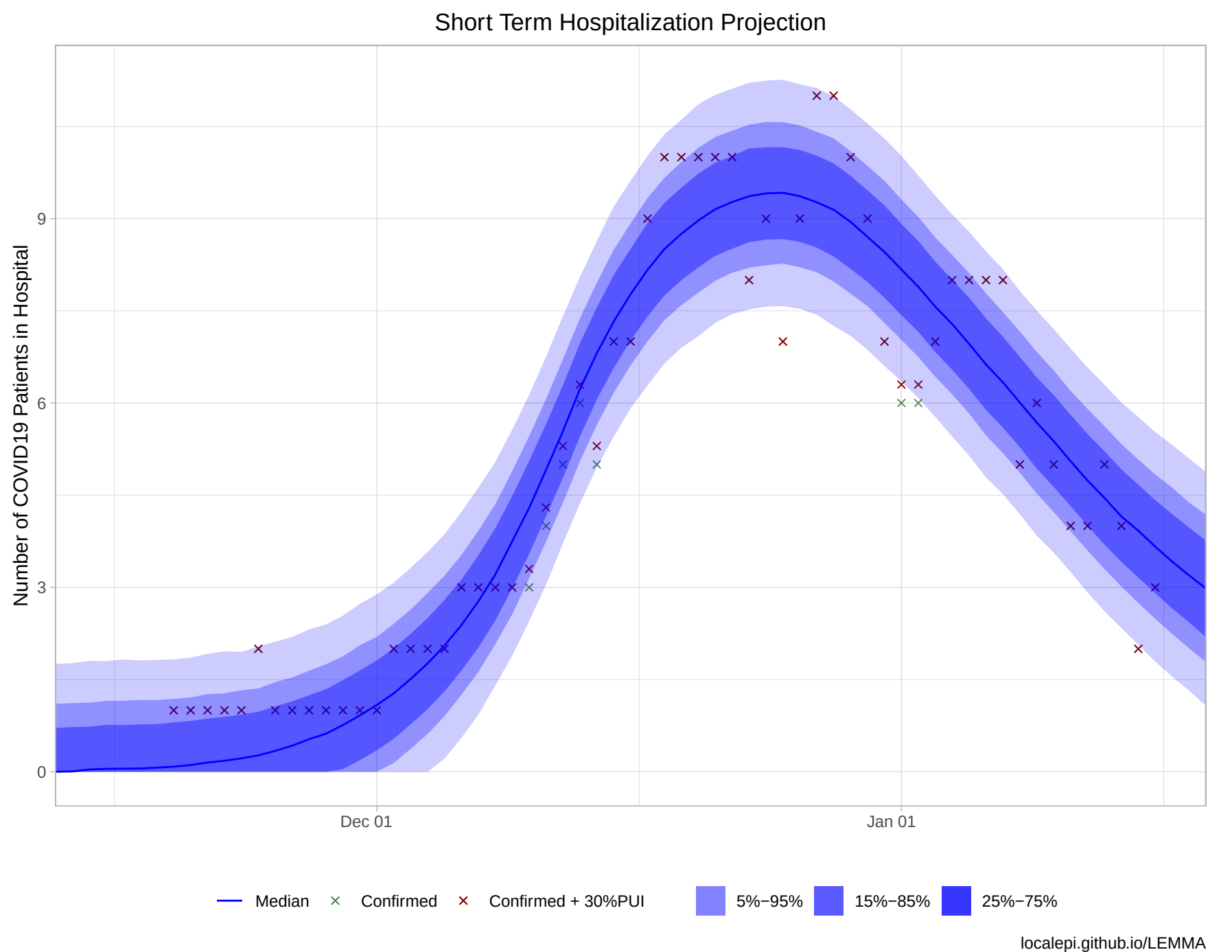
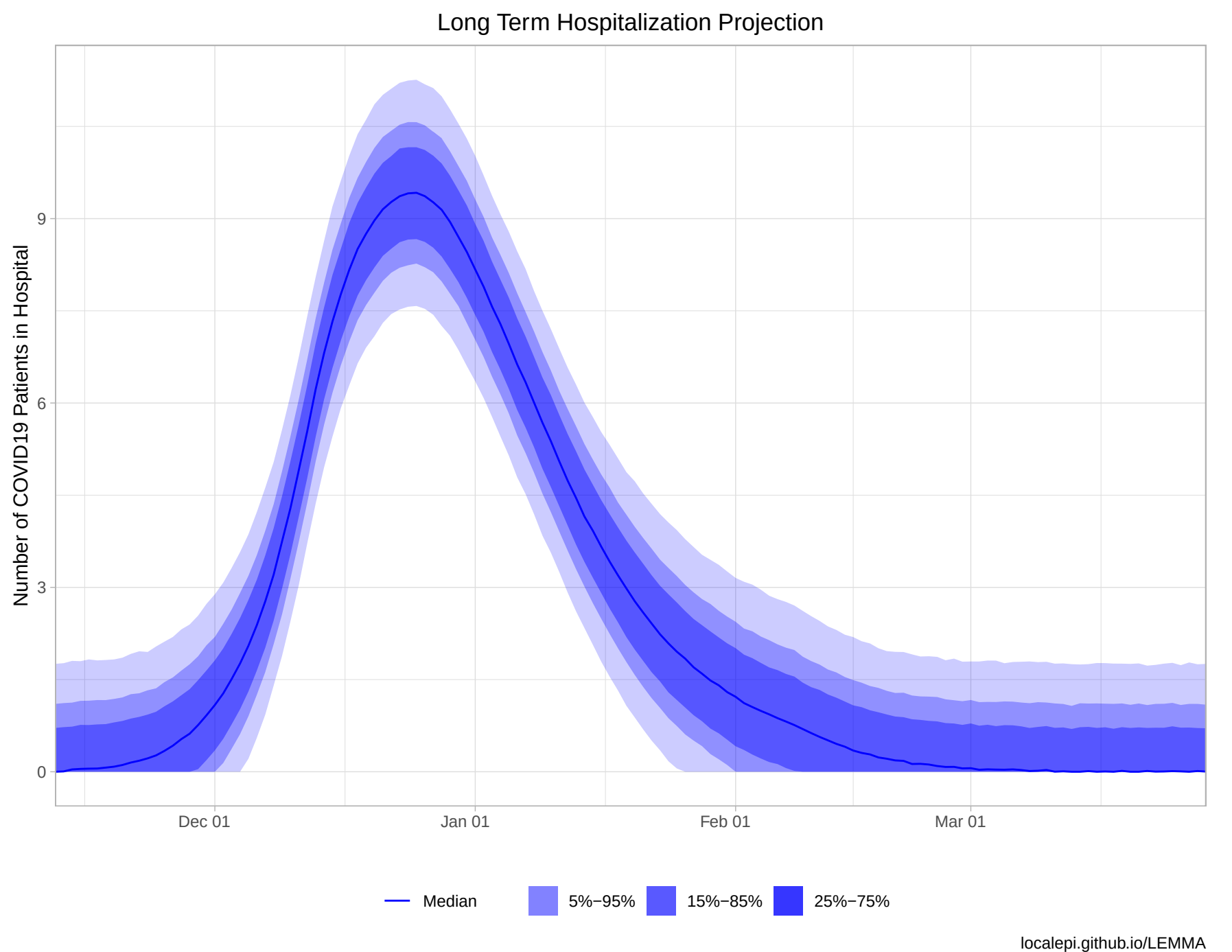
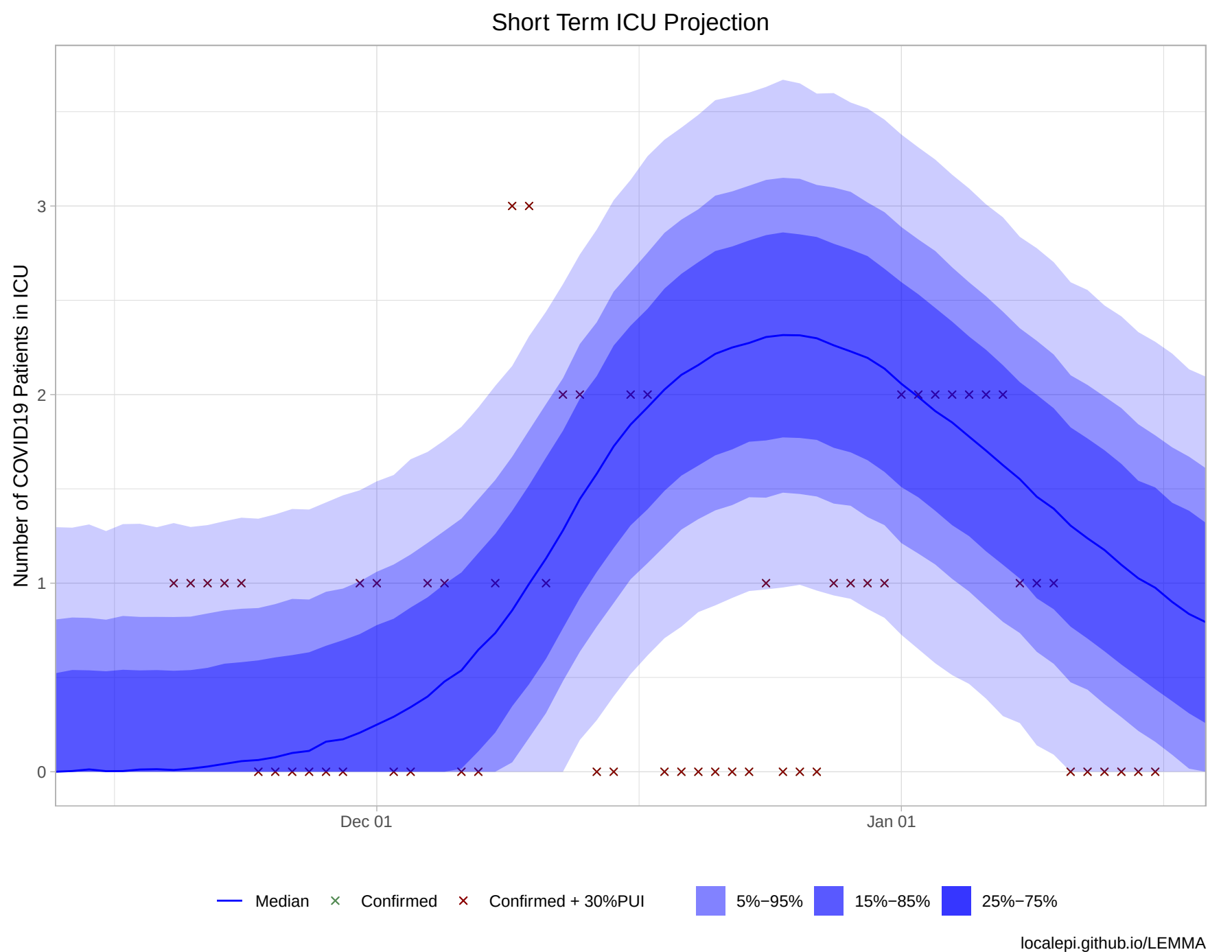
