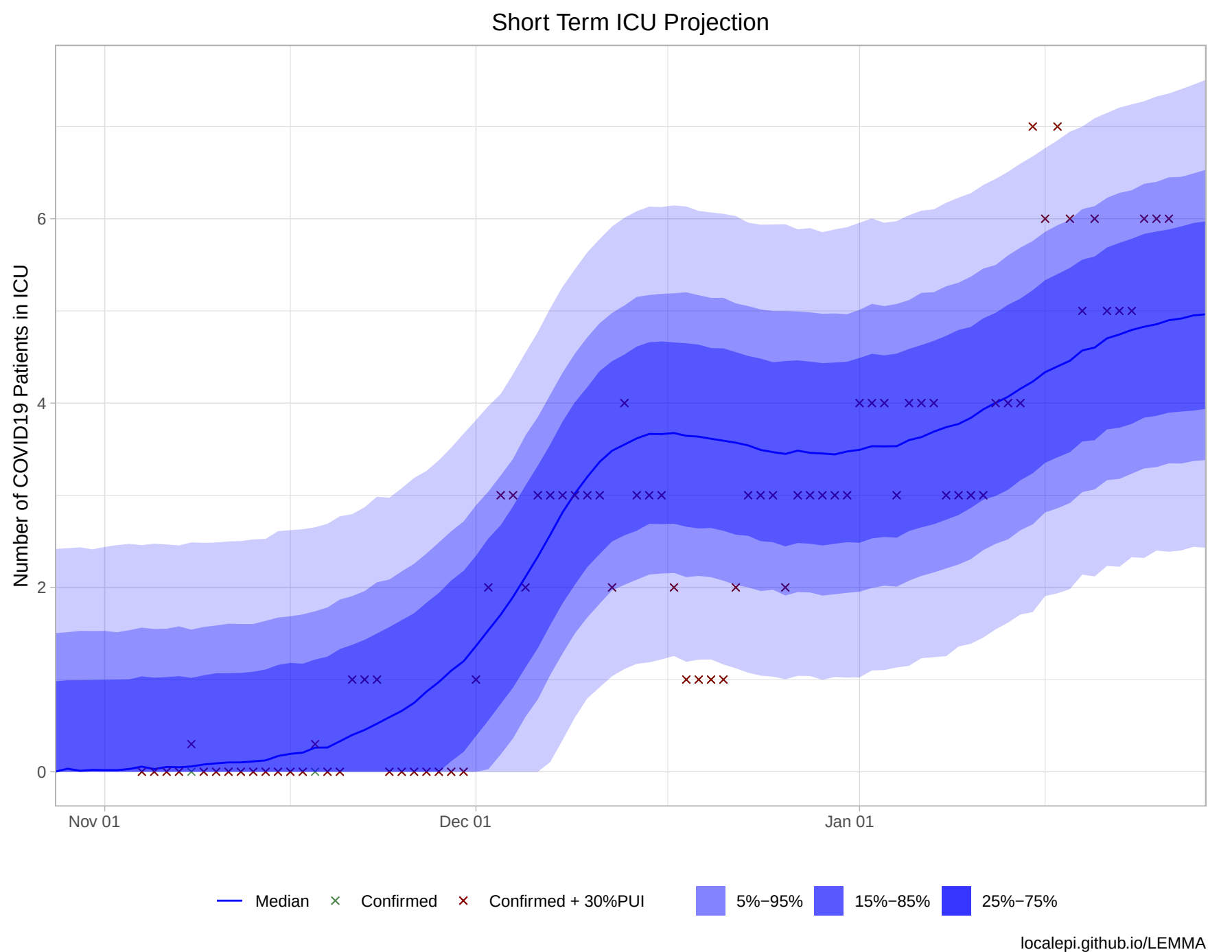
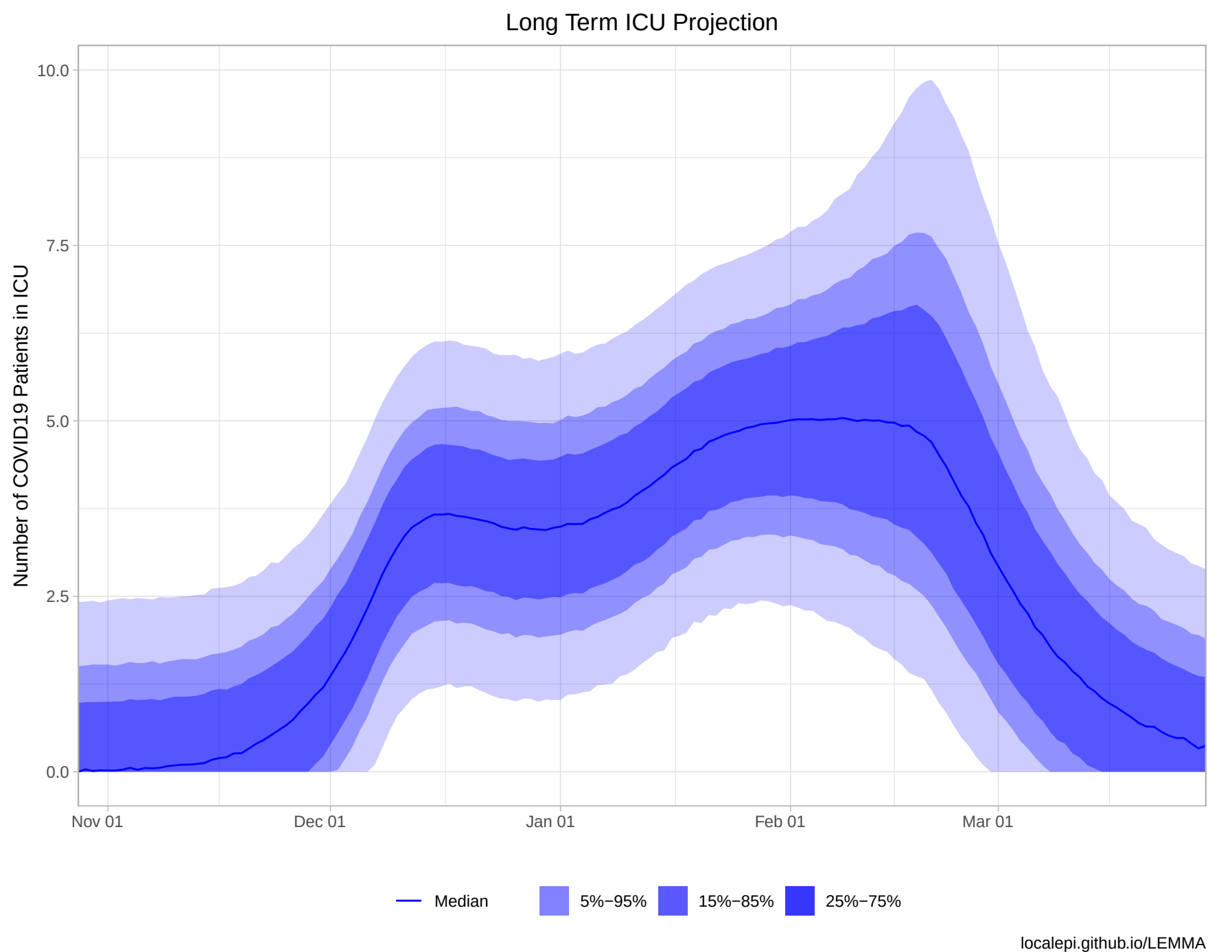
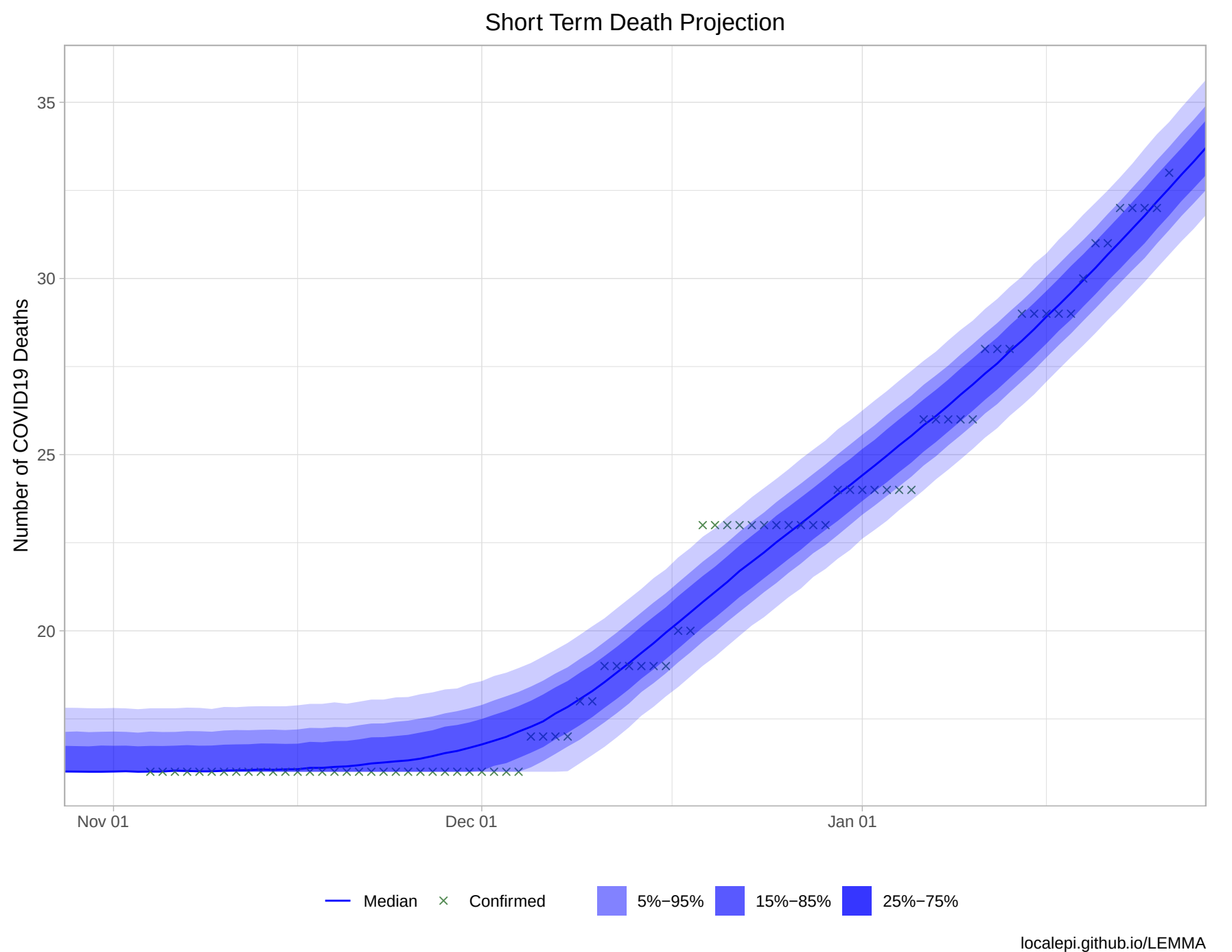
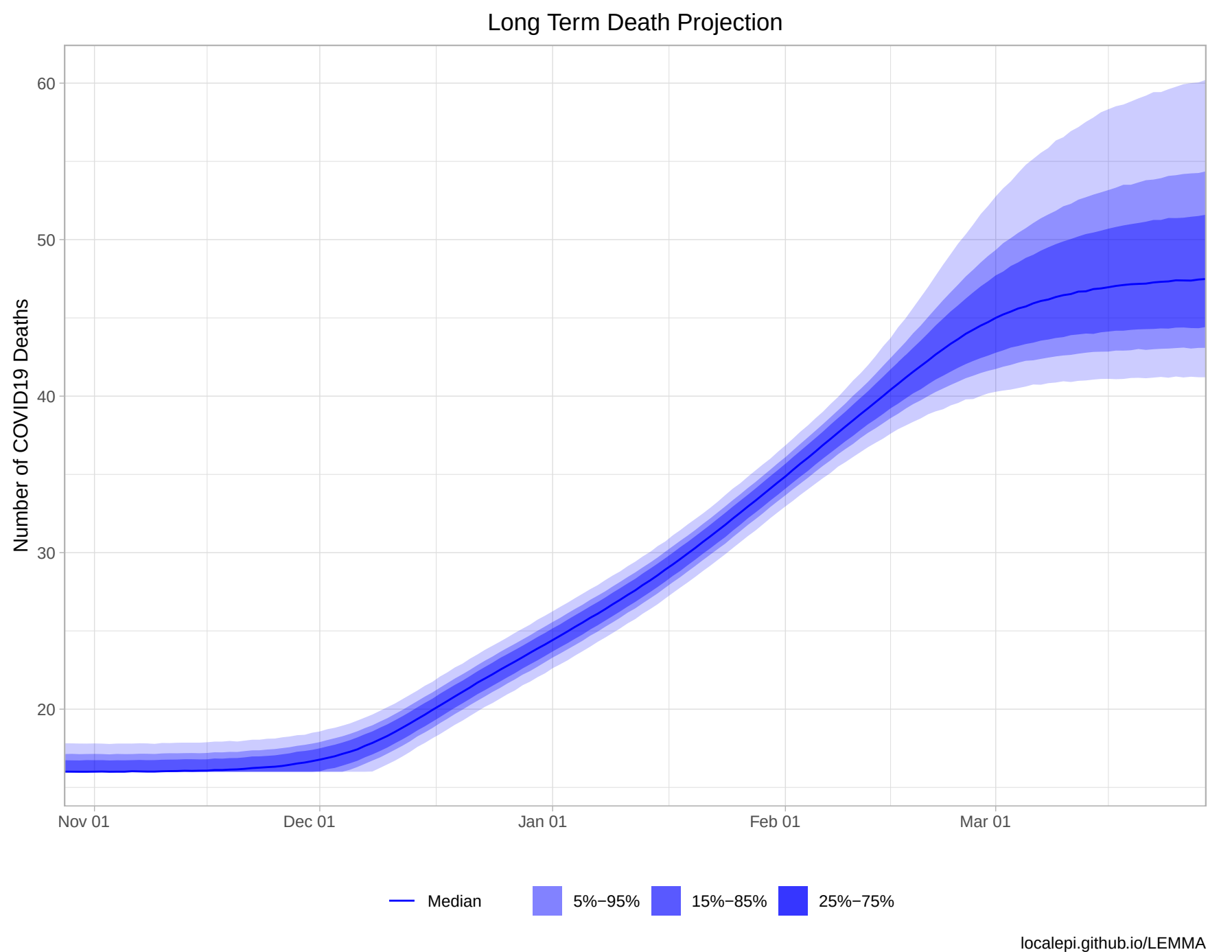

