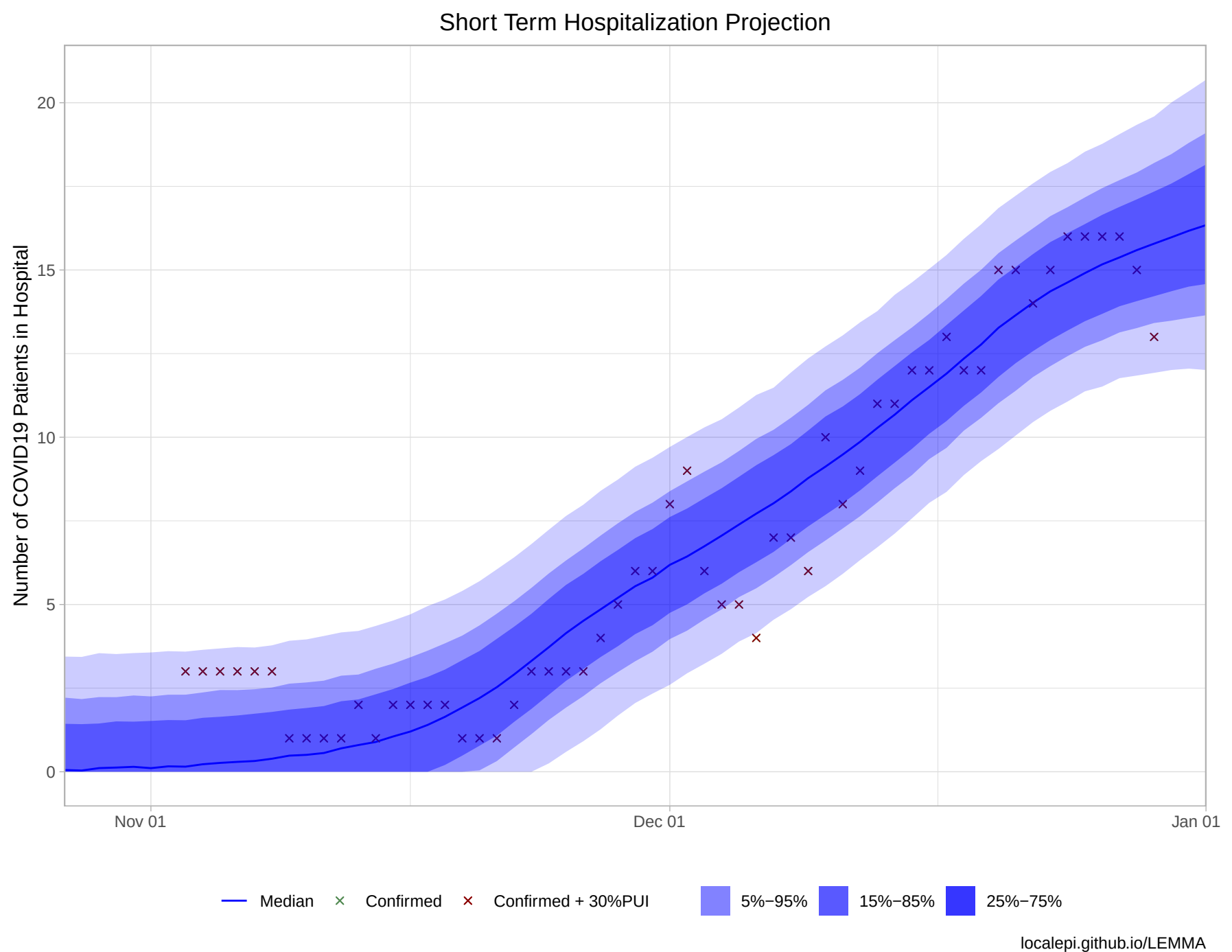
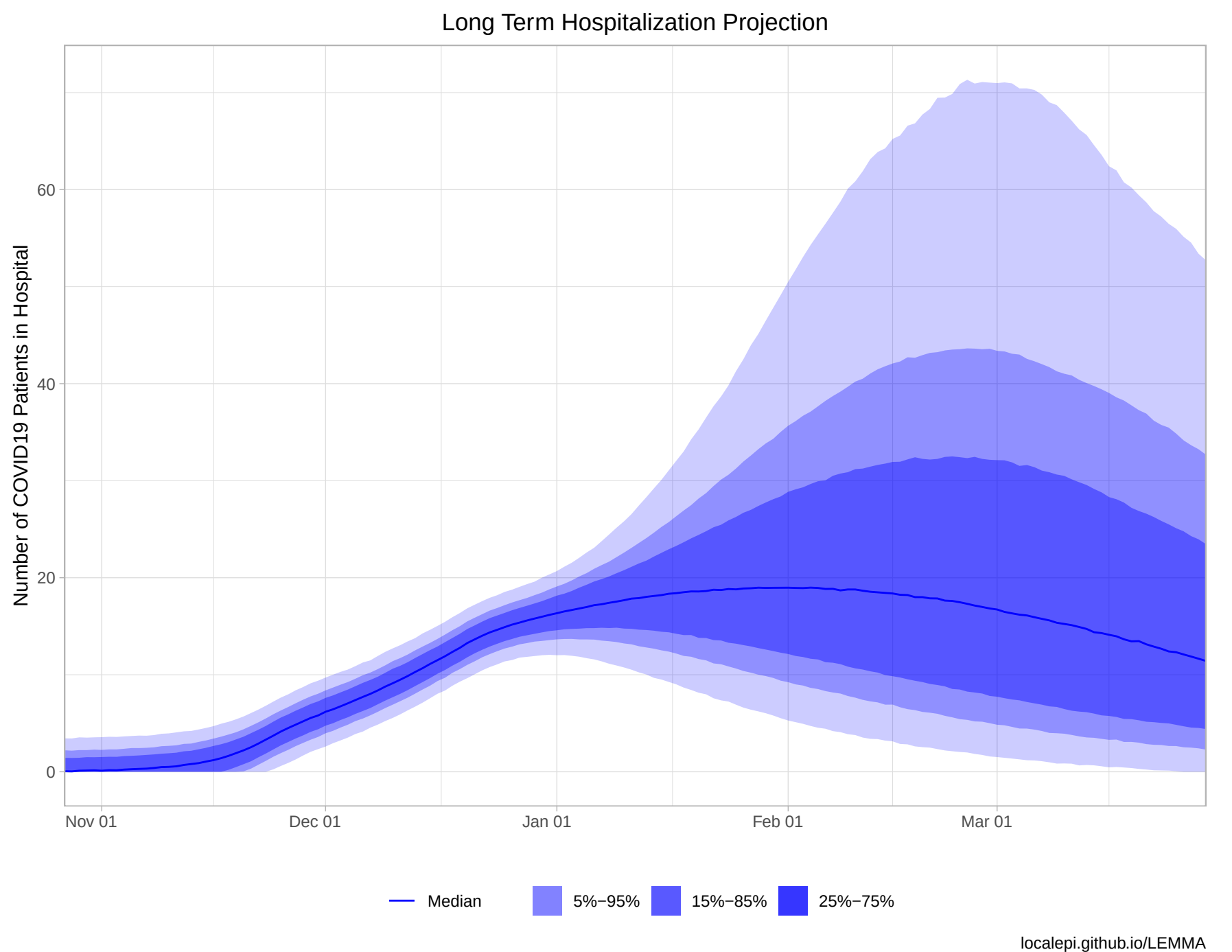
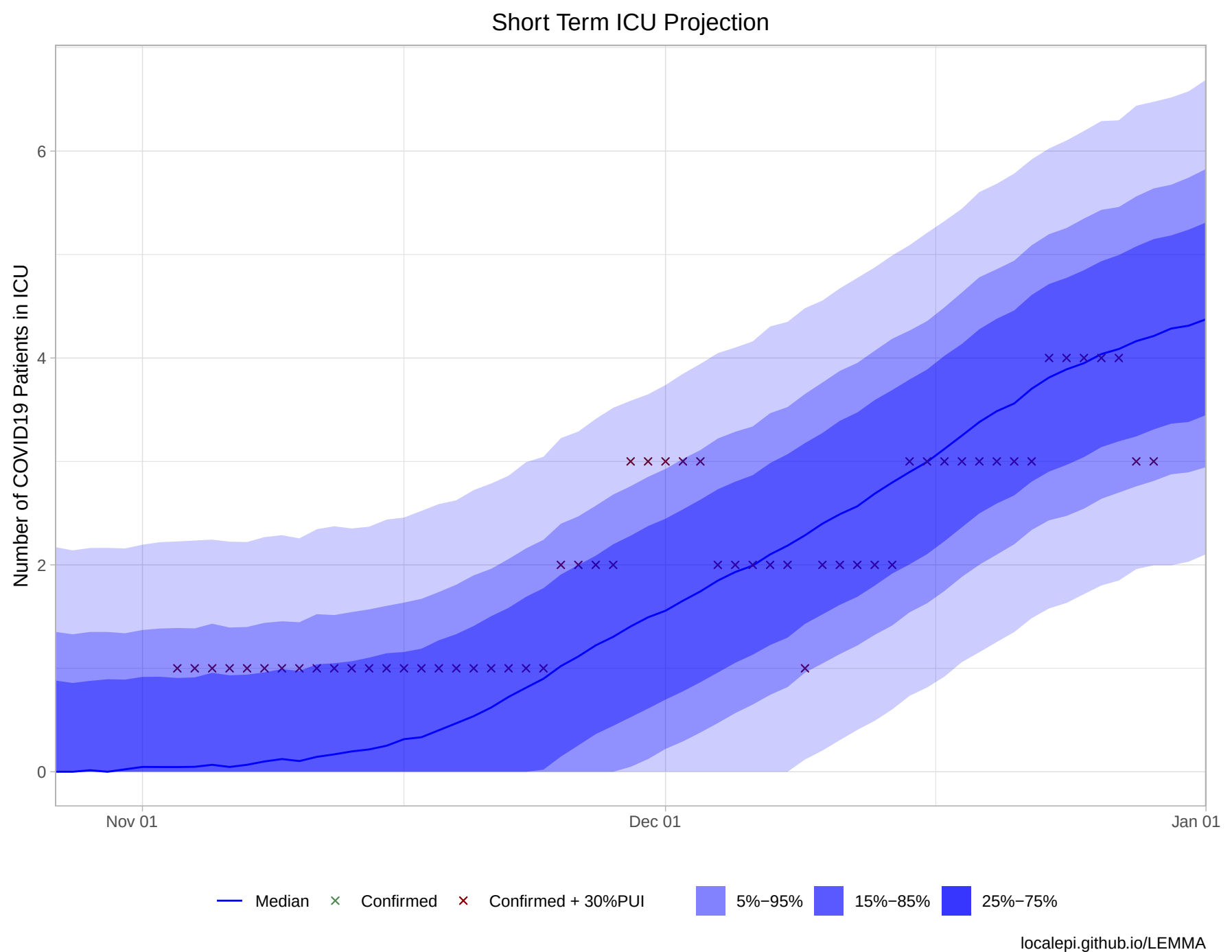