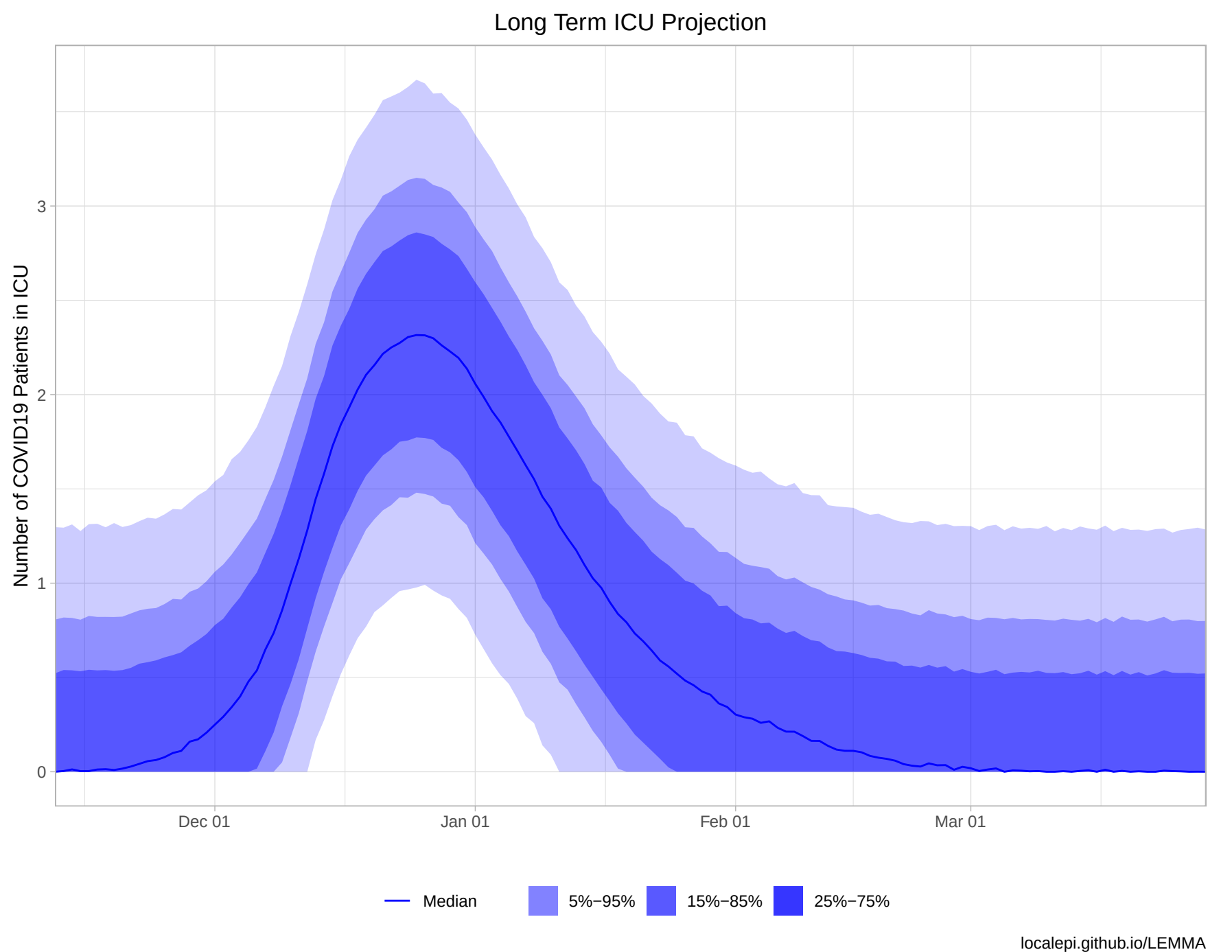
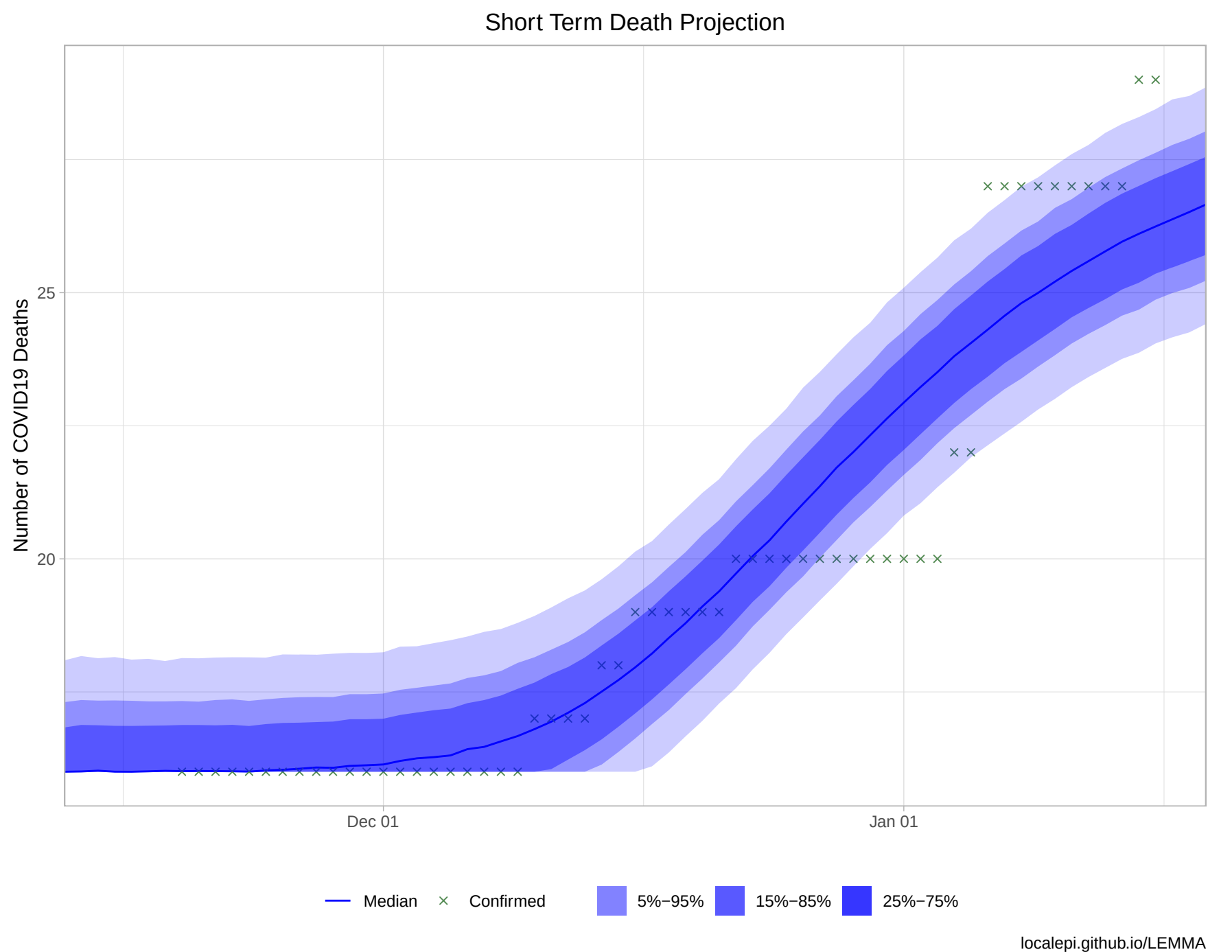
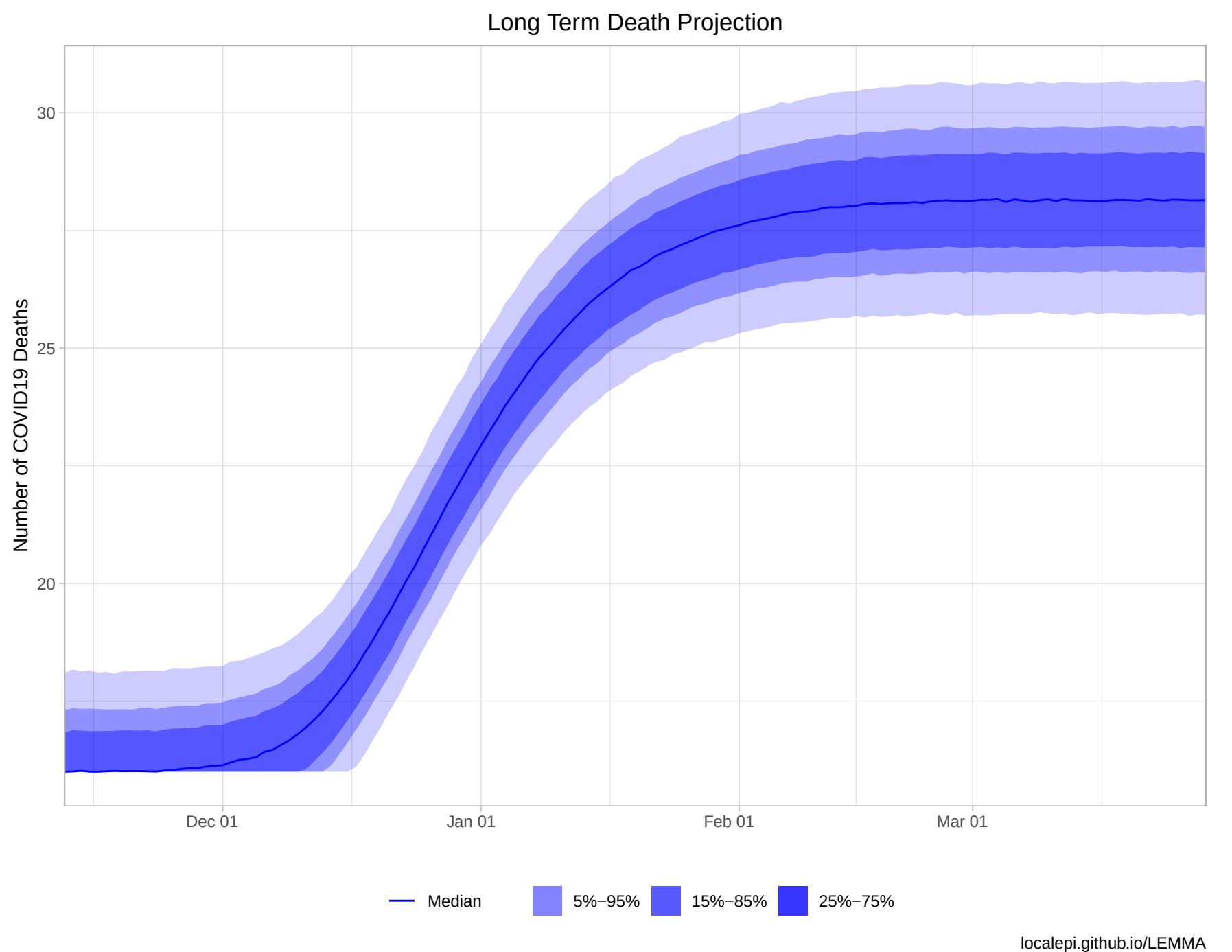