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
5
10
15
Nov 01
Dec 01
Jan 01
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

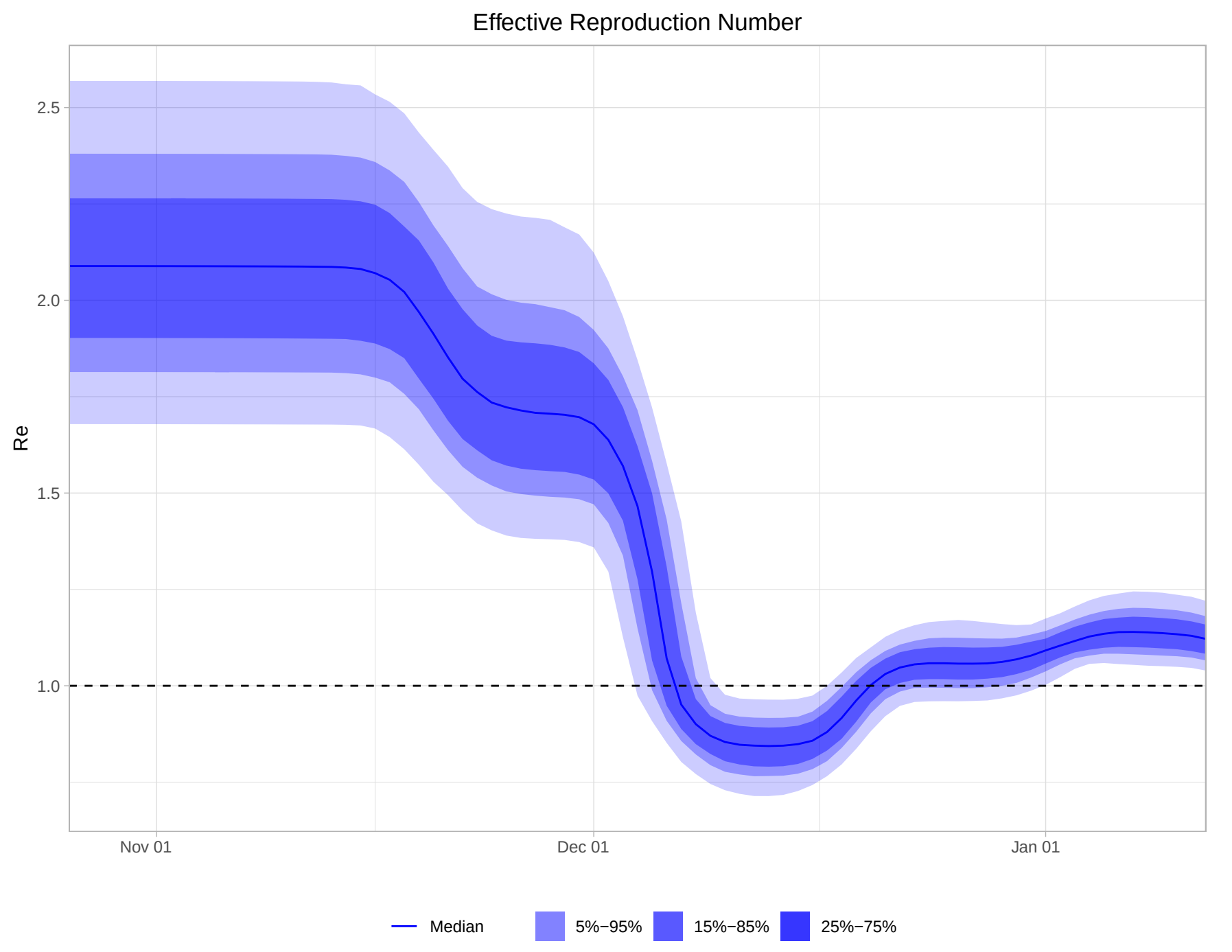

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
20
10
0
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


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
10.0
7.5
5.0
2.5
0.0
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

