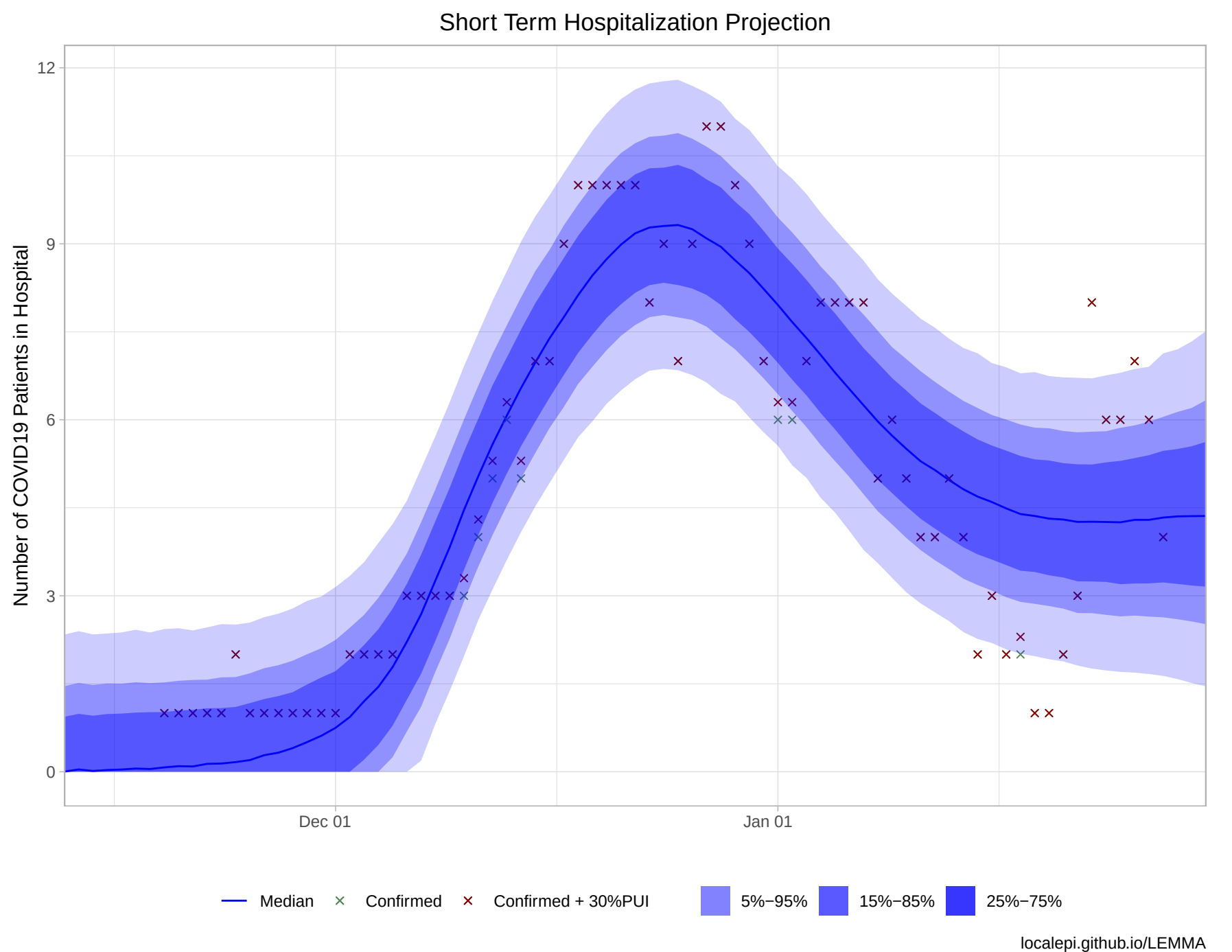
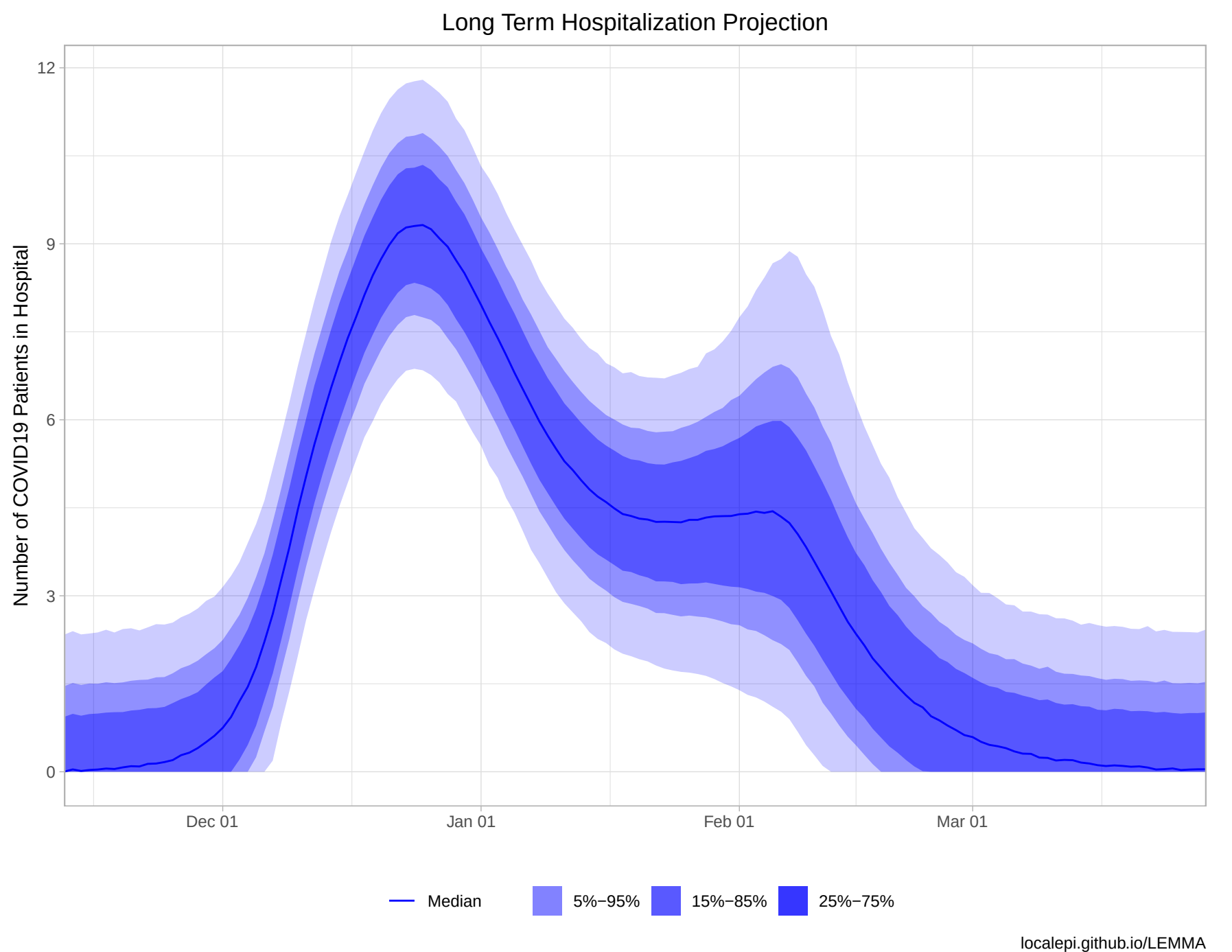
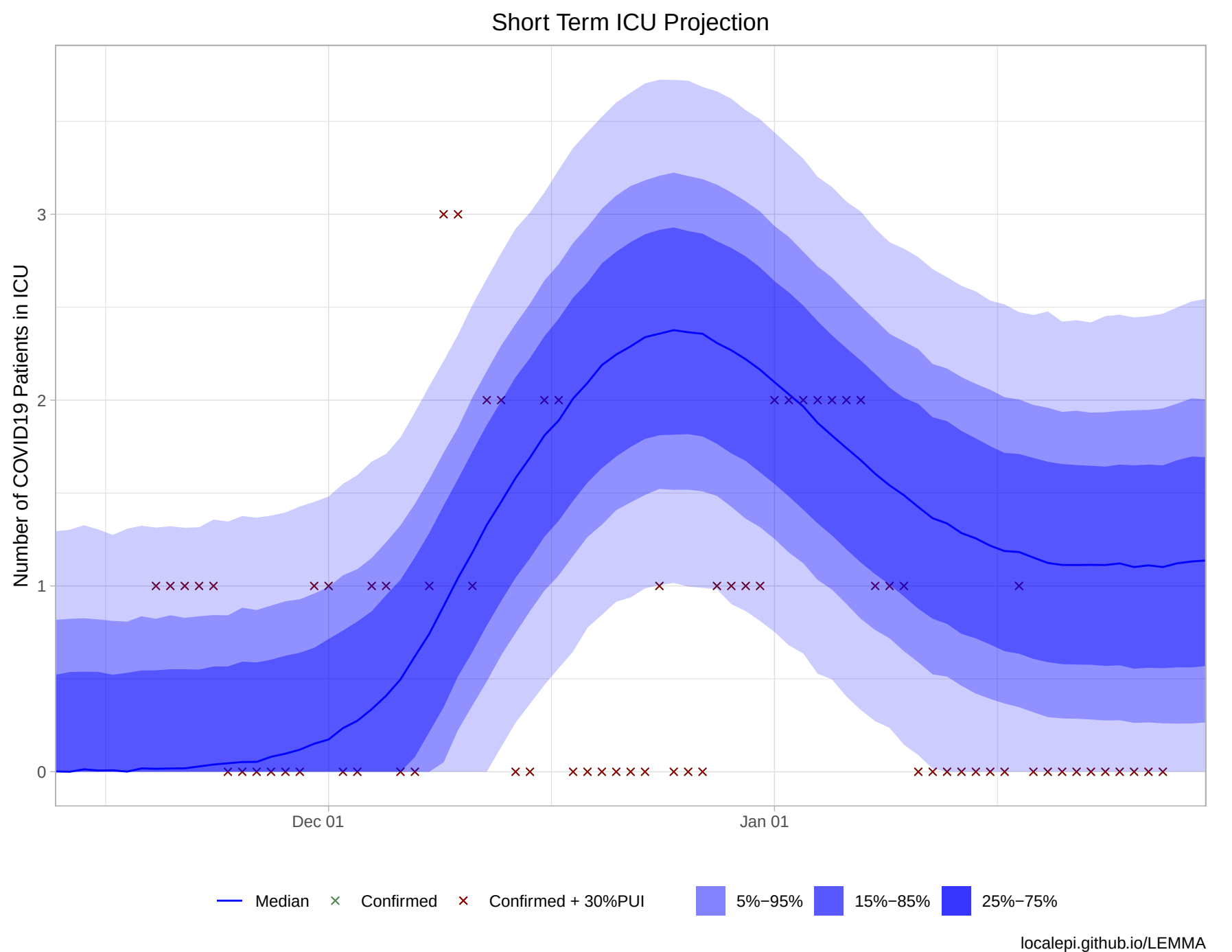
