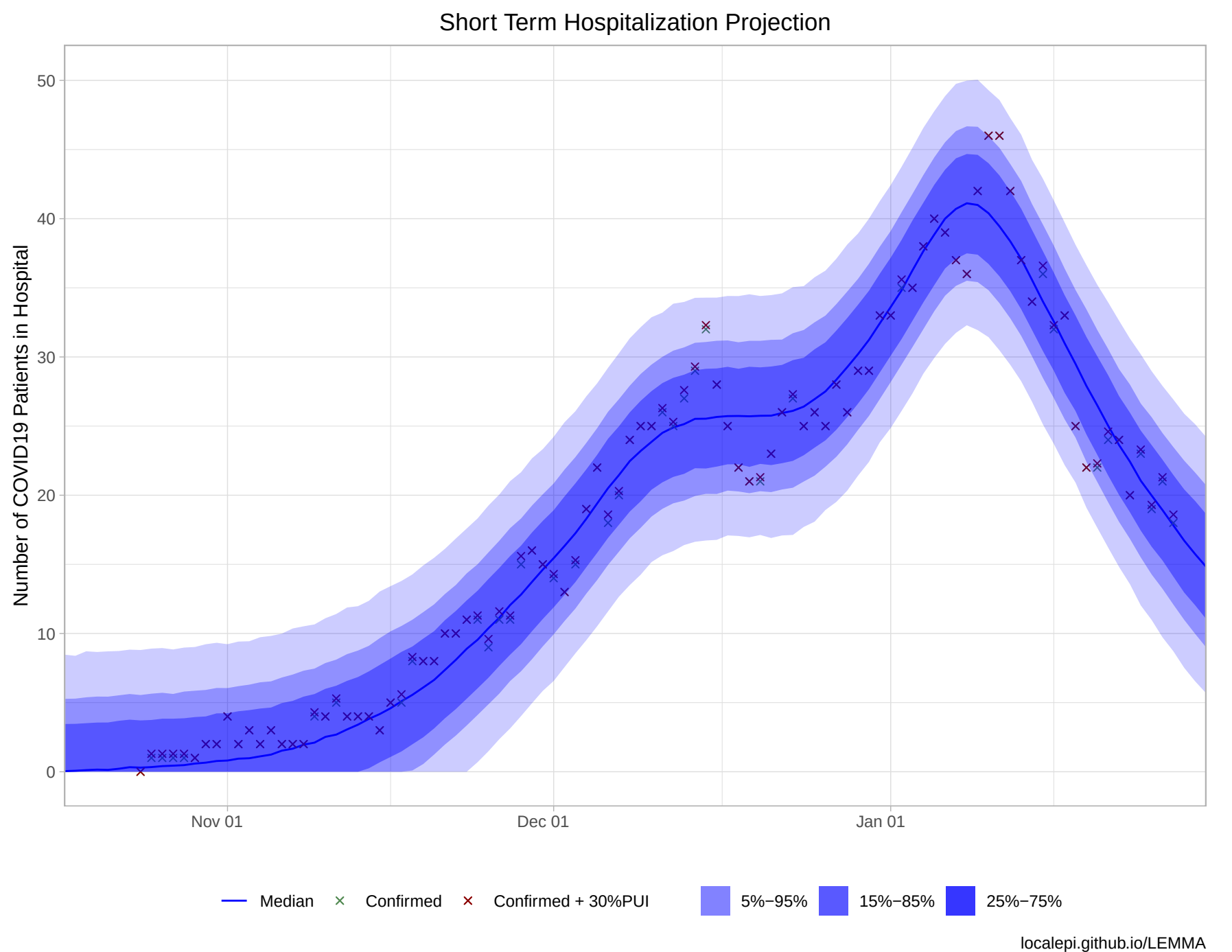
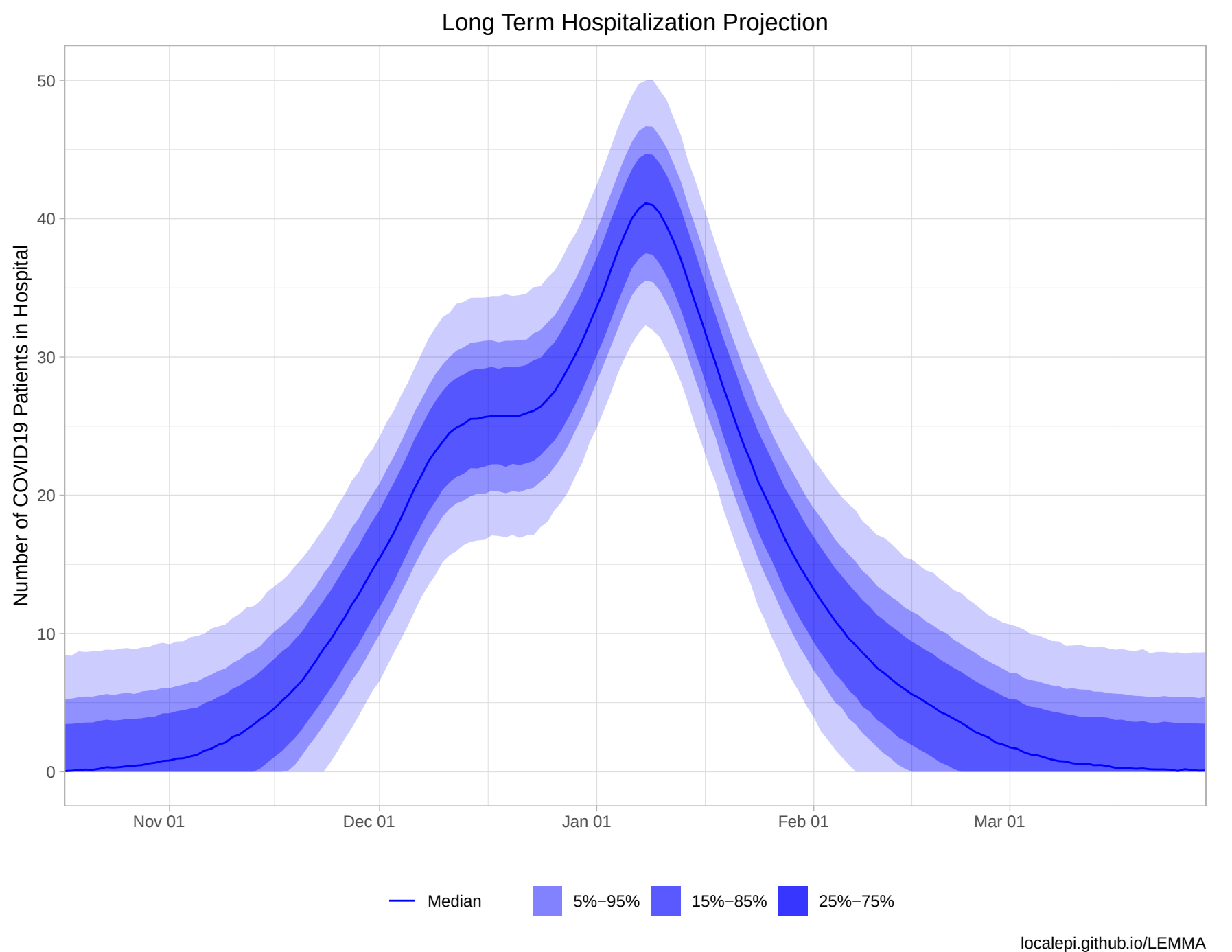
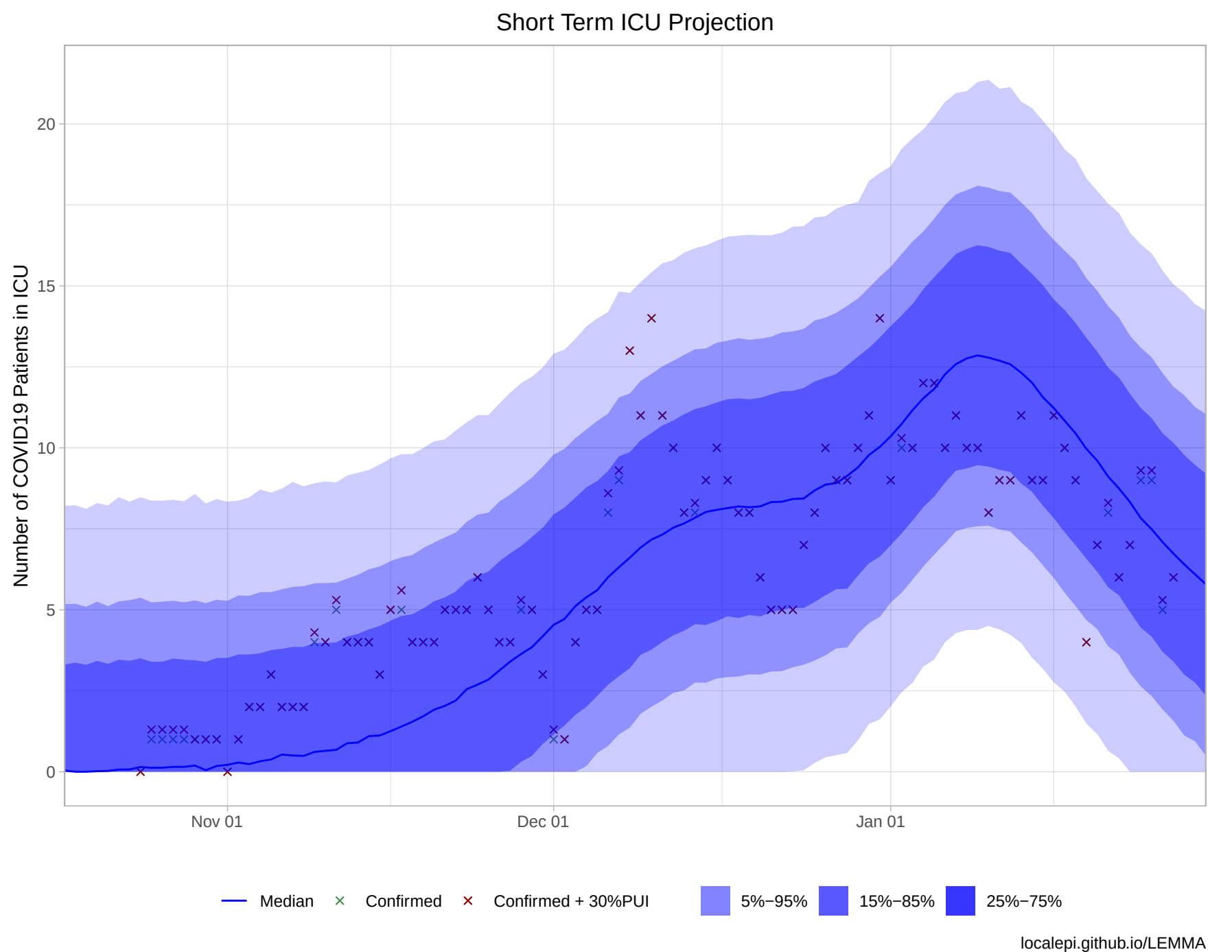