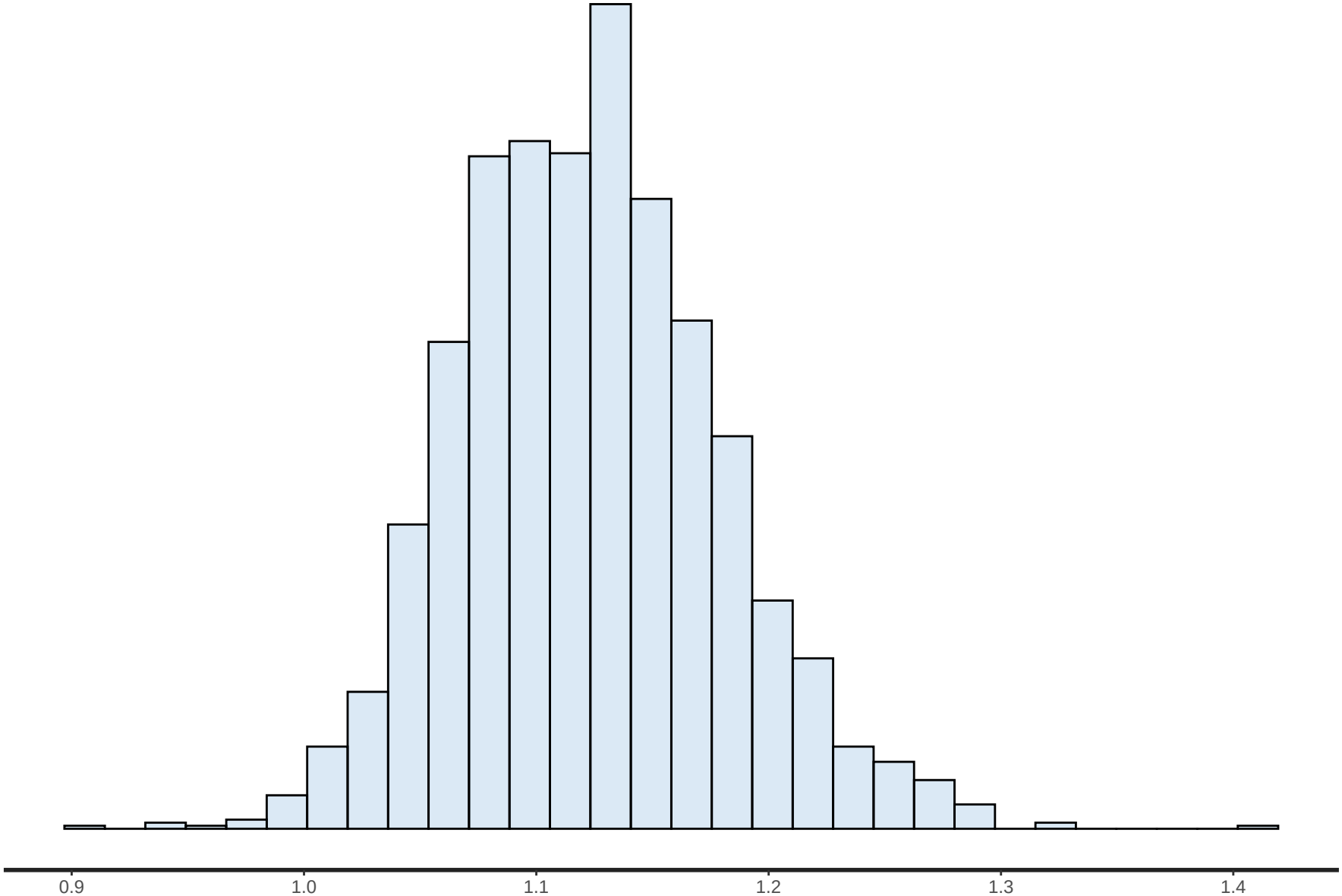

Short Term Death Projection
Number of COVID19 Deaths
35
30
25
20
Nov 01
Dec 01
Jan 01
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

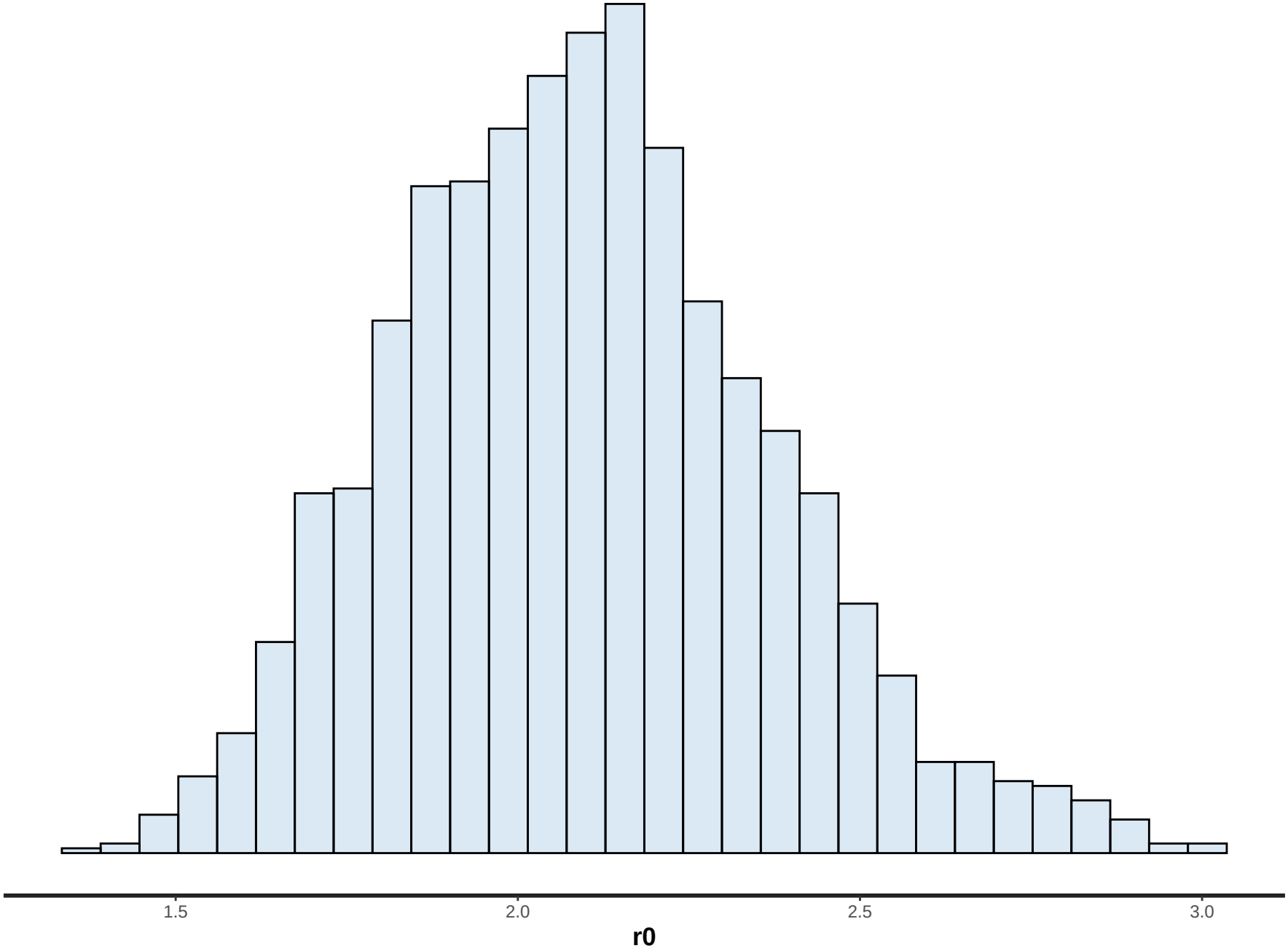

Long Term Death Projection
Number of COVID19 Deaths
60
50
40
30
20
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