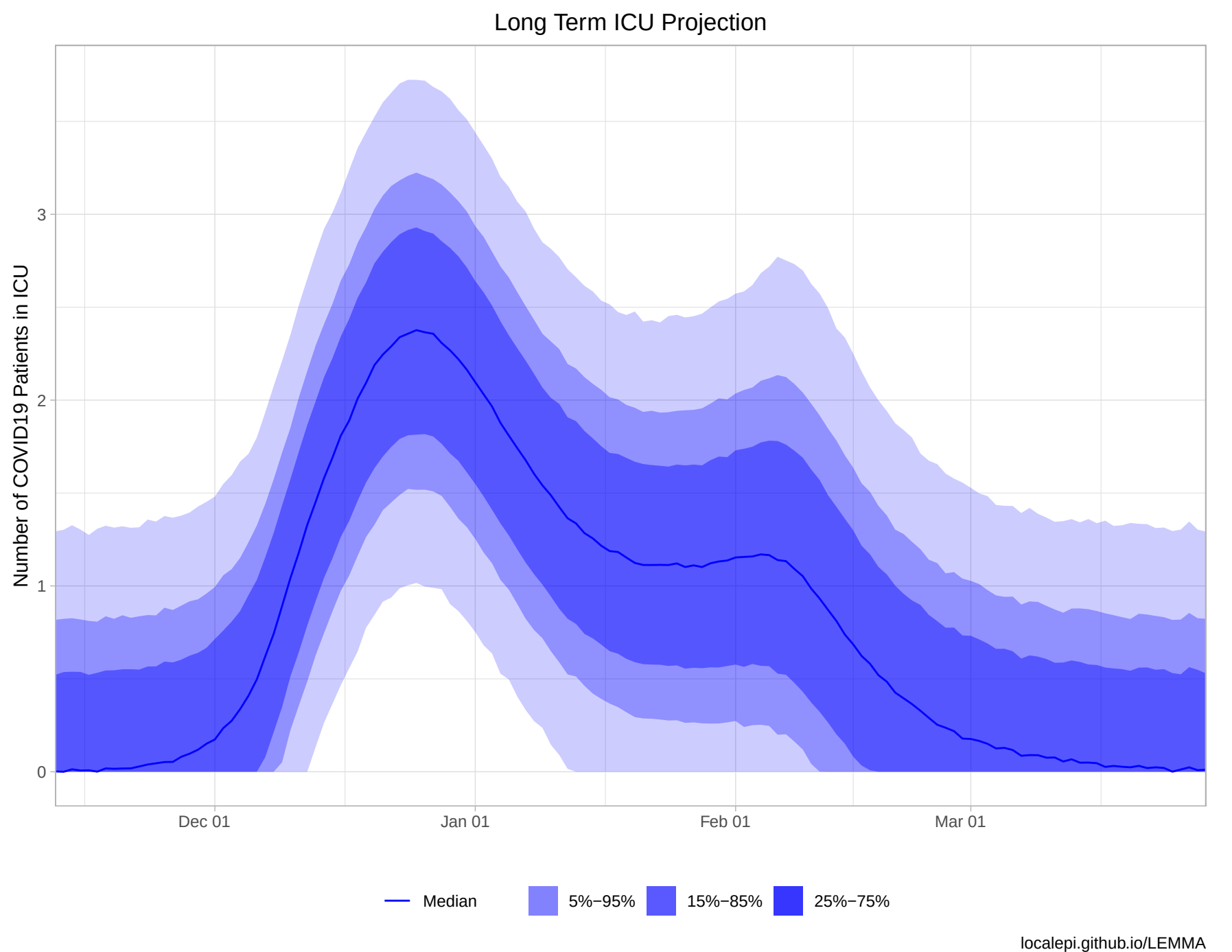
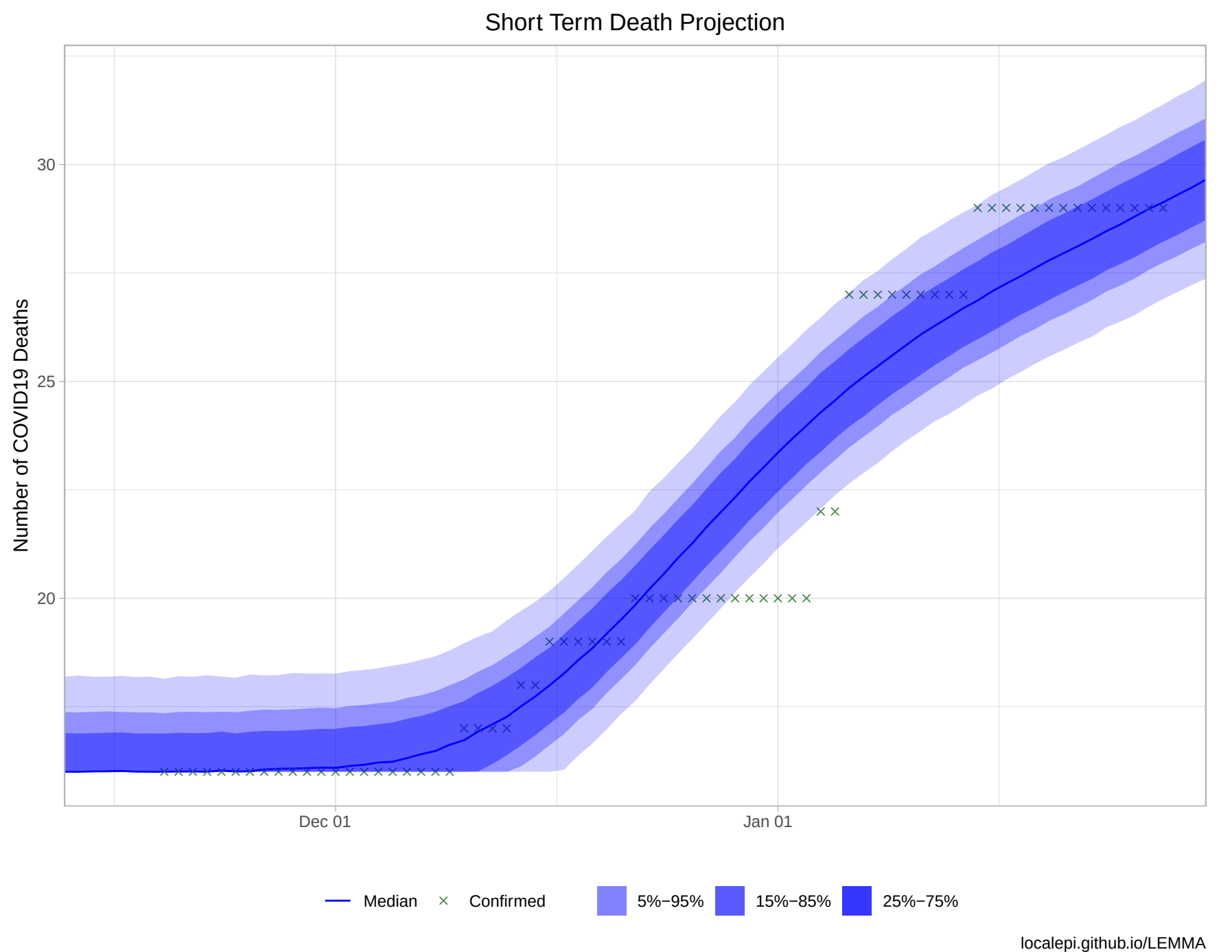
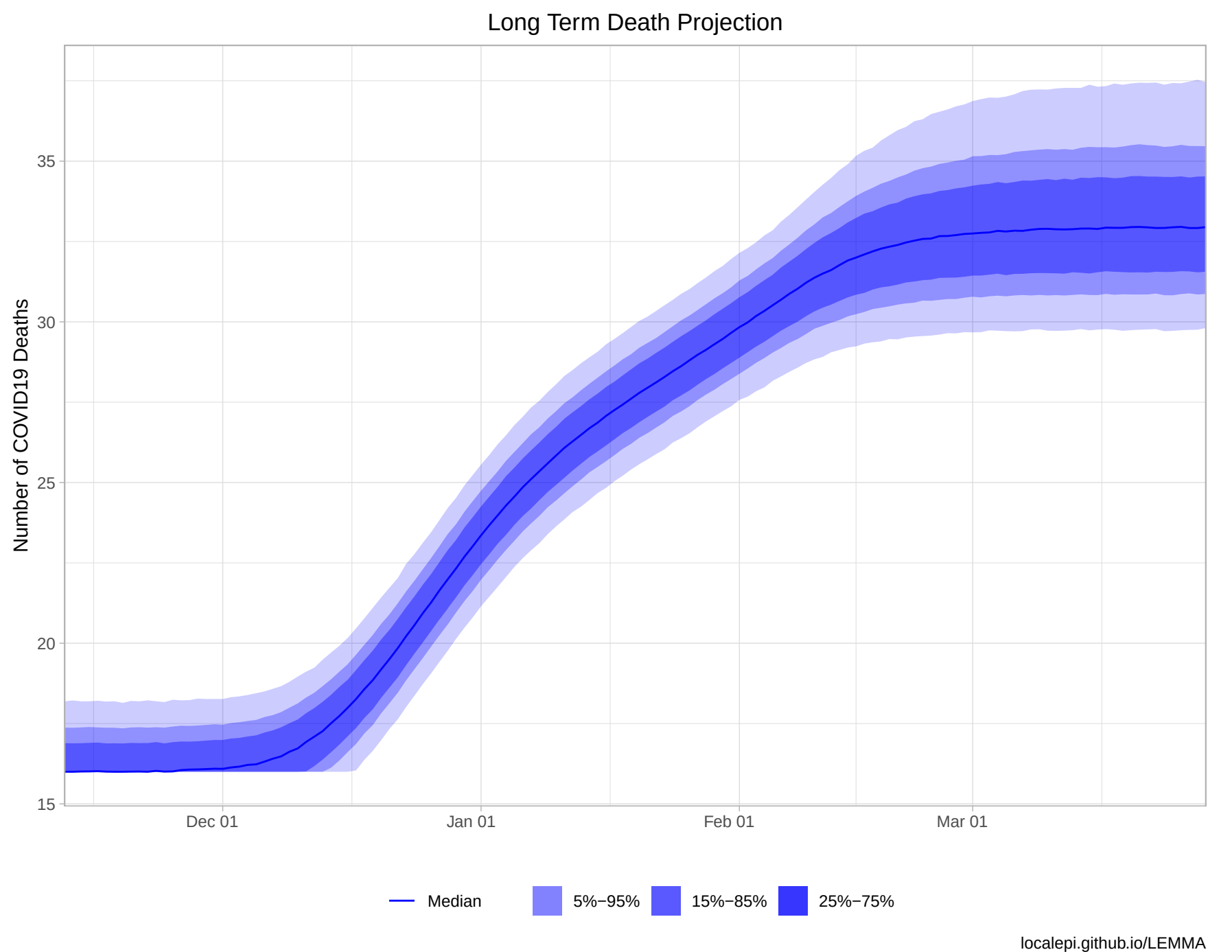