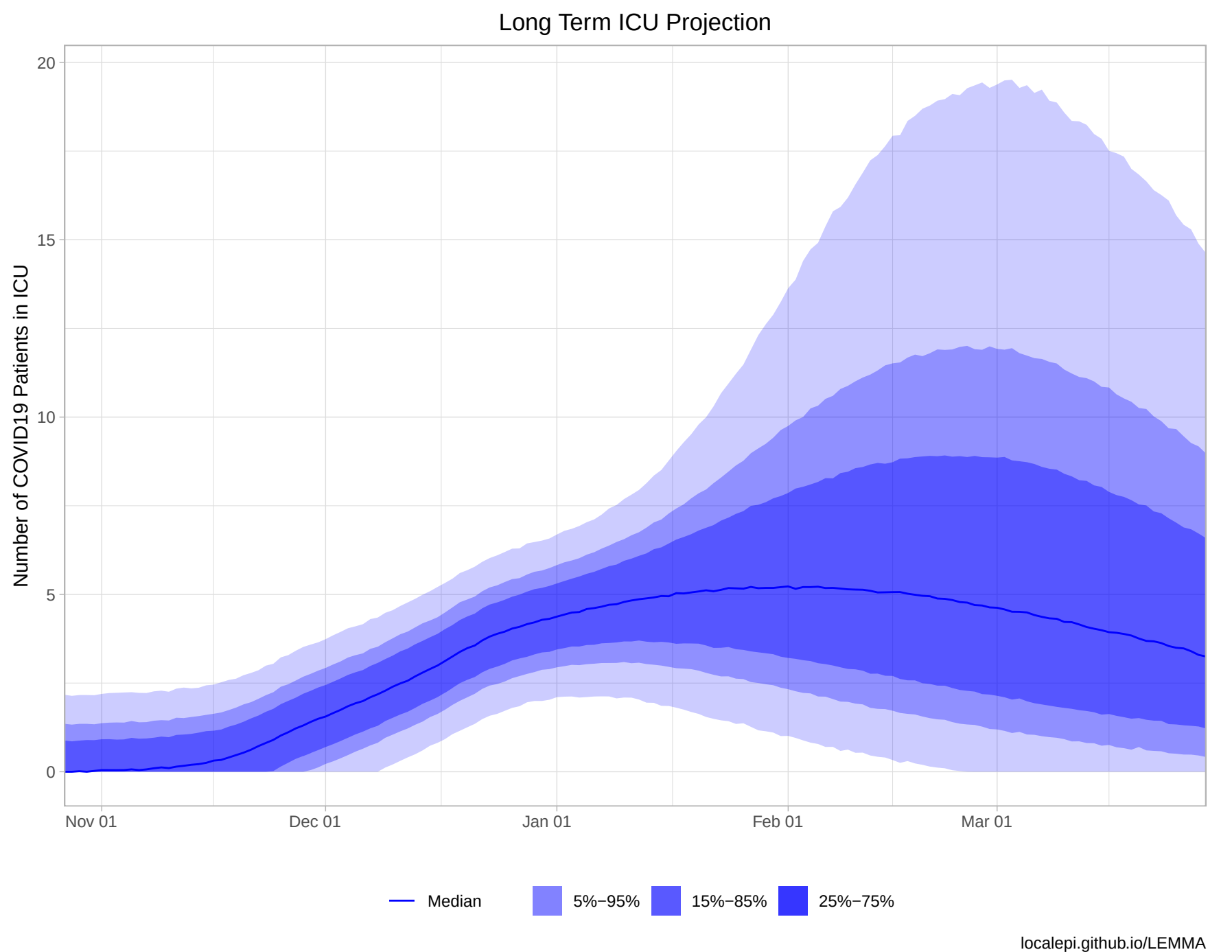
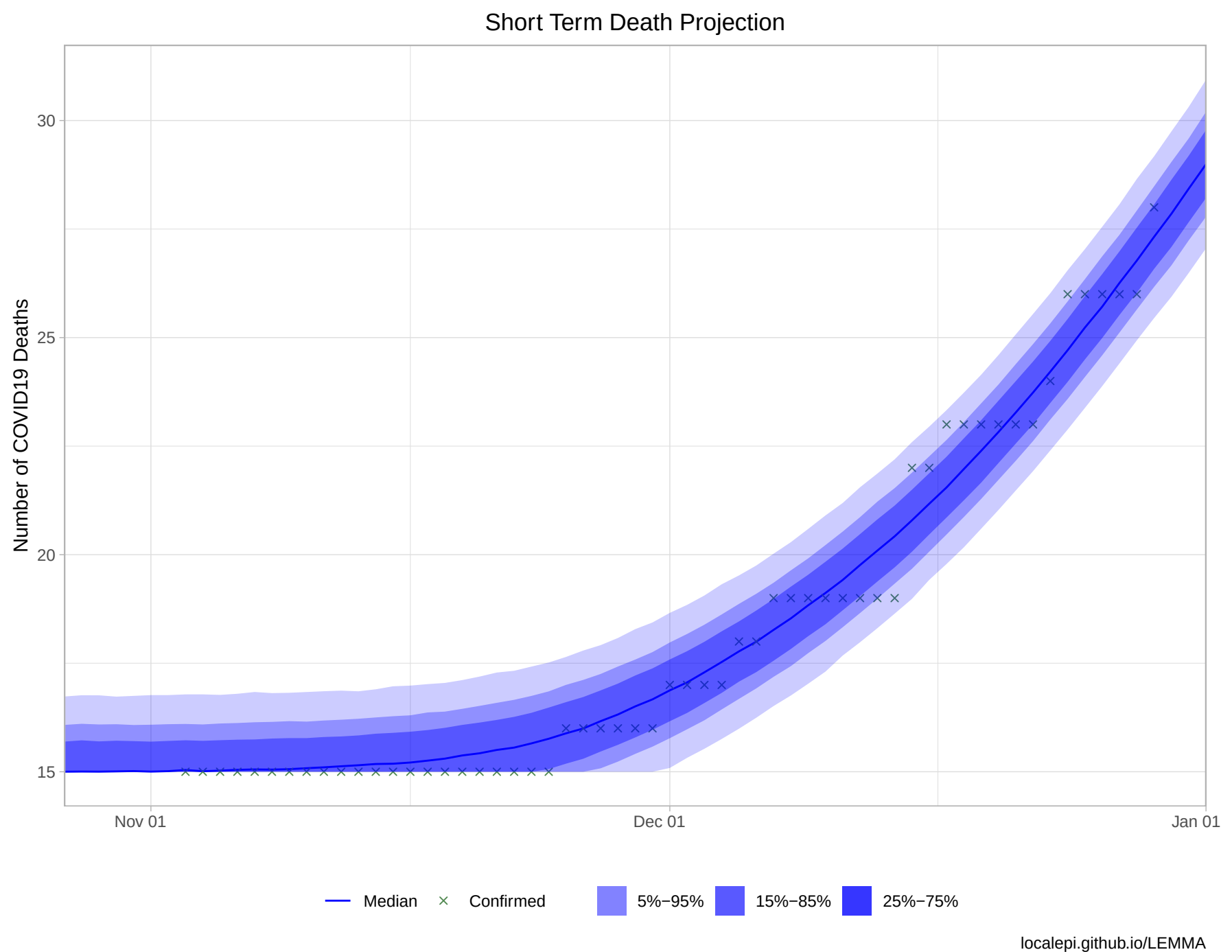
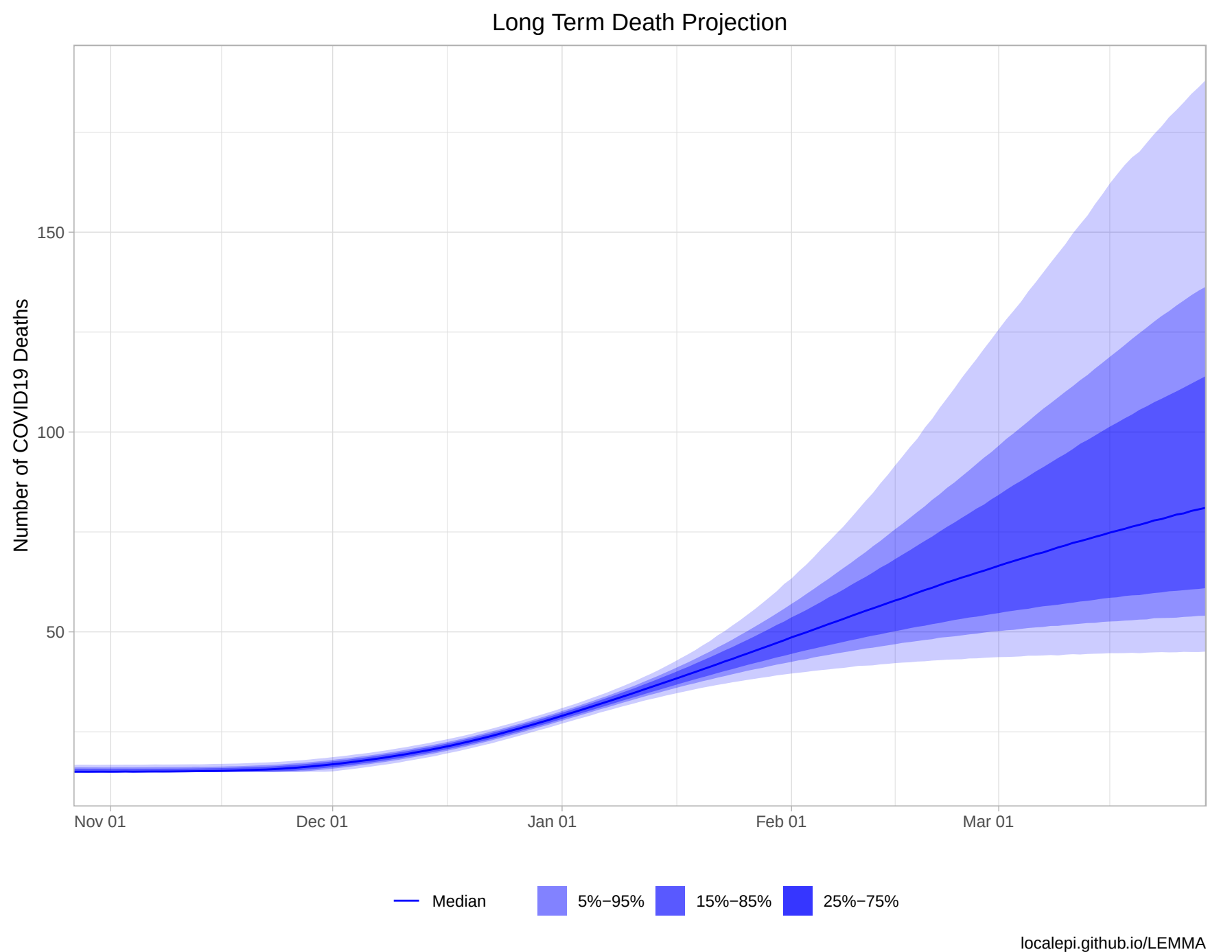

