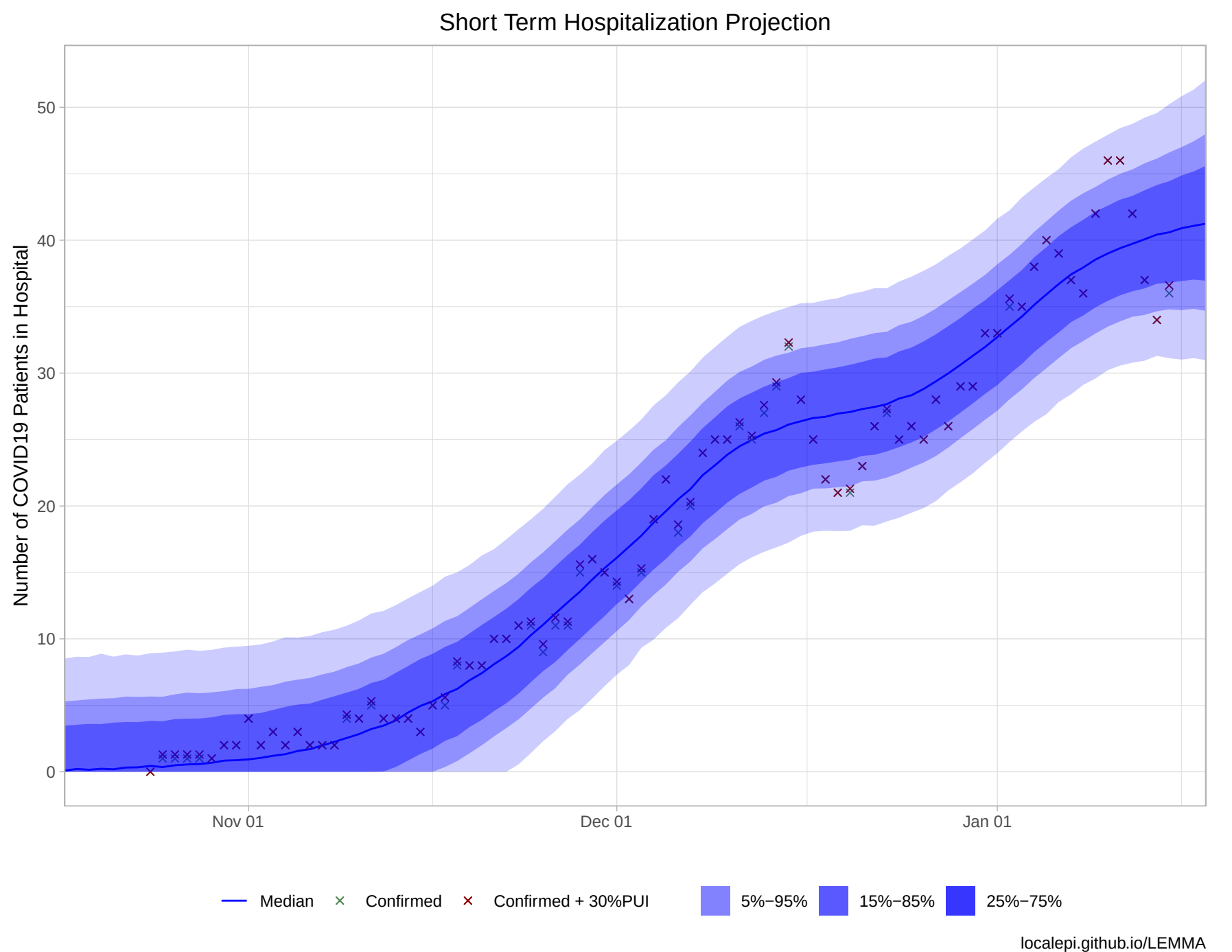
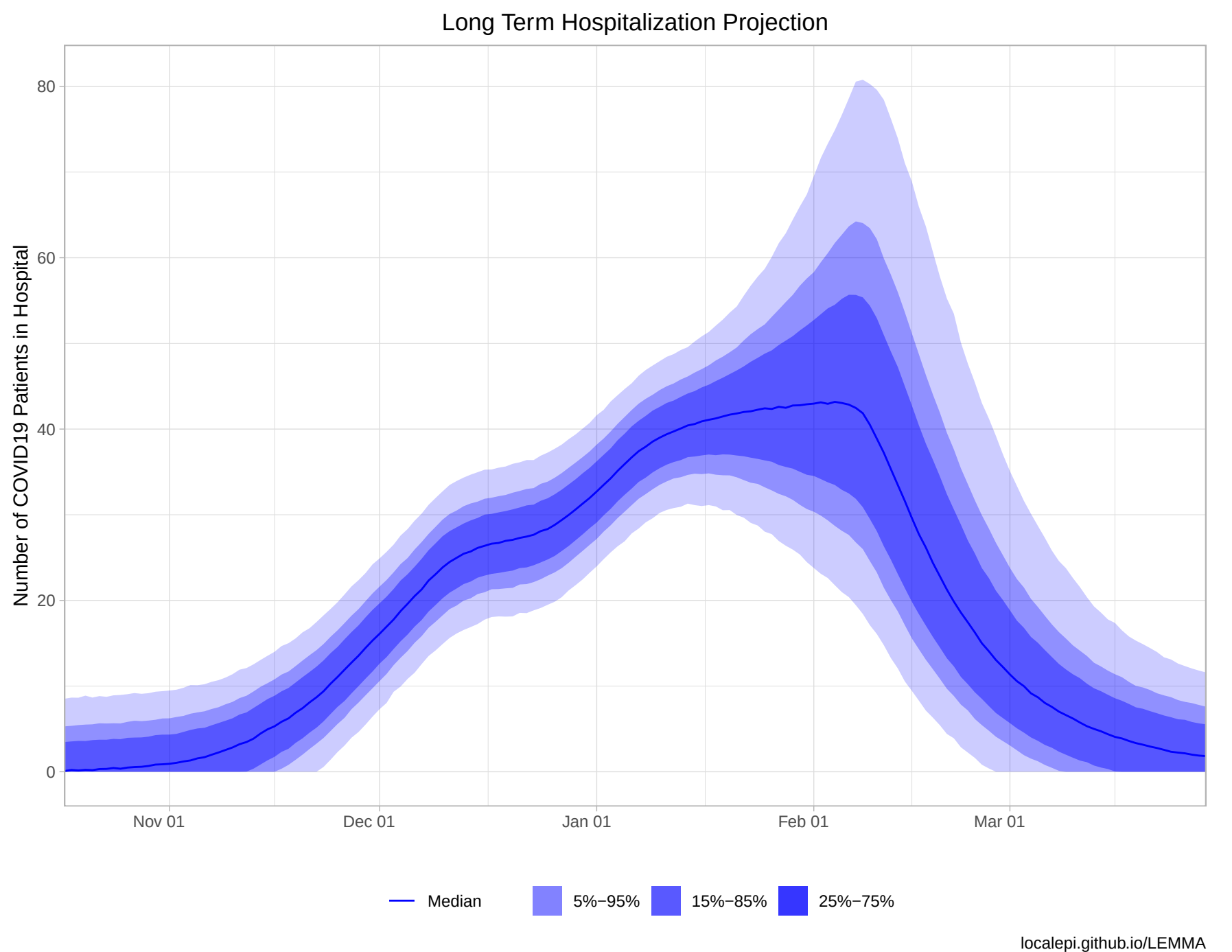
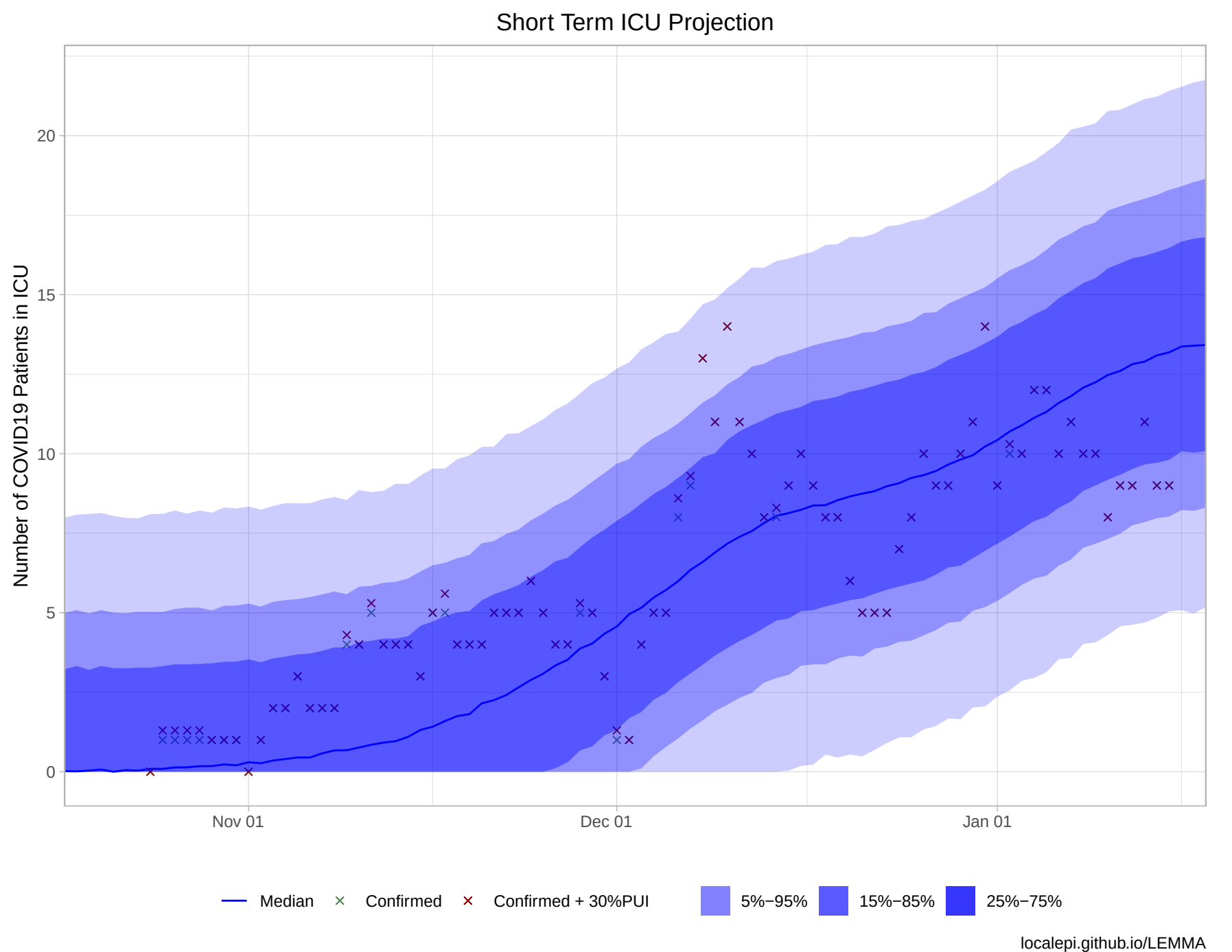