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
3
6
9
Dec 01
Jan 01
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

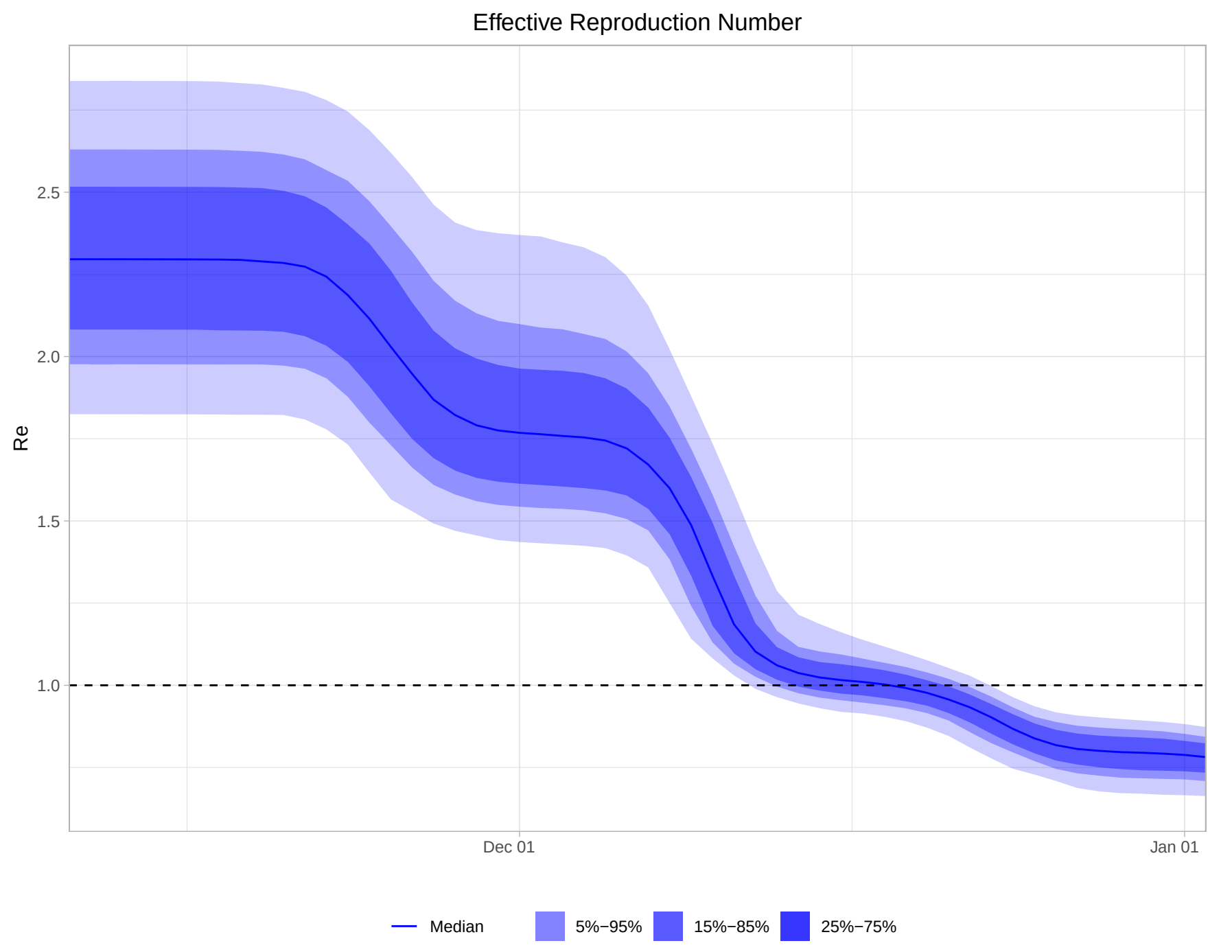

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
3
6
9
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


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
0
1
2
3
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

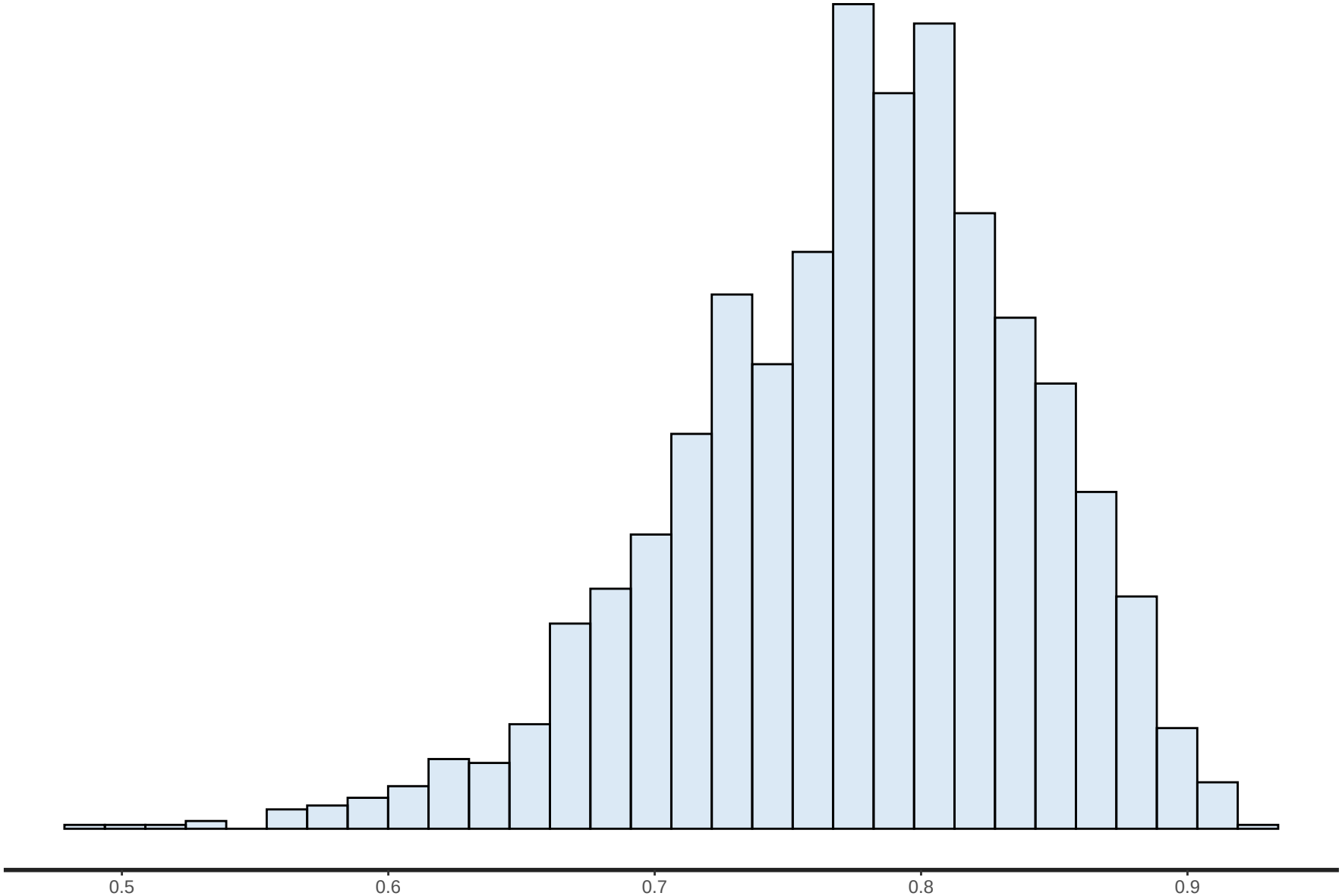

Short Term Death Projection
Number of COVID19 Deaths
25
20
Dec 01
Jan 01
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