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
5
10
15
20
Nov 01
Dec 01
Jan 01
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

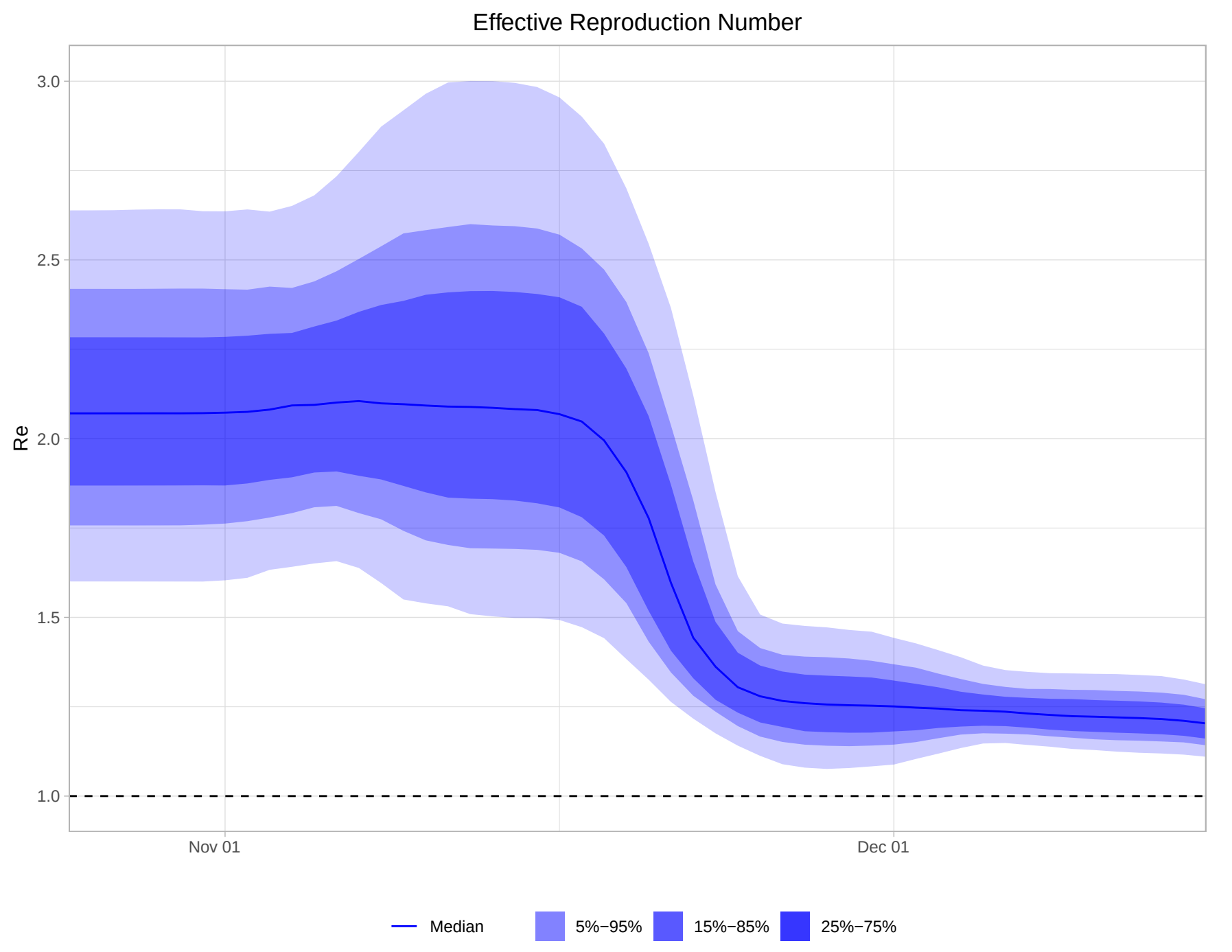

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
20
40
60
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


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
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

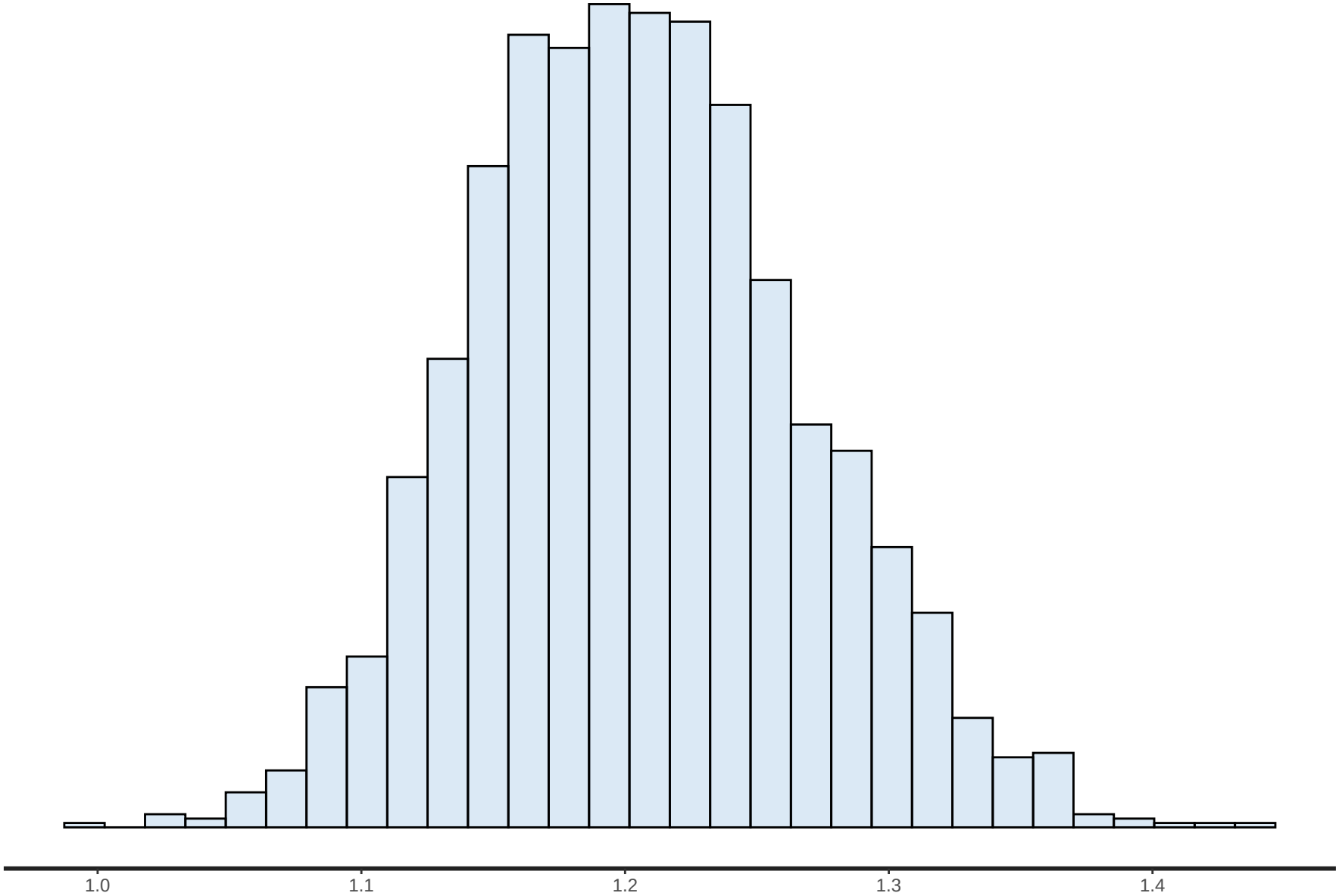

Short Term Death Projection
Number of COVID19 Deaths
30
25
20
15
Nov 01
Dec 01
Jan 01
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