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
12
9
6
3
0
Dec 01
Jan 01
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

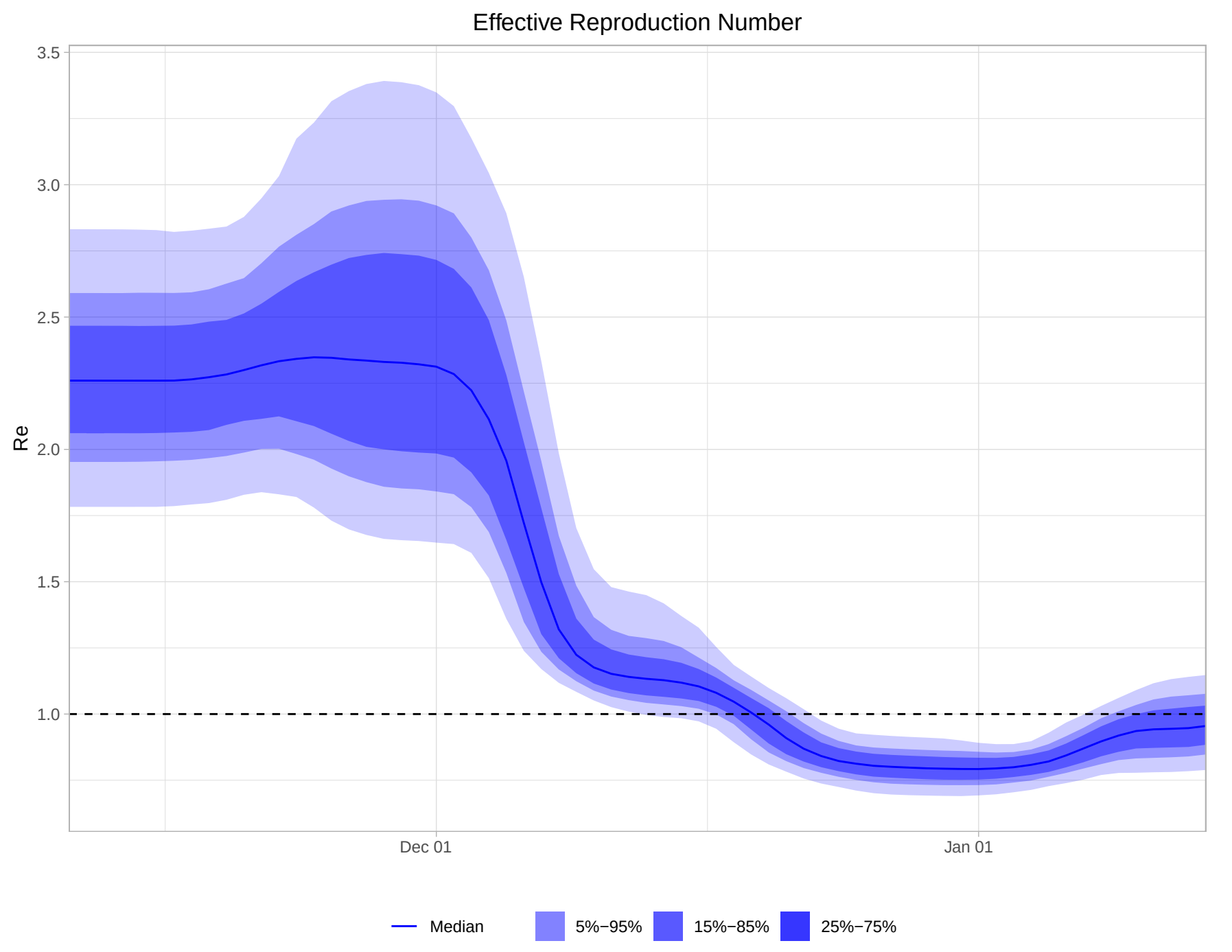

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
12
9
6
3
0
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


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

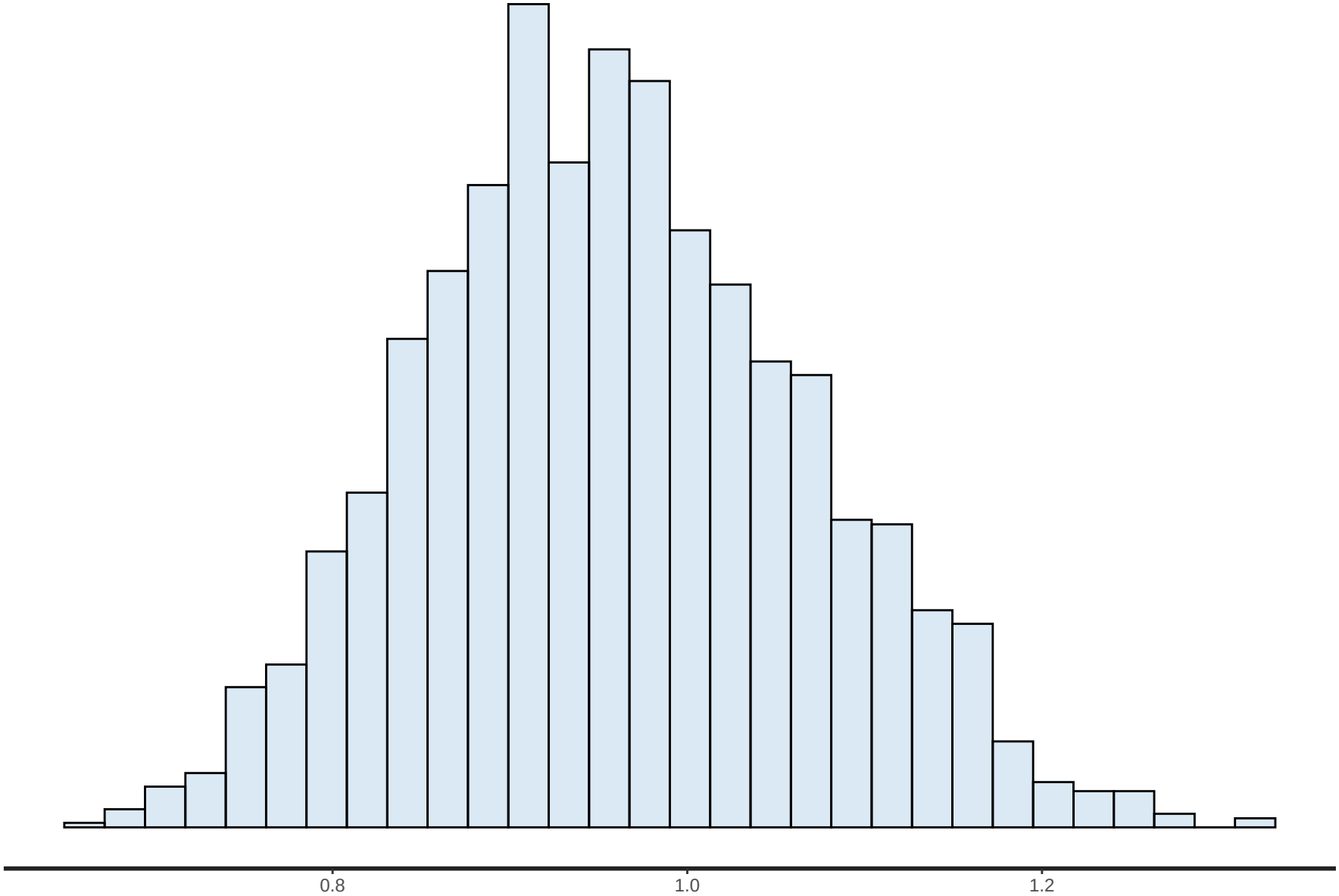

Short Term Death Projection
Number of COVID19 Deaths
30
25
20
Dec 01
Jan 01
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