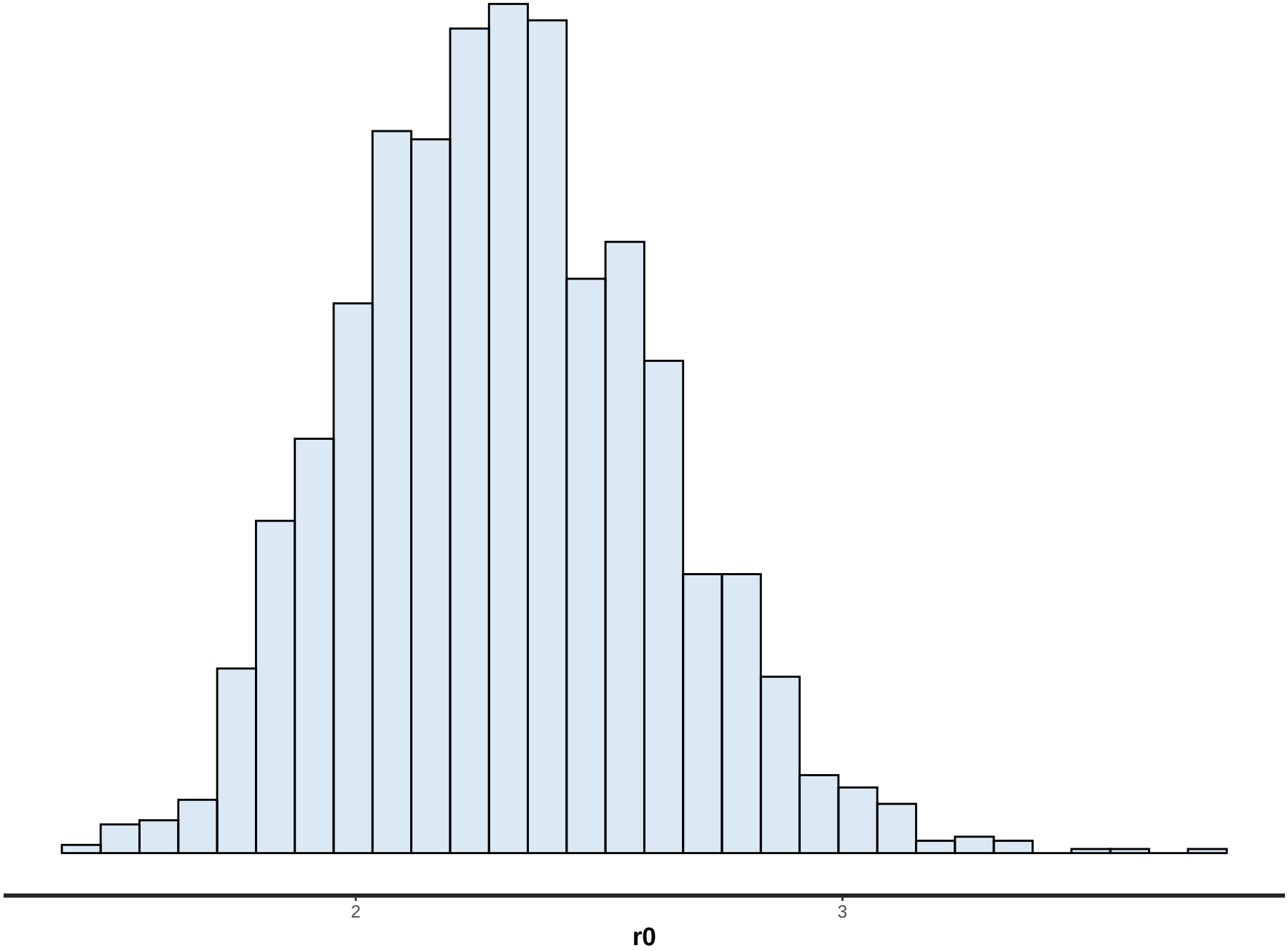

Long Term Death Projection
Number of COVID19 Deaths
30
25
20
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

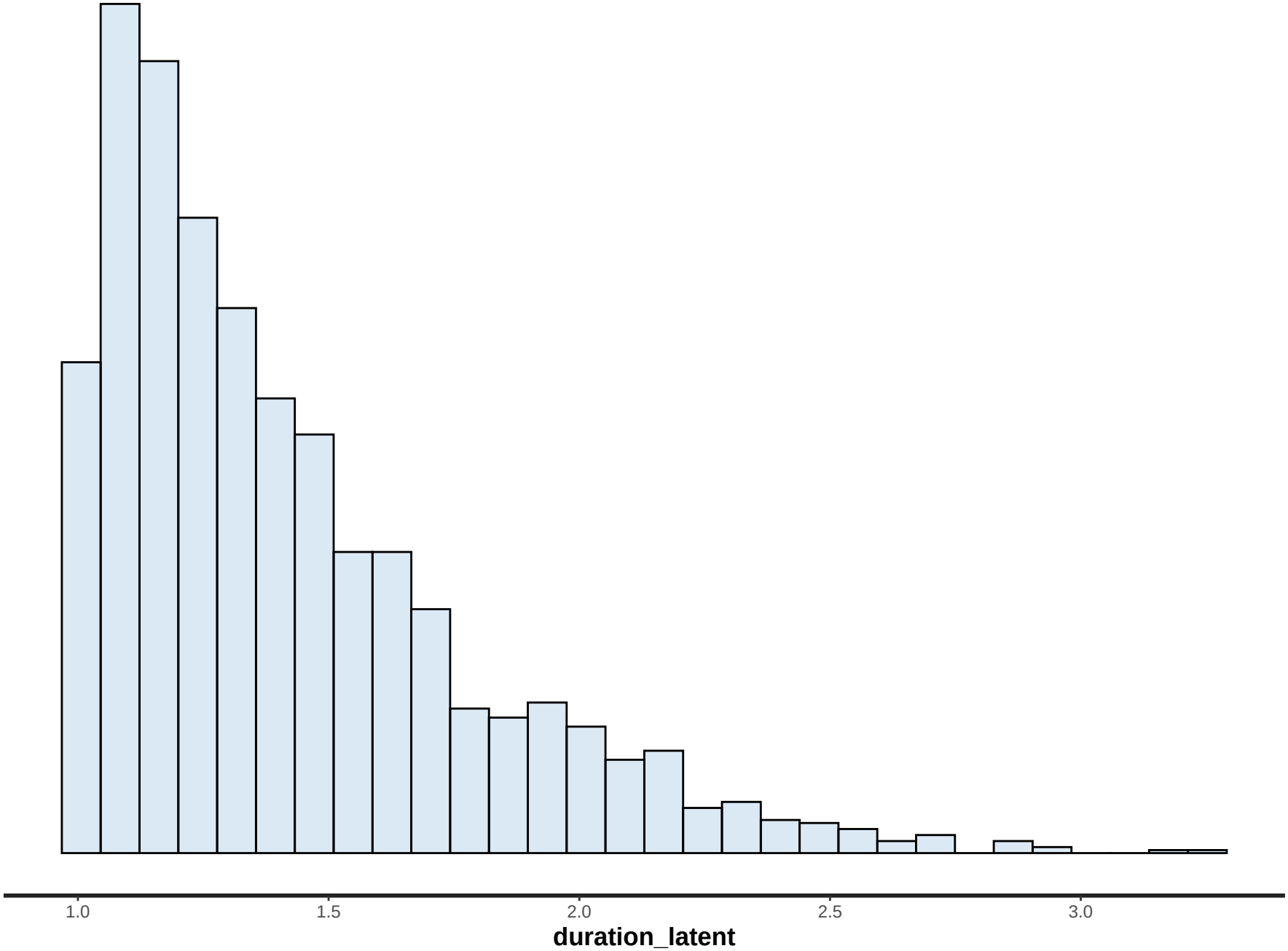

Effective Reproduction Number
Re
2.5
2.0
1.5
1.0
Dec 01
Jan 01
Median
5%−95%
15%−85%
25%−75%