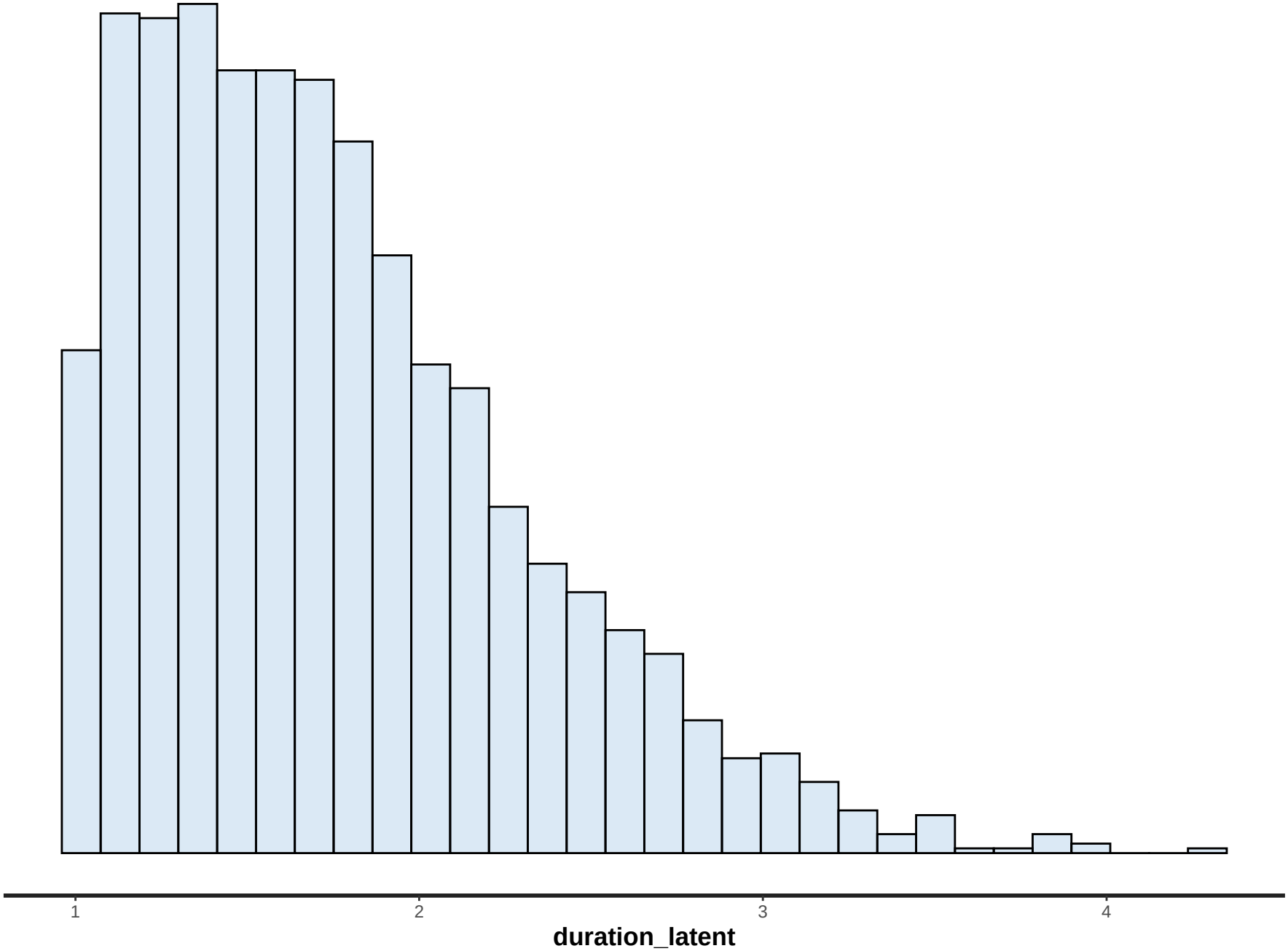

Effective Reproduction Number
Re
2.5
2.0
1.5
1.0
Nov 01
Dec 01
Jan 01
Median
5%−95%
15%−85%
25%−75%

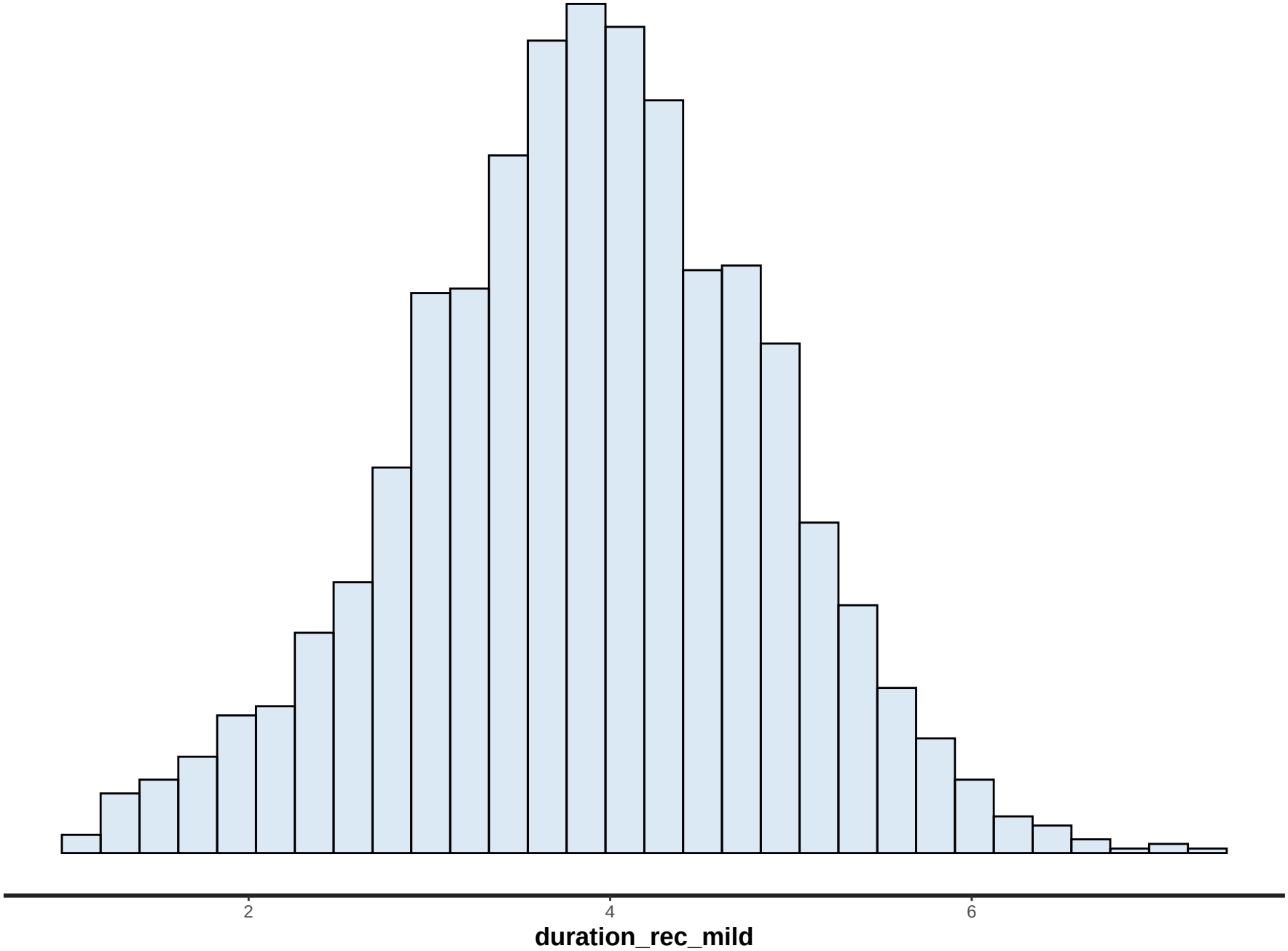
Rt as of 2021−01−12

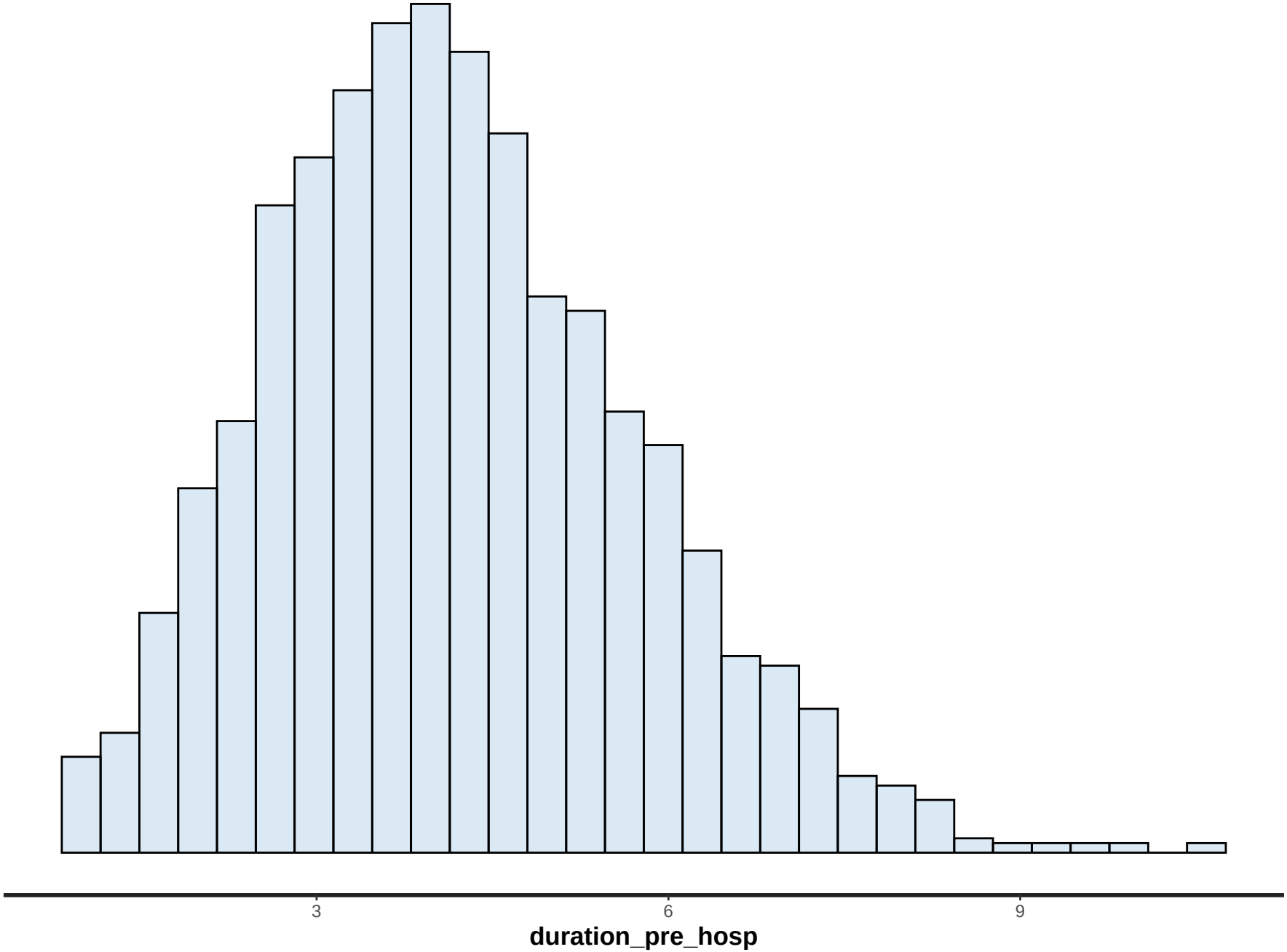
5%	10%	25%	50%	75%	90%	95%
1.04	1.06	1.08	1.12	1.16	1.19	1.22