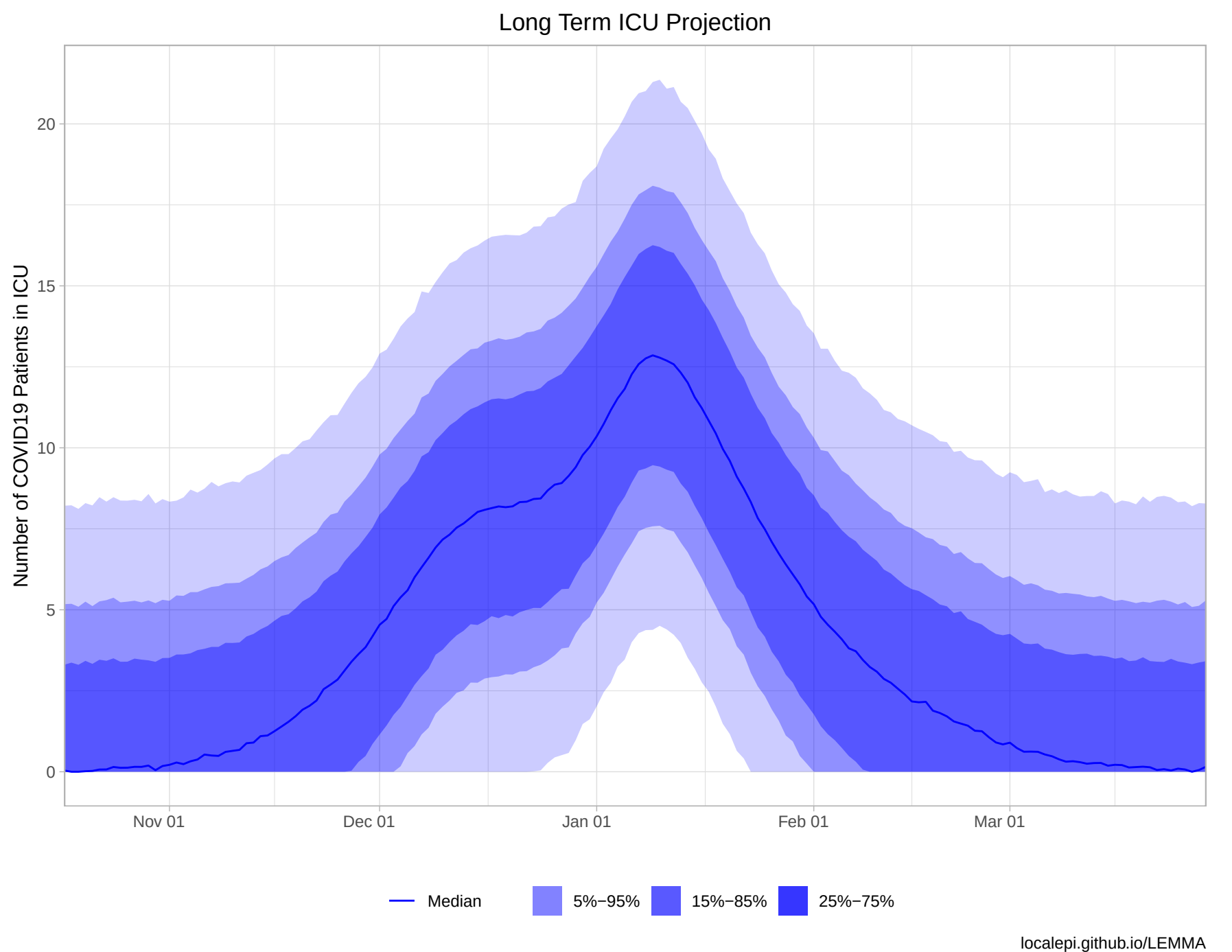
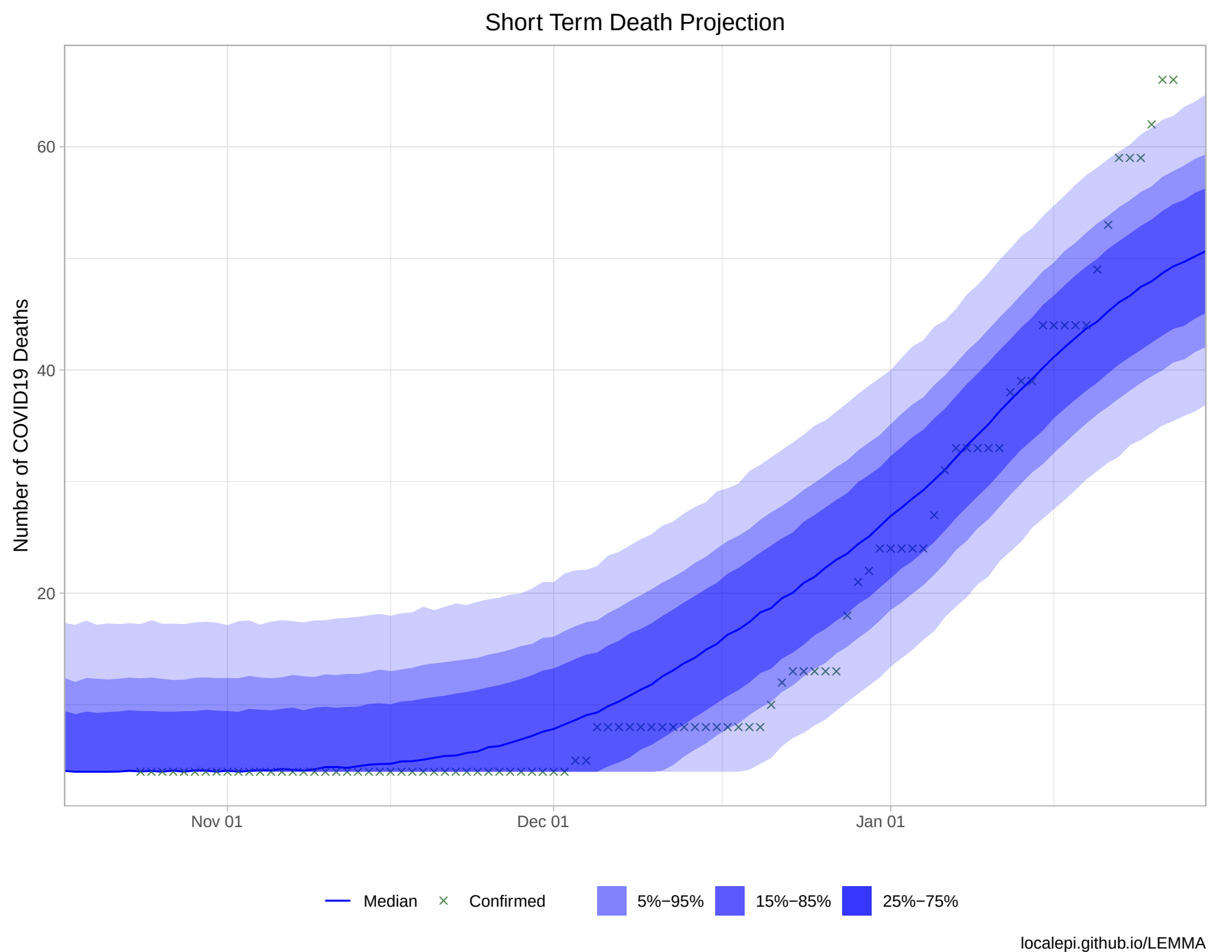
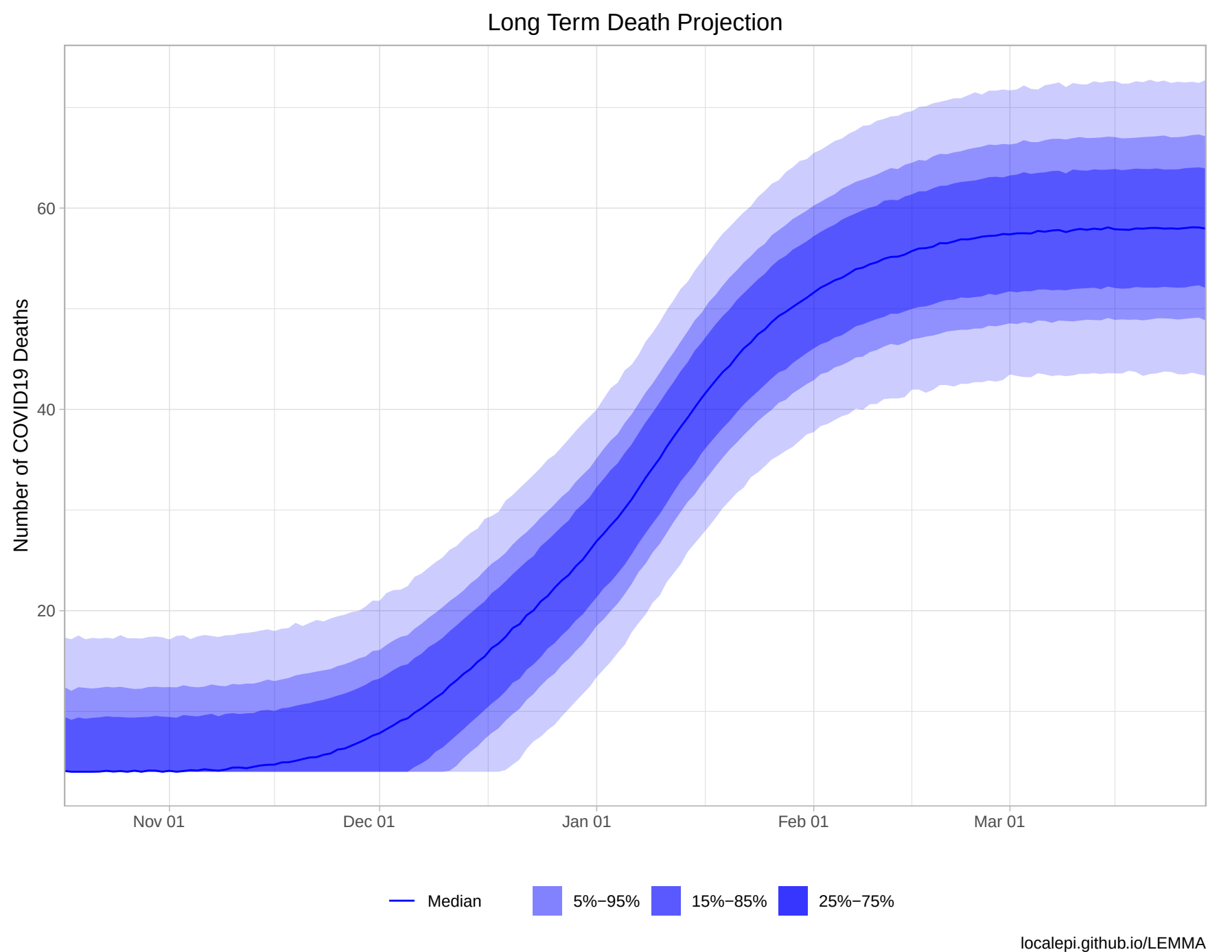