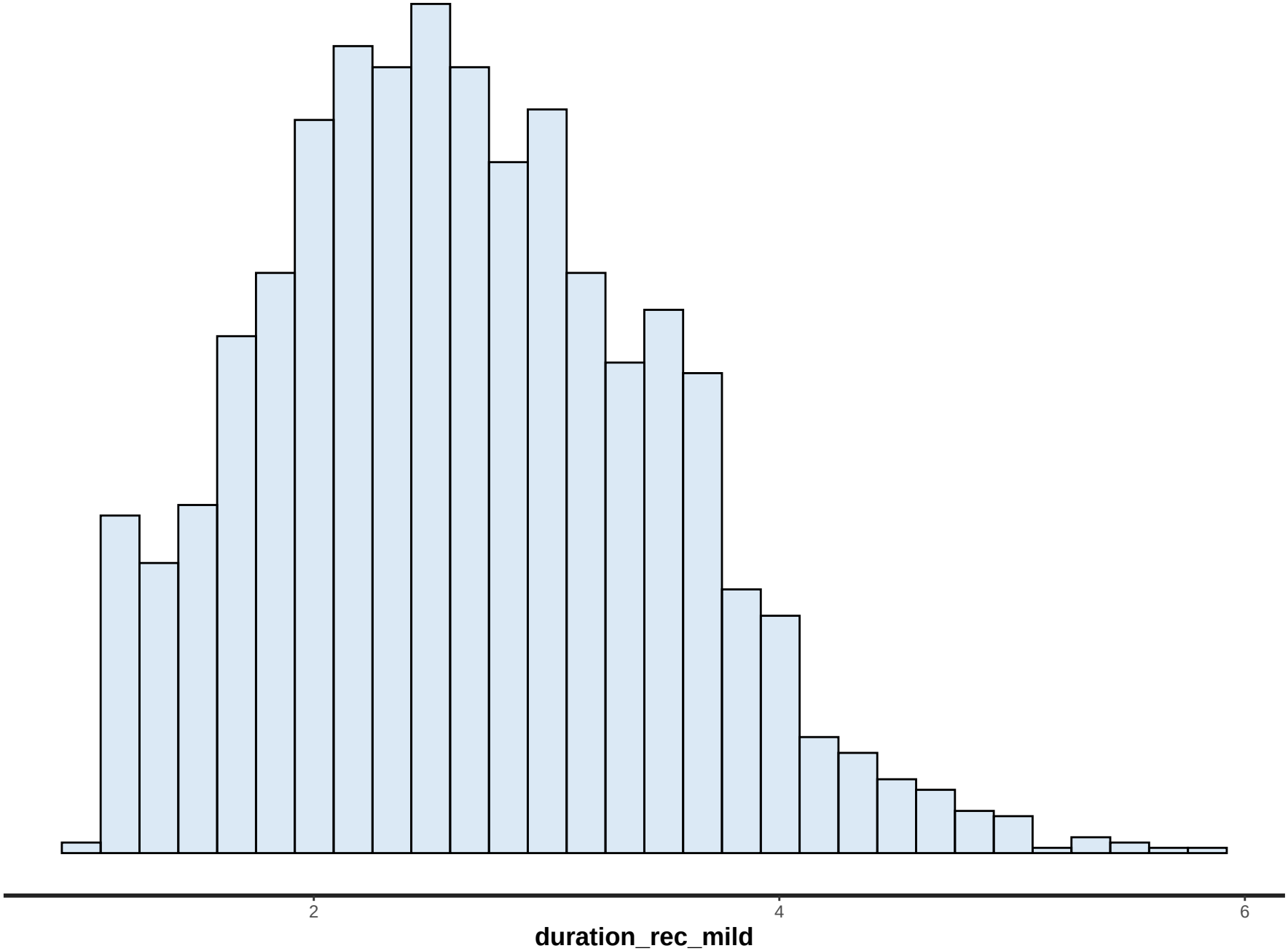
Rt as of 2021−01−02

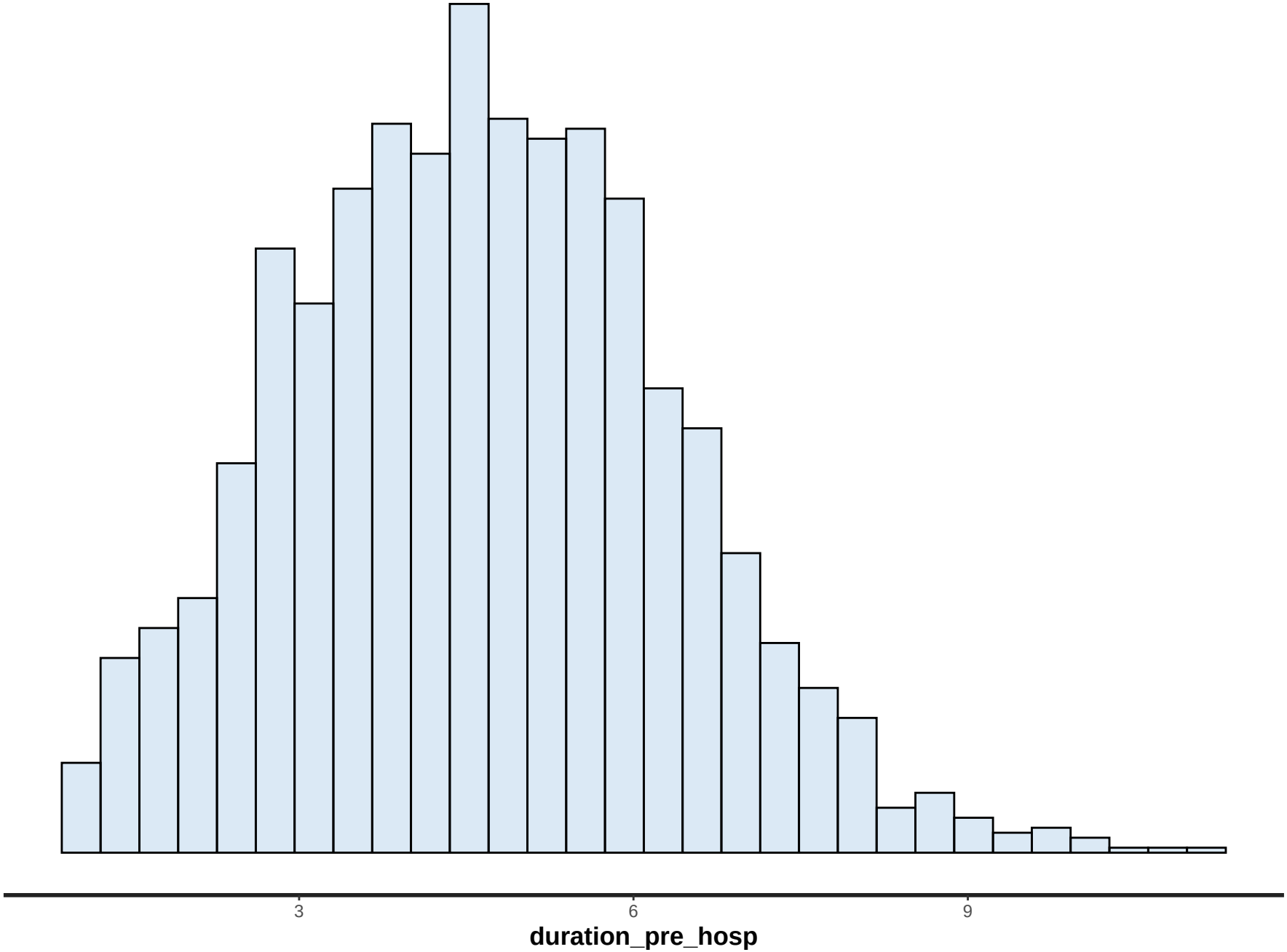
5%	10%	25%	50%	75%	90%	95%
0.66	0.69	0.73	0.78	0.82	0.86	0.87