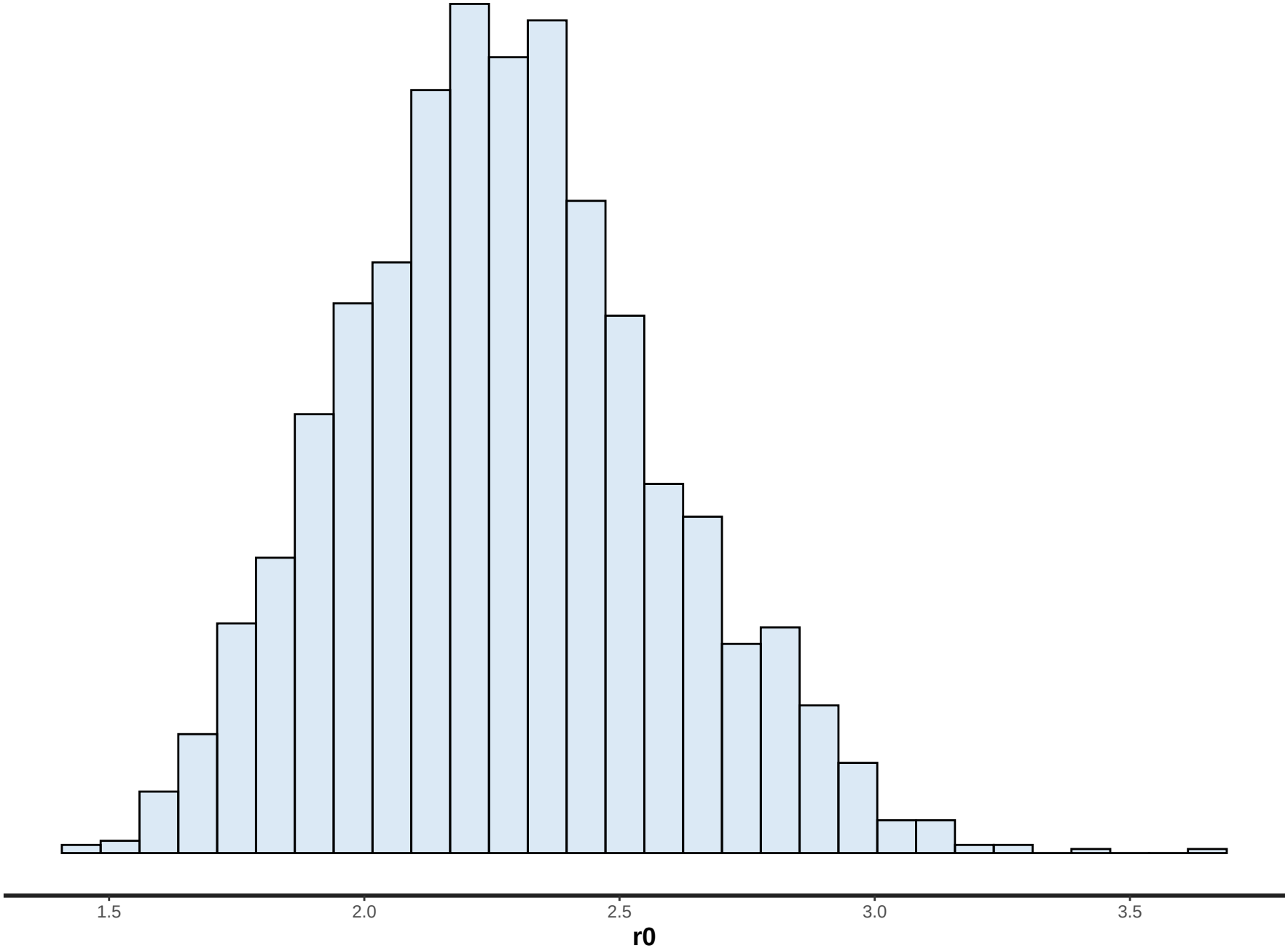

Long Term Death Projection
Number of COVID19 Deaths
35
30
25
20
15
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

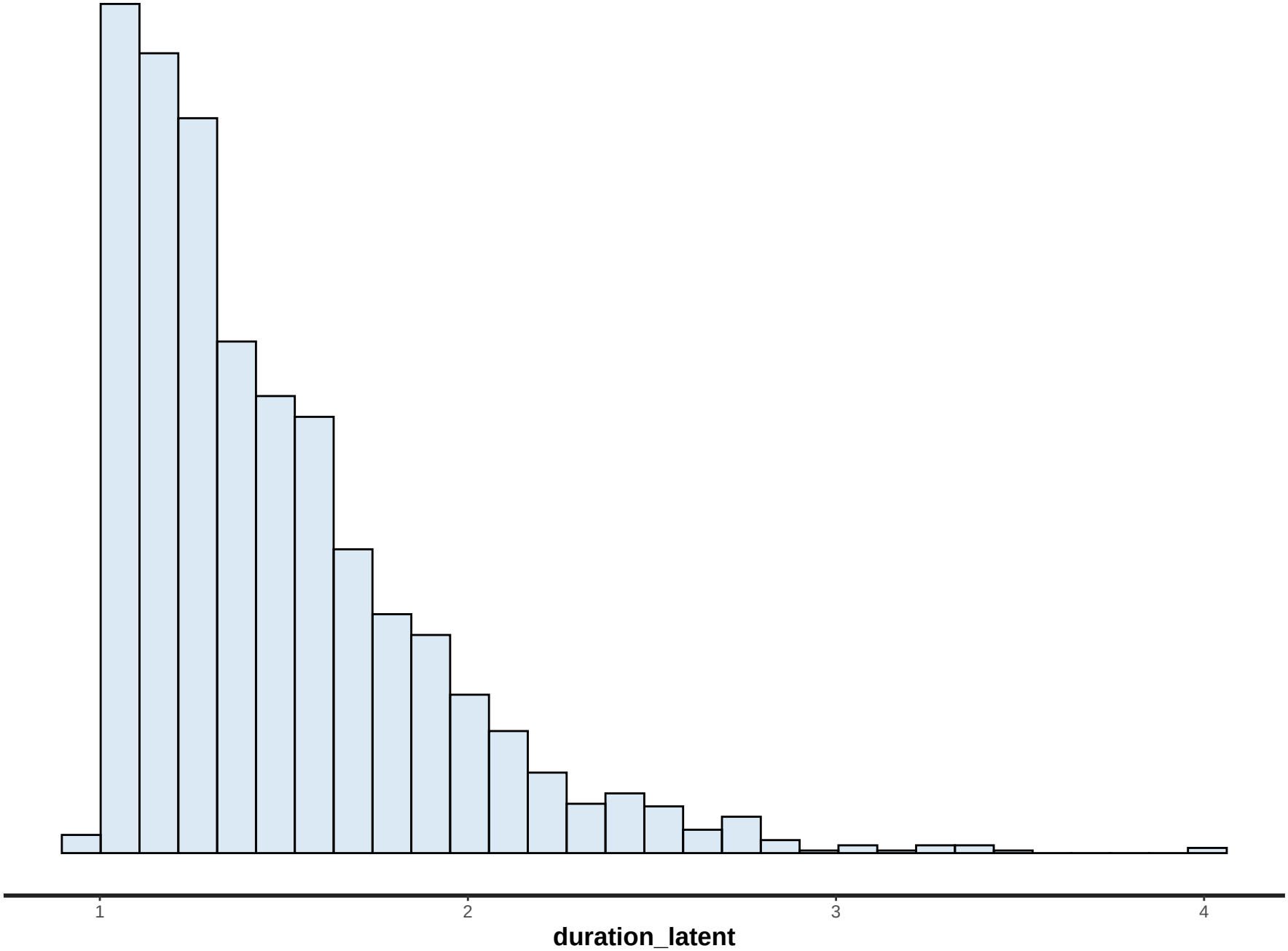

Effective Reproduction Number
Re
3.5
3.0
2.5
2.0
1.5
1.0
Dec 01
Jan 01
Median
5%−95%
15%−85%
25%−75%