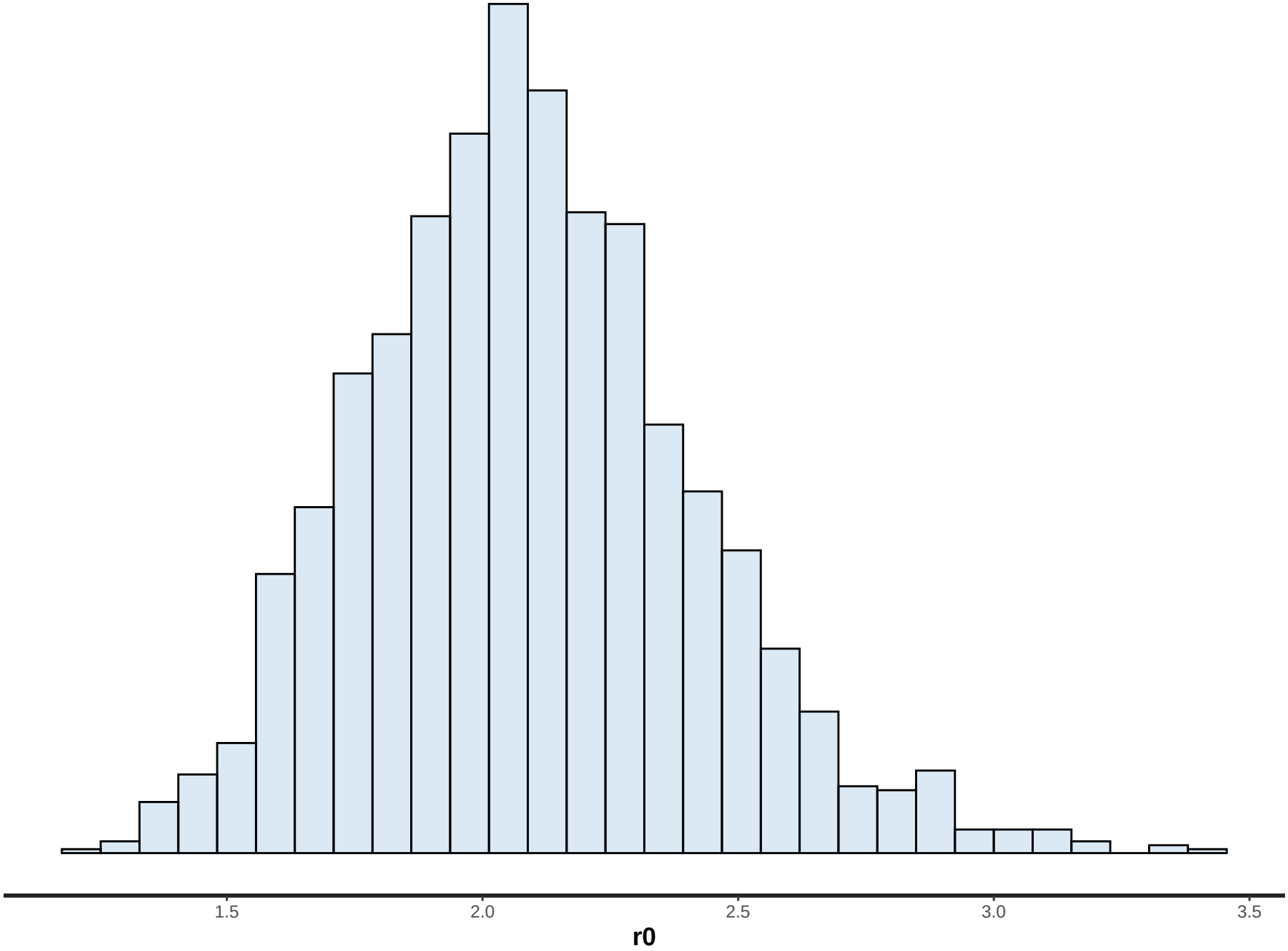

Long Term Death Projection
Number of COVID19 Deaths
150
100
50
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

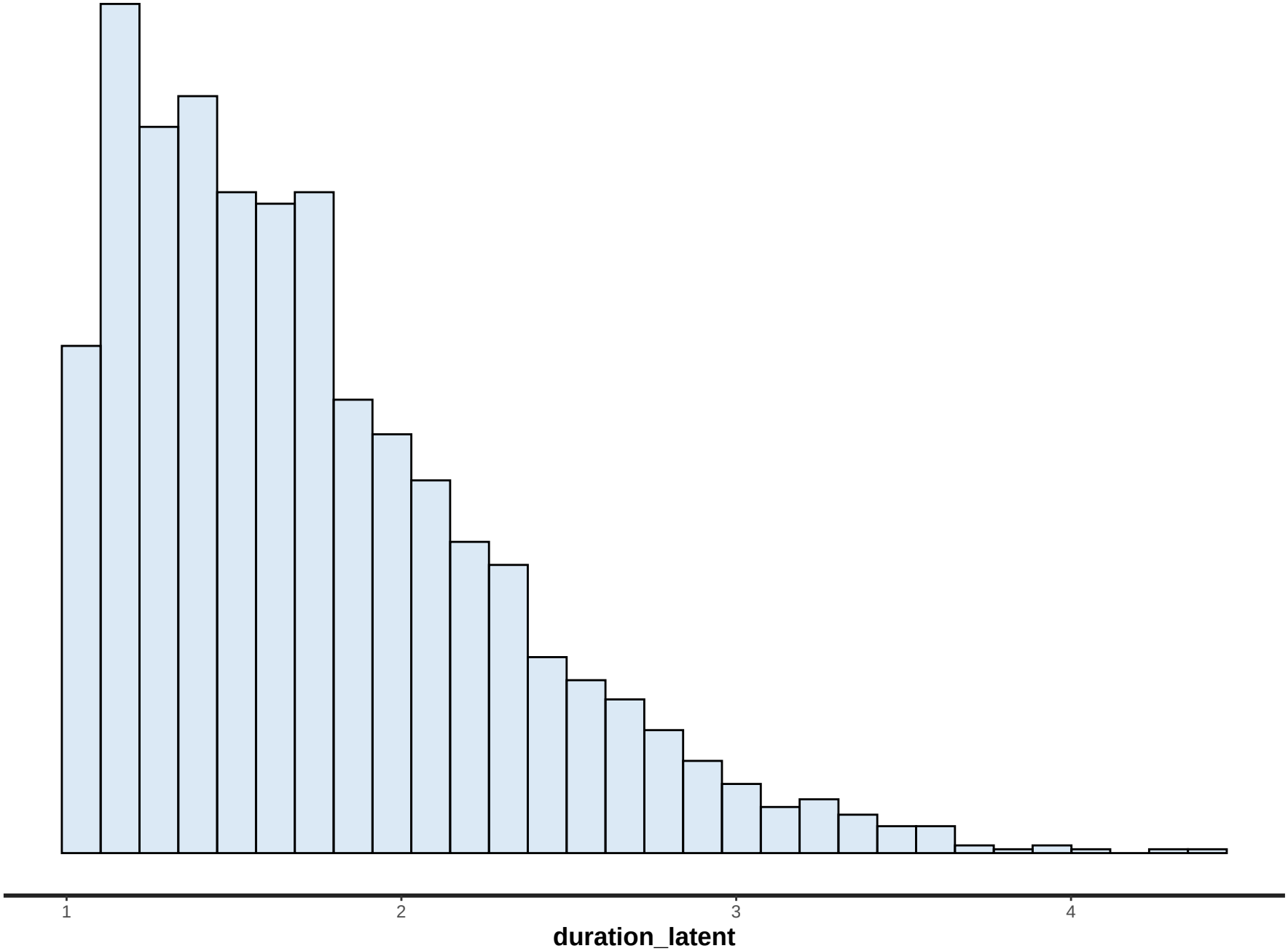

Effective Reproduction Number
Re
3.0
2.5
2.0
1.5
1.0
Nov 01
Dec 01
Median
5%−95%
15%−85%
25%−75%