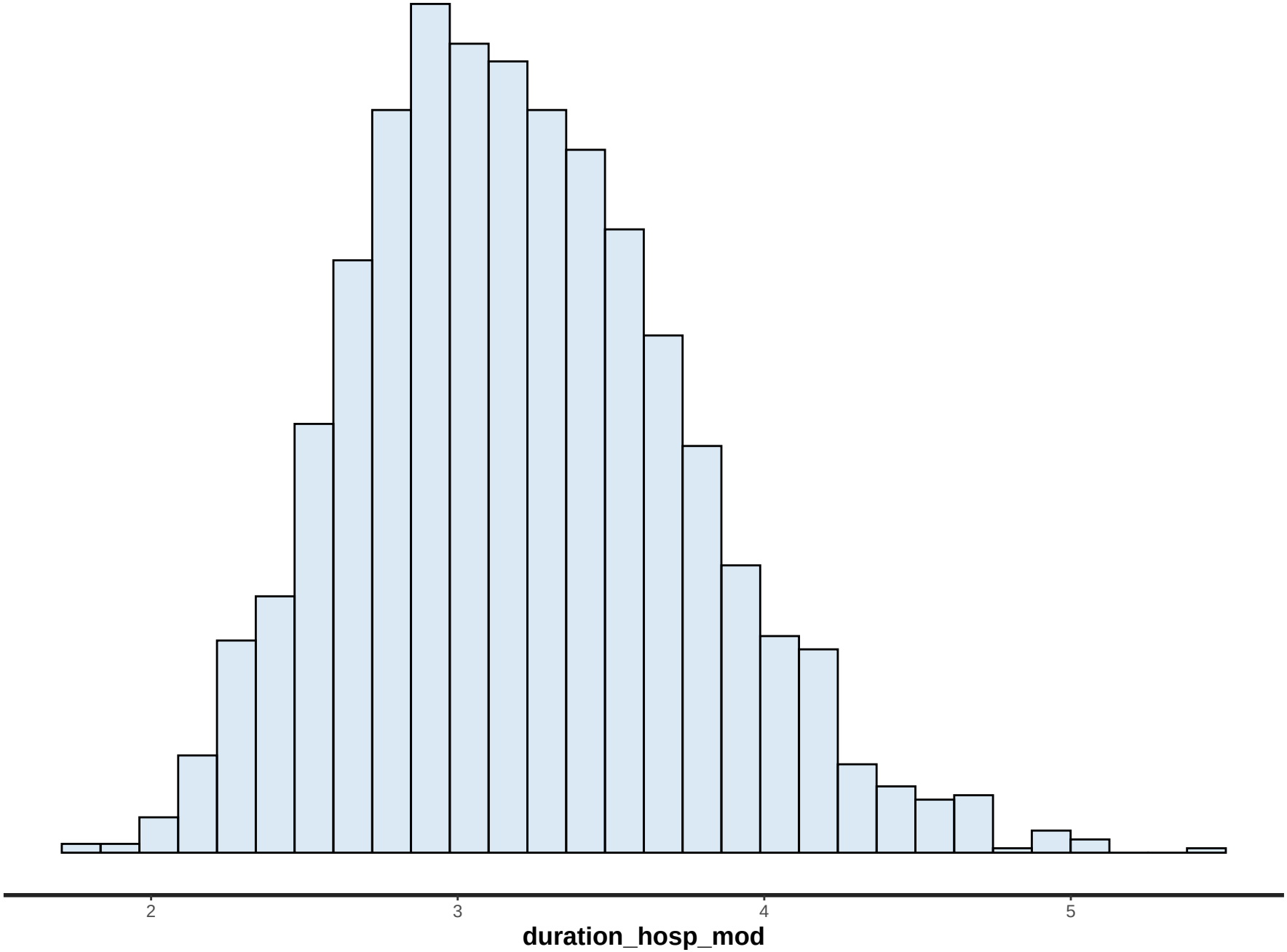


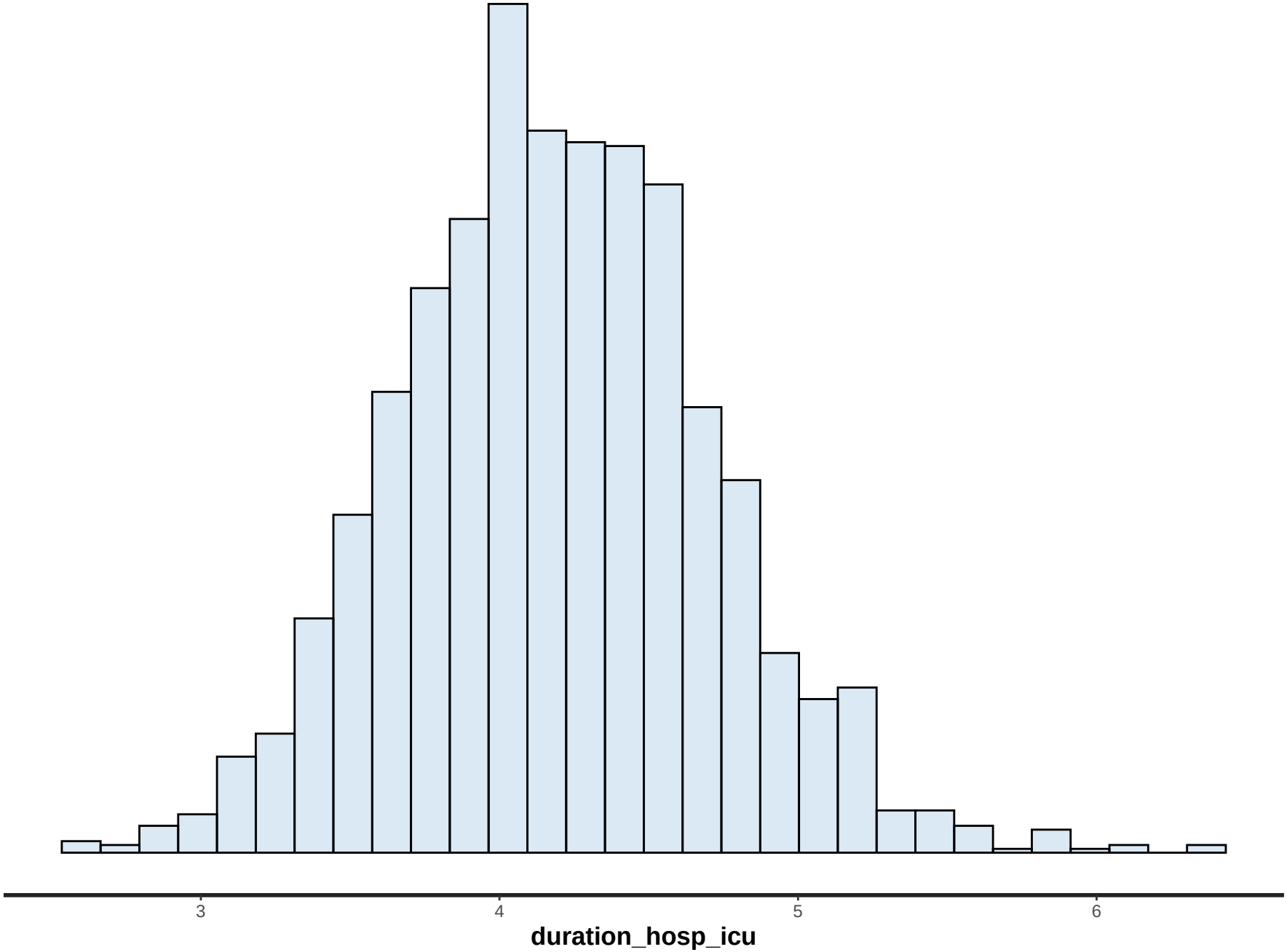

2
3
r0

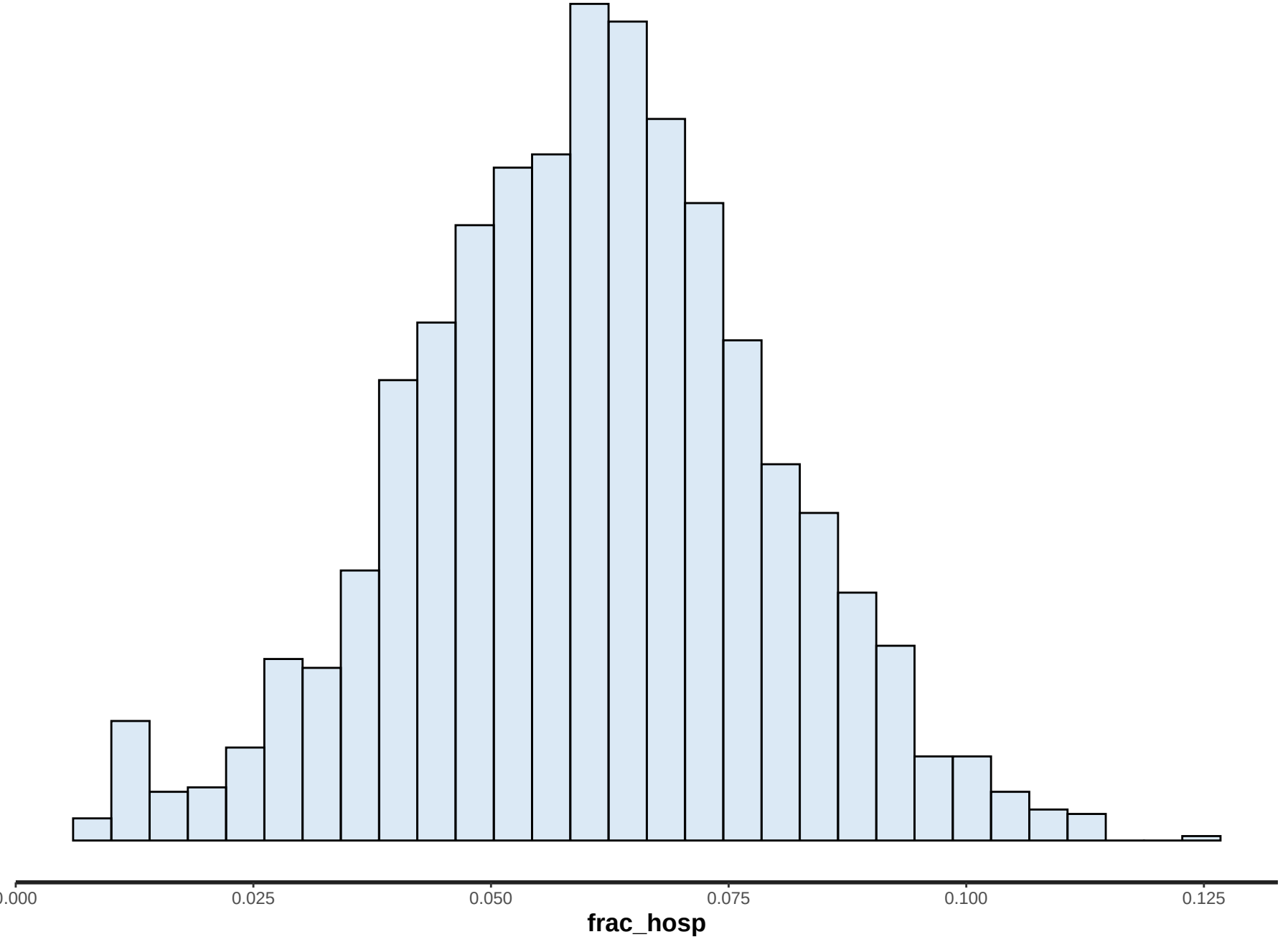

1.0
1.5
2.0
2.5
3.0
duration_latent

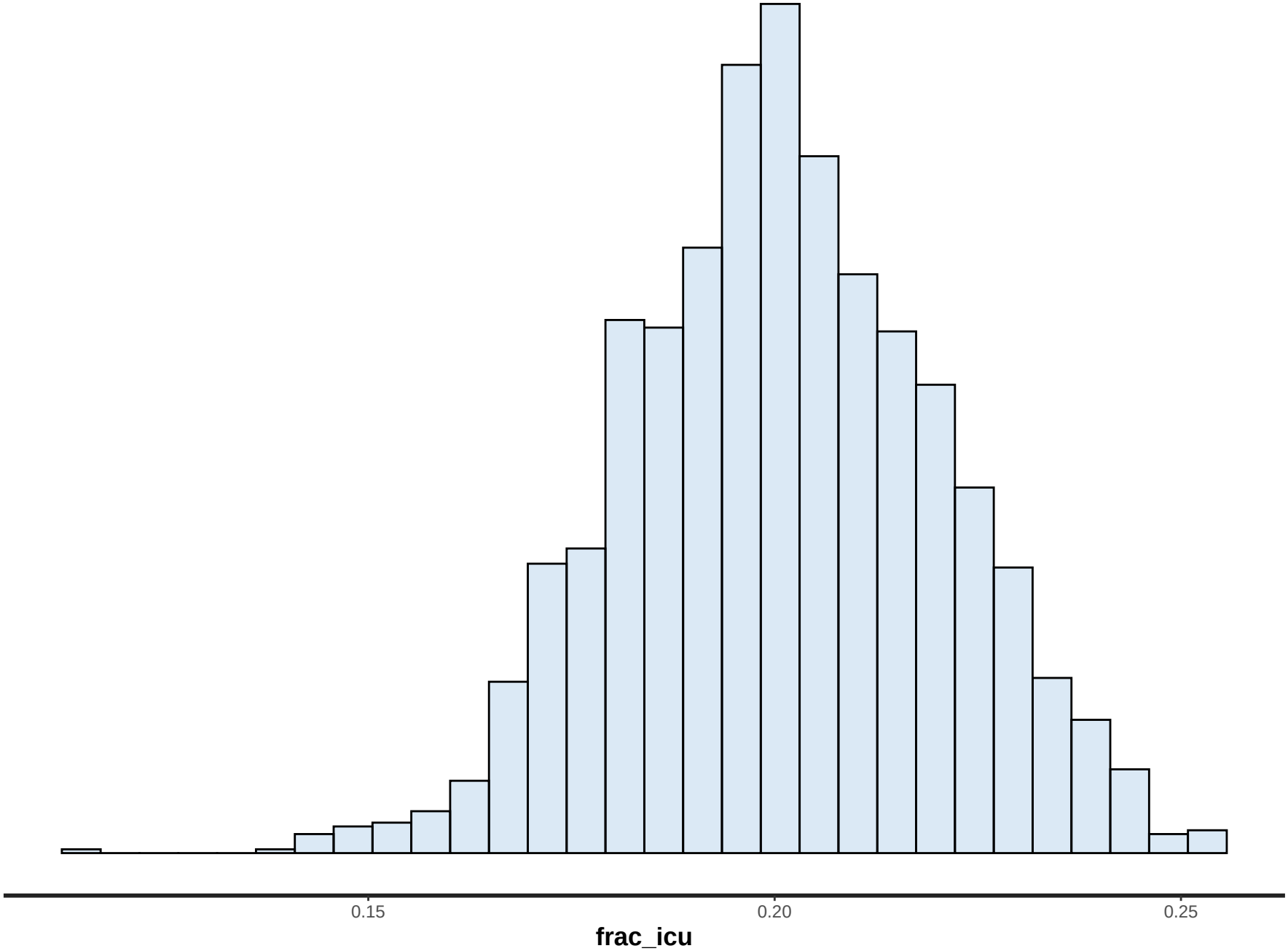

2
4
6
duration_rec_mild

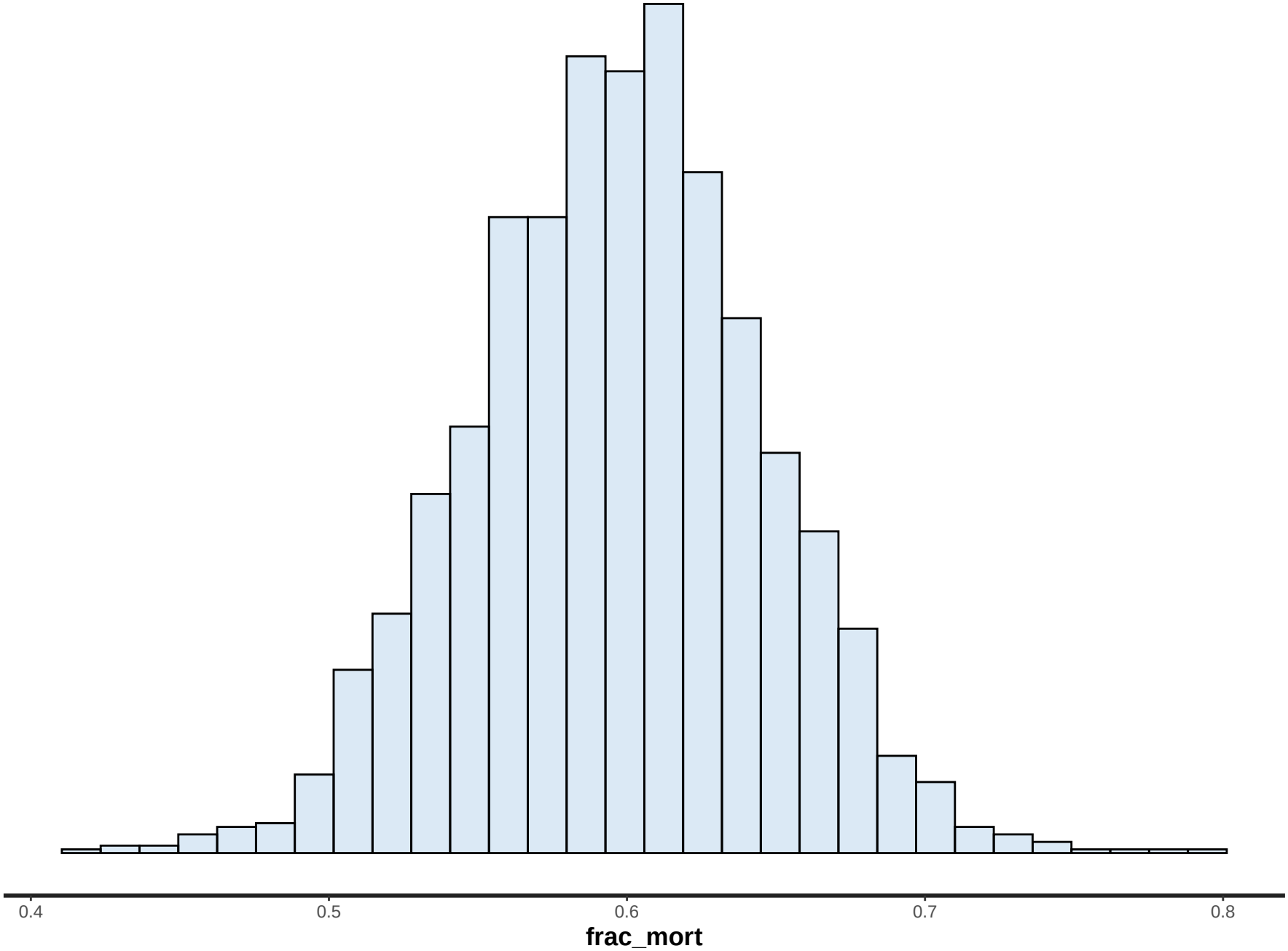

3
6
9
duration_pre_hosp

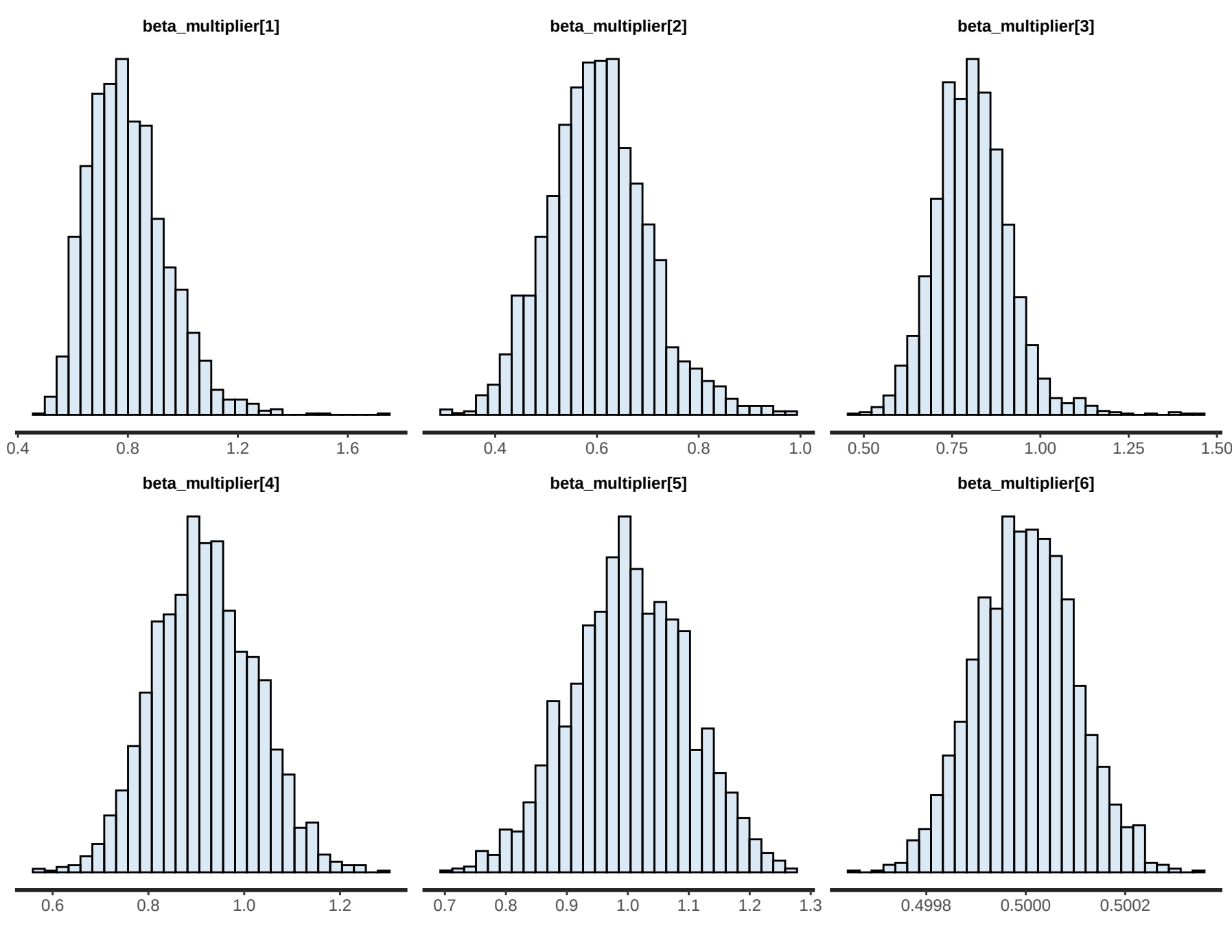

2
3
4
5