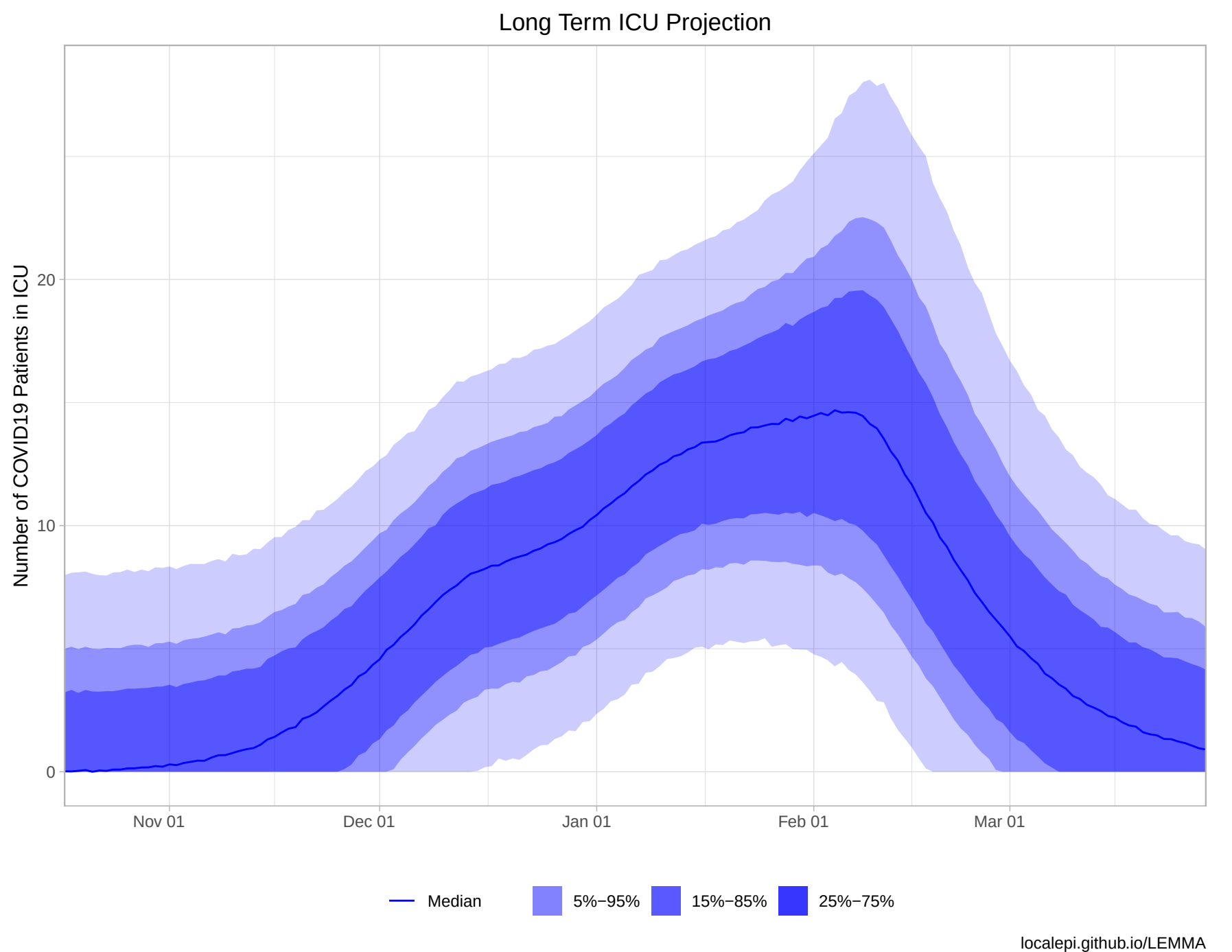
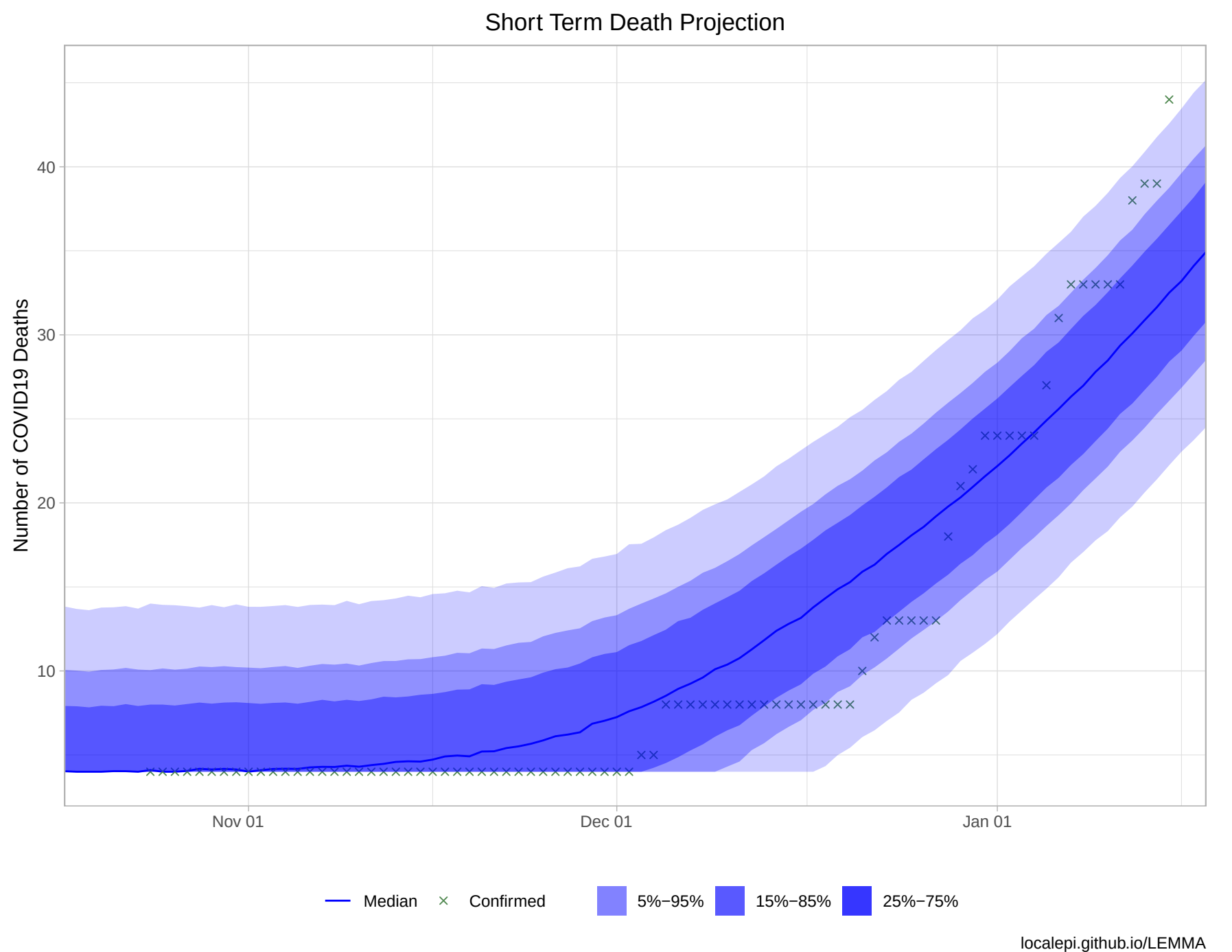
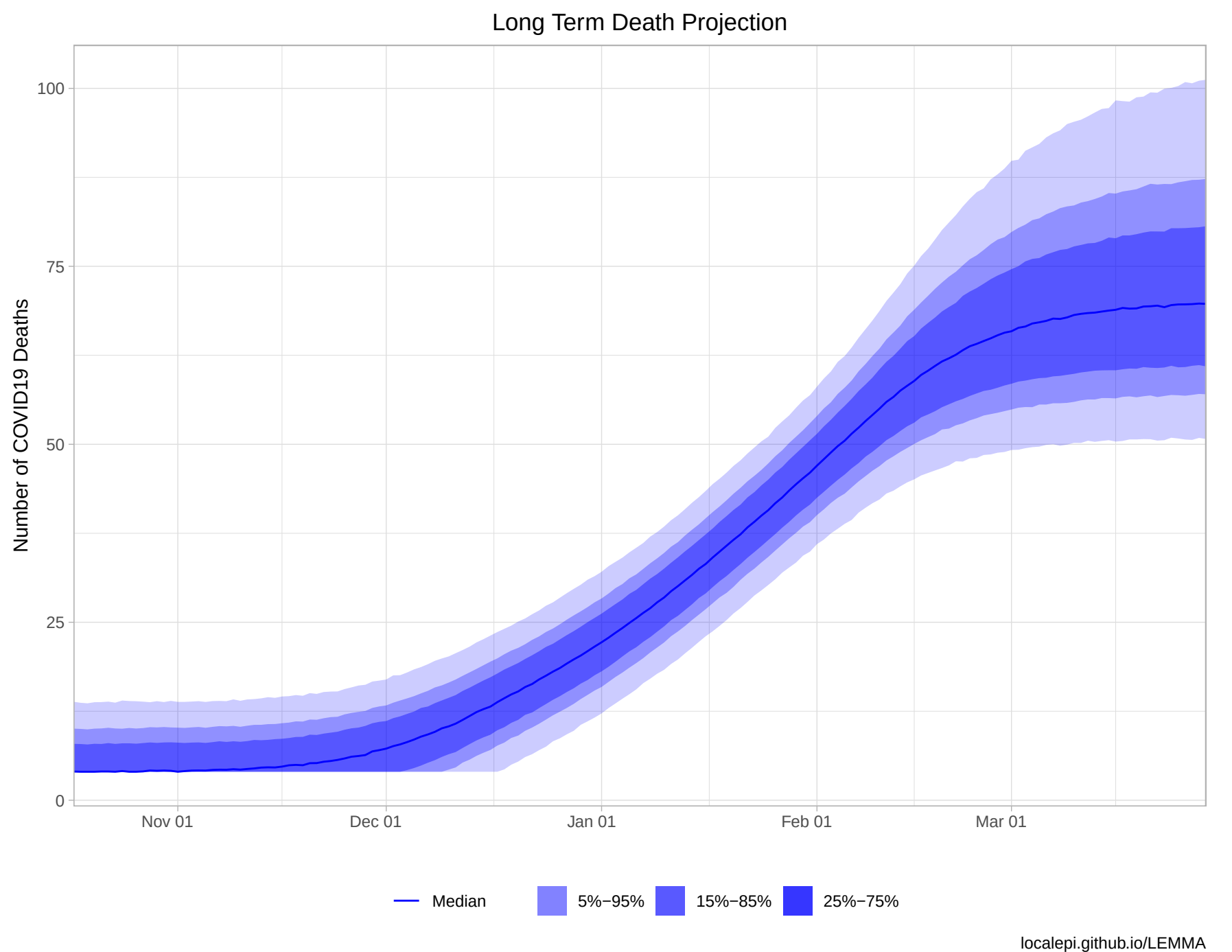