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
10
20
30
40
50
Nov 01
Dec 01
Jan 01
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

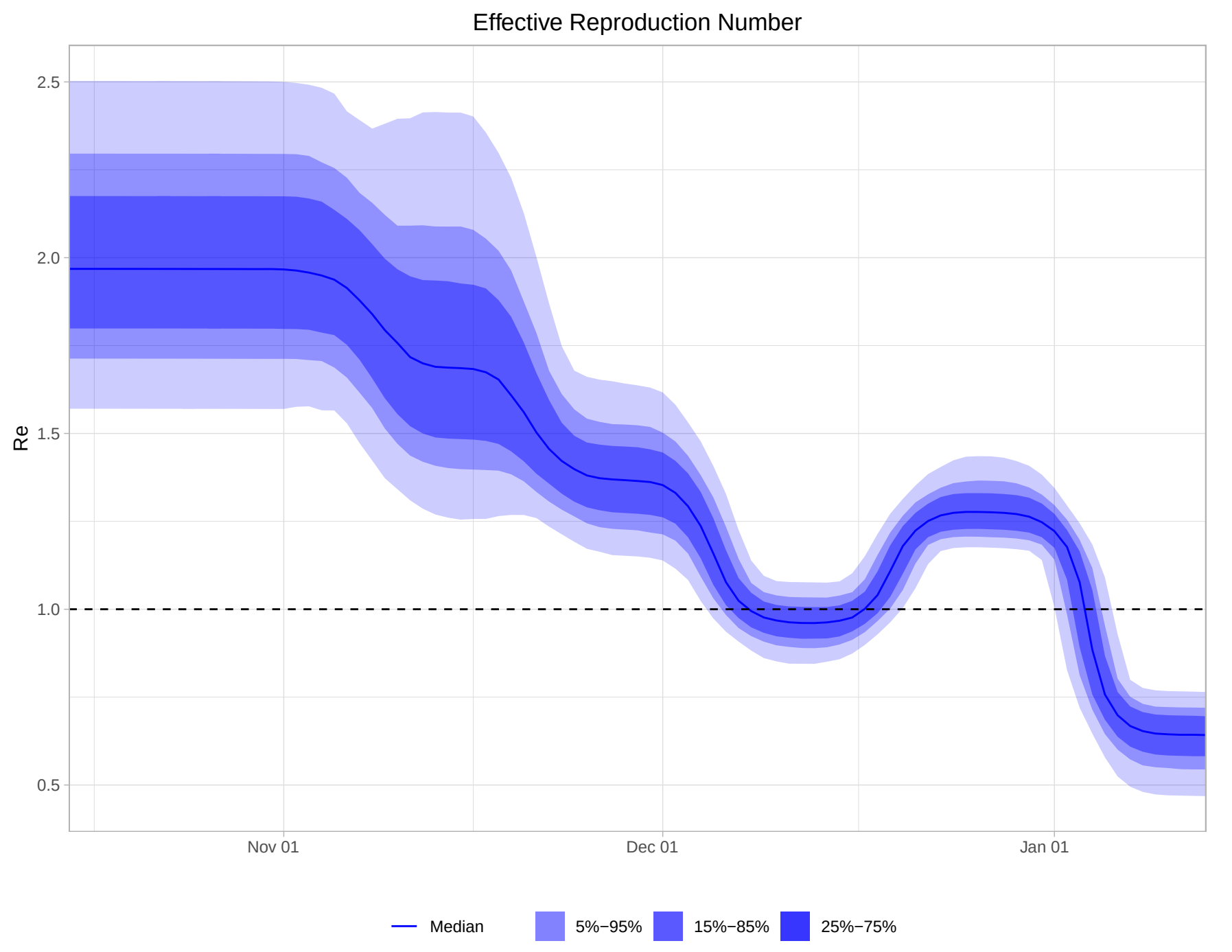

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
50
40
30
20
10
0
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


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

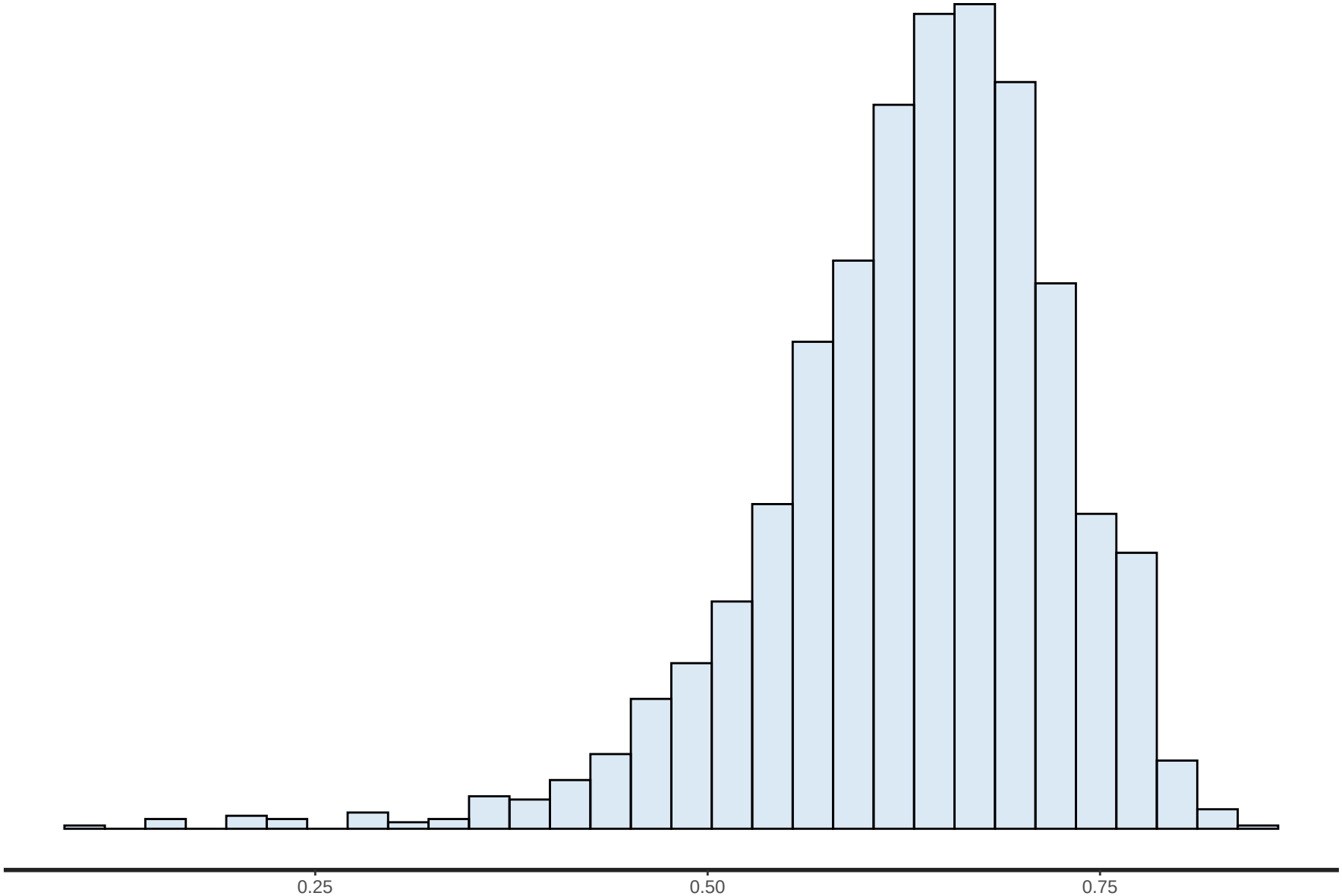

Short Term Death Projection
Number of COVID19 Deaths
60
40
20
Nov 01
Dec 01
Jan 01
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