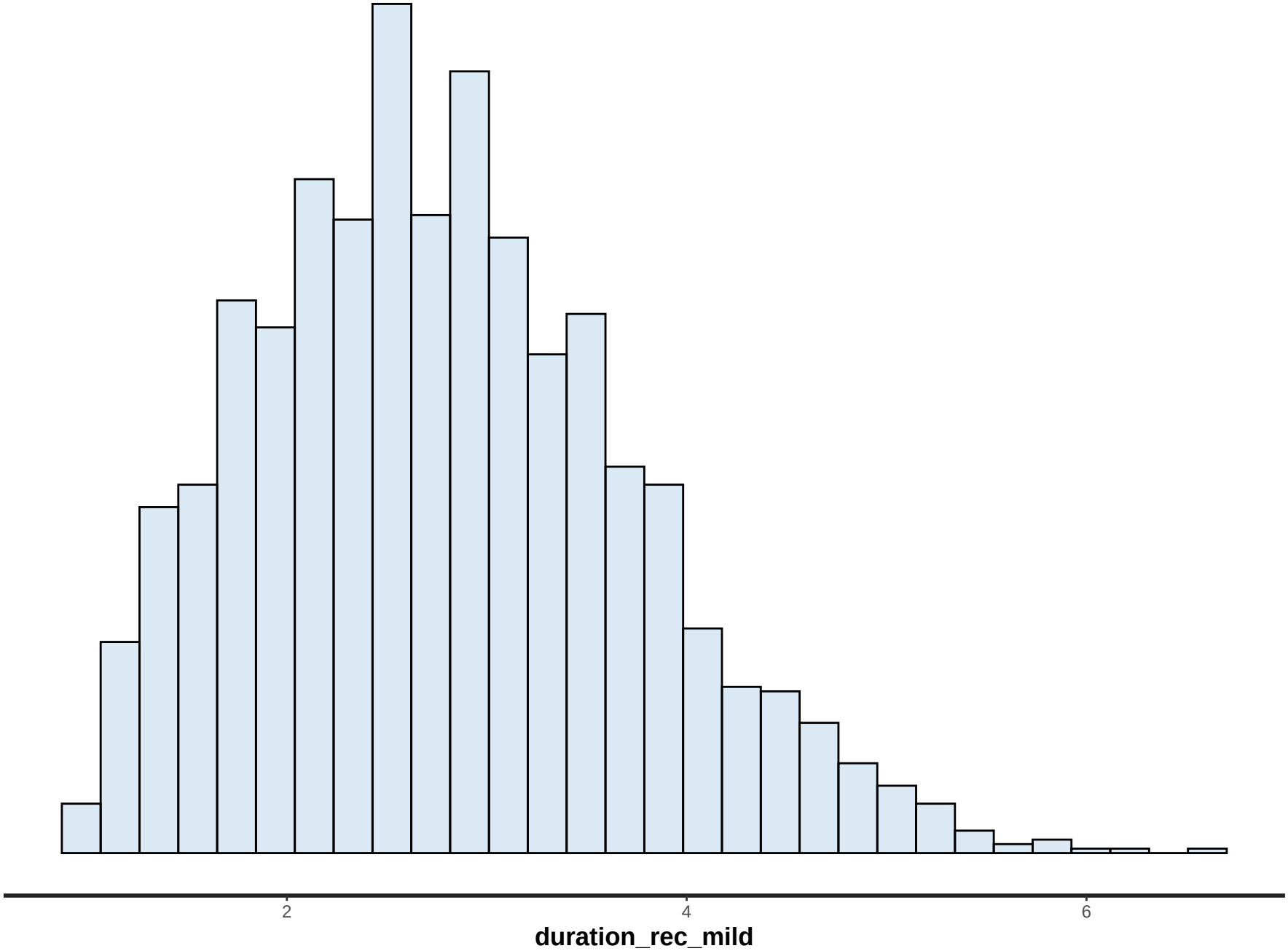
Rt as of 2021−01−14

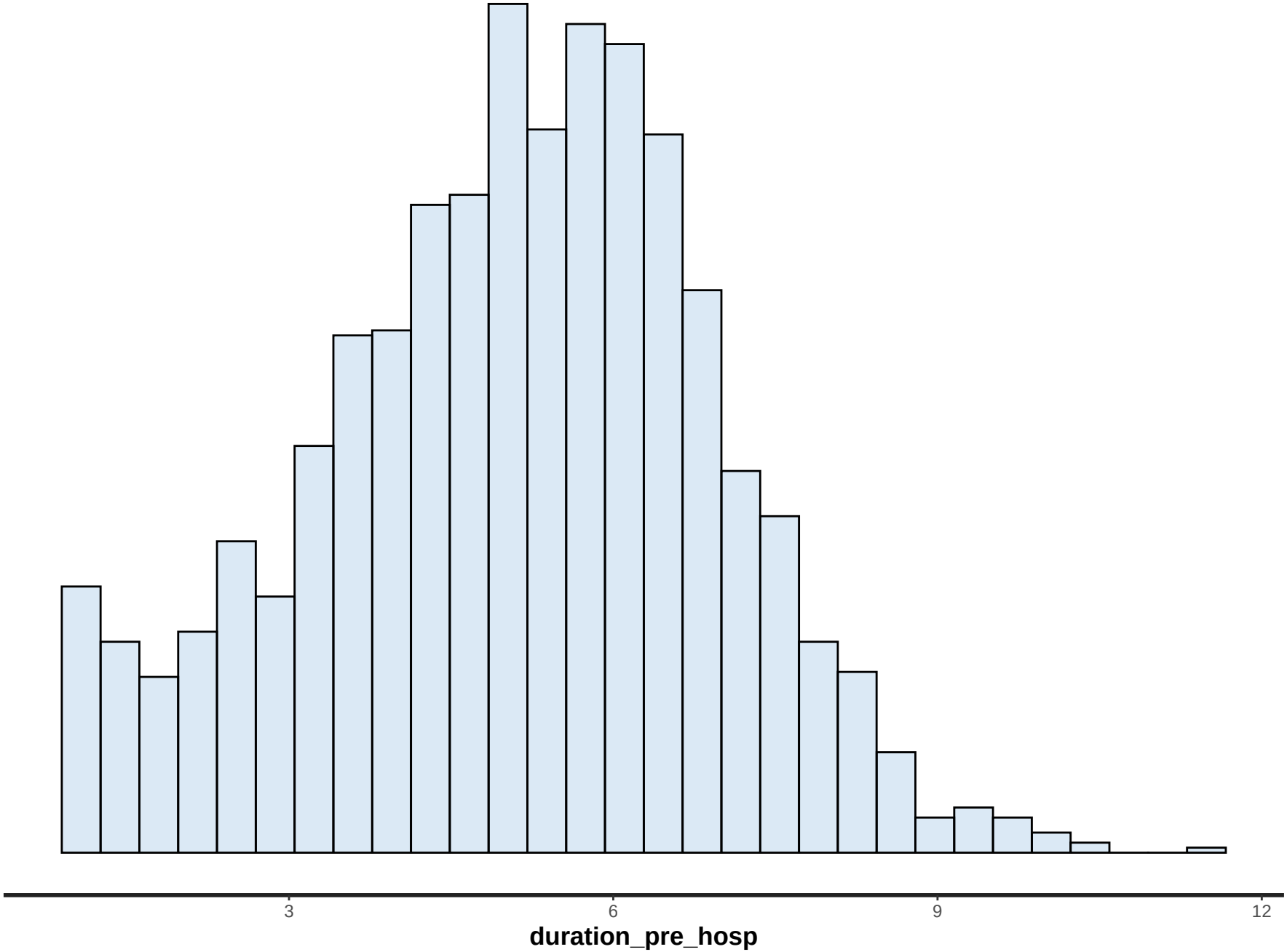
5%	10%	25%	50%	75%	90%	95%
0.79	0.82	0.88	0.95	1.03	1.11	1.15