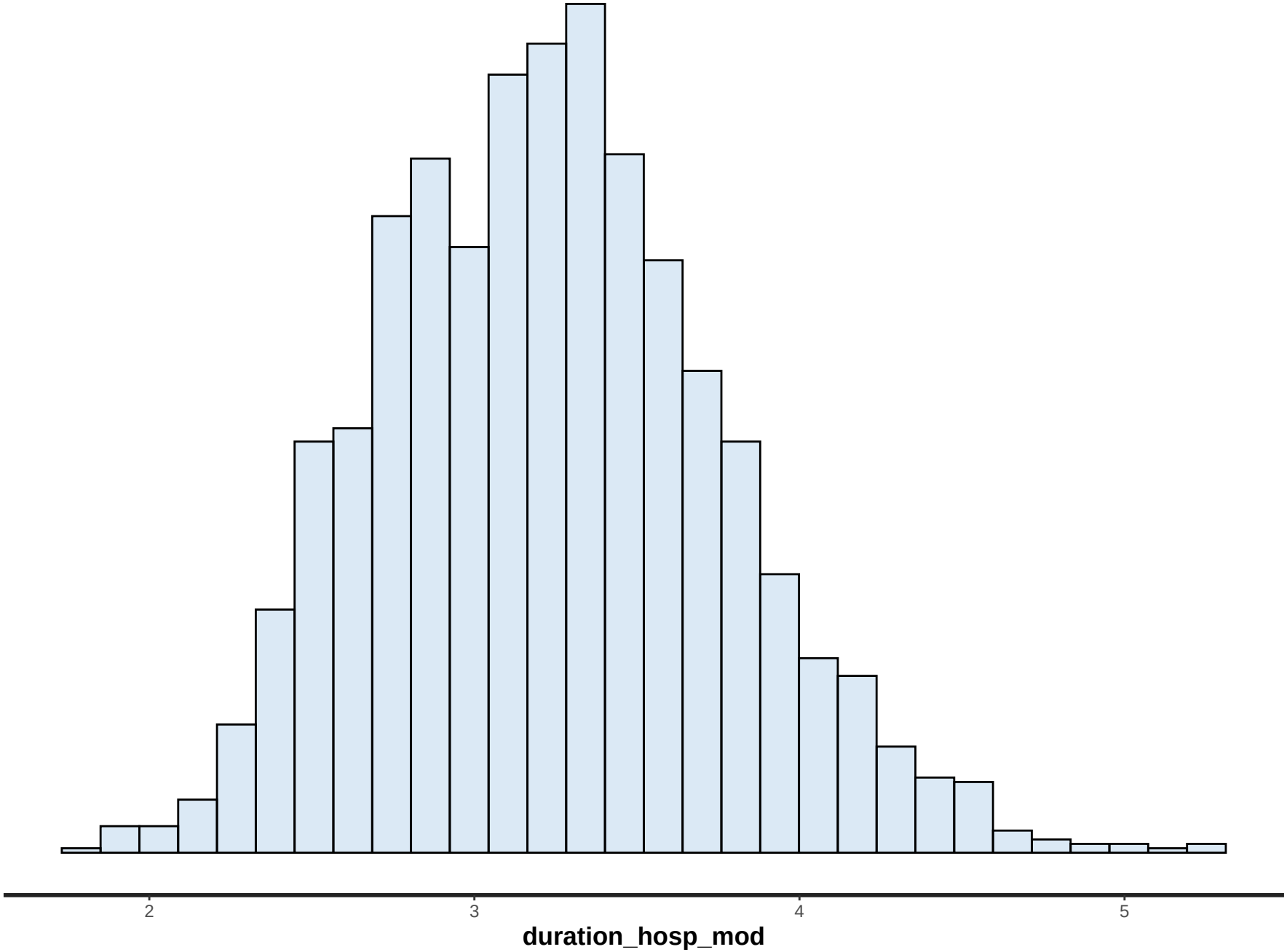


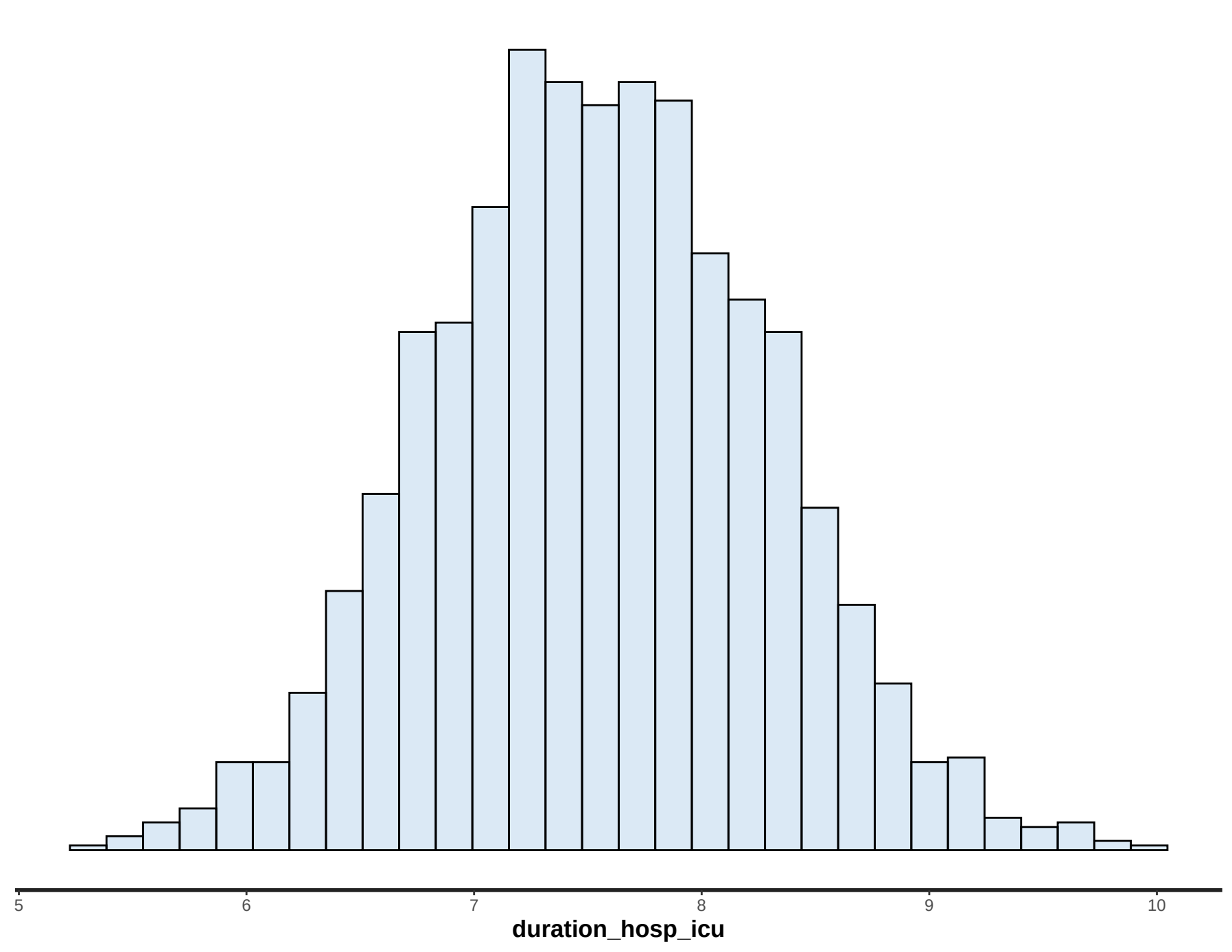

1.5
2.0
2.5
3.0
r0

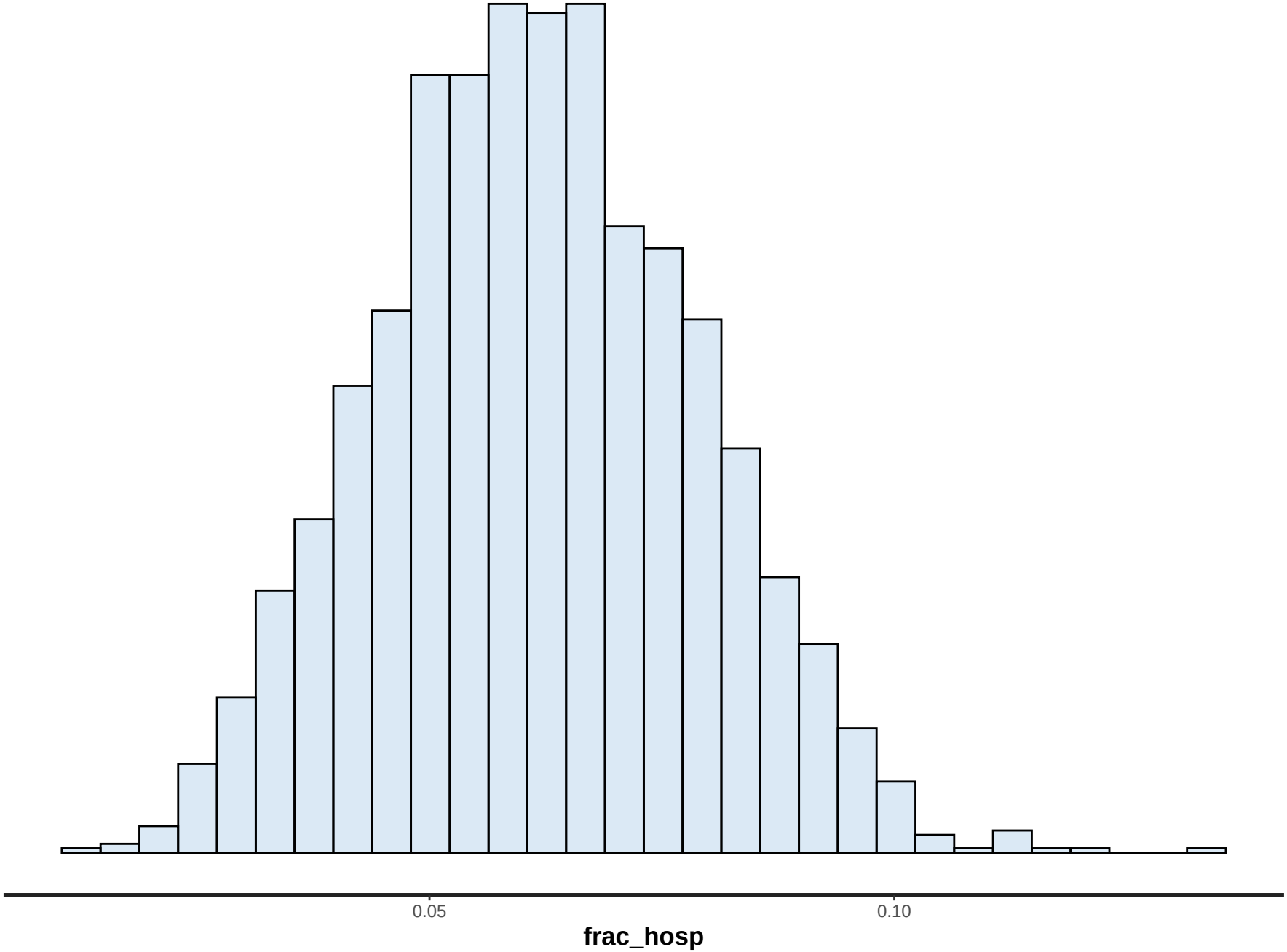

1
2
3
4
duration_latent

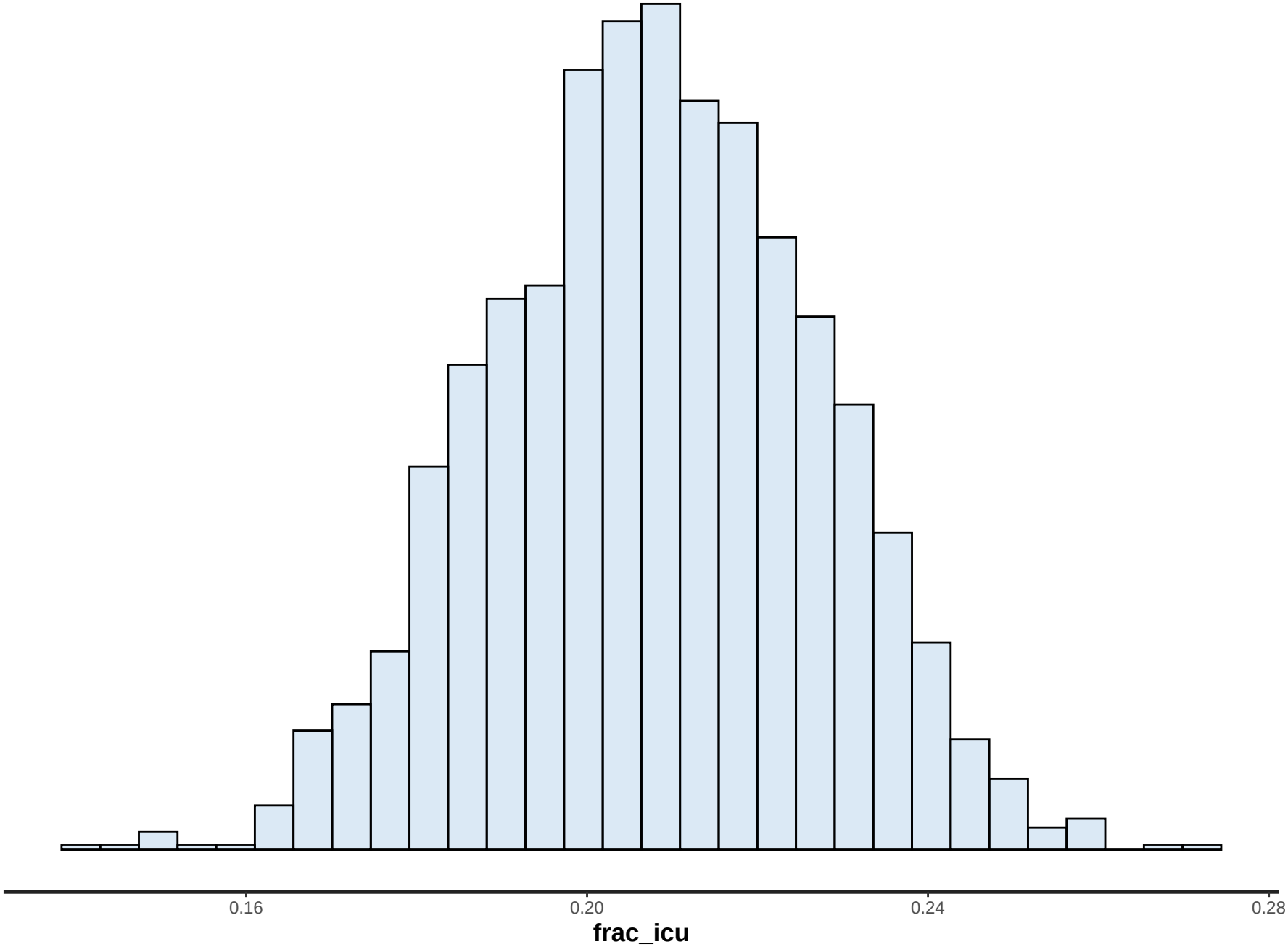

2
4
6
duration_rec_mild

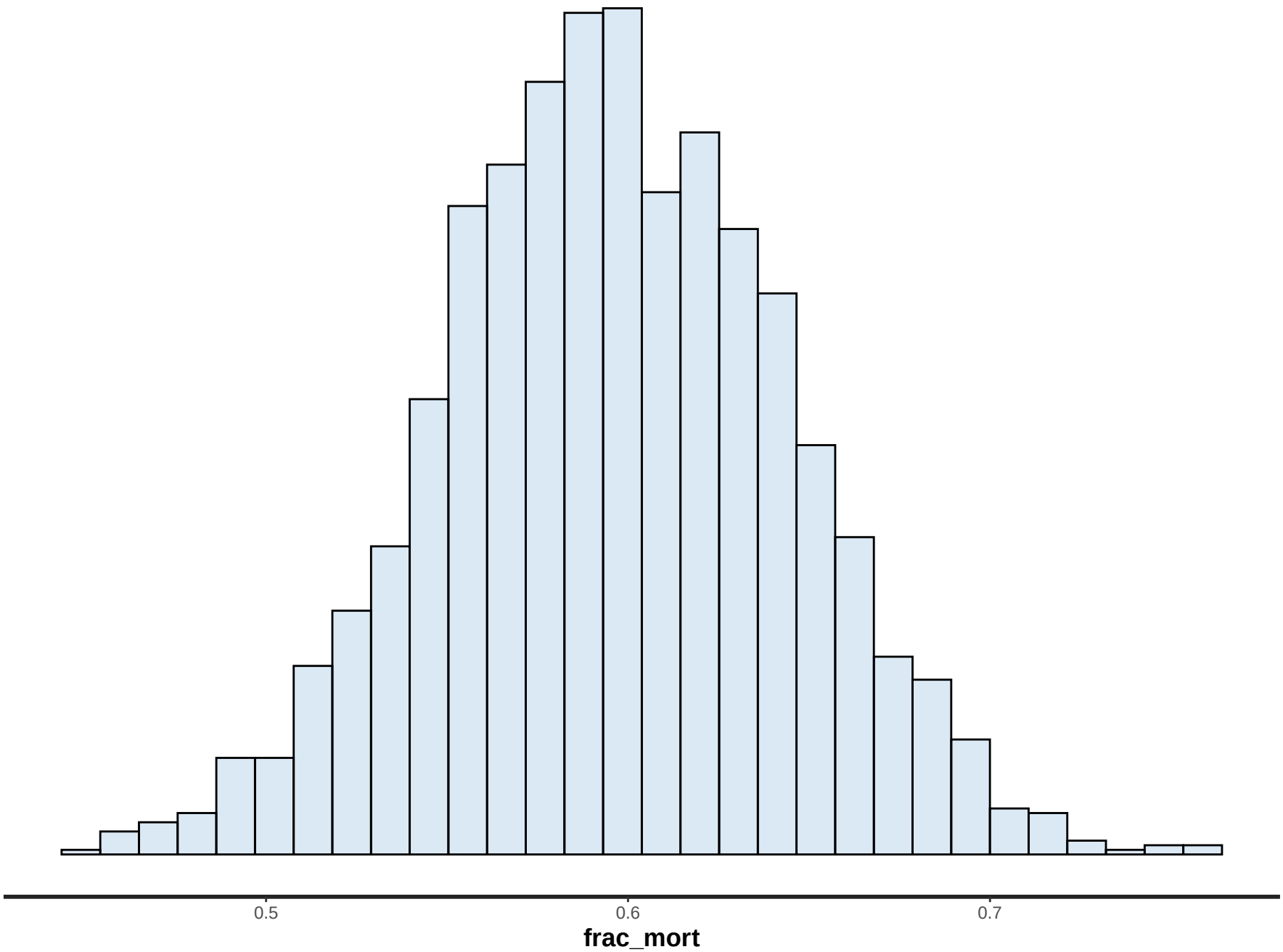

3
6
9
duration_pre_hosp