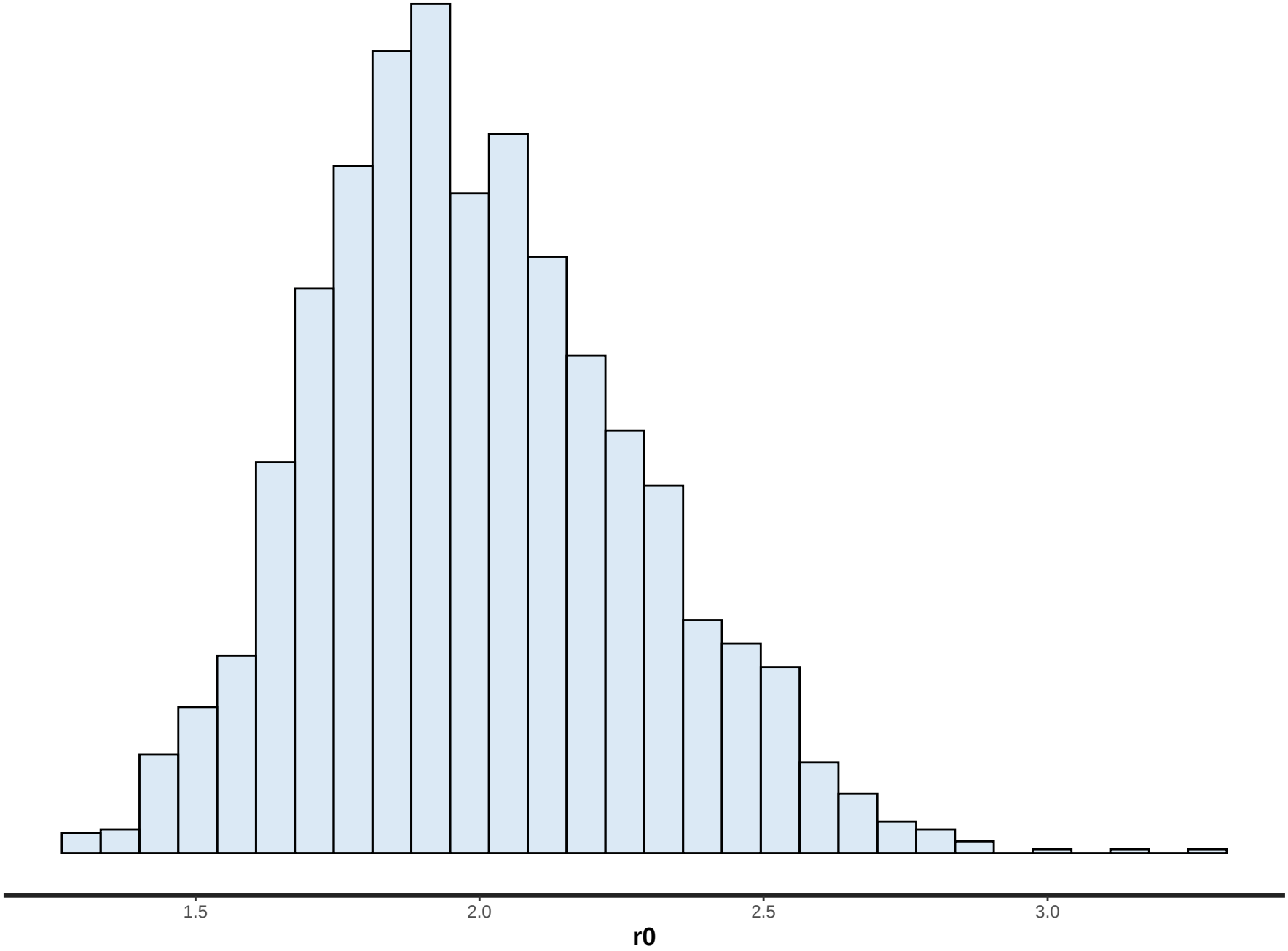

Long Term Death Projection
Number of COVID19 Deaths
60
40
20
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

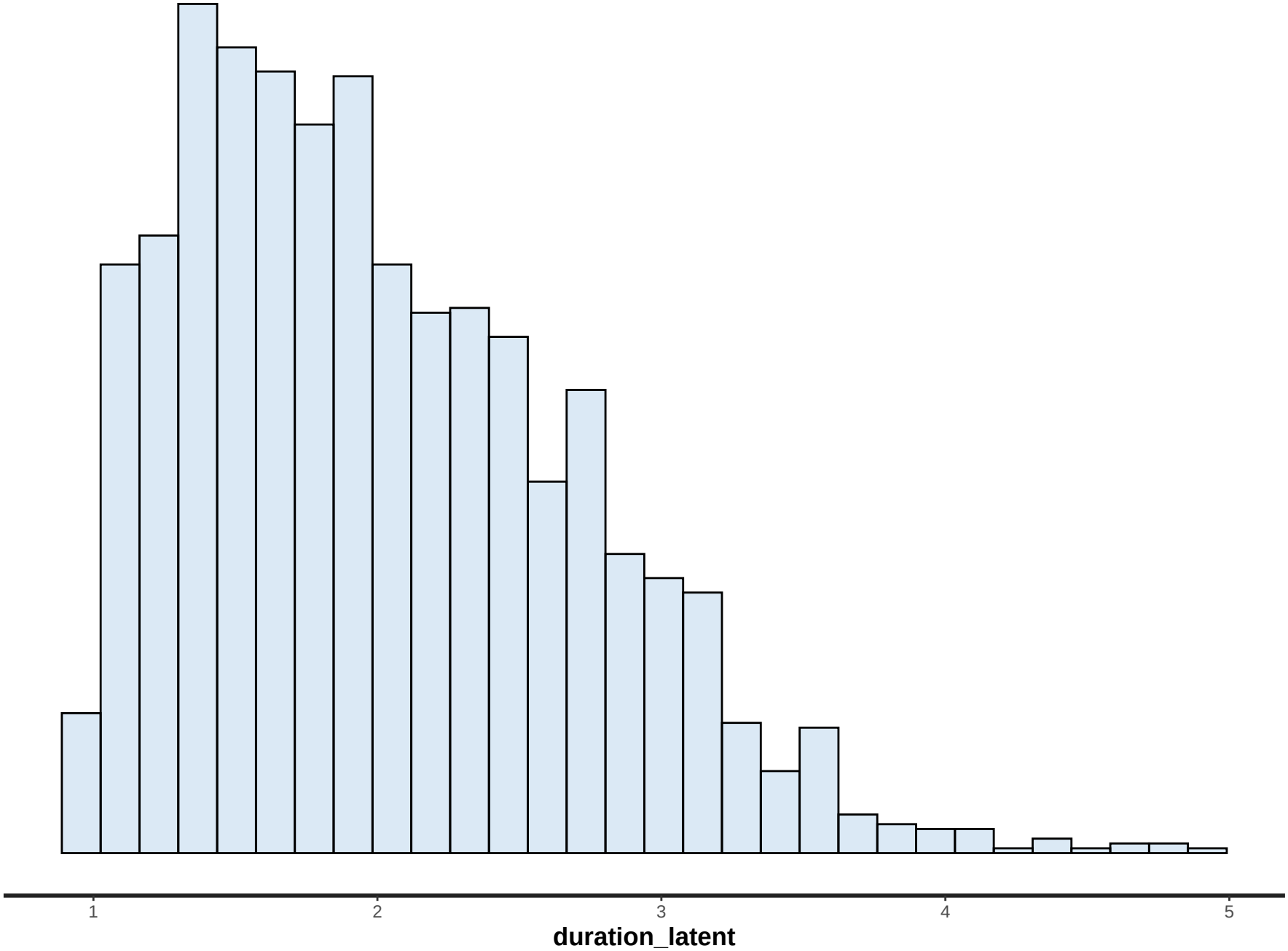

Effective Reproduction Number
Re
2.5
2.0
1.5
1.0
0.5
Nov 01
Dec 01
Jan 01
Median
5%−95%
15%−85%
25%−75%