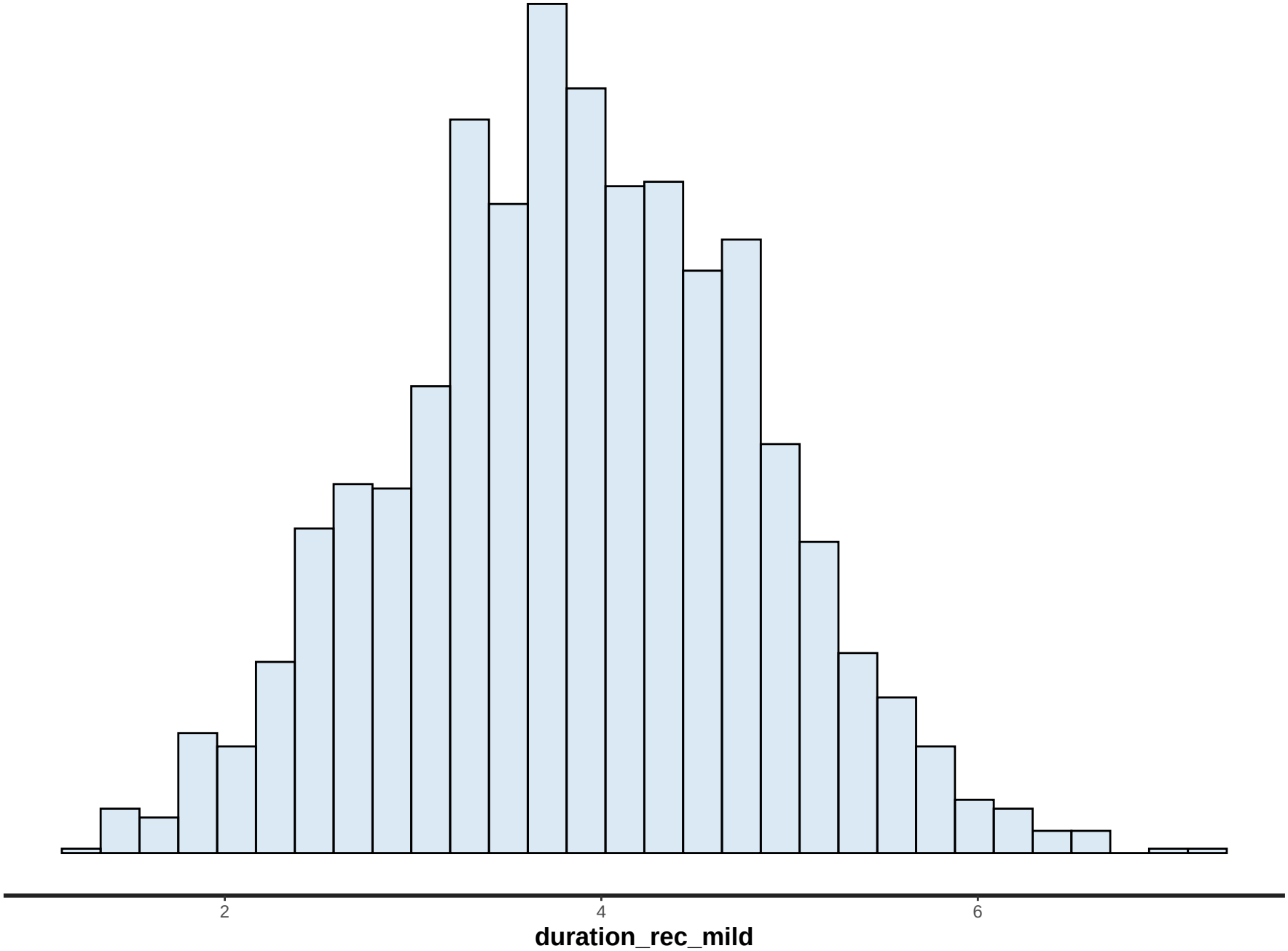
Rt as of 2020−12−15

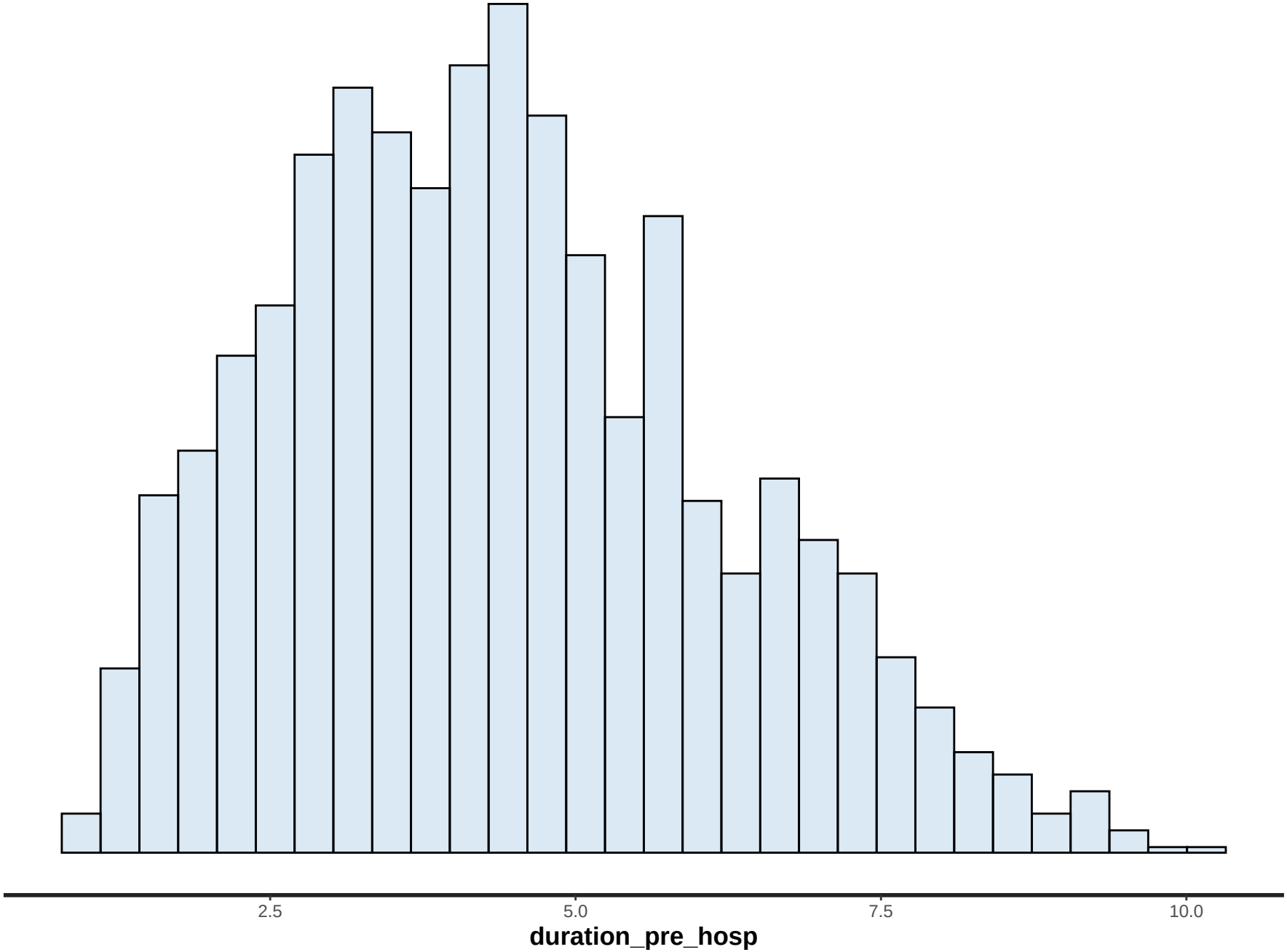
5%	10%	25%	50%	75%	90%	95%
1.11	1.13	1.16	1.20	1.25	1.29	1.31