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
10
20
30
40
50
Nov 01
Dec 01
Jan 01
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

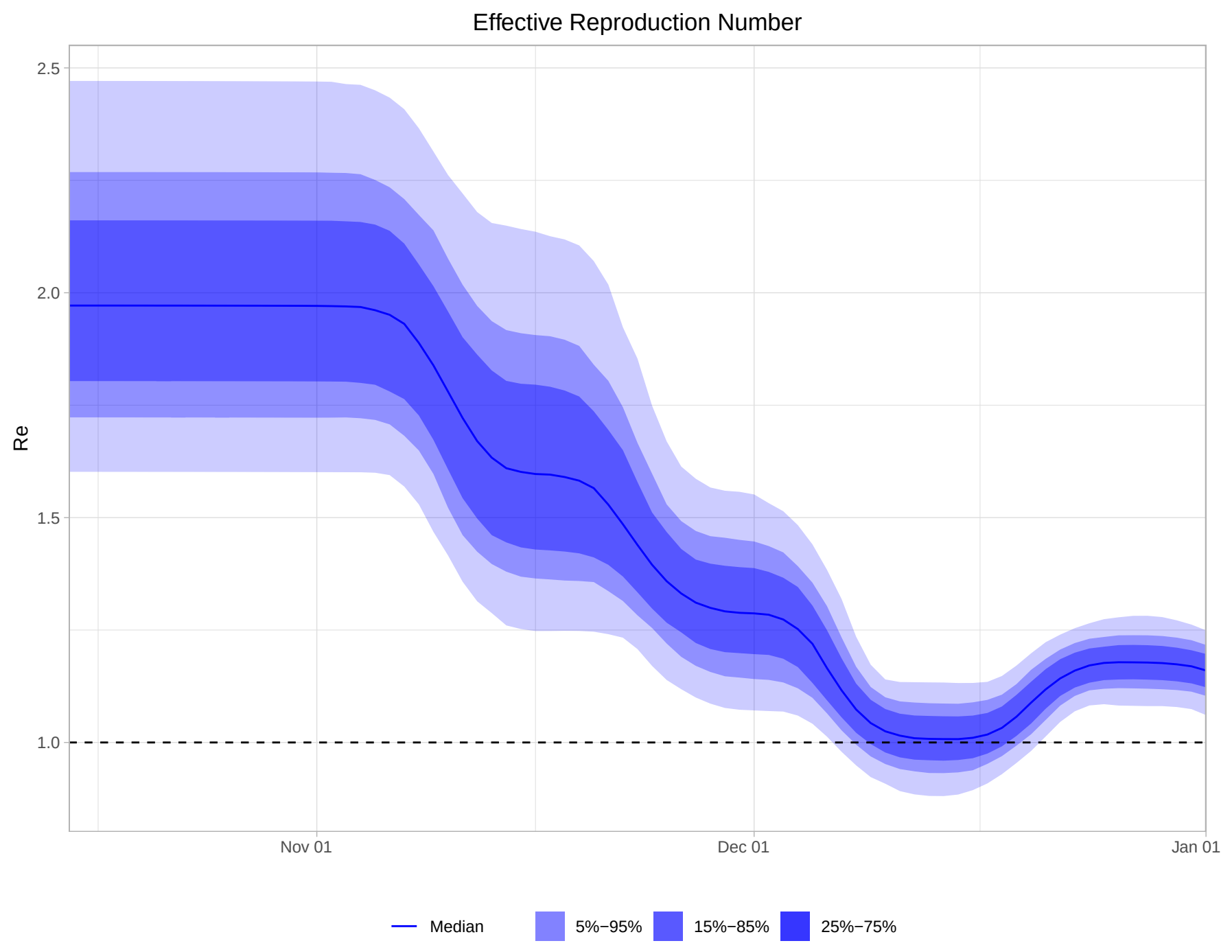

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
80
60
40
20
0
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


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
10
20
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

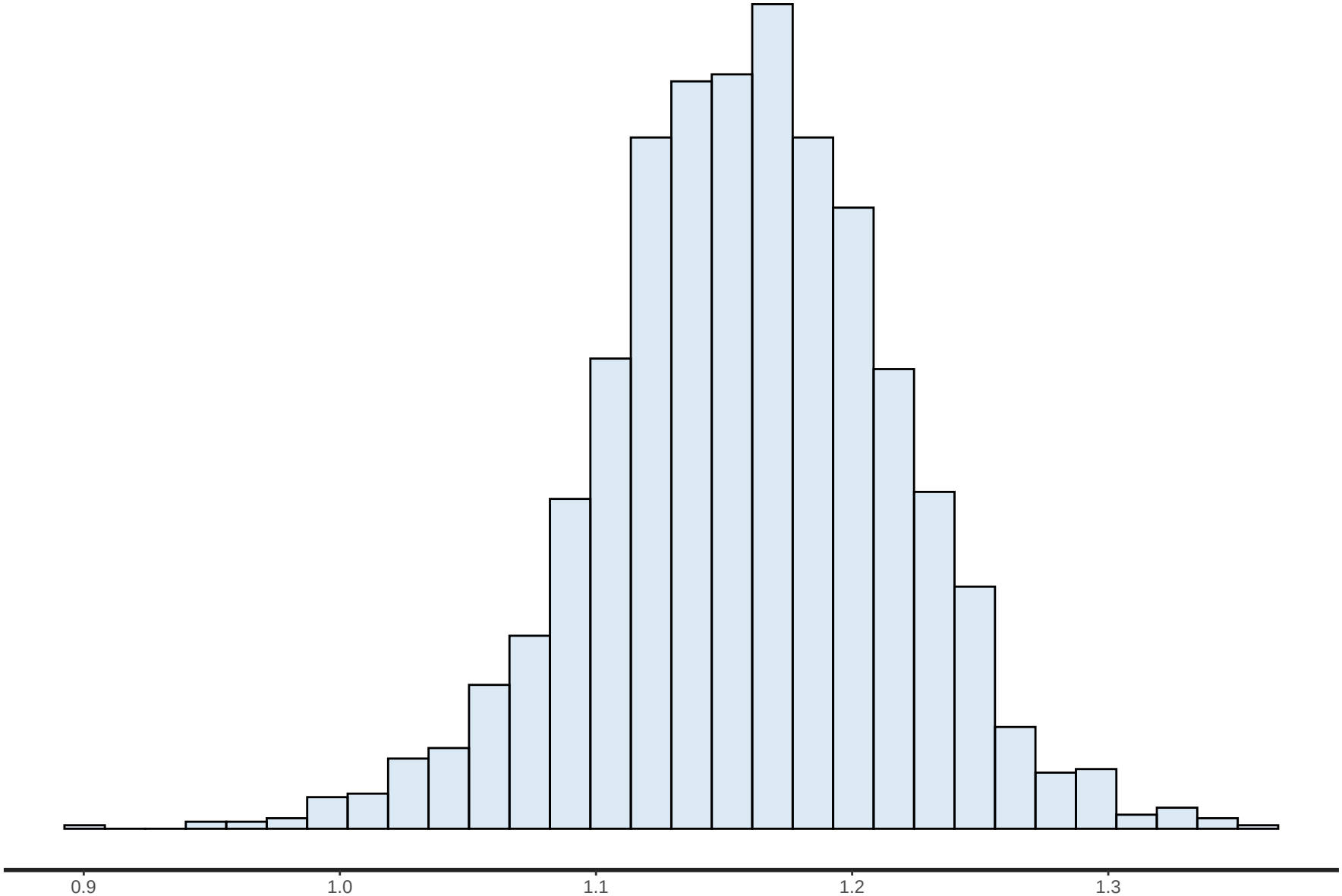

Short Term Death Projection
Number of COVID19 Deaths
40
30
20
10
Nov 01
Dec 01
Jan 01
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