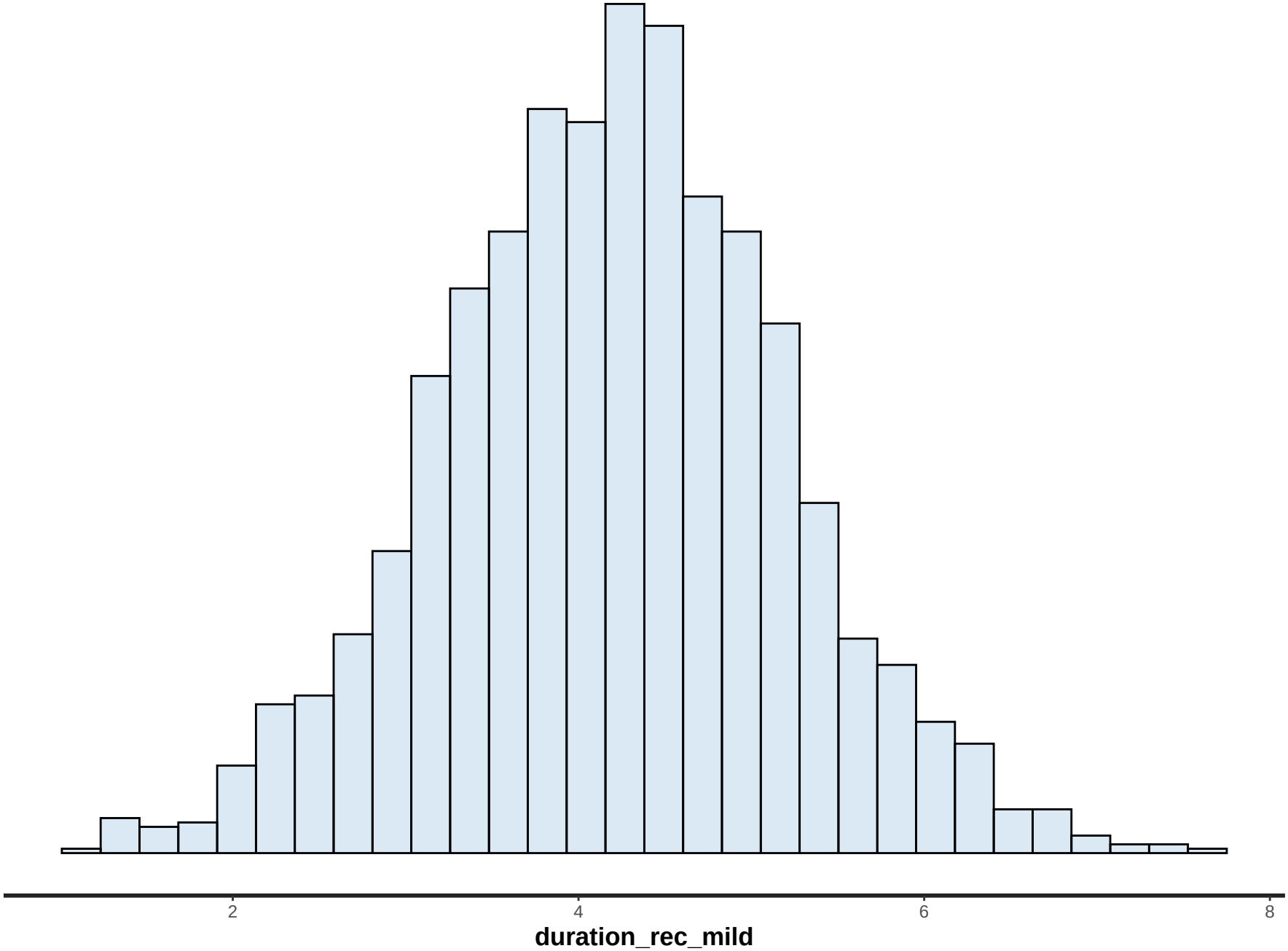
Rt as of 2021−01−13

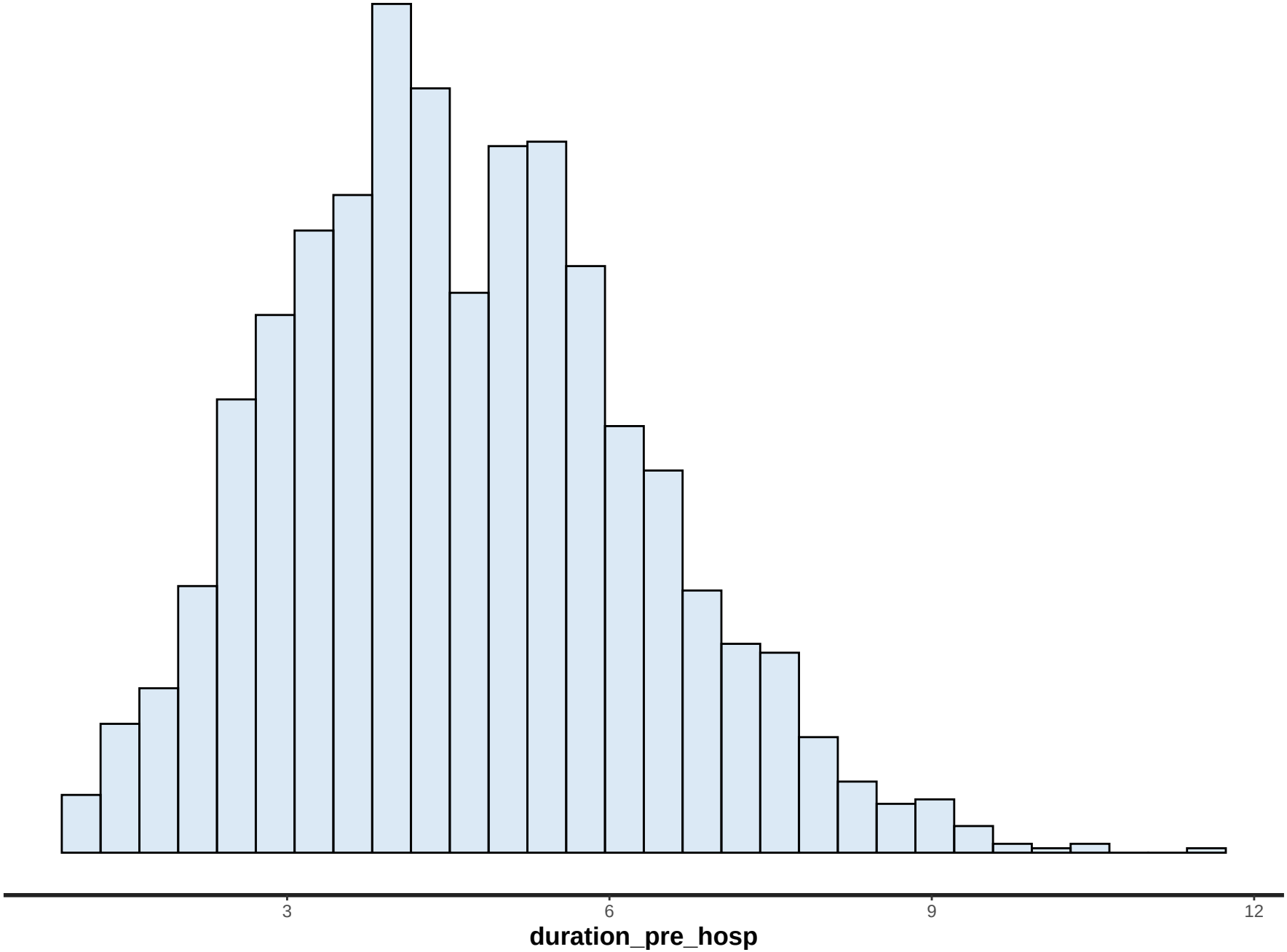
5%	10%	25%	50%	75%	90%	95%
0.47	0.52	0.58	0.64	0.70	0.74	0.76