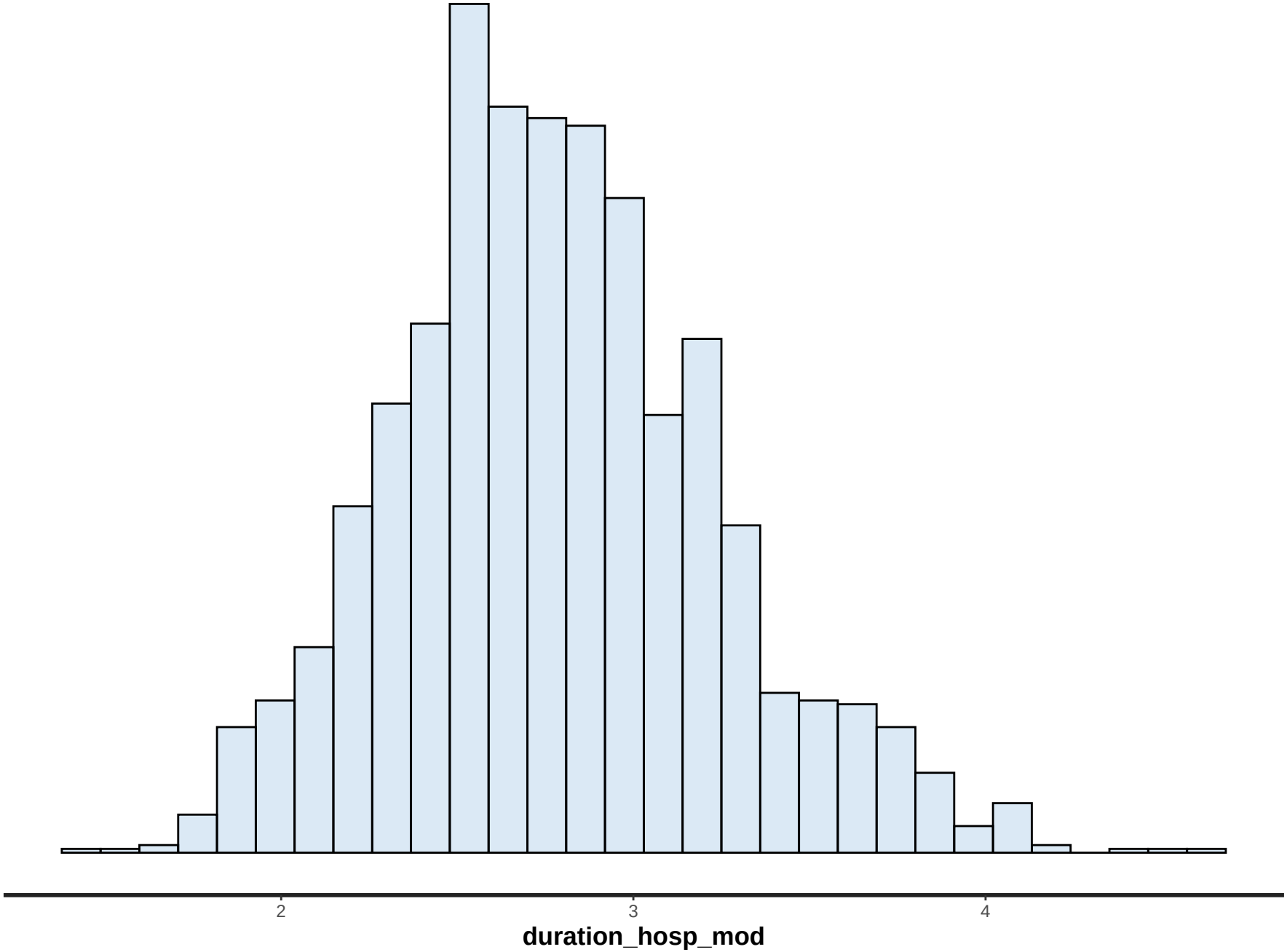


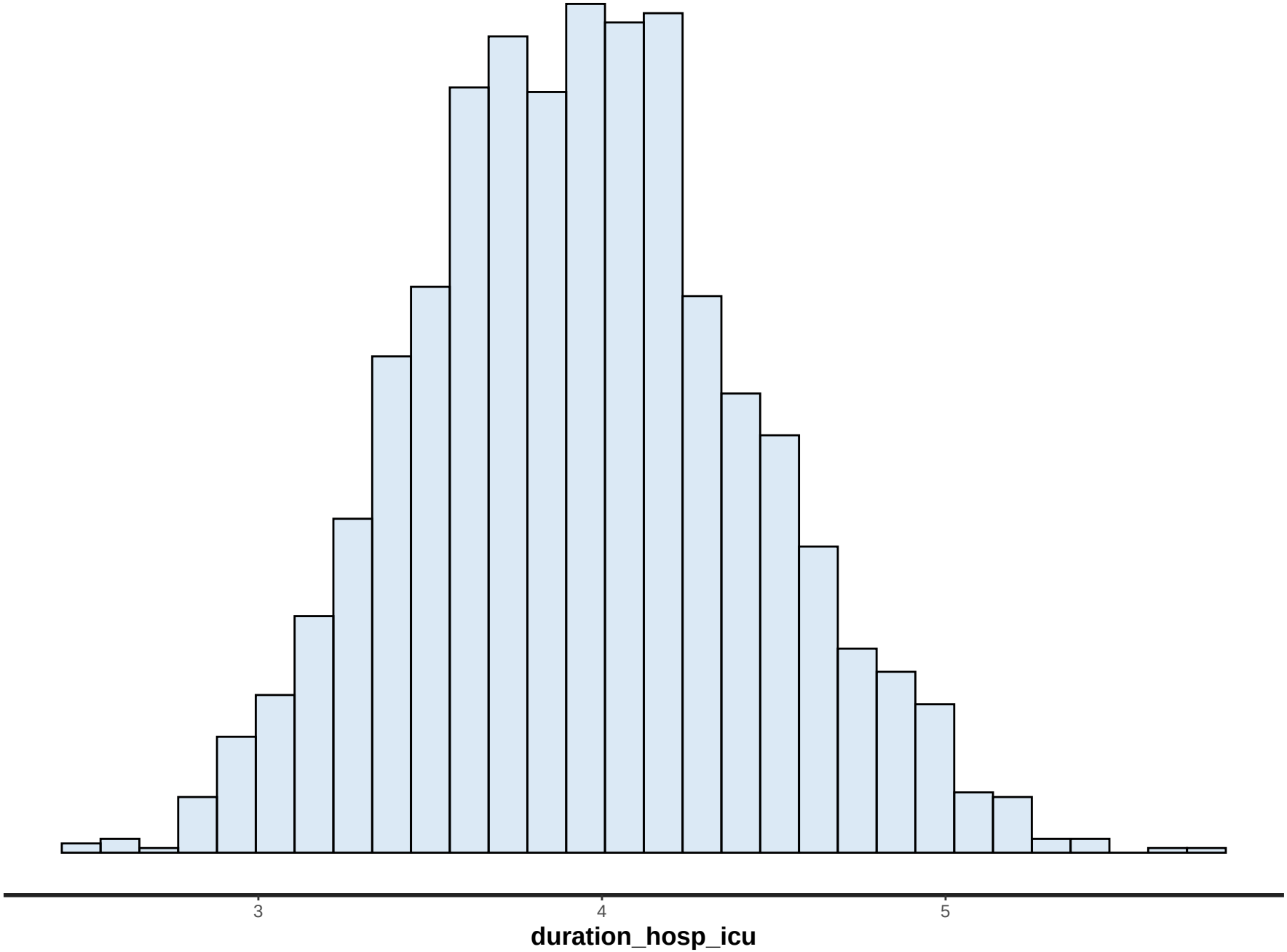

1.5
2.0
2.5
3.0
3.5
r0

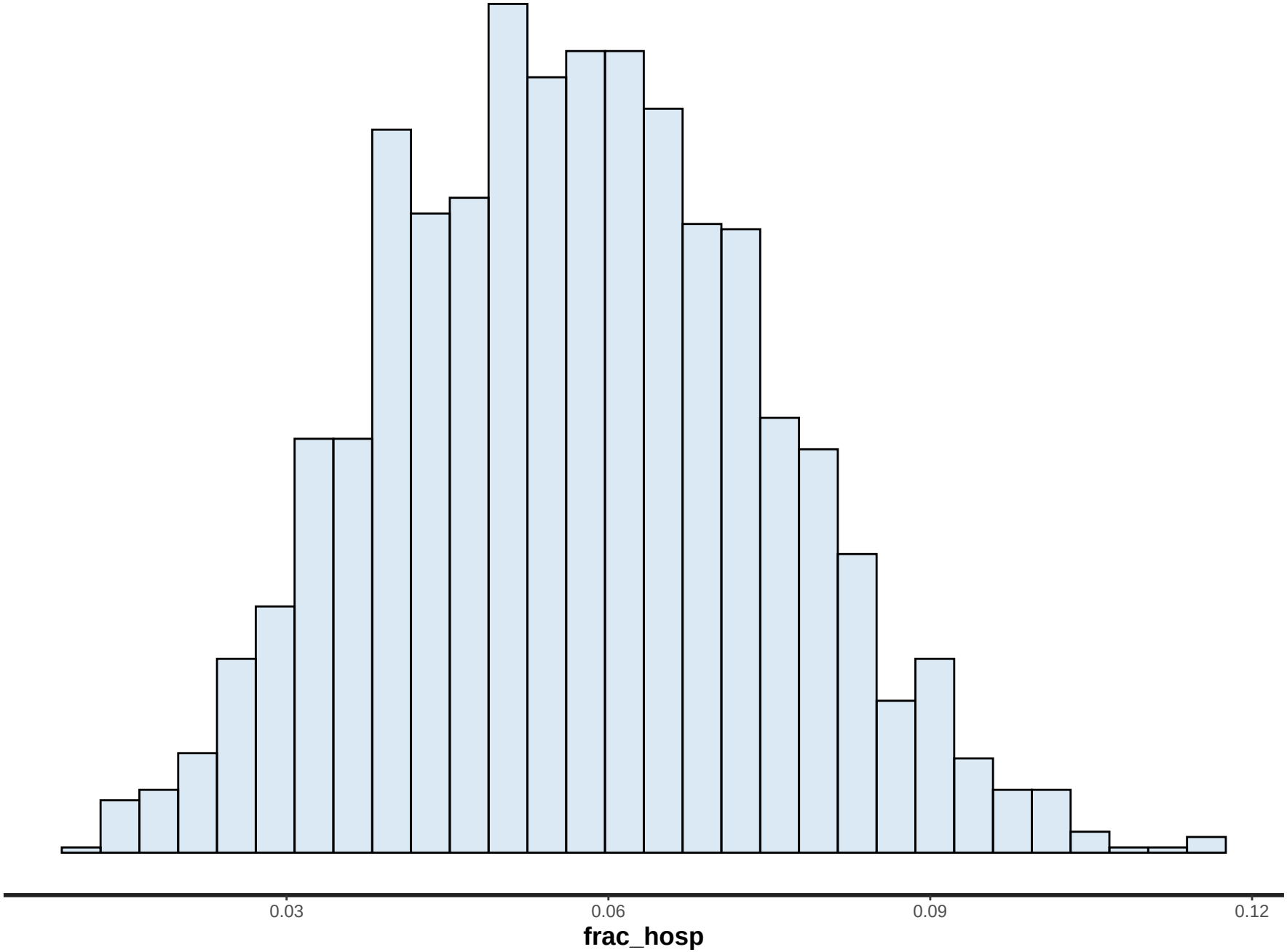

1
2
3
4
duration_latent

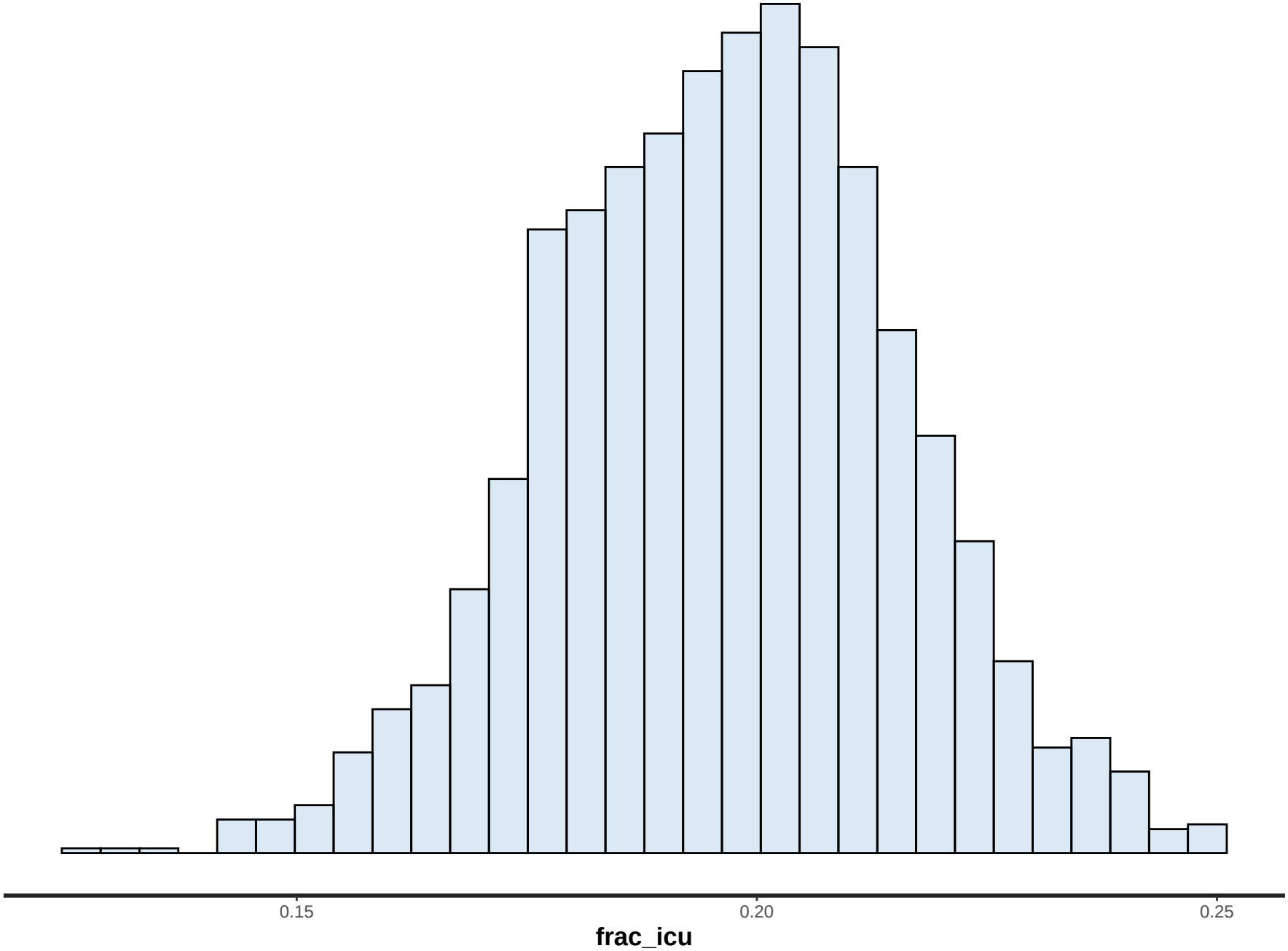

2
4
6
duration_rec_mild

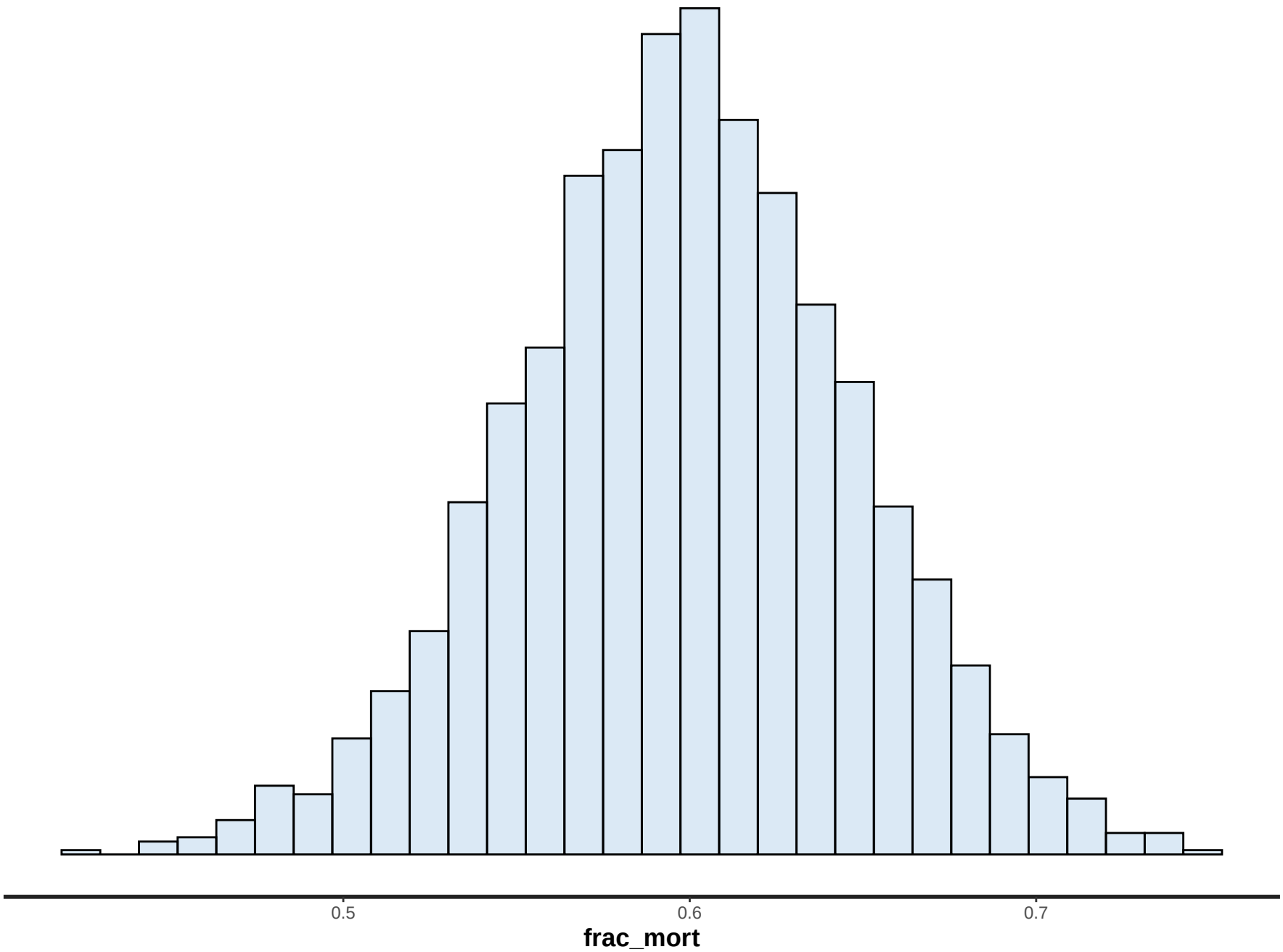

3
6
9
12
duration_pre_hosp

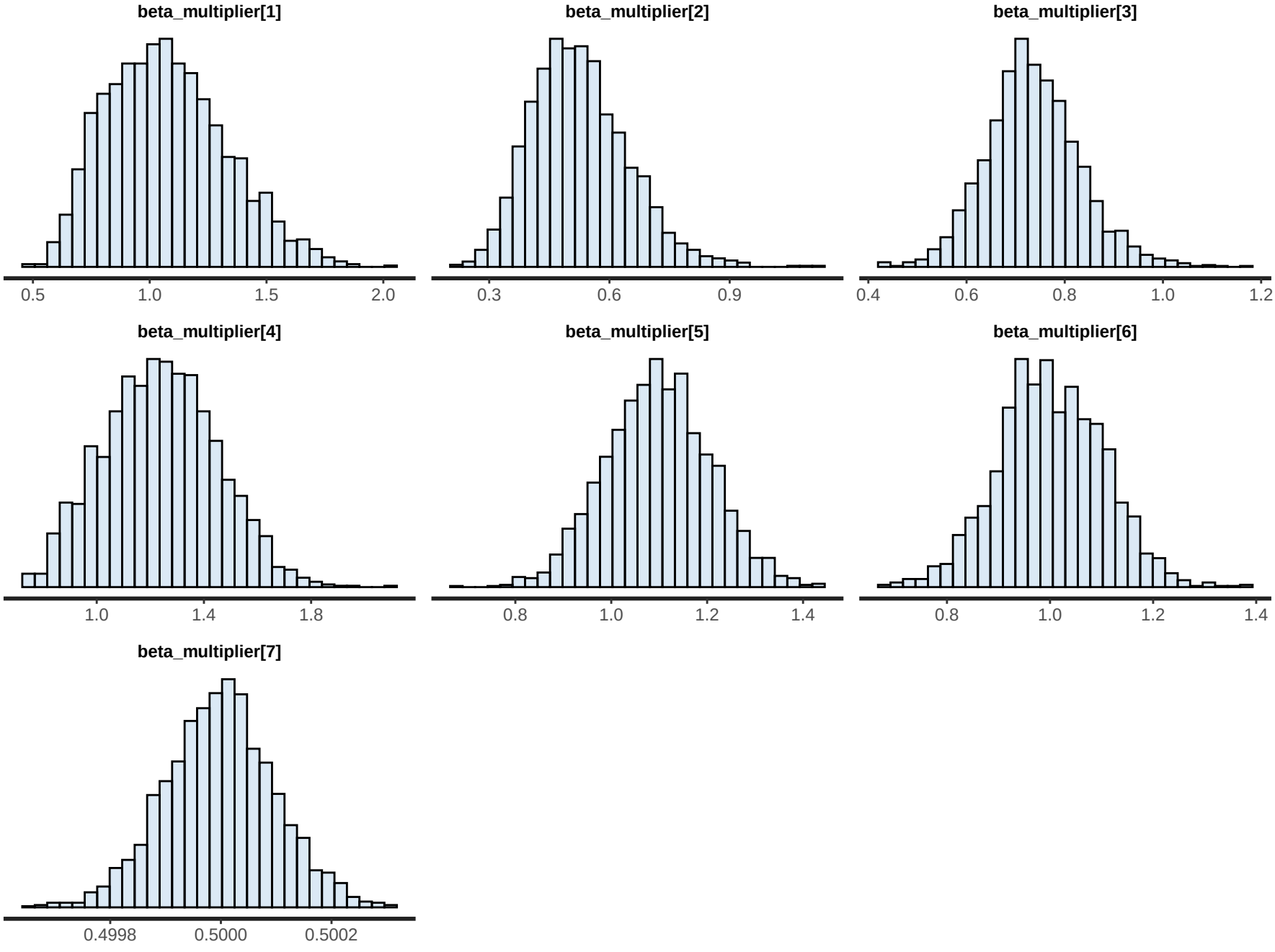

2
3
4
duration_hosp_mod

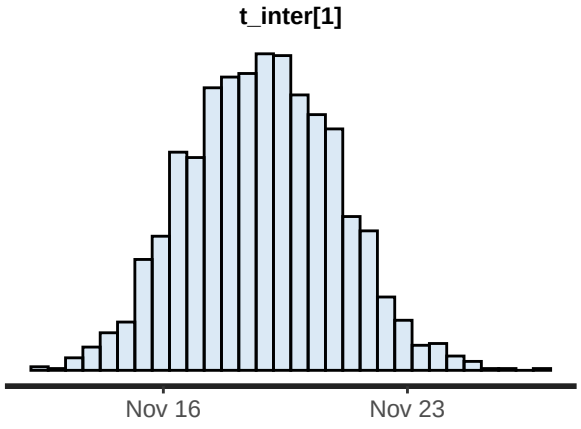

3
4
5