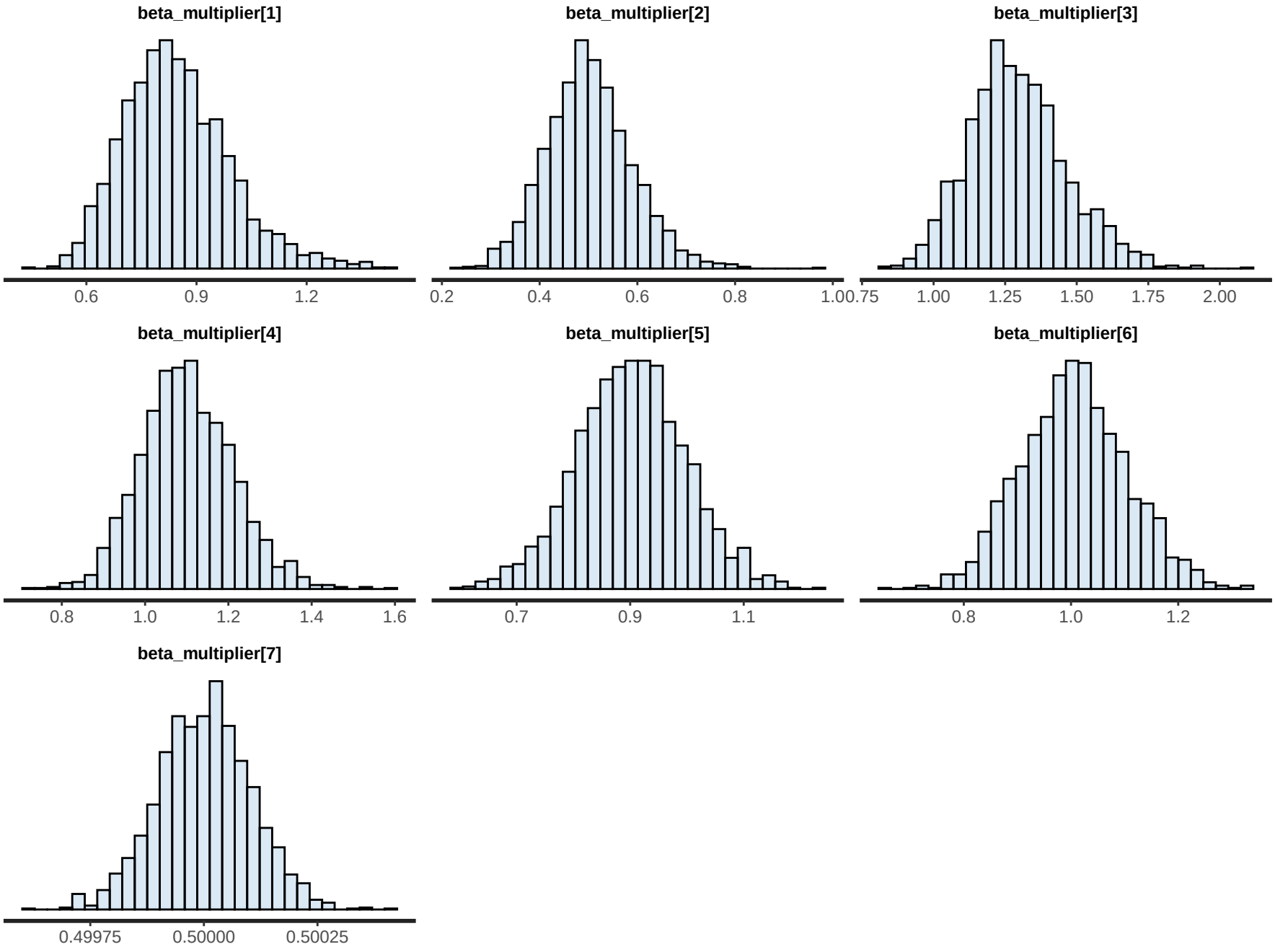

2
3
4
5
duration_hosp_mod

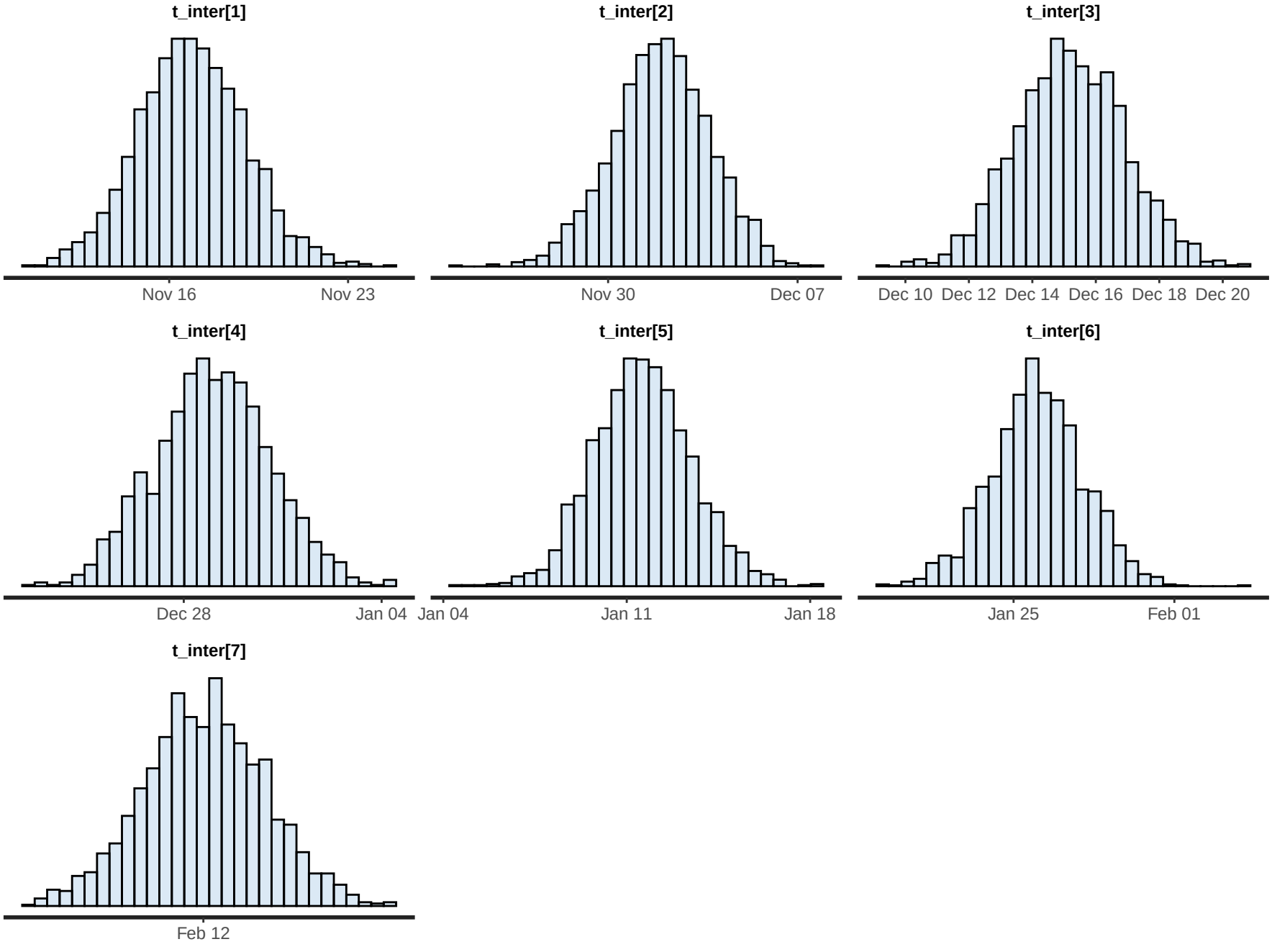

5
6
7
8
9
10
duration_hosp_icu

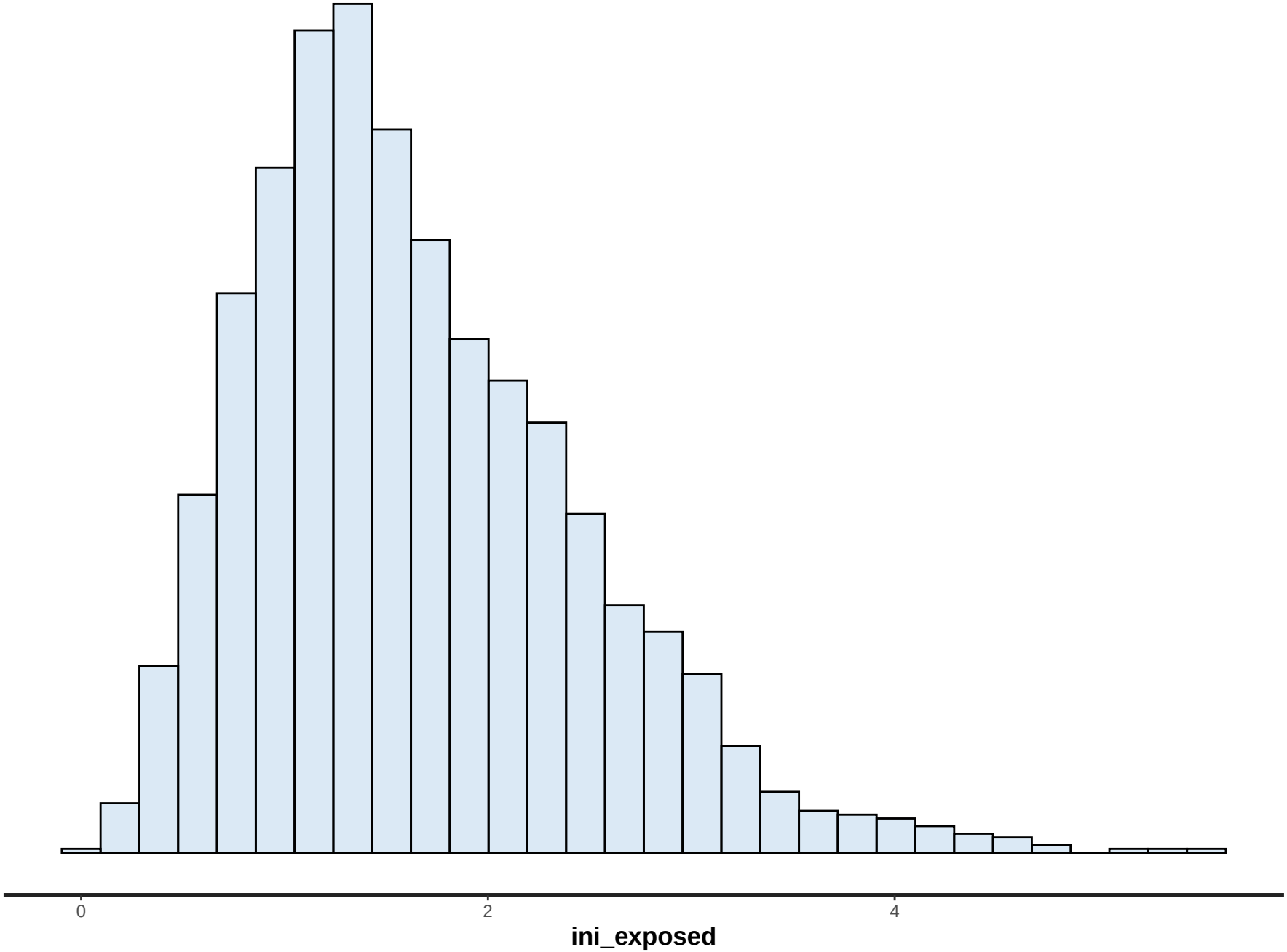

0.05
0.10
frac_hosp

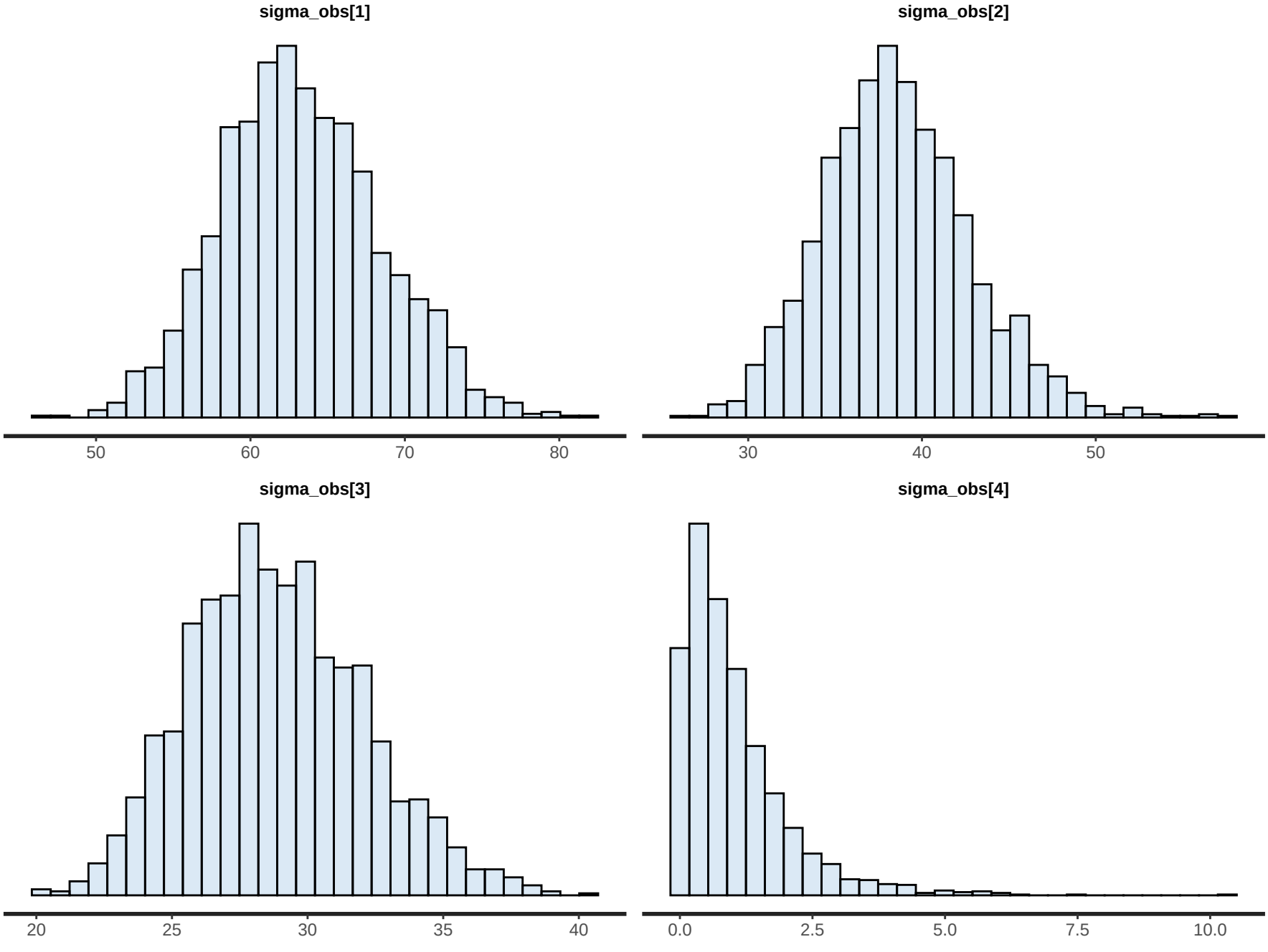

0.16
0.20
0.24
0.28
frac_icu


0.5
0.6
0.7
frac_mort


beta_multiplier[1]
0.6
0.9
1.2
beta_multiplier[2]
0.2
0.4
0.6
0.8
1.0
beta_multiplier[3]
0.75
1.00
1.25
1.50
1.75
2.00
beta_multiplier[4]
0.8
1.0
1.2
1.4
1.6
beta_multiplier[5]
0.7
0.9
1.1
beta_multiplier[6]
0.8
1.0
1.2
beta_multiplier[7]
0.49975
0.50000
0.50025


t_inter[1]
Nov 16
Nov 23
t_inter[2]
Nov 30
Dec 07
t_inter[3]
Dec 10
Dec 12
Dec 14
Dec 16
Dec 18
Dec 20
t_inter[4]
Dec 28
Jan 04
t_inter[5]
Jan 04
Jan 11
Jan 18
t_inter[6]
Jan 25
Feb 01
t_inter[7]
Feb 12


0
2
4
ini_exposed


sigma_obs[1]
50
60
70
80
sigma_obs[2]
30
40
50
sigma_obs[3]
20
25
30
35
40
sigma_obs[4]
0.0
2.5
5.0
7.5
10.0