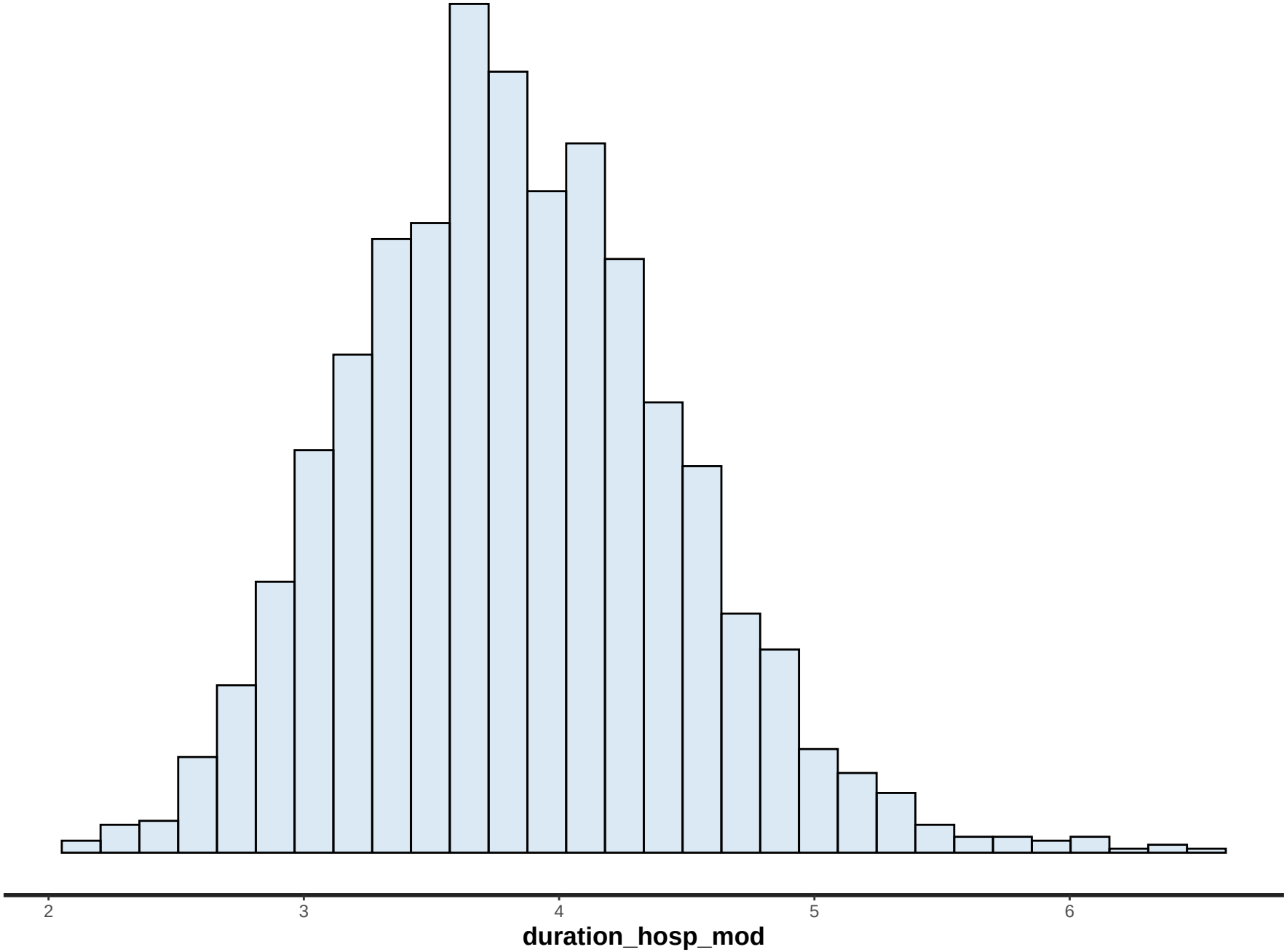


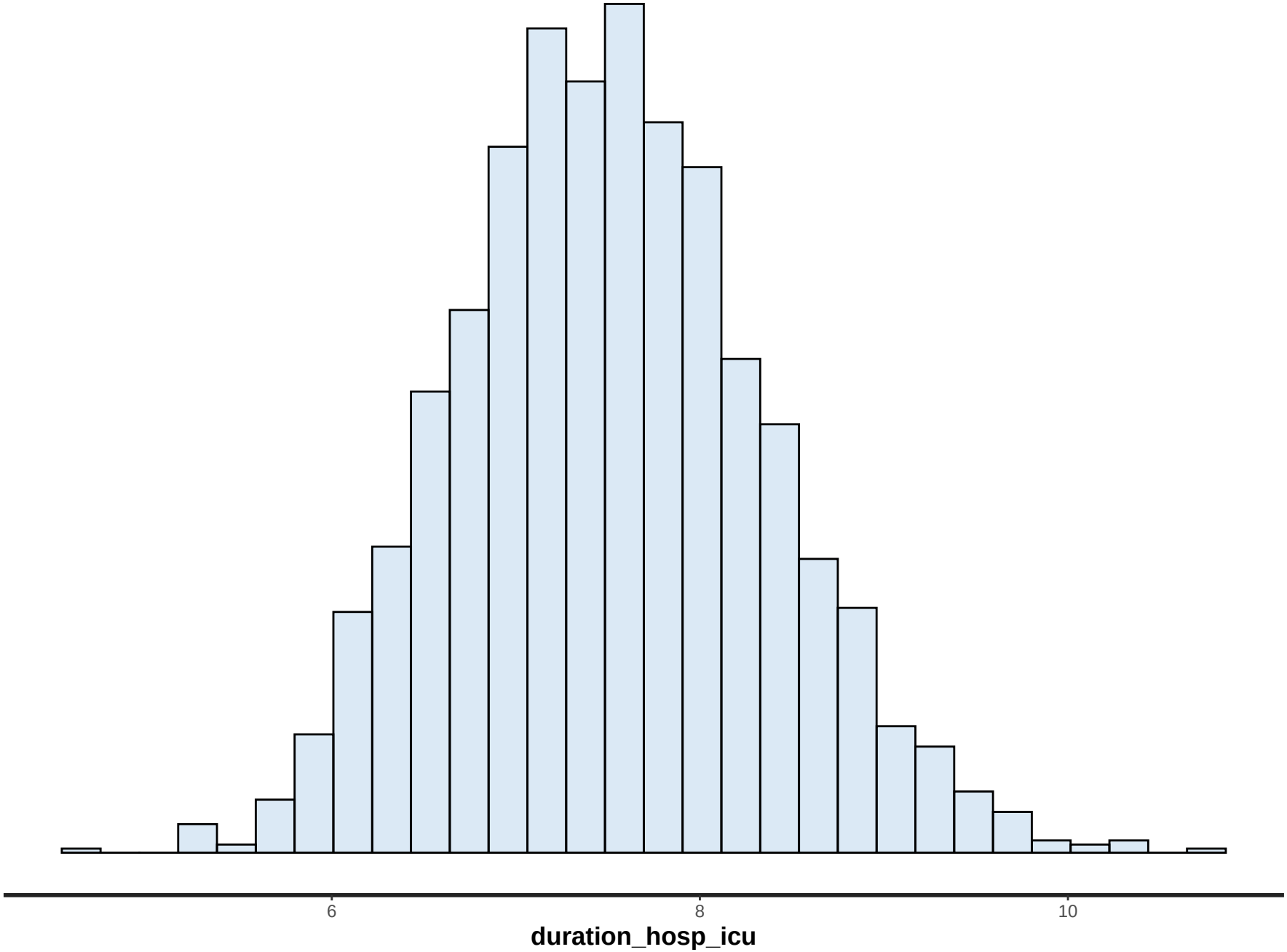

1.5
2.0
2.5
3.0
r0

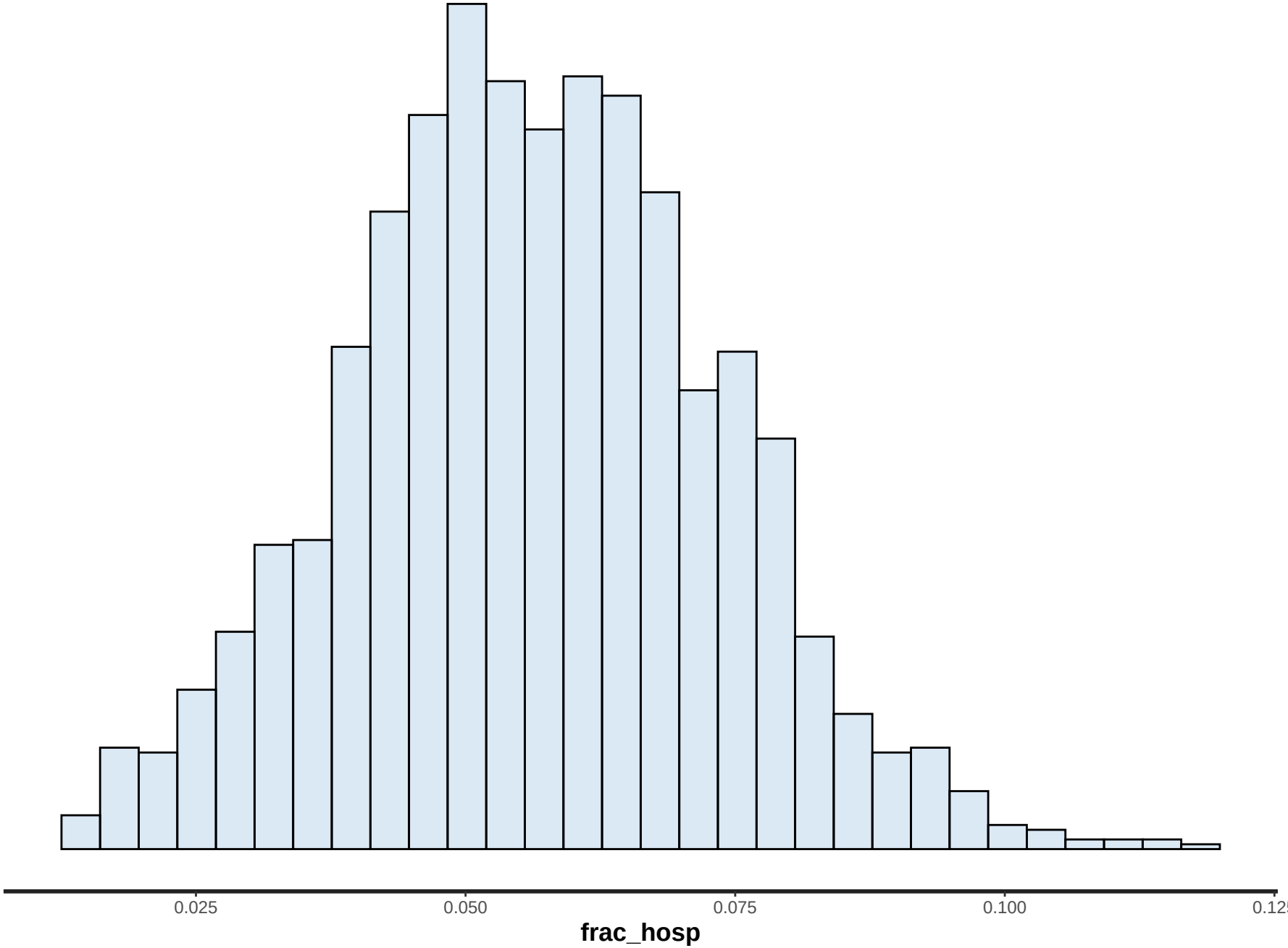

1
2
3
4
5
duration_latent

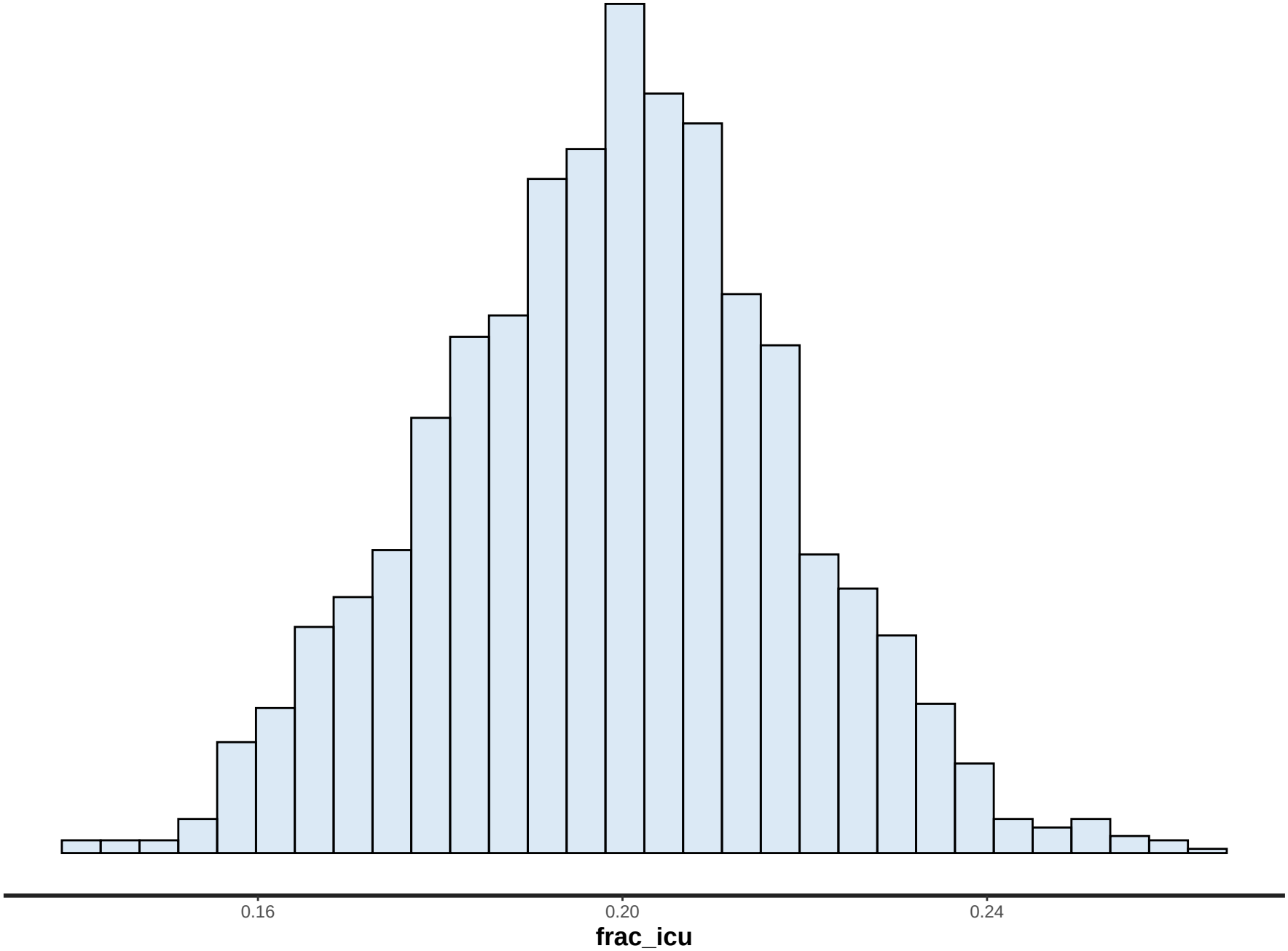

2
4
6
8
duration_rec_mild

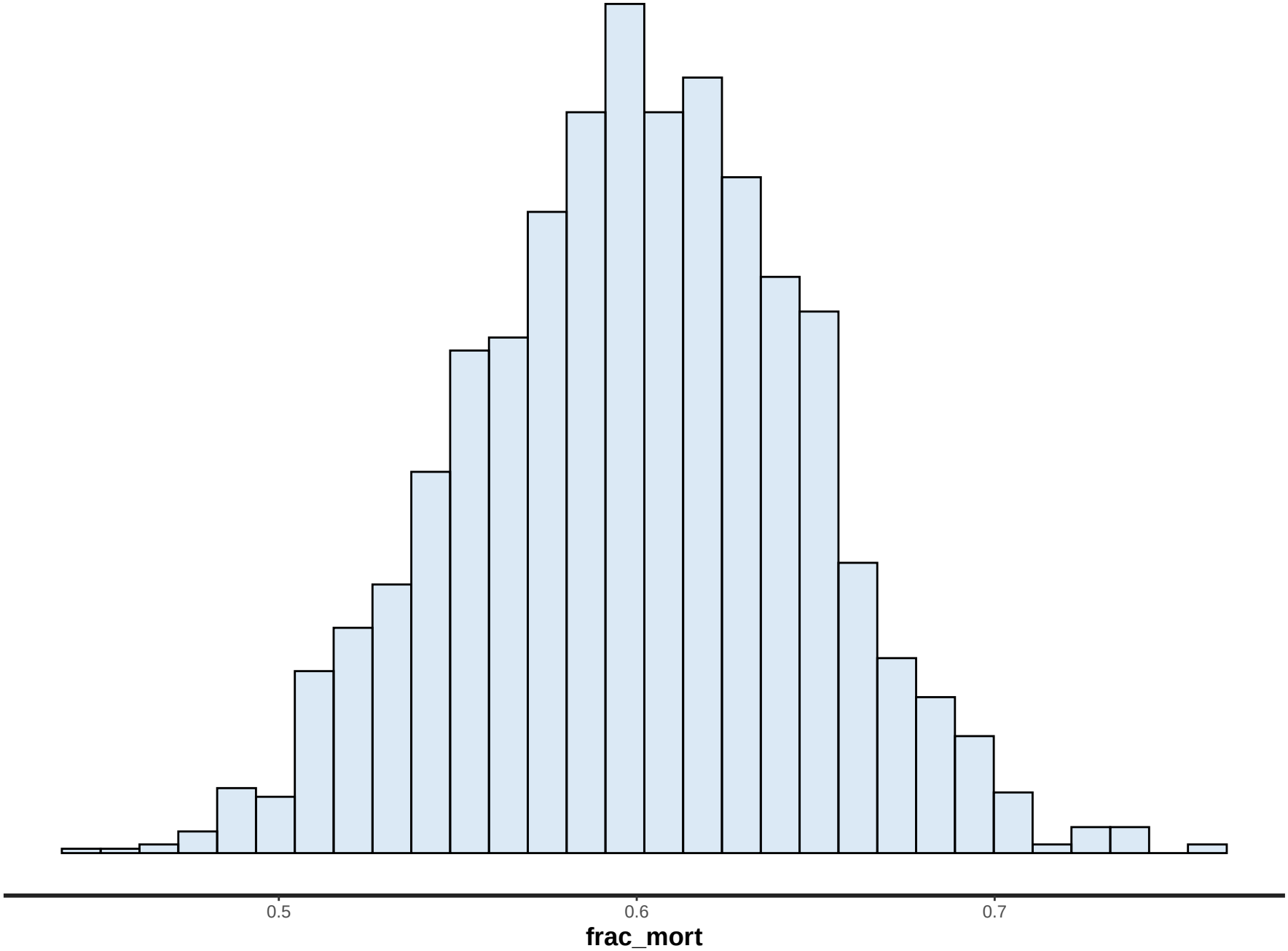

3
6
9
12
duration_pre_hosp

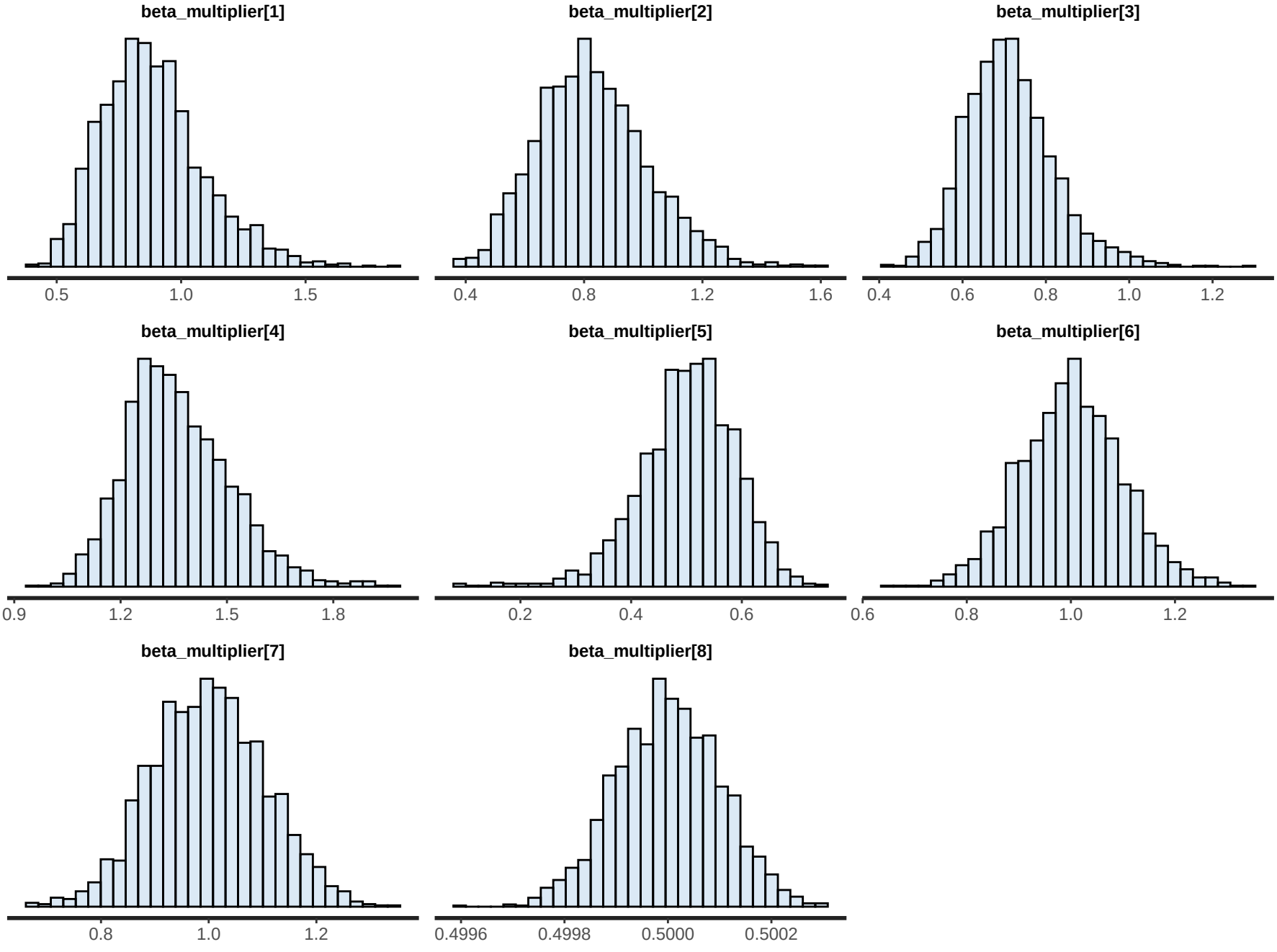

2
3
4
5
6
duration_hosp_mod

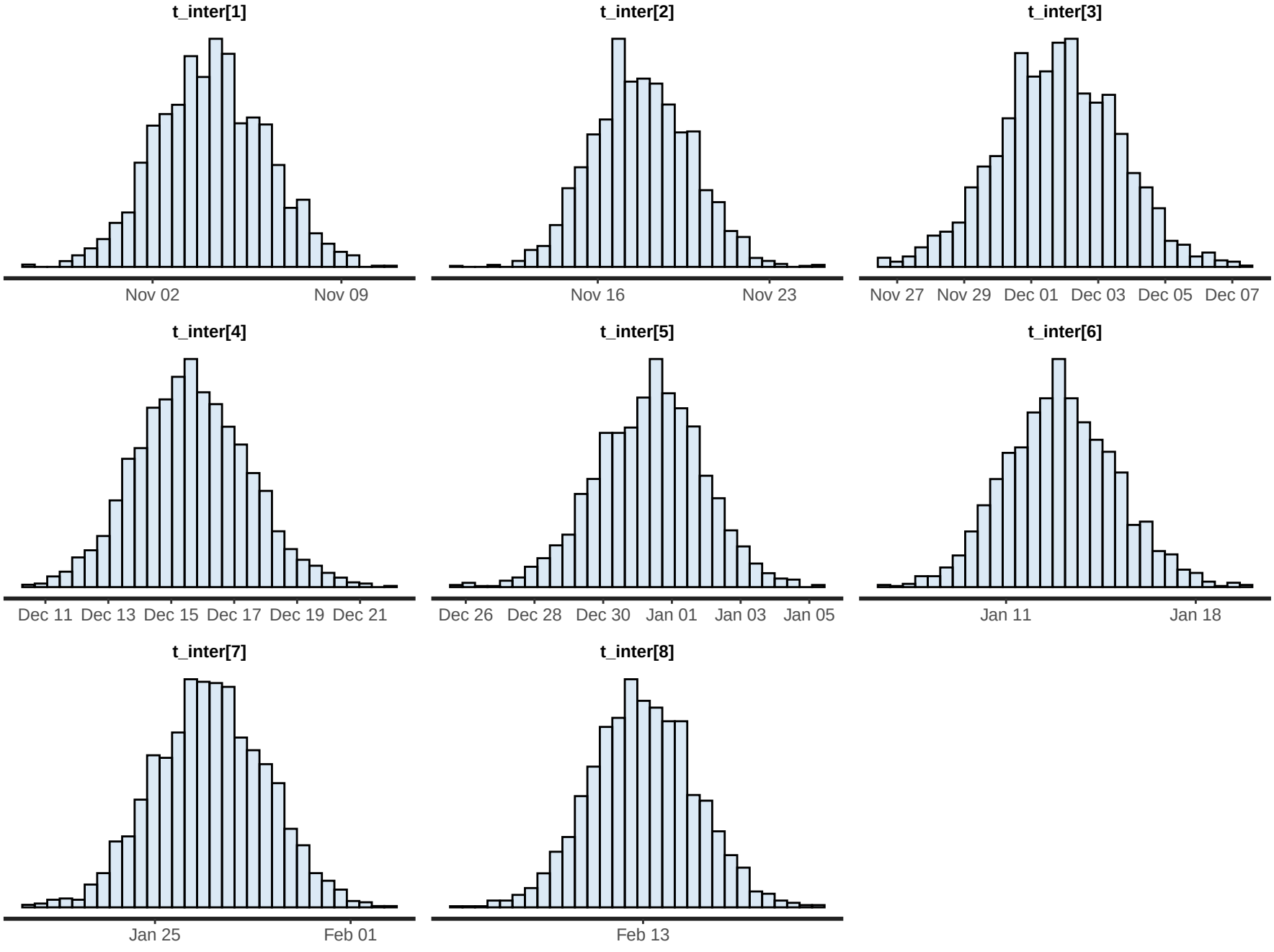

6
8
10