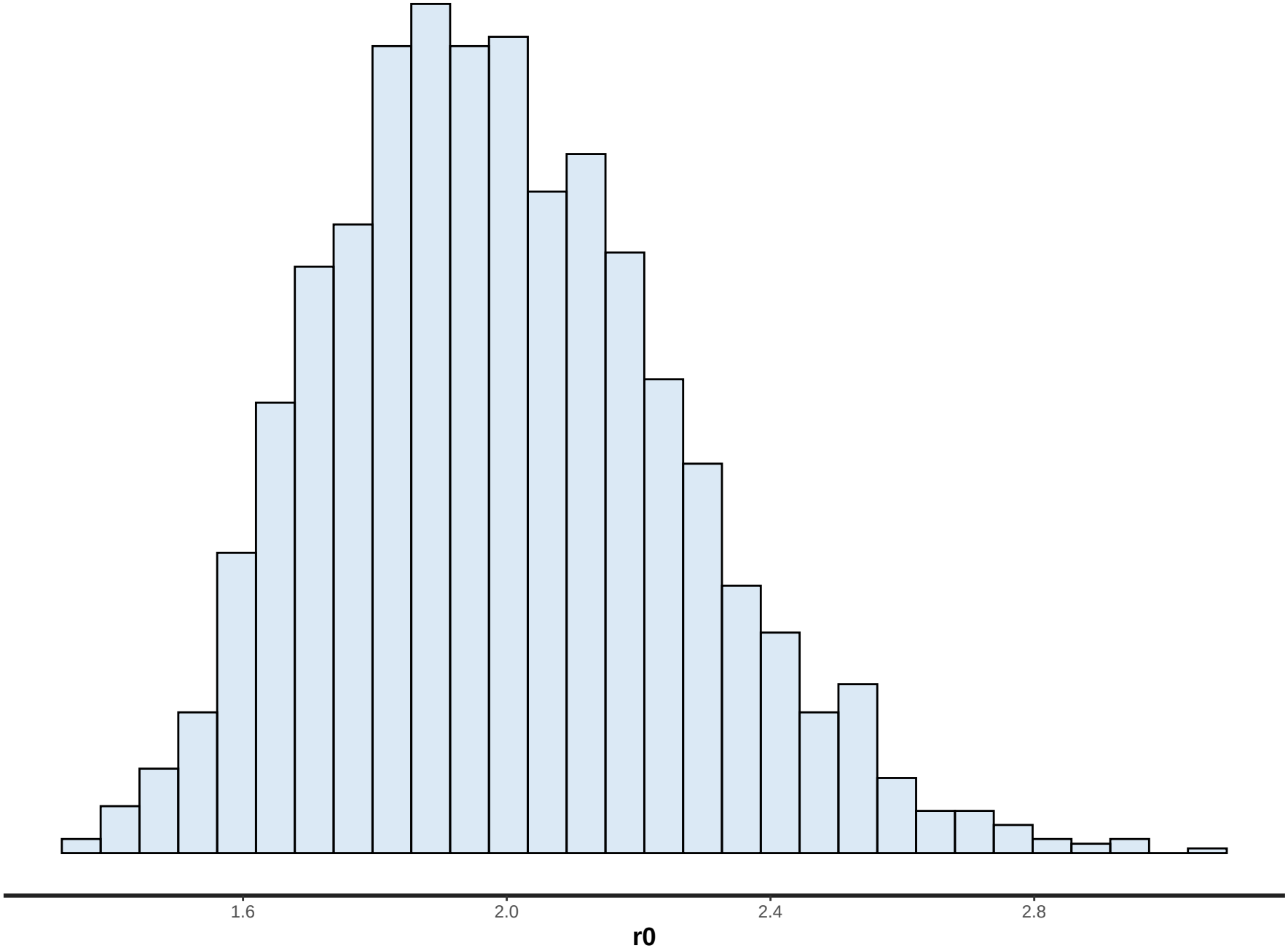

Long Term Death Projection
Number of COVID19 Deaths
100
75
50
25
0
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

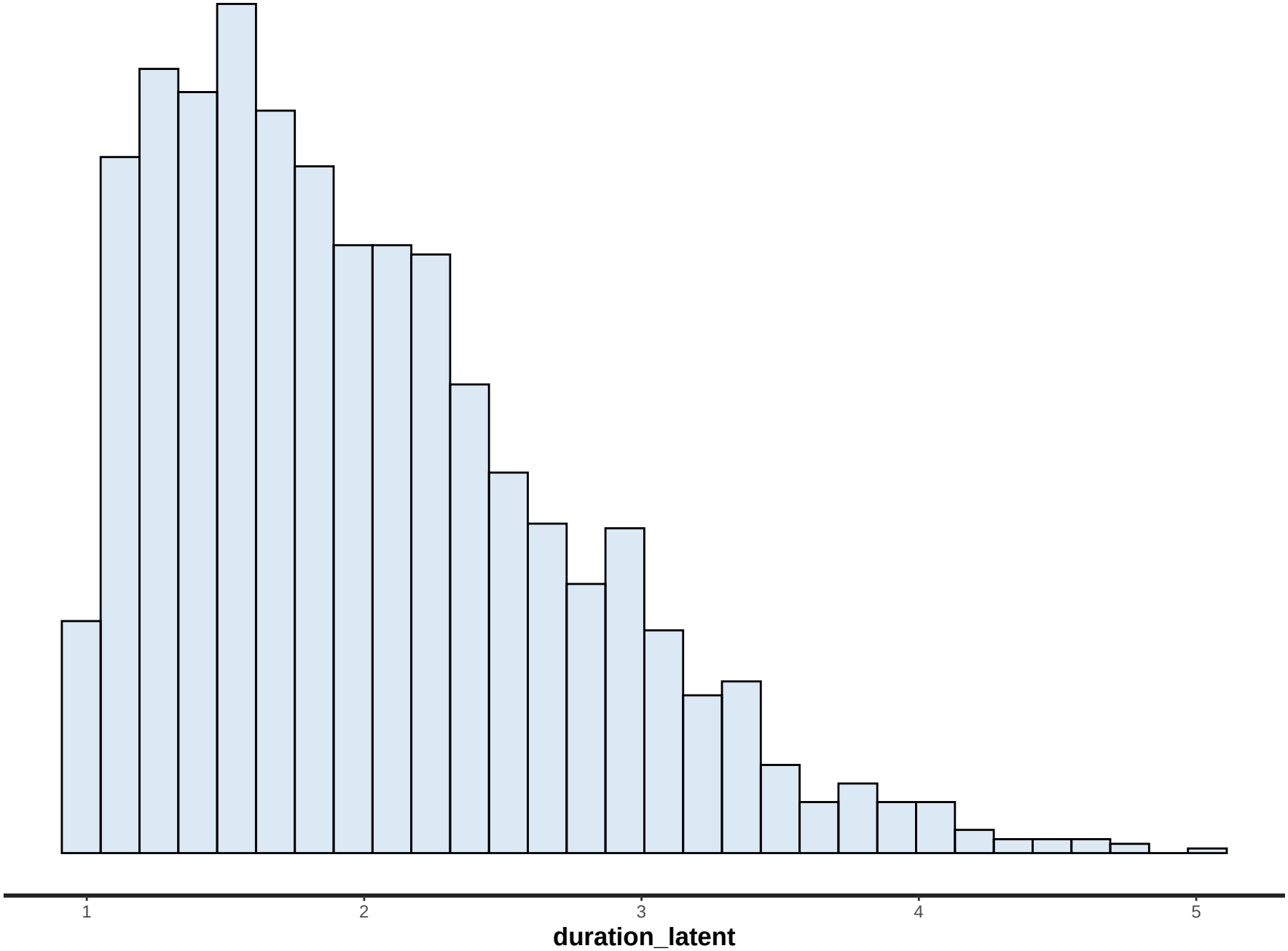

Effective Reproduction Number
Re
2.5
2.0
1.5
1.0
Nov 01
Dec 01
Jan 01
Median
5%−95%
15%−85%
25%−75%