duration_hosp_icu

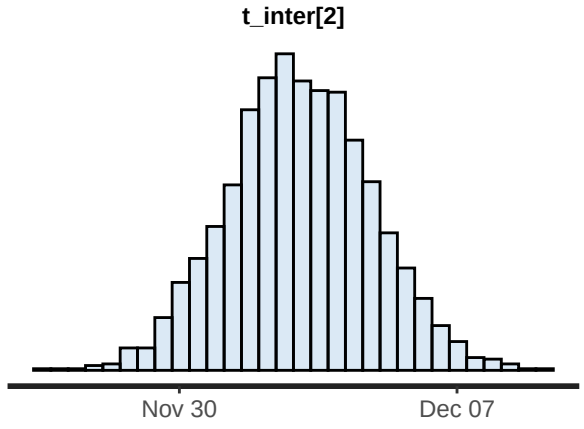

0.03
0.06
0.09
0.12
frac_hosp

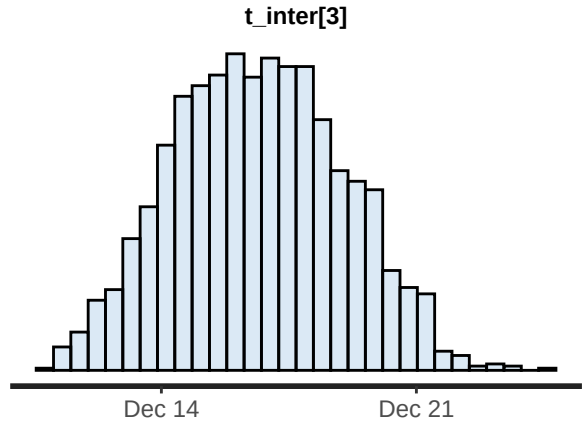

0.15
0.20
0.25
frac_icu


0.5
0.6
0.7
frac_mort


beta_multiplier[1]
0.5
1.0
1.5
2.0
beta_multiplier[2]
0.3
0.6
0.9
beta_multiplier[3]
0.4
0.6
0.8
1.0
1.2
beta_multiplier[4]
1.0
1.4
1.8
beta_multiplier[5]
0.8
1.0
1.2
1.4
beta_multiplier[6]
0.8
1.0
1.2
1.4
beta_multiplier[7]
0.4998
0.5000
0.5002