duration_hosp_icu

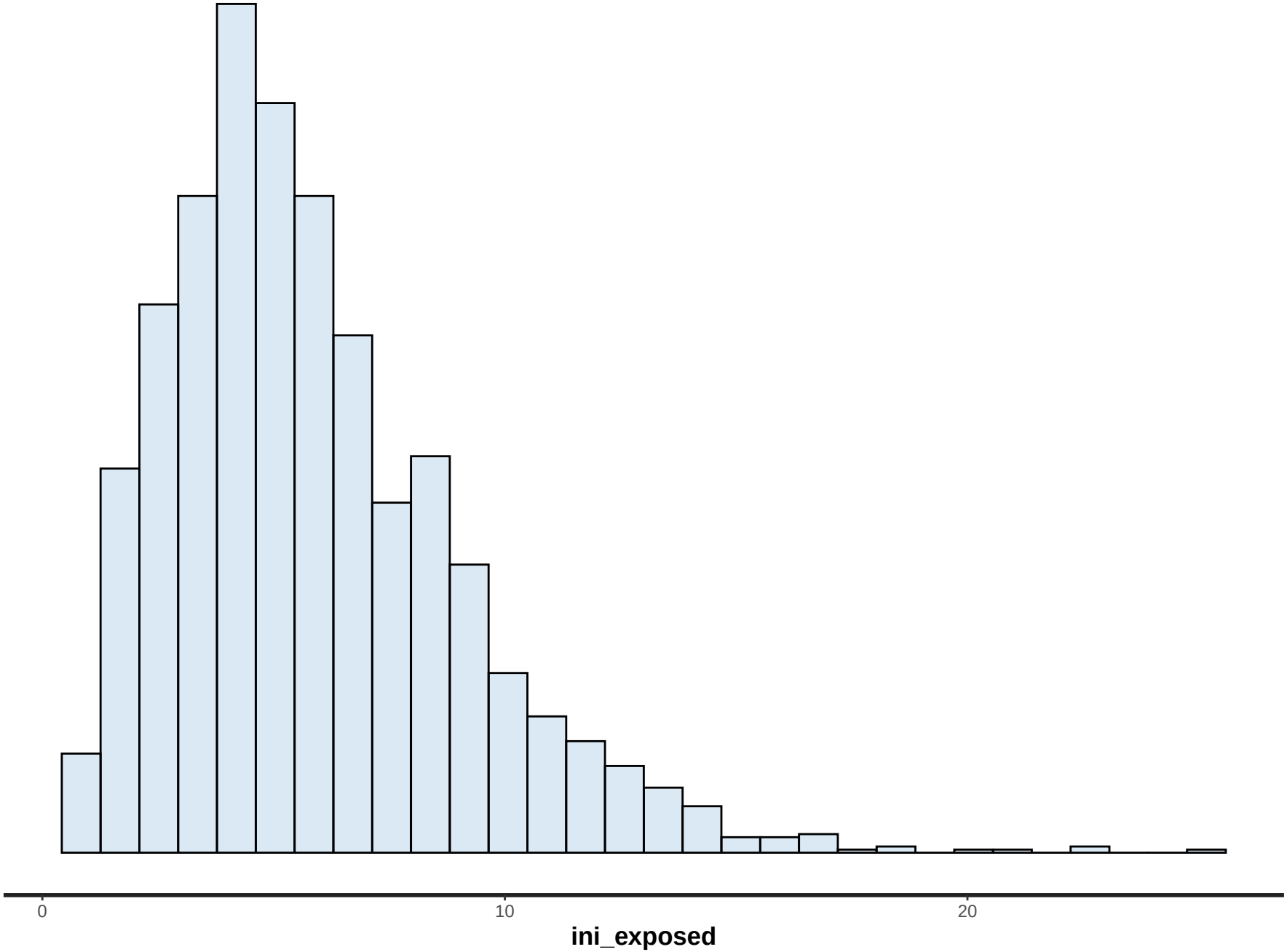

0.025
0.050
0.075
0.100
0.12
frac_hosp

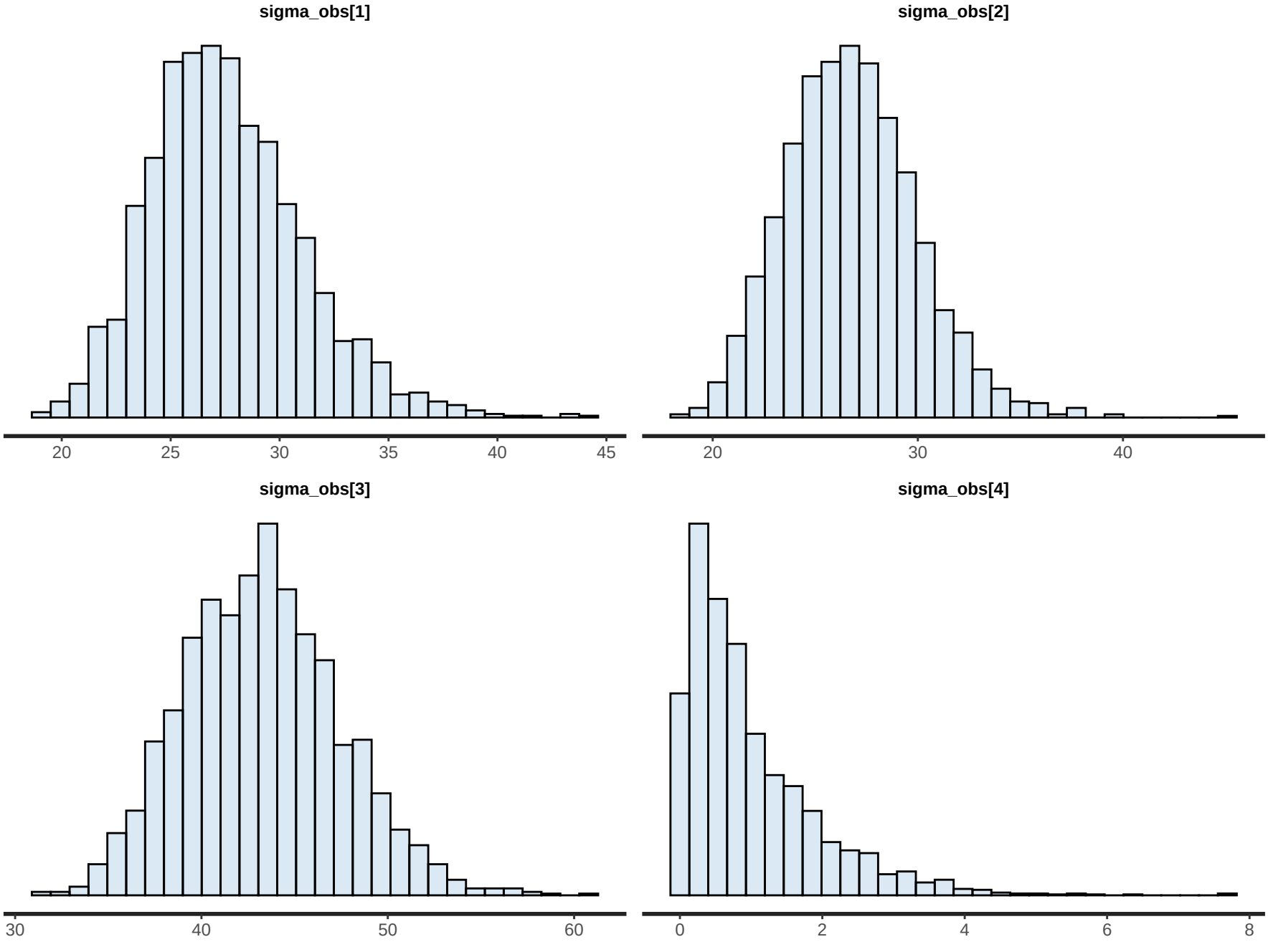

0.16
0.20
0.24
frac_icu


0.5
0.6
0.7
frac_mort


beta_multiplier[1]
0.5
1.0
1.5
beta_multiplier[2]
0.4
0.8
1.2
1.6
beta_multiplier[3]
0.4
0.6
0.8
1.0
1.2
beta_multiplier[4]
0.9
1.2
1.5
1.8
beta_multiplier[5]
0.2
0.4
0.6
beta_multiplier[6]
0.6
0.8
1.0
1.2
beta_multiplier[7]
0.8
1.0
1.2
beta_multiplier[8]
0.4996
0.4998
0.5000
0.5002


t_inter[1]
Nov 02
Nov 09
t_inter[2]
Nov 16
Nov 23
t_inter[3]
Nov 27
Nov 29
Dec 01
Dec 03
Dec 05
Dec 07
t_inter[4]
Dec 11
Dec 13
Dec 15
Dec 17
Dec 19
Dec 21
t_inter[5]
Dec 26
Dec 28
Dec 30
Jan 01
Jan 03
Jan 05
t_inter[6]
Jan 11
Jan 18
t_inter[7]
Jan 25
Feb 01
t_inter[8]
Feb 13


0
10
20
ini_exposed


sigma_obs[1]
20
25
30
35
40
45
sigma_obs[2]
20
30
40
sigma_obs[3]
30
40
50
60
sigma_obs[4]
0
2
4
6
8