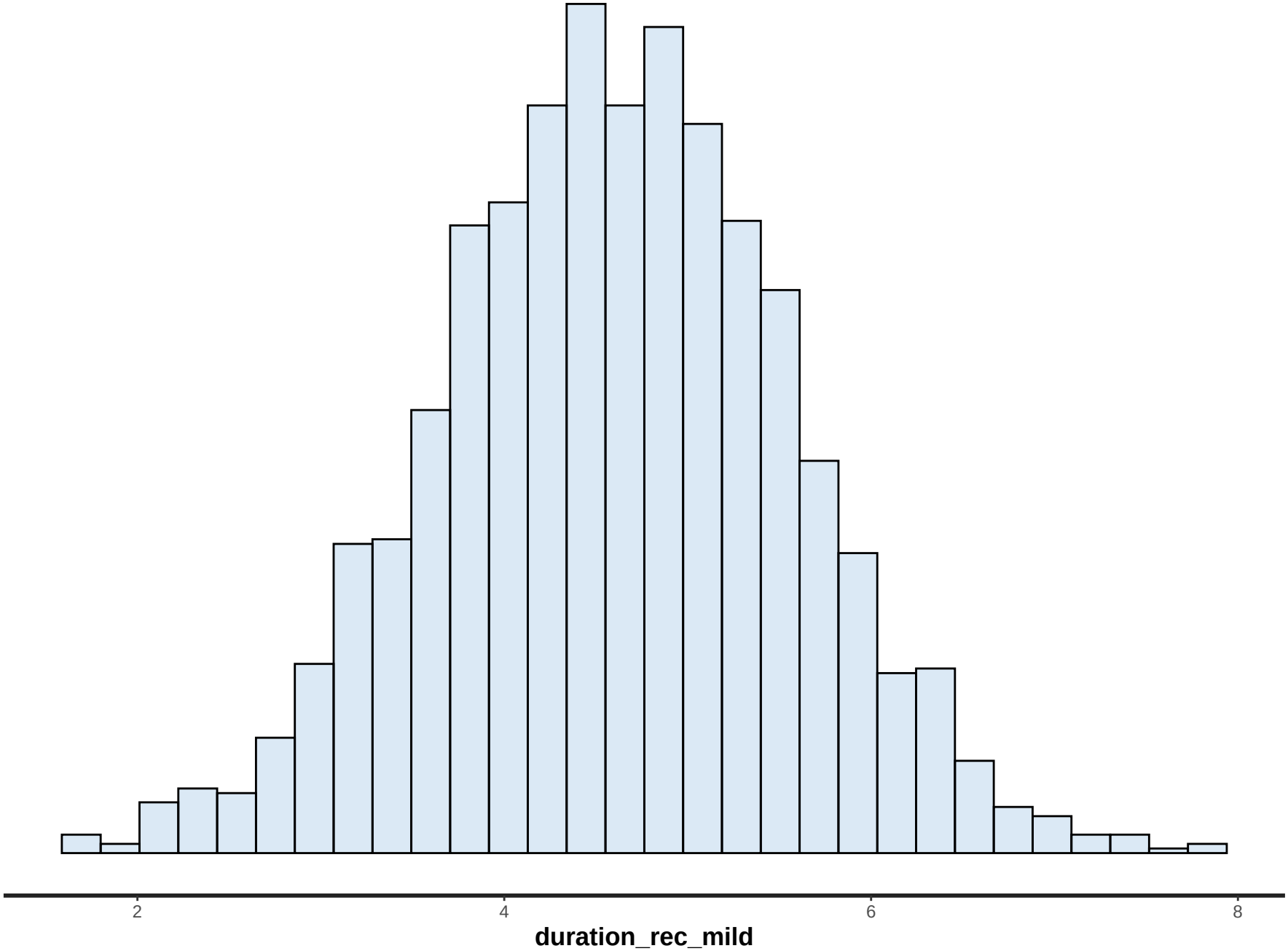
# Rt as of 2021−01−01

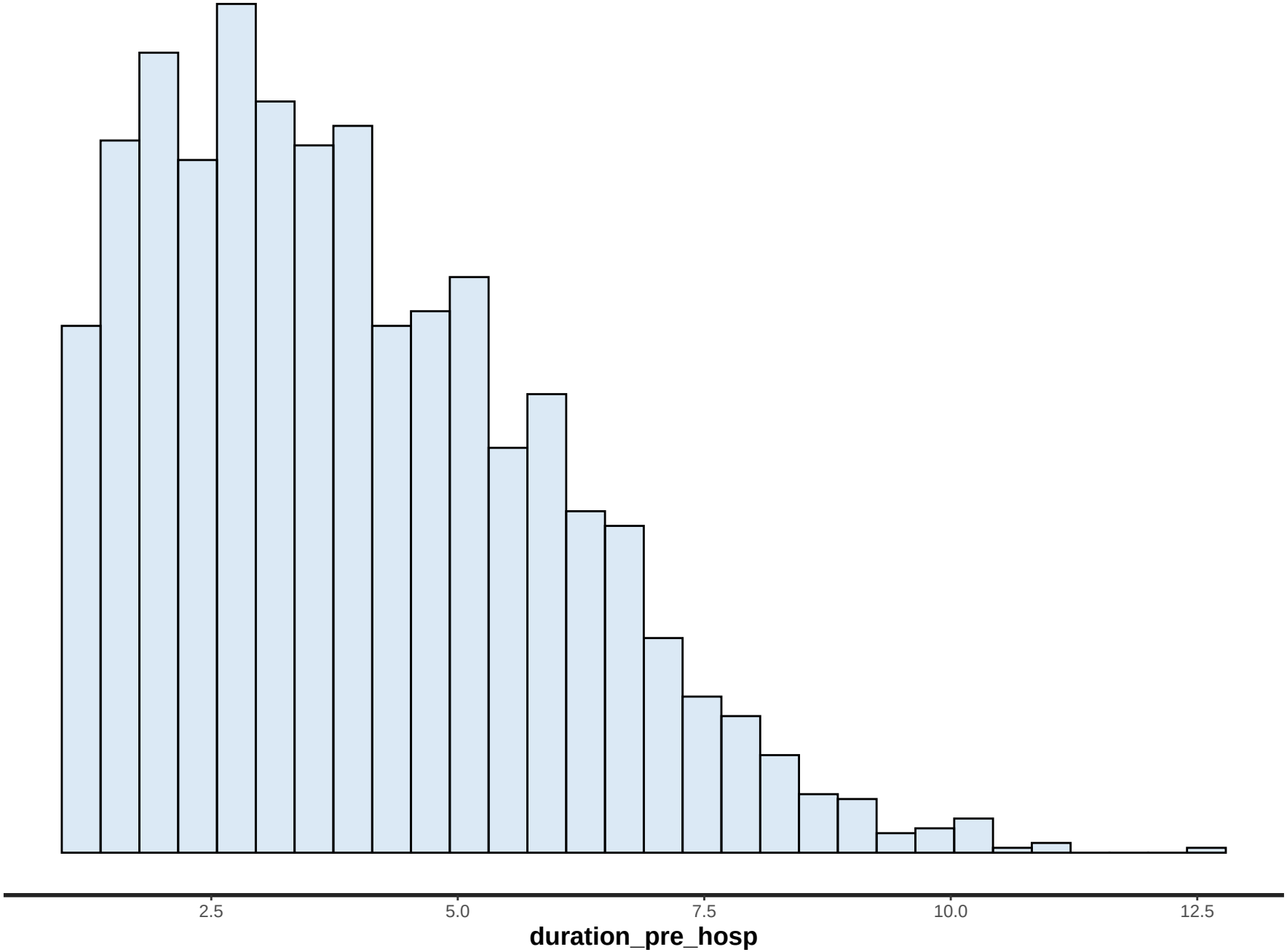
| 5% | 10% | 25% | 50% | 75% | 90% | 95% |
|---|---|---|---|---|---|---|
| 1.06 | 1.09 | 1.12 | 1.16 | 1.20 | 1.23 | 1.25 |