t_inter[1]
Nov 16
Nov 23


t_inter[2]
Nov 30
Dec 07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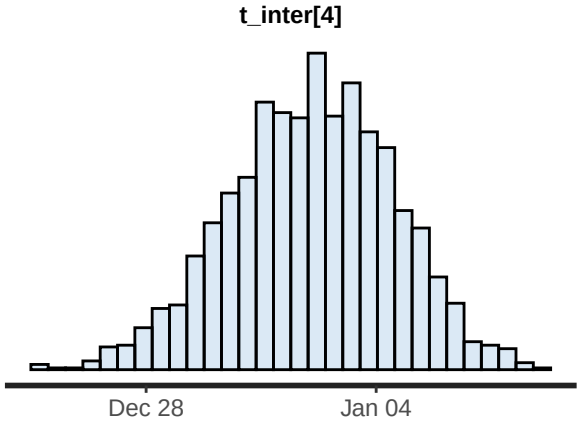
Dec 14
Dec 21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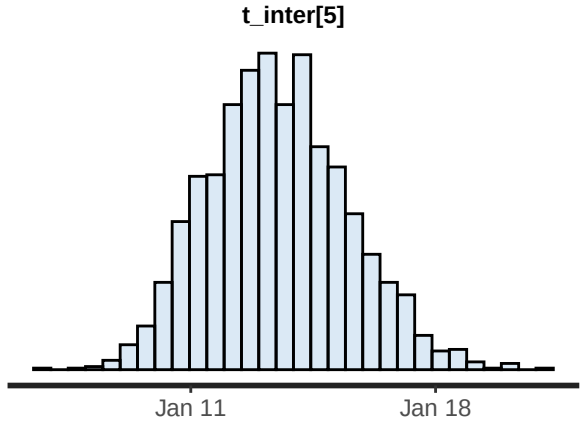
Dec 28
Jan 04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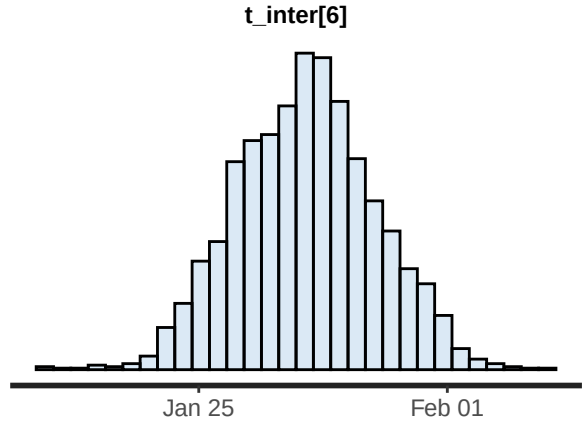
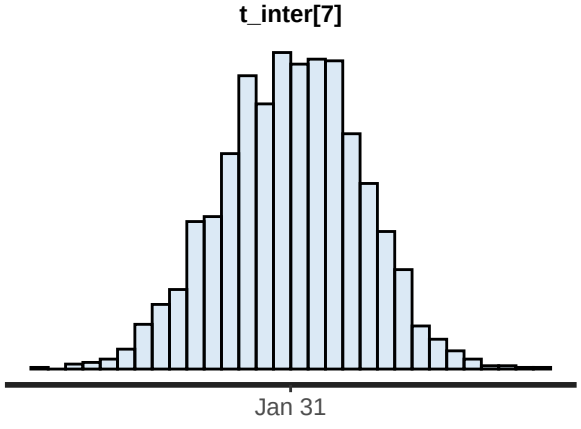
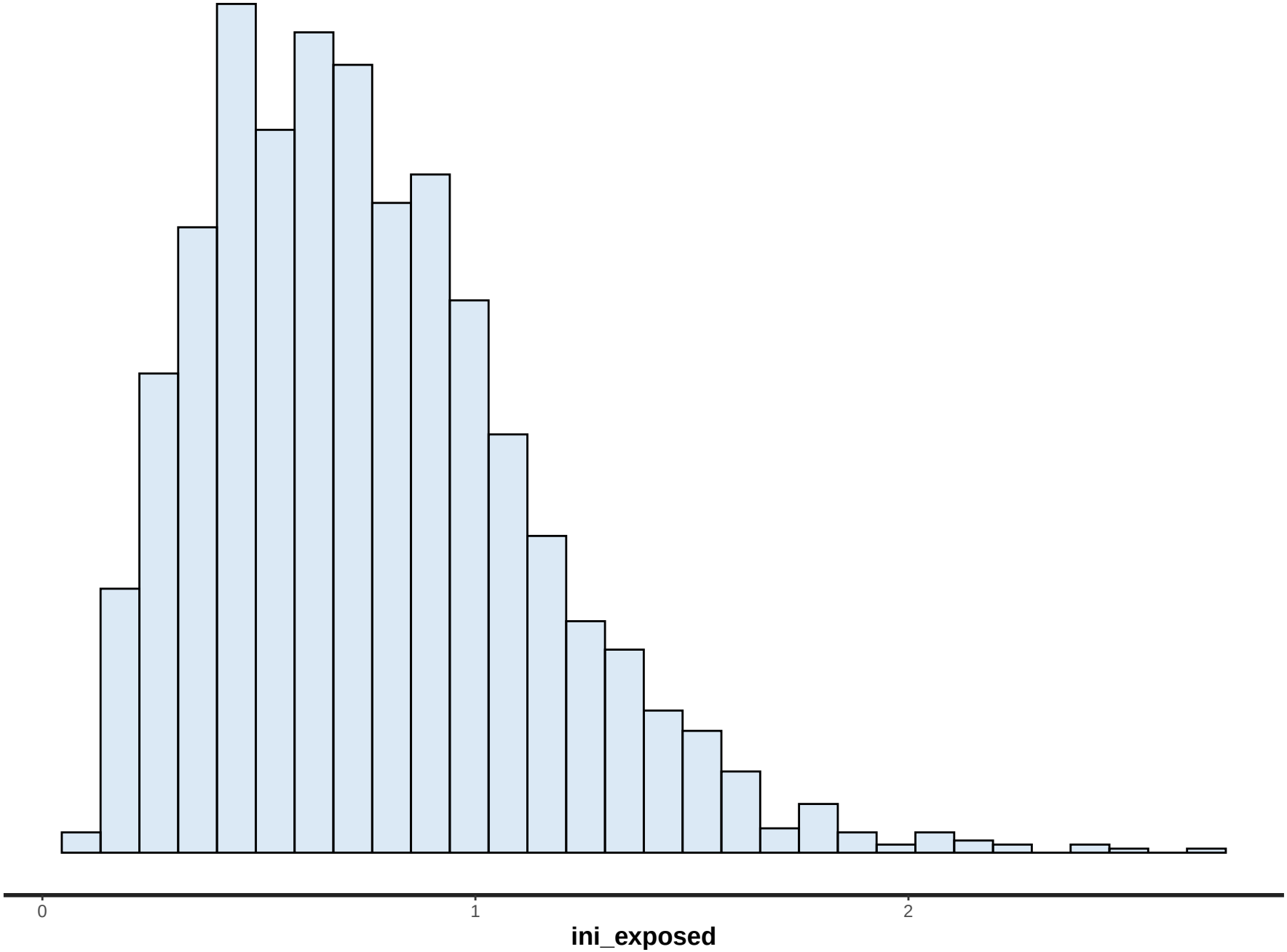
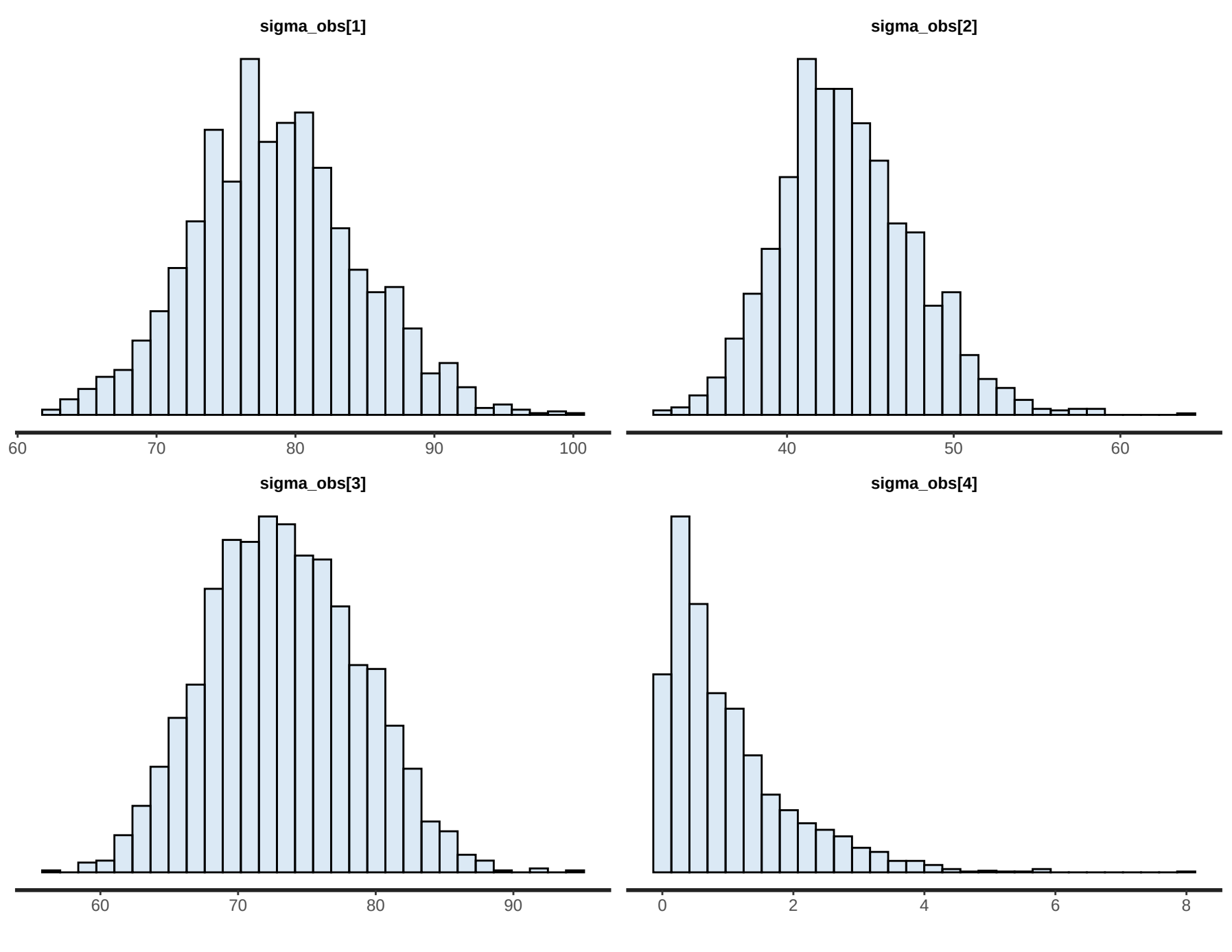
Jan 11
Jan 18


t_inter[6]
Jan 25
Feb 01


t_inter[7]
Jan 31


0
1
2
ini_exposed


sigma_obs[1]
60
70
80
90
100
sigma_obs[2]
40
50
60
sigma_obs[3]
60
70
80
90
sigma_obs[4]
0
2
4
6
8