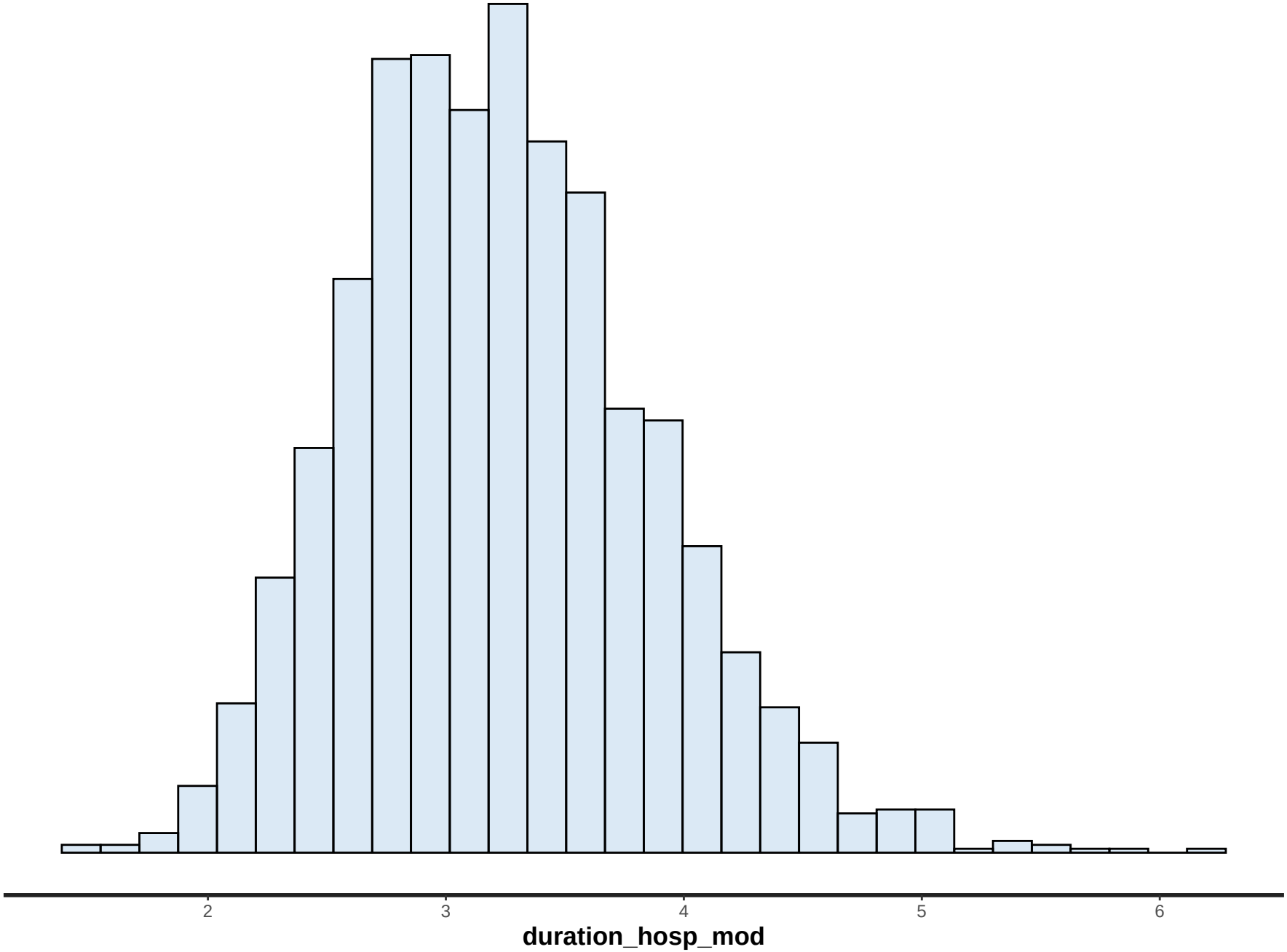


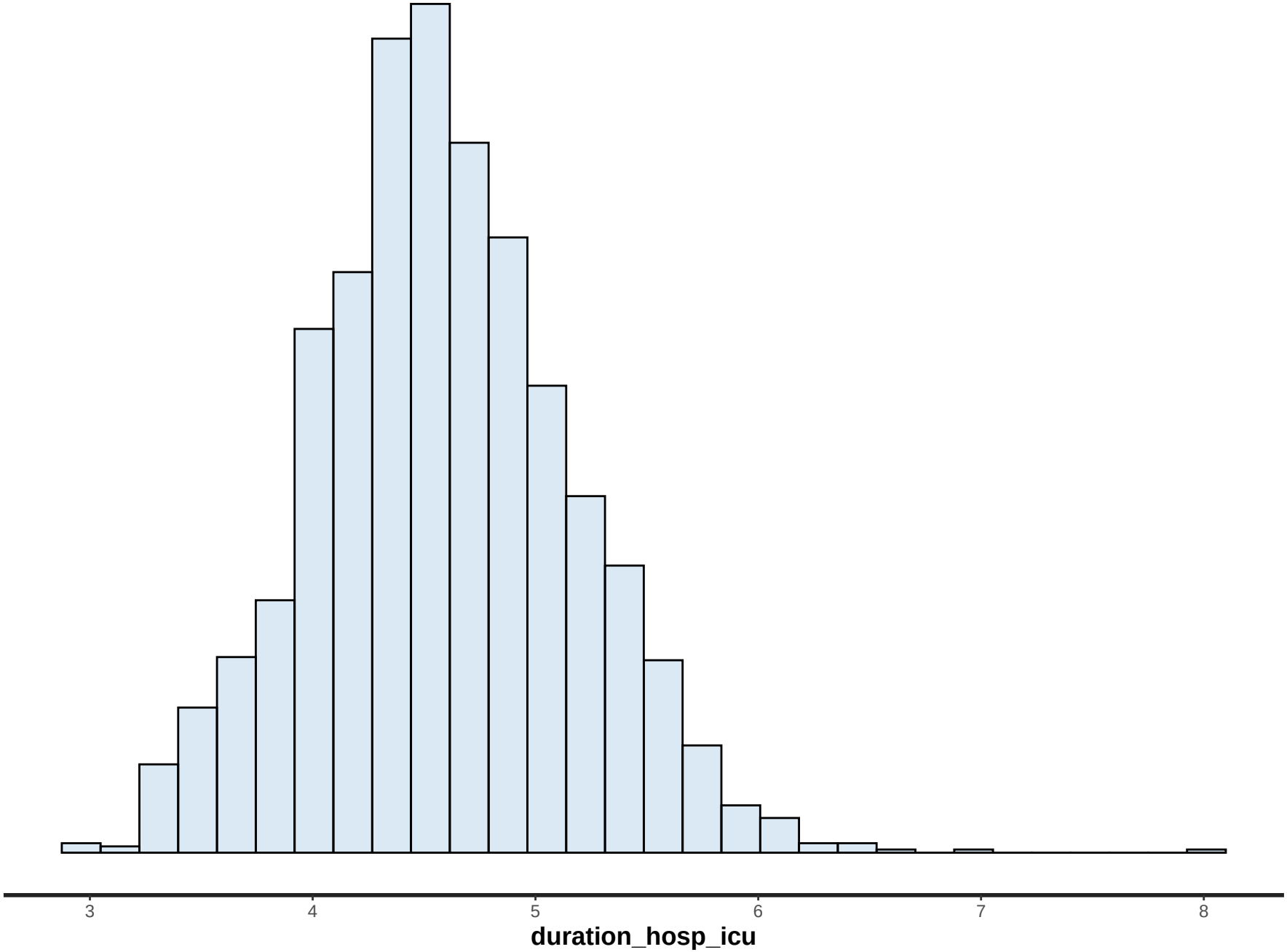

1.5
2.0
2.5
3.0
3.5
r0

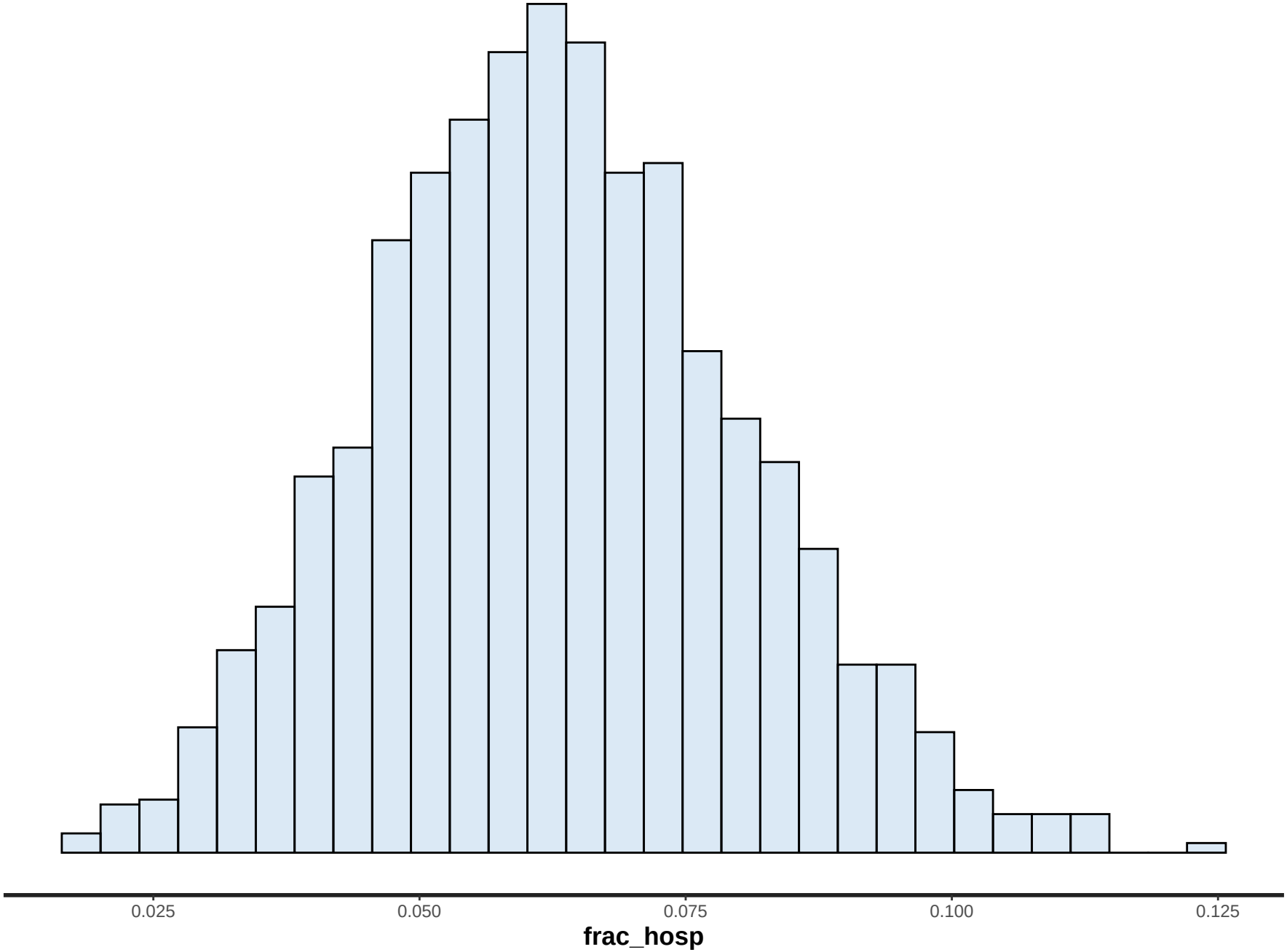

1
2
3
4
duration_latent

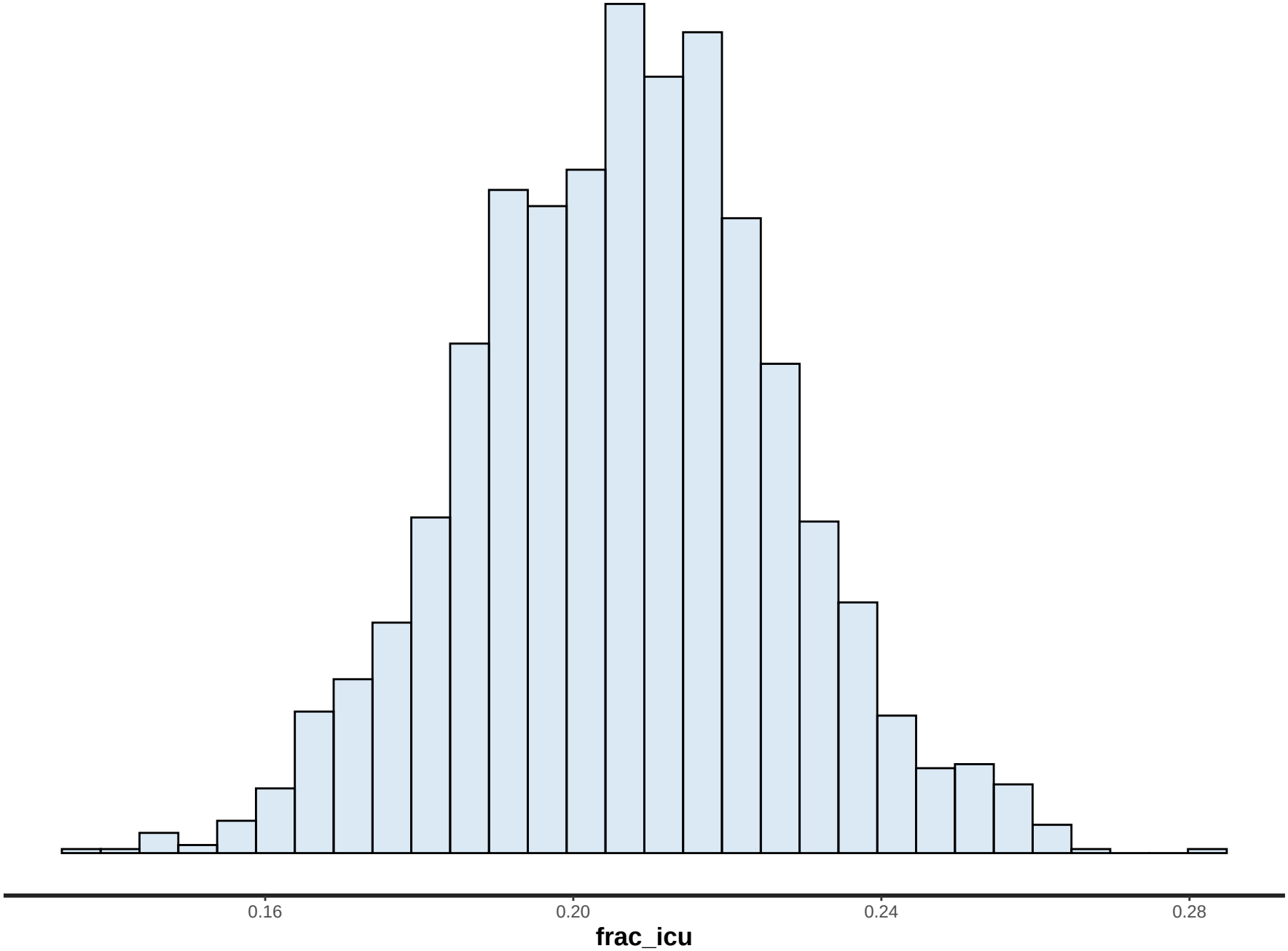

2
4
6
duration_rec_mild

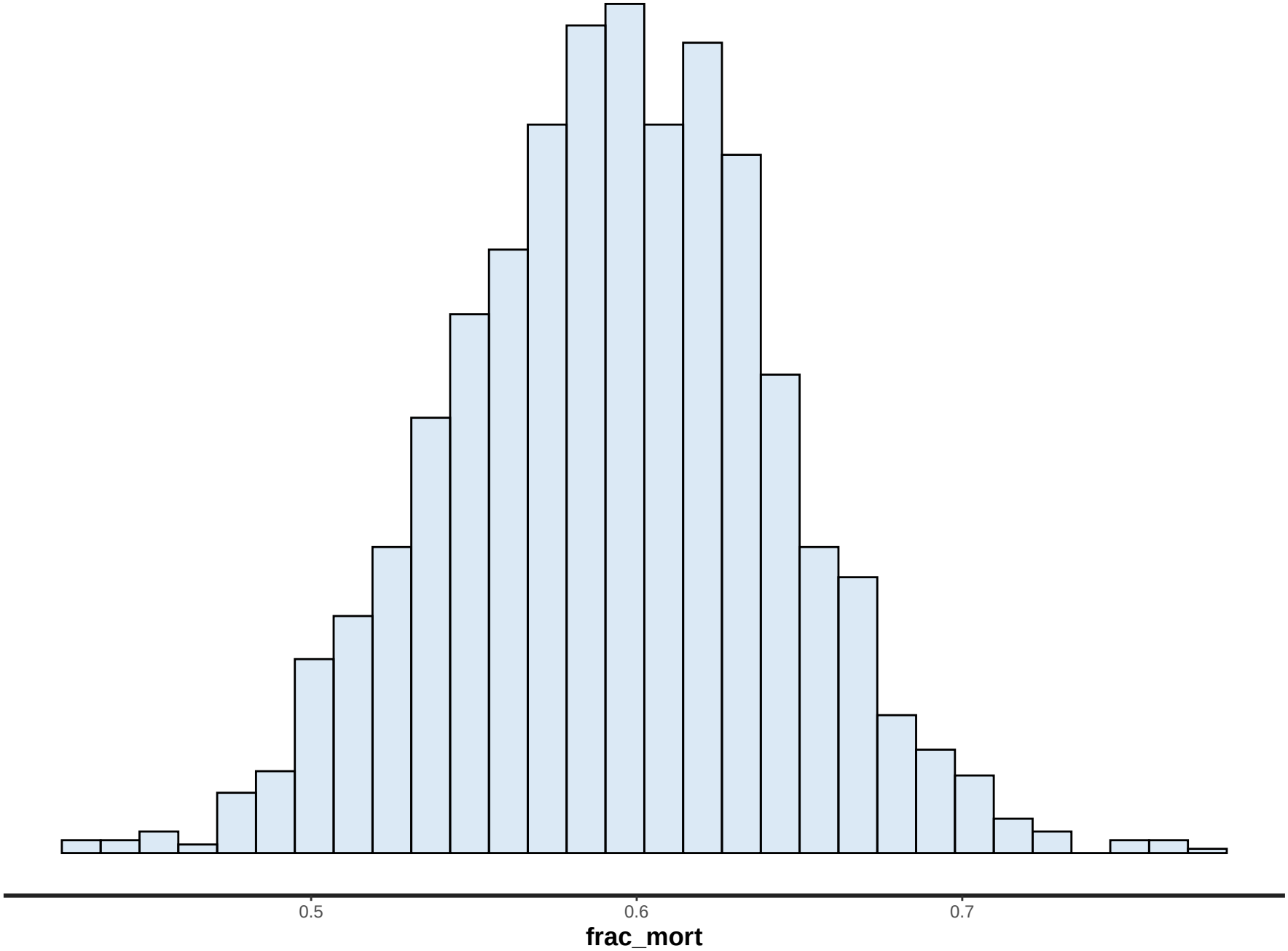

2.5
5.0
7.5
10.0
duration_pre_hosp

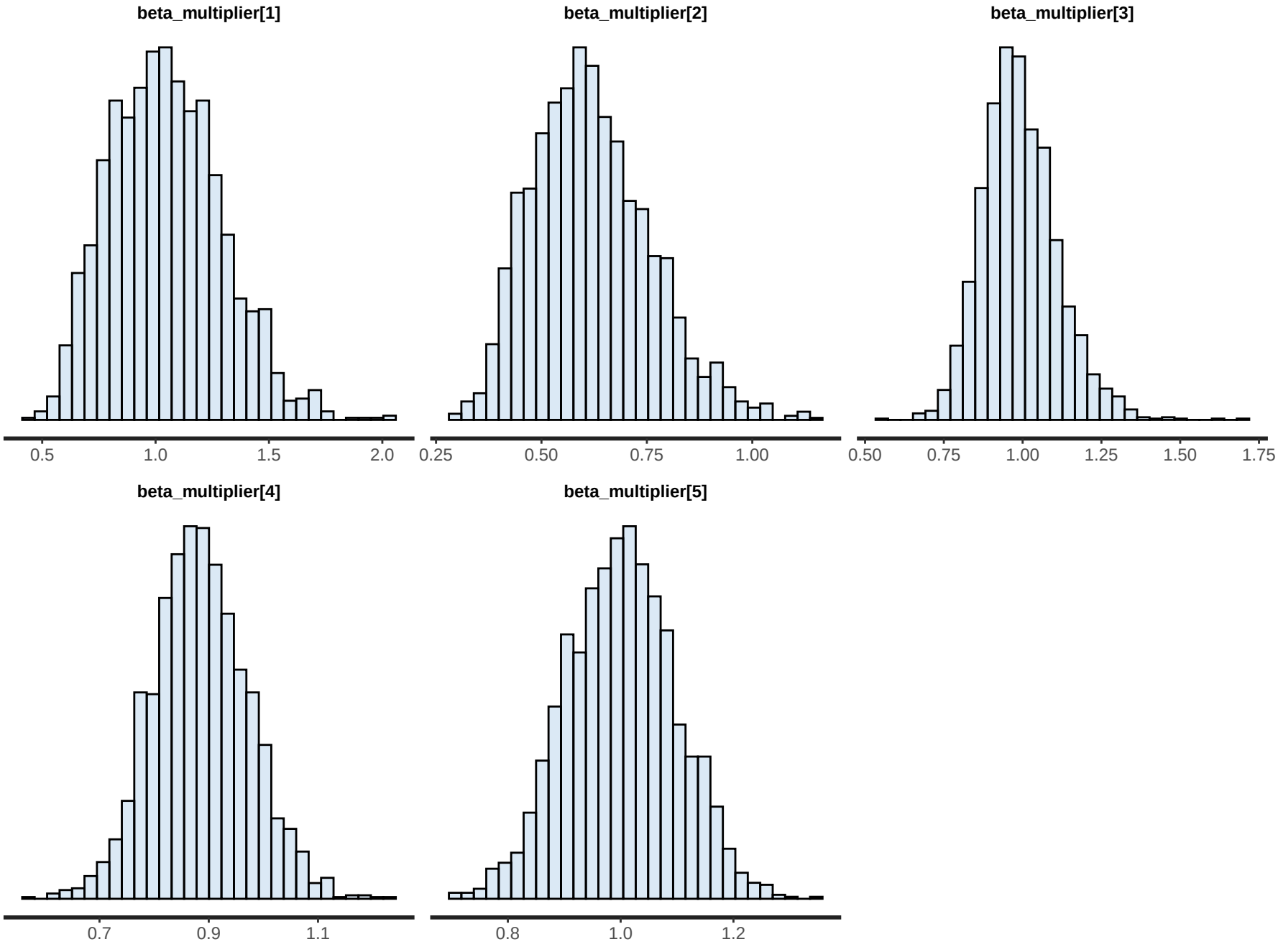