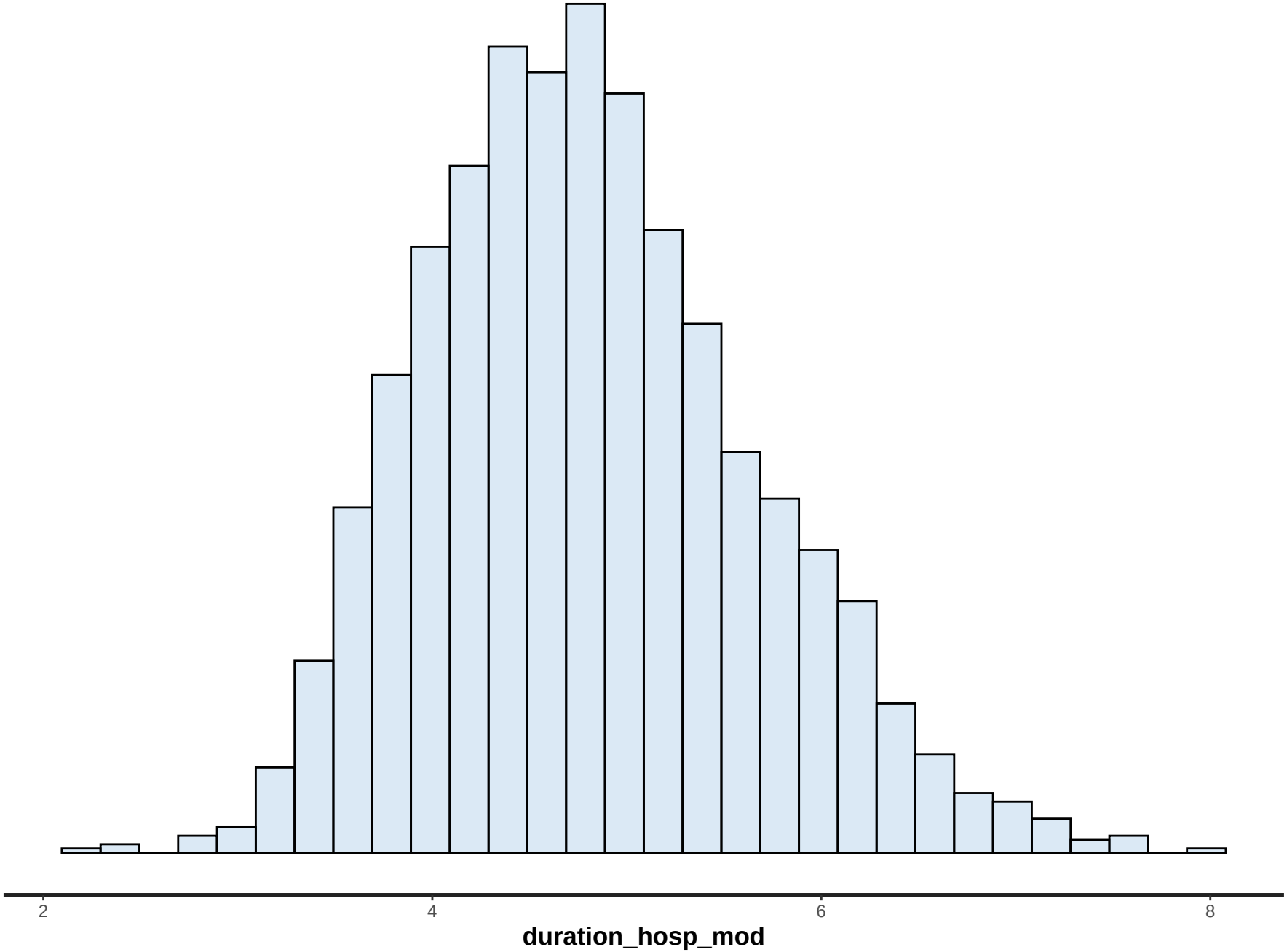


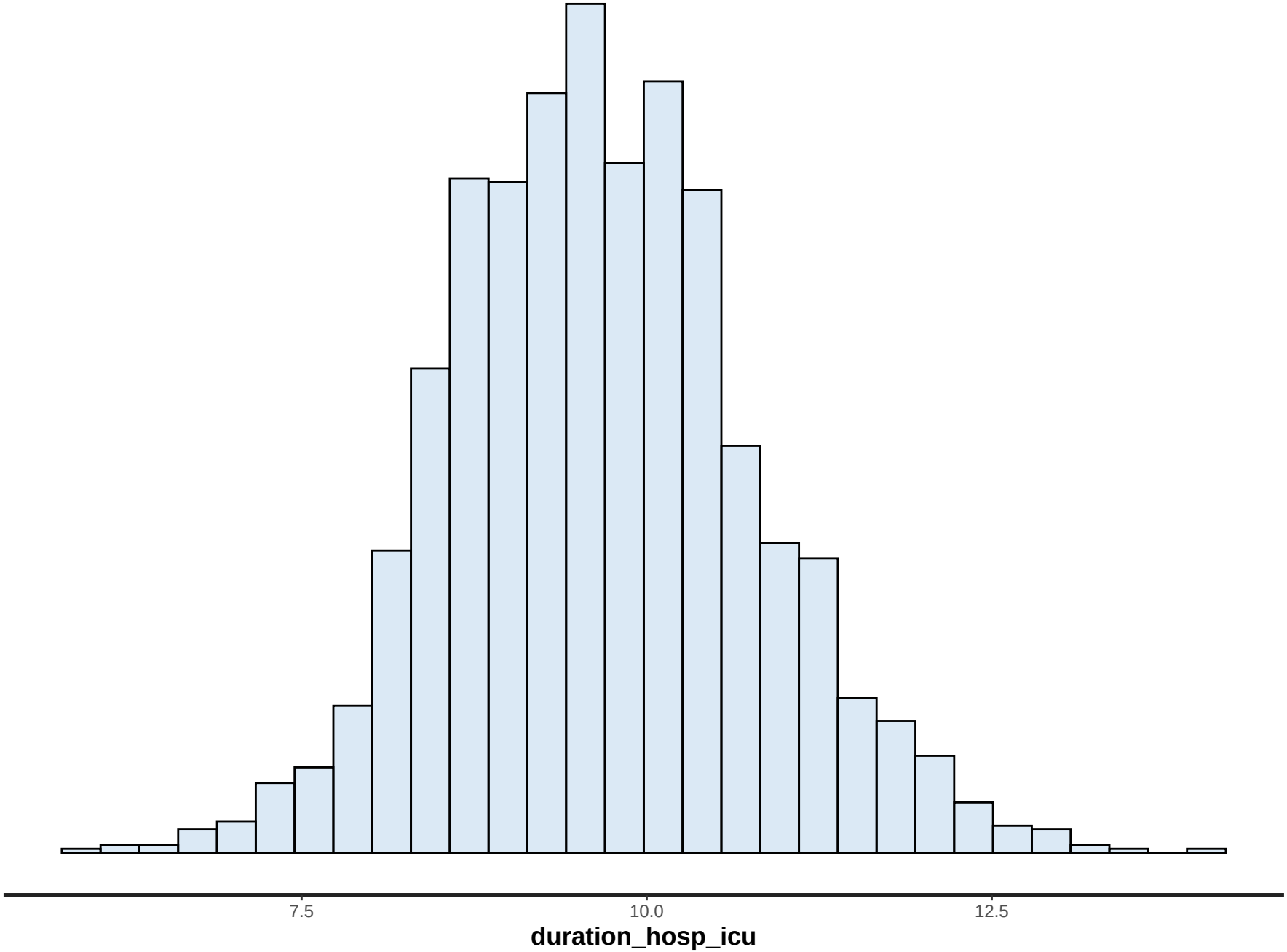

1.6
2.0
2.4
2.8
r0

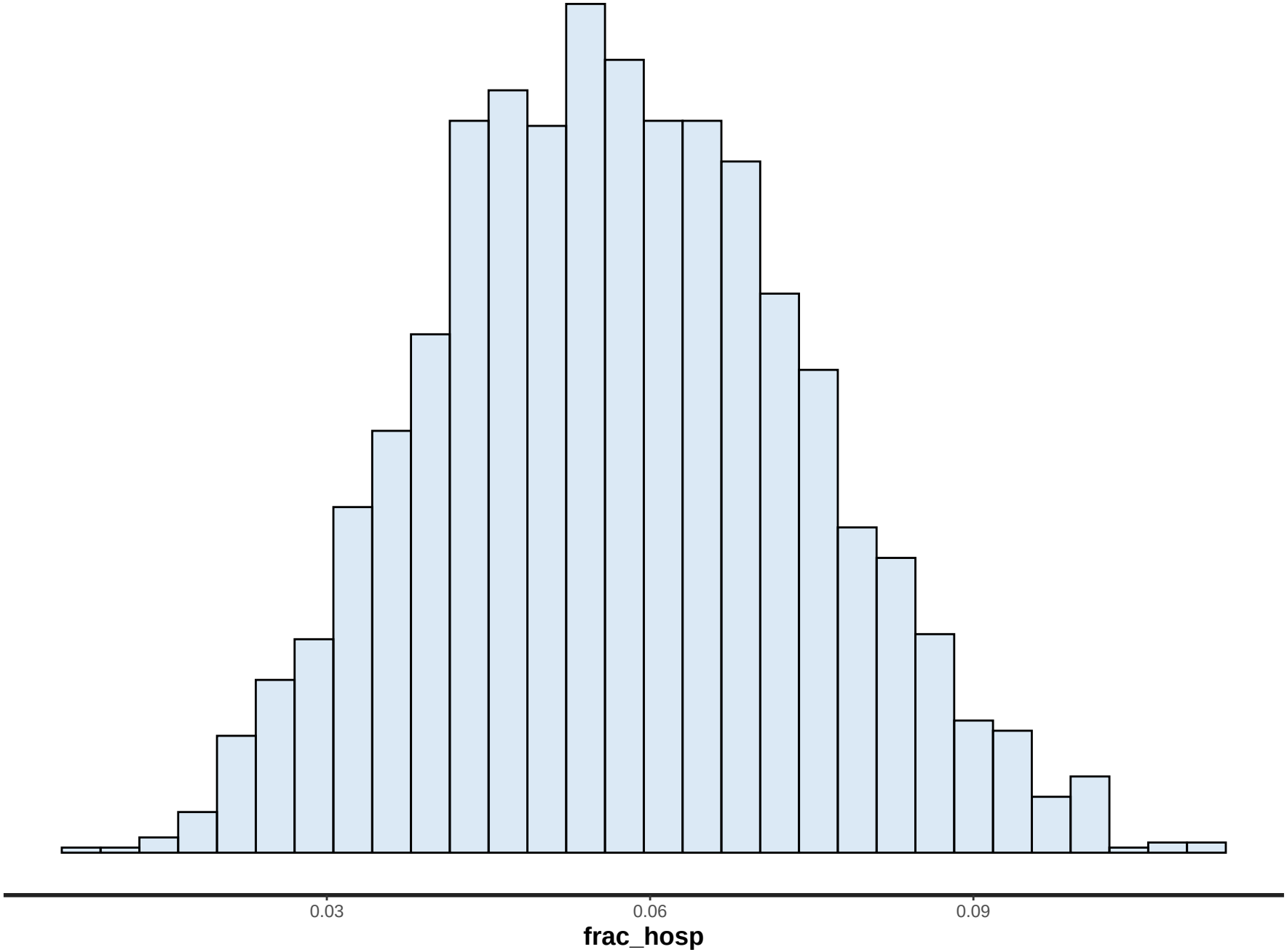

1
2
3
4
5
duration_latent

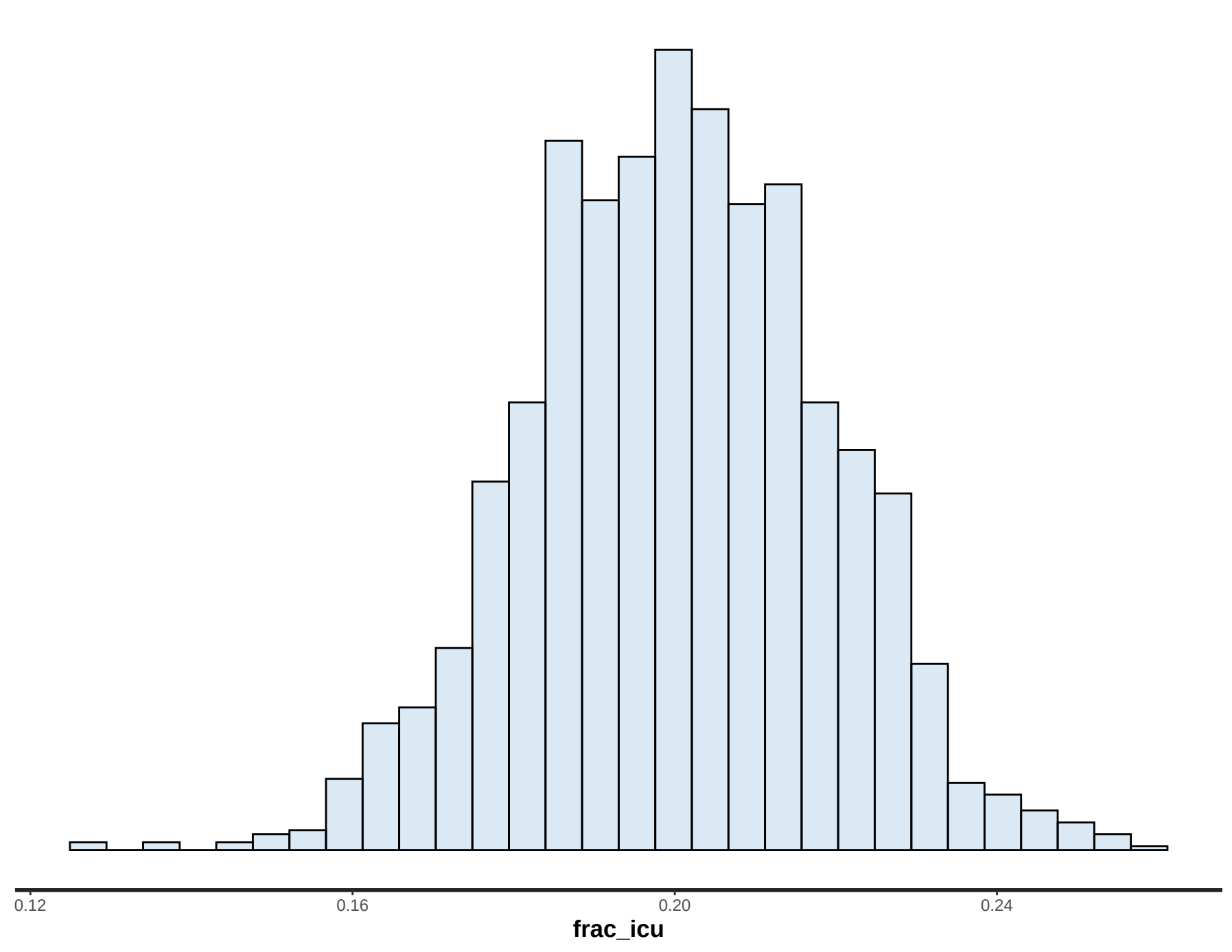

2
4
6
8
duration_rec_mild

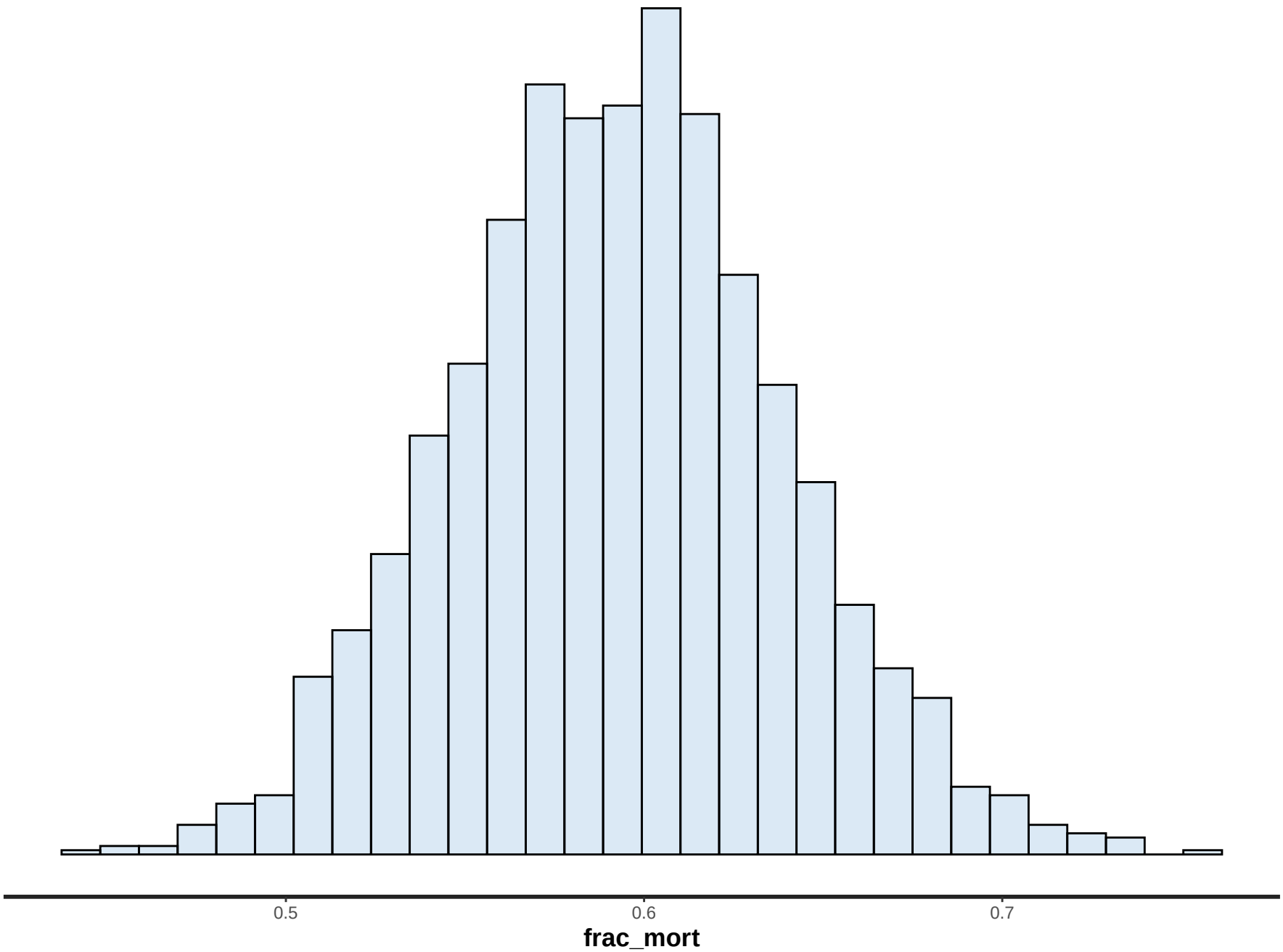

2.5
5.0
7.5
10.0
12.5
duration_pre_hosp

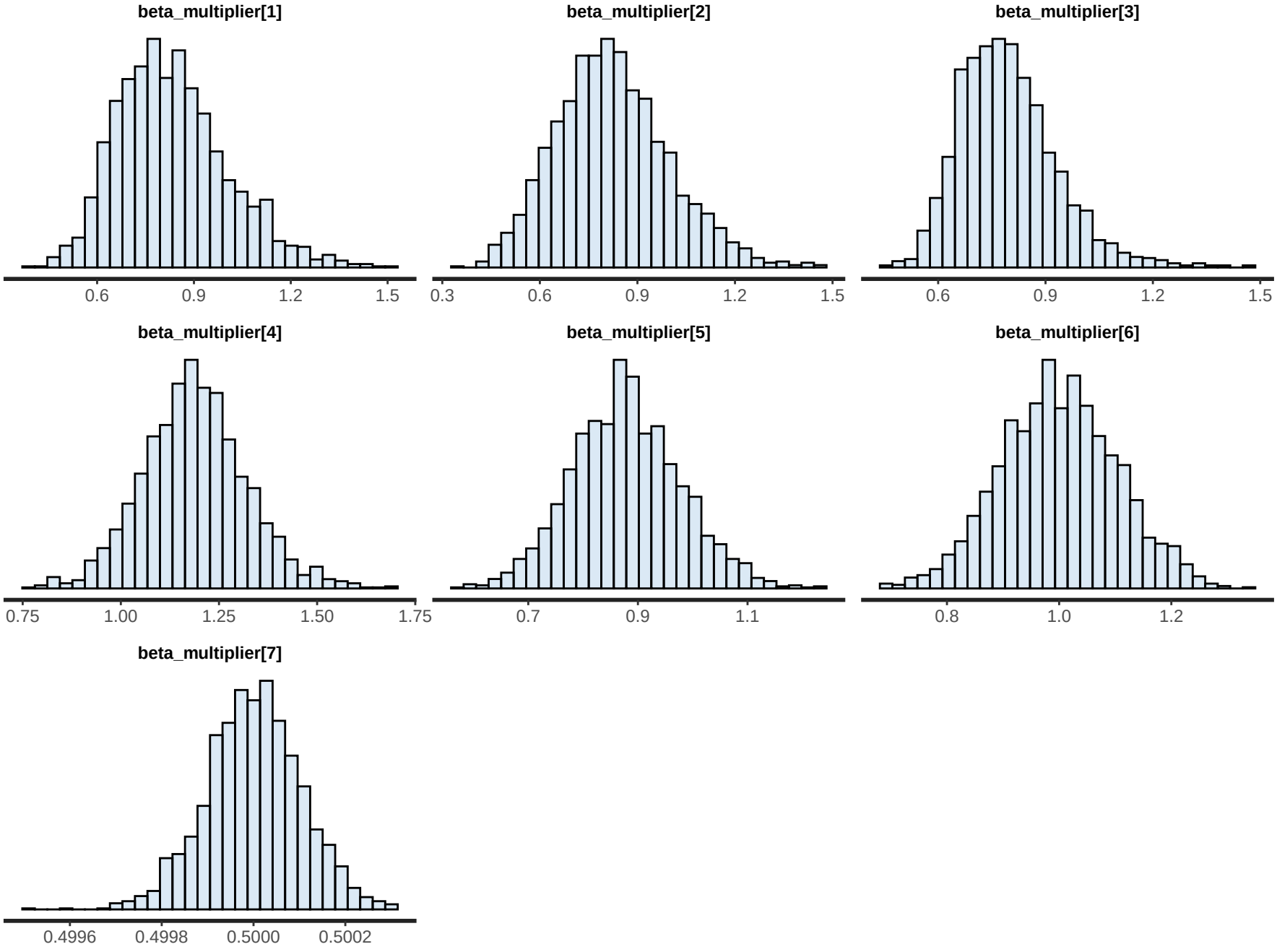

2
4
6
8
duration_hosp_mod

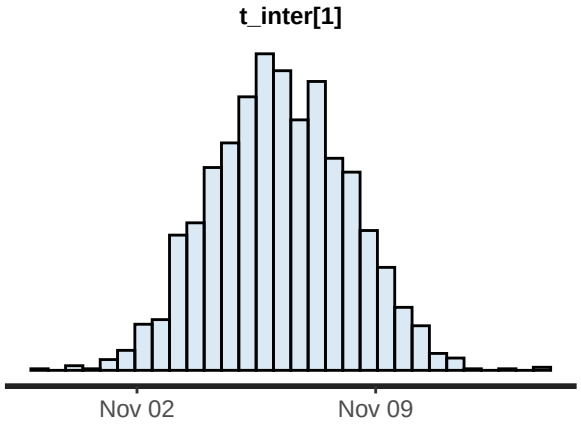

7.5
10.0
12.5
duration_hosp_icu

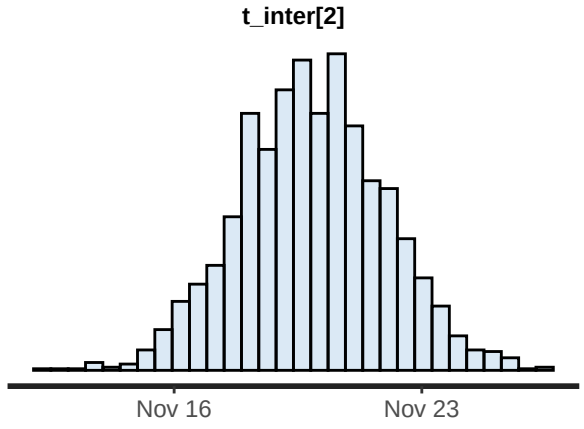

0.03
0.06
0.09
frac_hosp