duration_hosp_mod

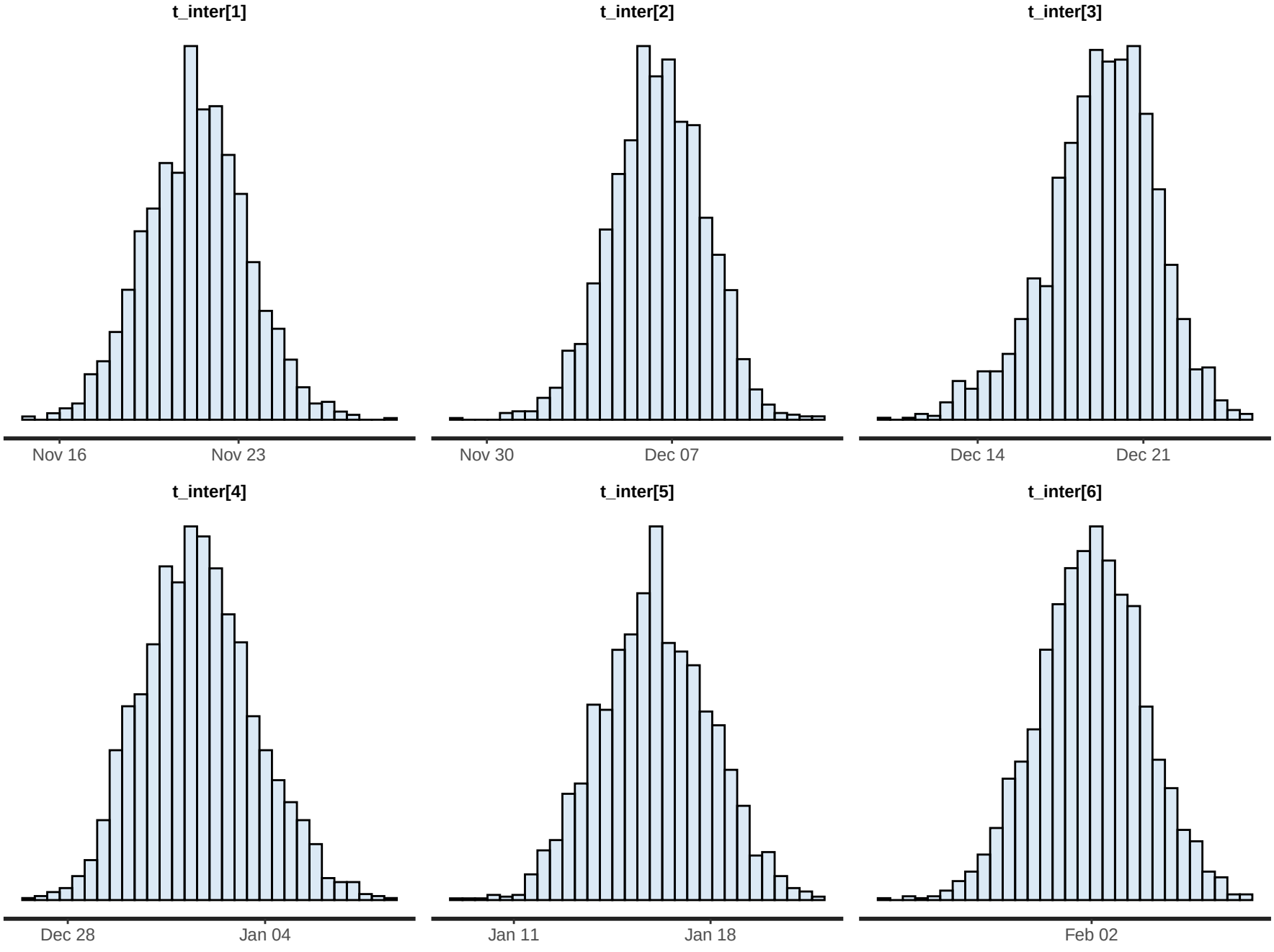

3
4
5
6
duration_hosp_icu

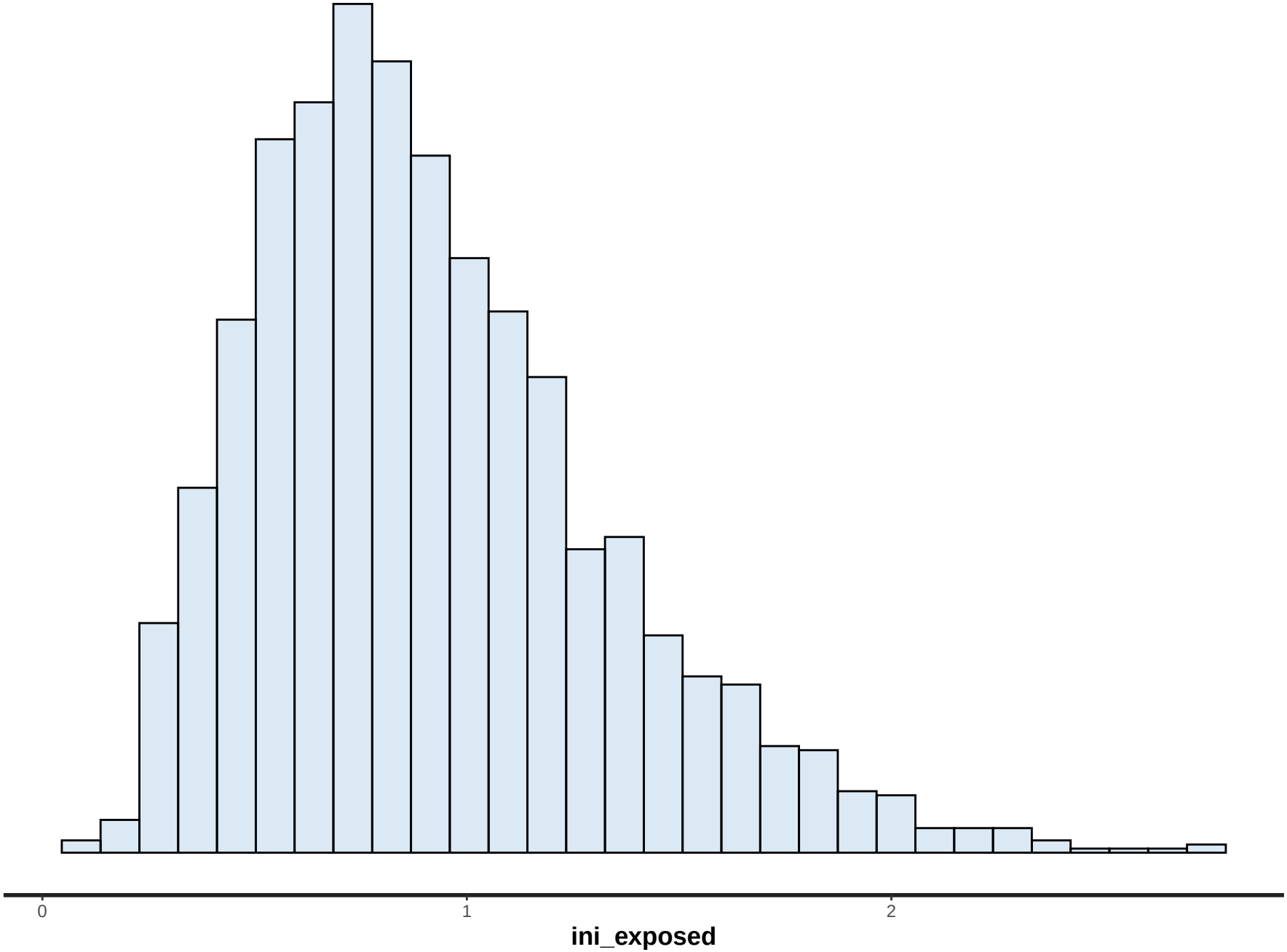

0.000
0.025
0.050
0.075
0.100
0.125
frac_hosp

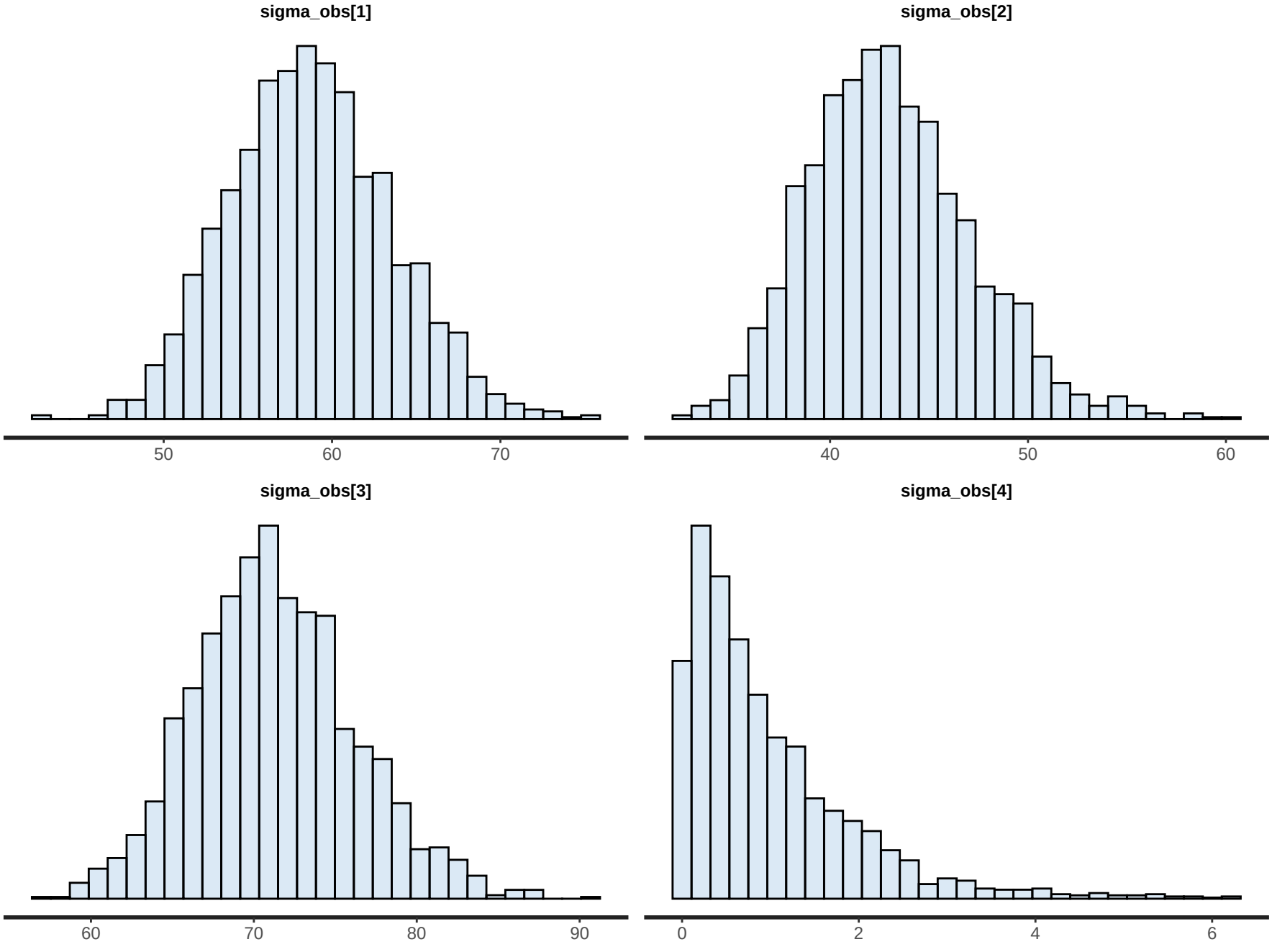

0.15
0.20
0.25
frac_icu


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
0.6
0.8
1.0
beta_multiplier[3]
0.50
0.75
1.00
1.25
1.50
beta_multiplier[4]
0.6
0.8
1.0
1.2
beta_multiplier[5]
0.7
0.8
0.9
1.0
1.1
1.2
1.3
beta_multiplier[6]
0.4998
0.5000
0.5002


t_inter[1]
Nov 16
Nov 23
t_inter[2]
Nov 30
Dec 07
t_inter[3]
Dec 14
Dec 21
t_inter[4]
Dec 28
Jan 04
t_inter[5]
Jan 11
Jan 18
t_inter[6]
Feb 02


0
1
2
ini_exposed


sigma_obs[1]
50
60
70
sigma_obs[2]
40
50
60
sigma_obs[3]
60
70
80
90
sigma_obs[4]
0
2
4
6