2
3
4
5
6
duration_hosp_mod

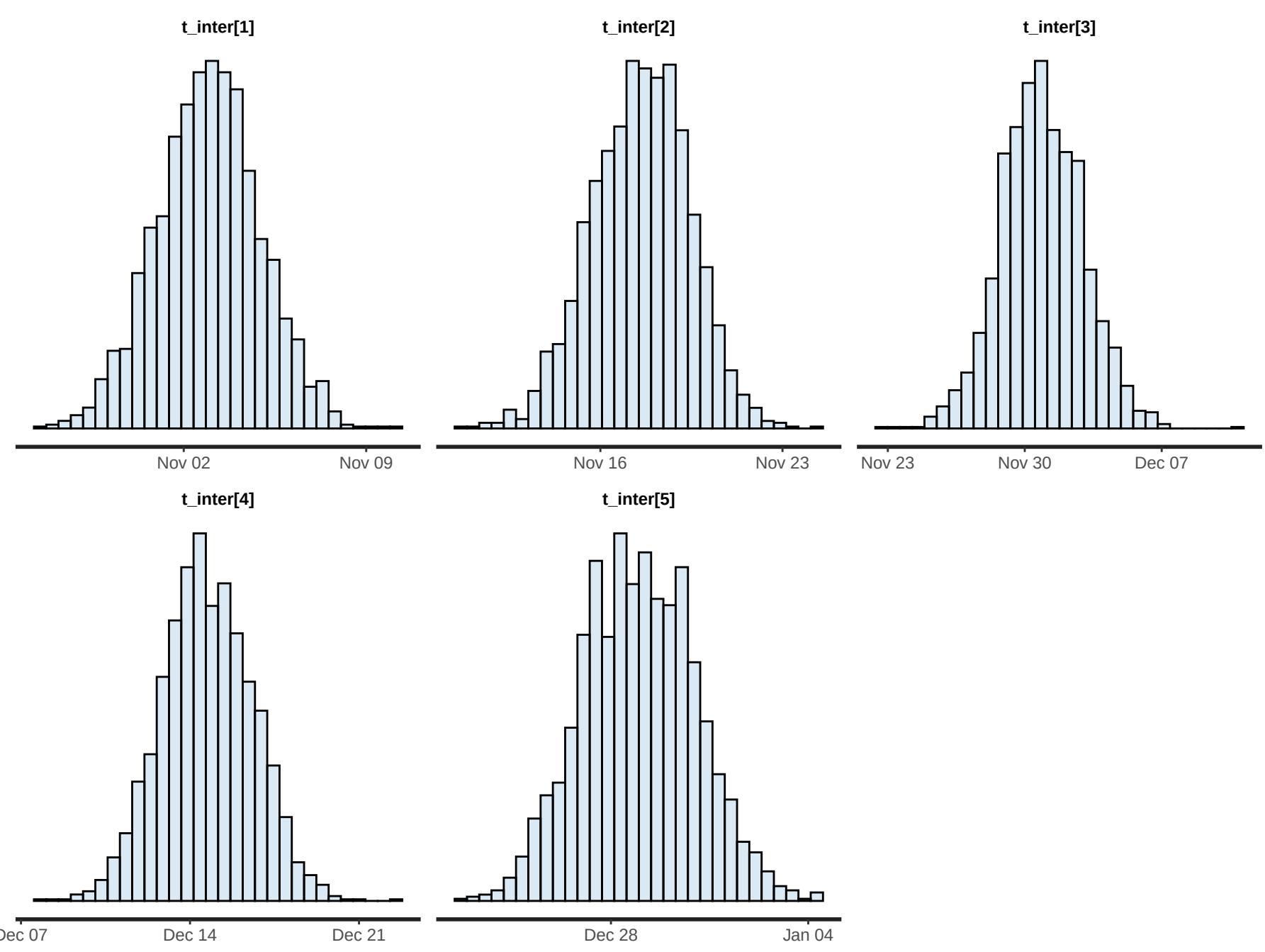

3
4
5
6
7
8
duration_hosp_icu

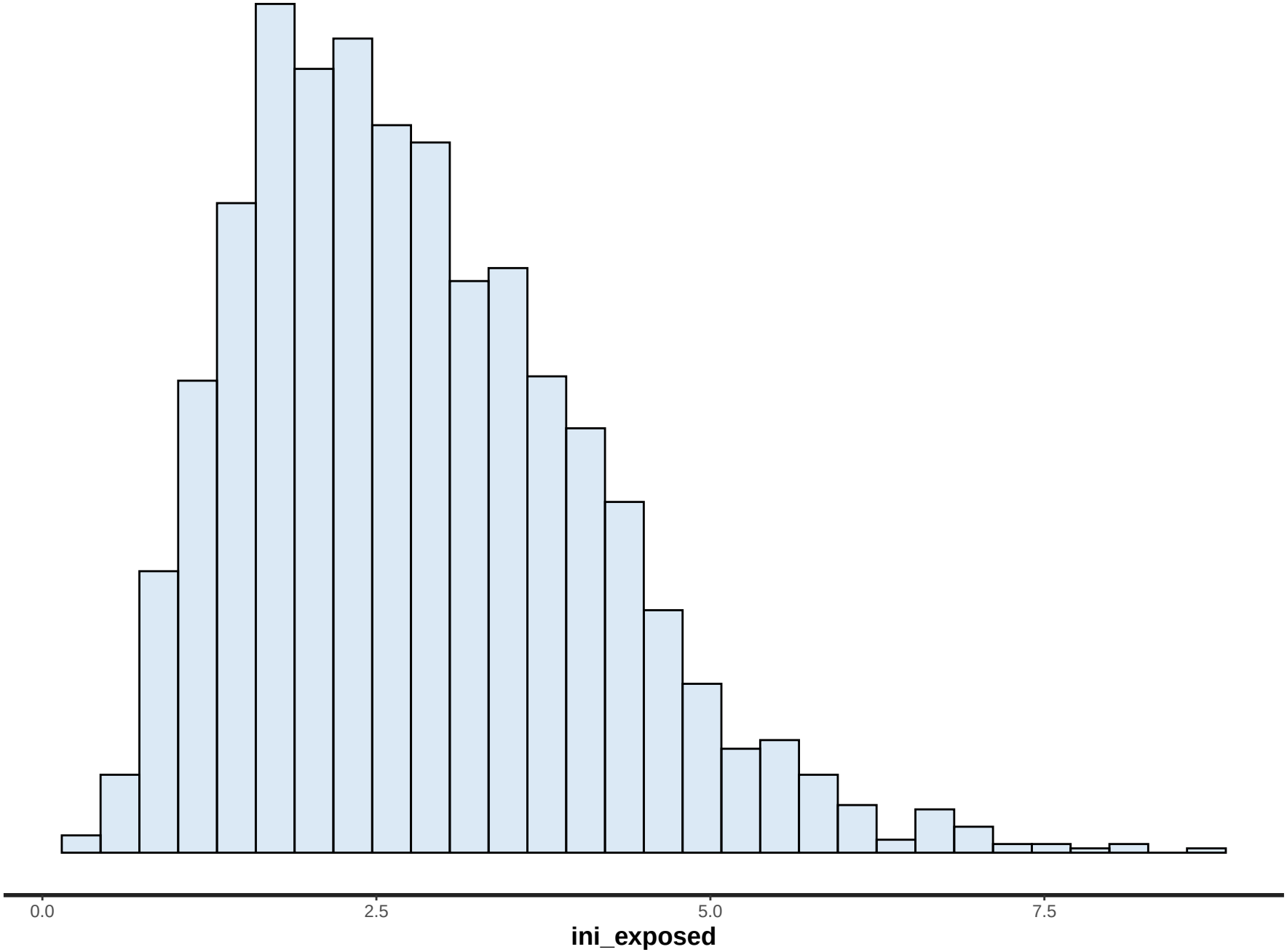

0.025
0.050
0.075
0.100
0.125
frac_hosp

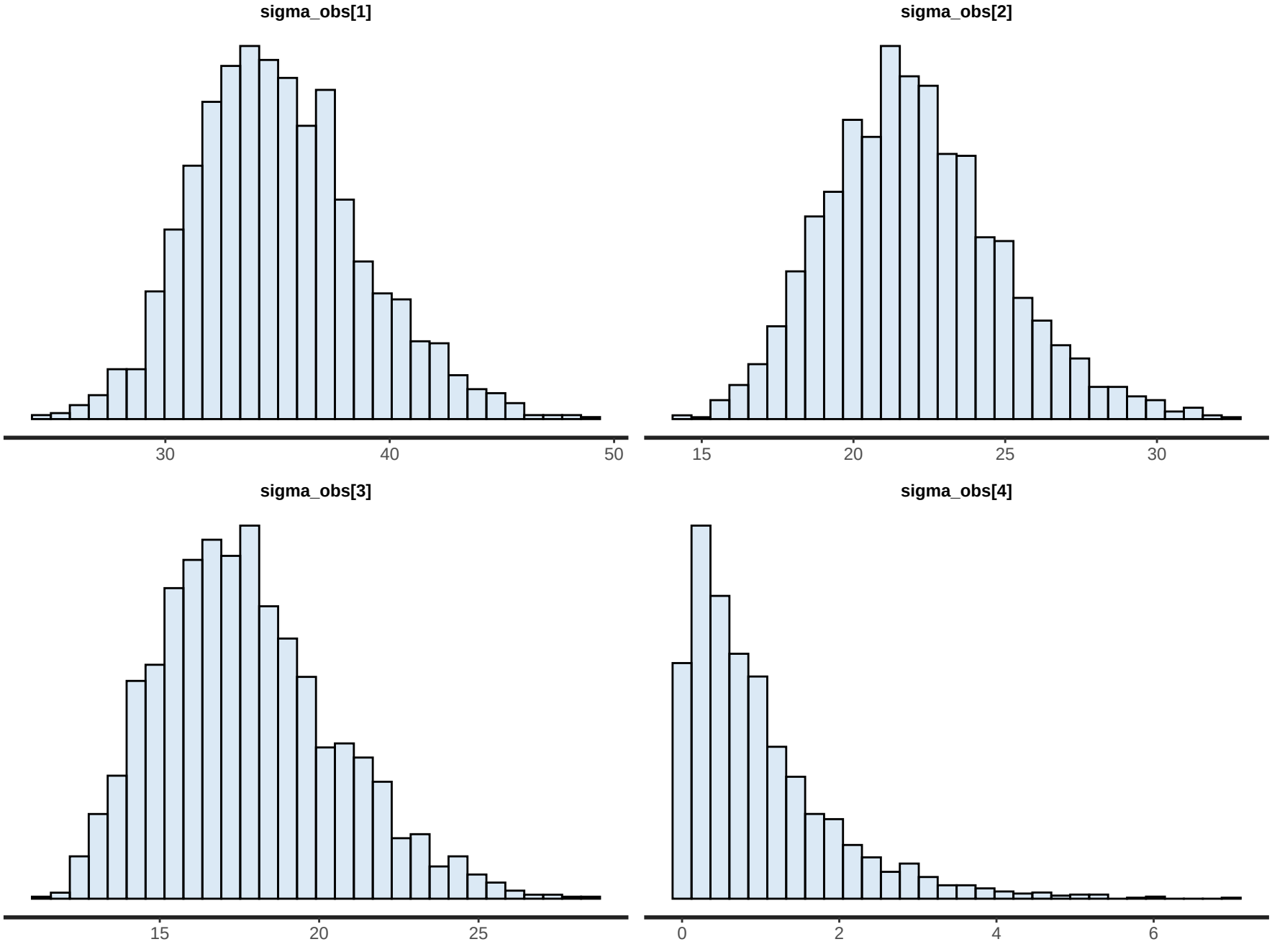

0.16
0.20
0.24
0.28
frac_icu


0.5
0.6
0.7
frac_mort


beta_multiplier[1]
0.5
1.0
1.5
2.0
beta_multiplier[2]
0.25
0.50
0.75
1.00
beta_multiplier[3]
0.50
0.75
1.00
1.25
1.50
1.75
beta_multiplier[4]
0.7
0.9
1.1
beta_multiplier[5]
0.8
1.0
1.2


t_inter[1]
Nov 02
Nov 09
t_inter[2]
Nov 16
Nov 23
t_inter[3]
Nov 23
Nov 30
Dec 07
t_inter[4]
Dec 07
Dec 14
Dec 21
t_inter[5]
Dec 28
Jan 04


0.0
2.5
5.0
7.5
ini_exposed


sigma_obs[1]
30
40
50
sigma_obs[2]
15
20
25
30
sigma_obs[3]
15
20
25
sigma_obs[4]
0
2
4
6