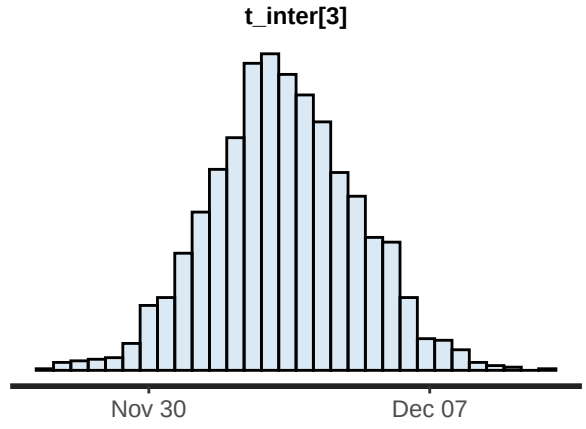

0.12
0.16
0.20
0.24
frac_icu


0.5
0.6
0.7
frac_mort


beta_multiplier[1]
0.6
0.9
1.2
1.5
beta_multiplier[2]
0.3
0.6
0.9
1.2
1.5
beta_multiplier[3]
0.6
0.9
1.2
1.5
beta_multiplier[4]
0.75
1.00
1.25
1.50
1.75
beta_multiplier[5]
0.7
0.9
1.1
beta_multiplier[6]
0.8
1.0
1.2
beta_multiplier[7]
0.4996
0.4998
0.5000
0.5002


t_inter[1]
Nov 02
Nov 09


t_inter[2]
Nov 16
Nov 23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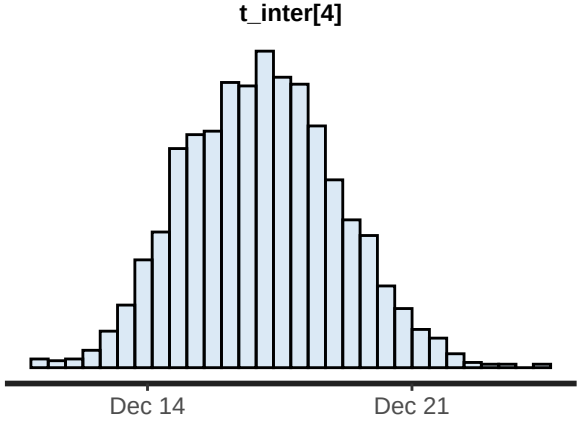
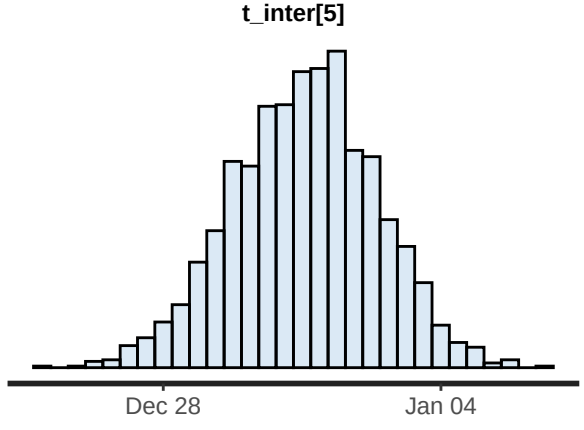
Nov 30
Dec 07


t_inter[4]
Dec 14
Dec 21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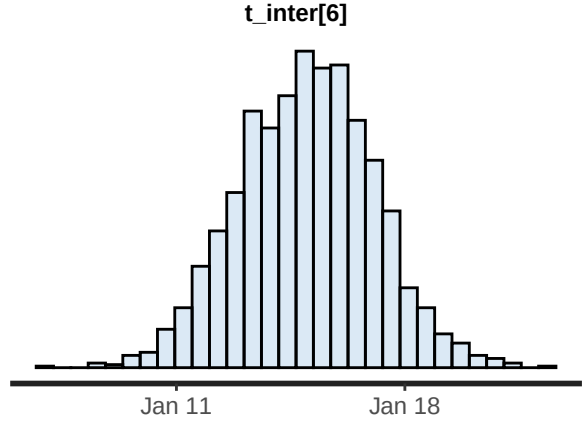
Dec 28
Jan 04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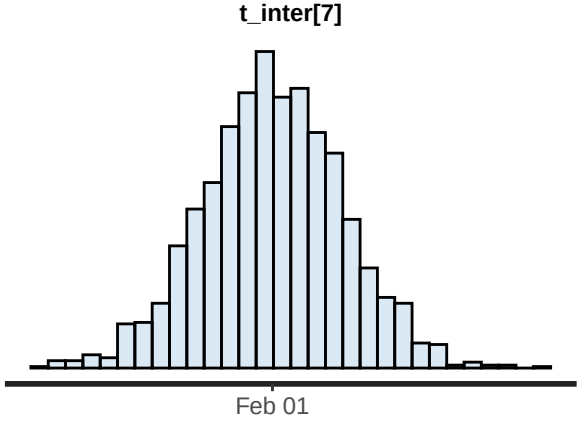
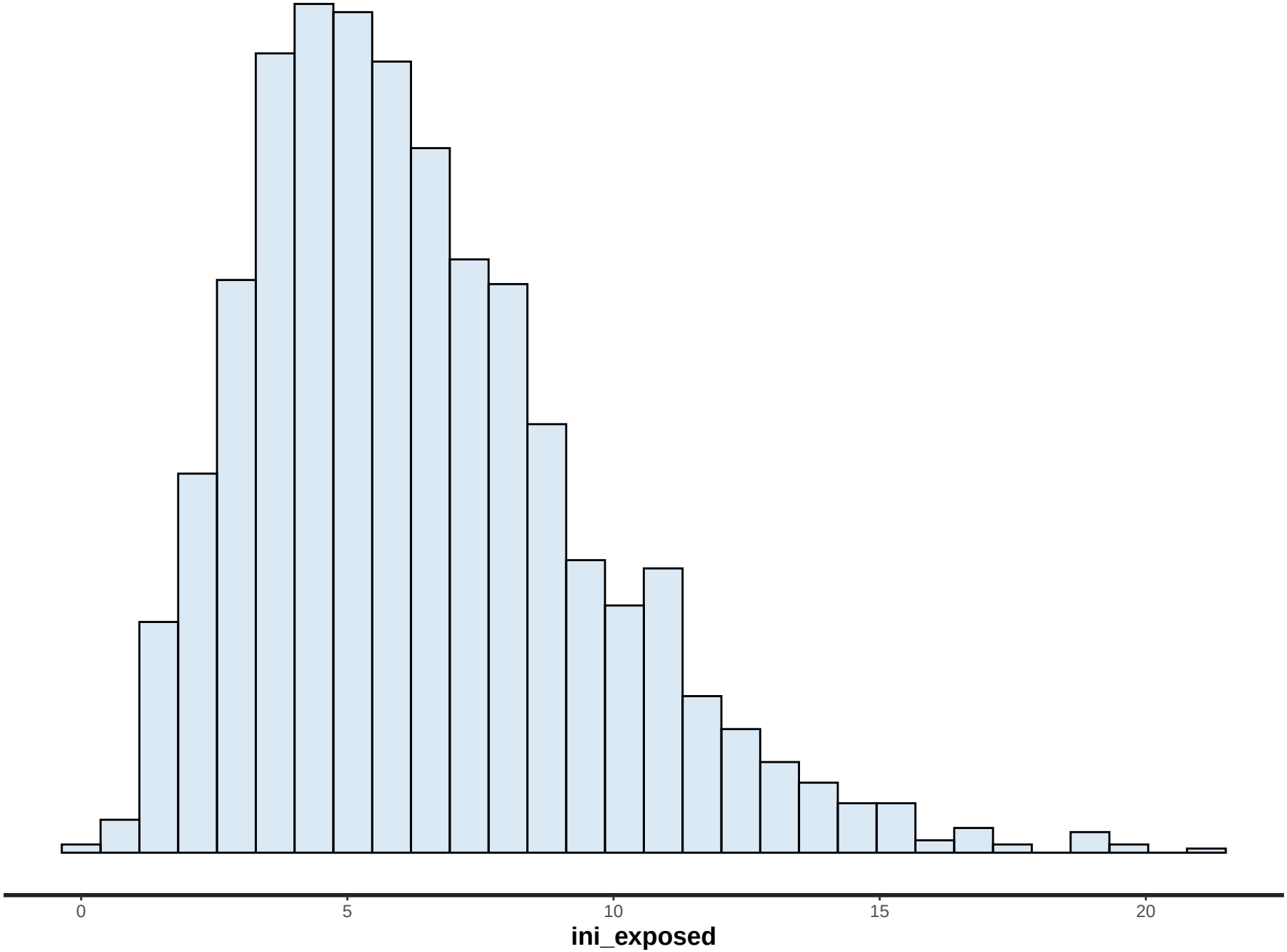
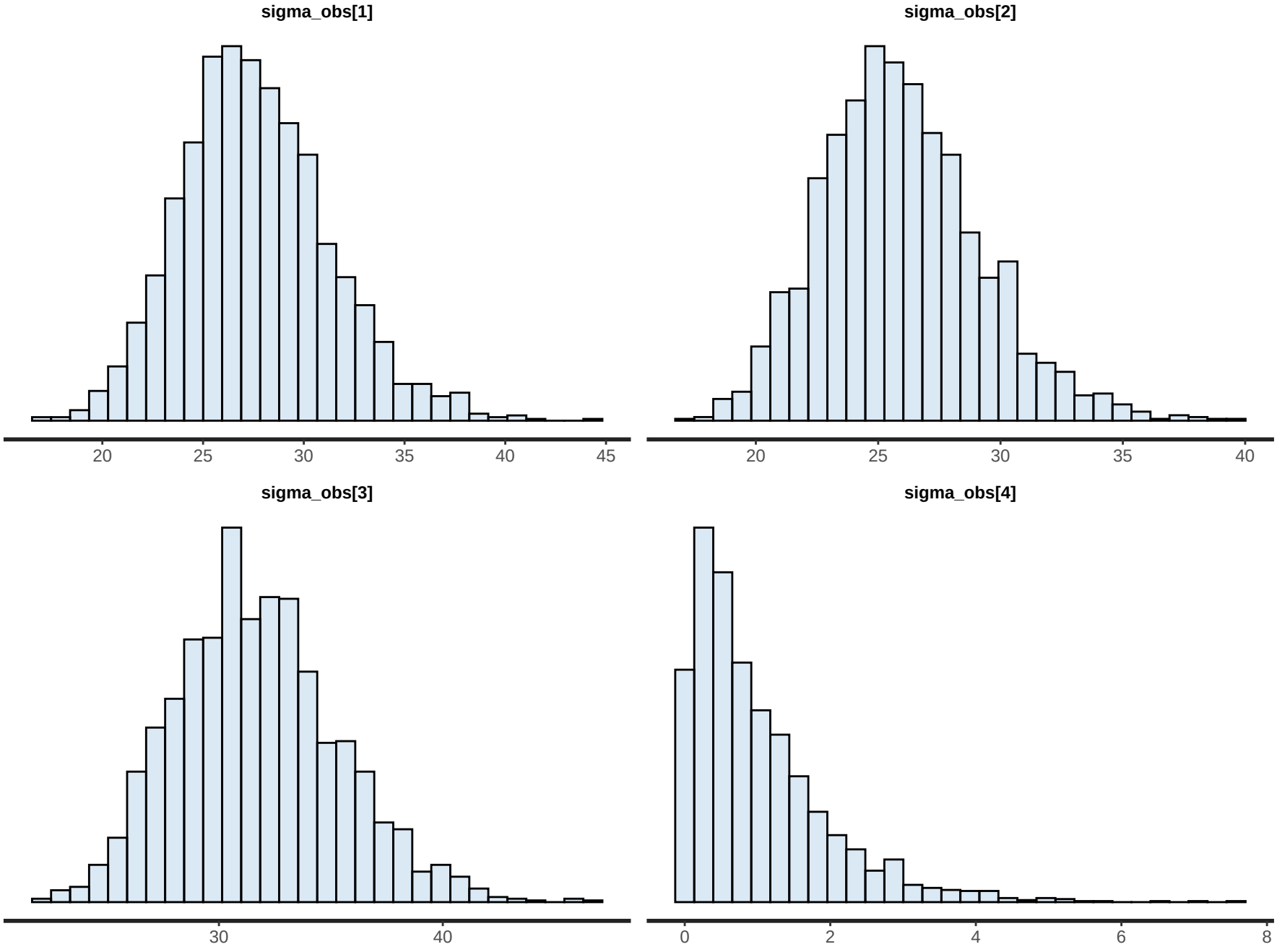
Jan 11
Jan 18


t_inter[7]
Feb 01


0
5
10
15
20
ini_exposed


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