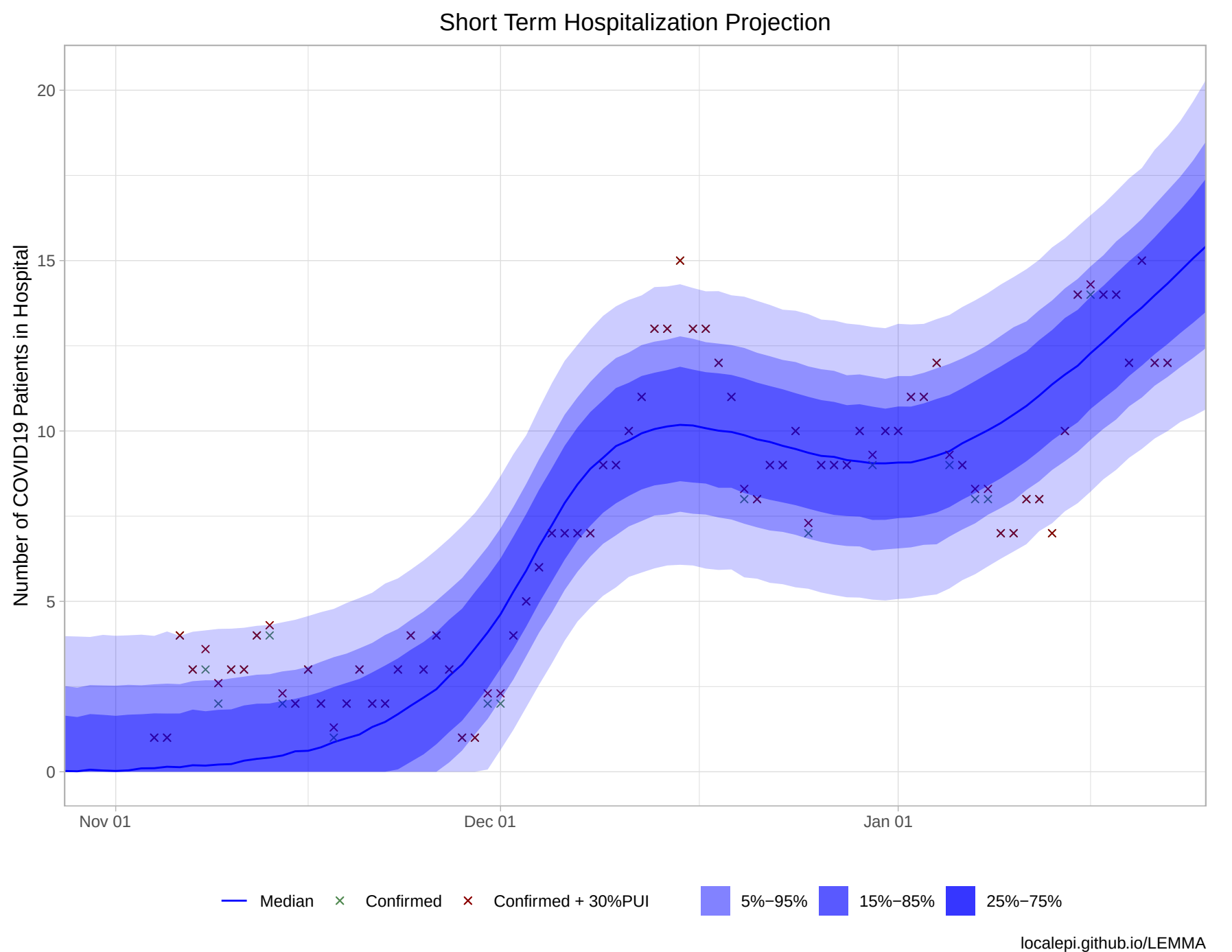
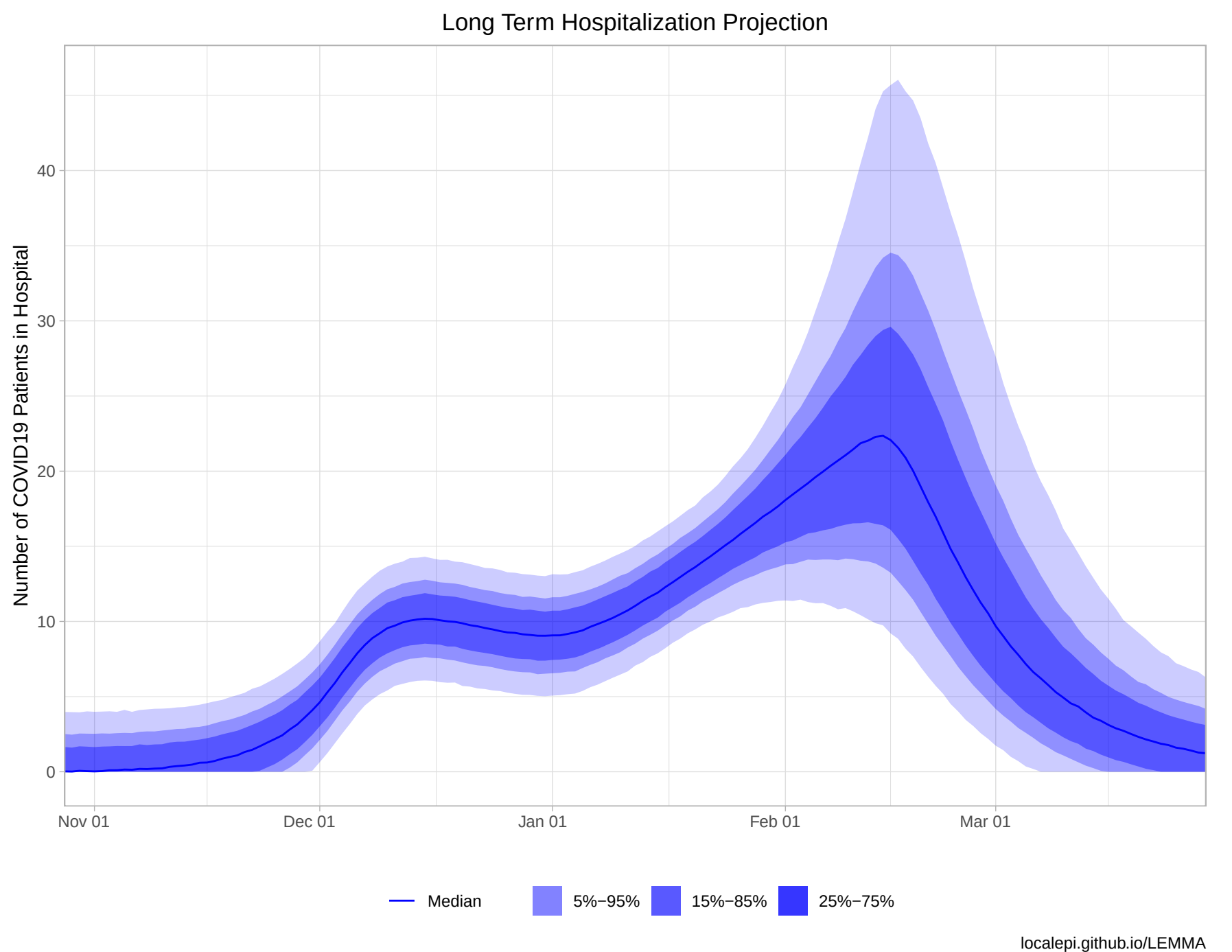
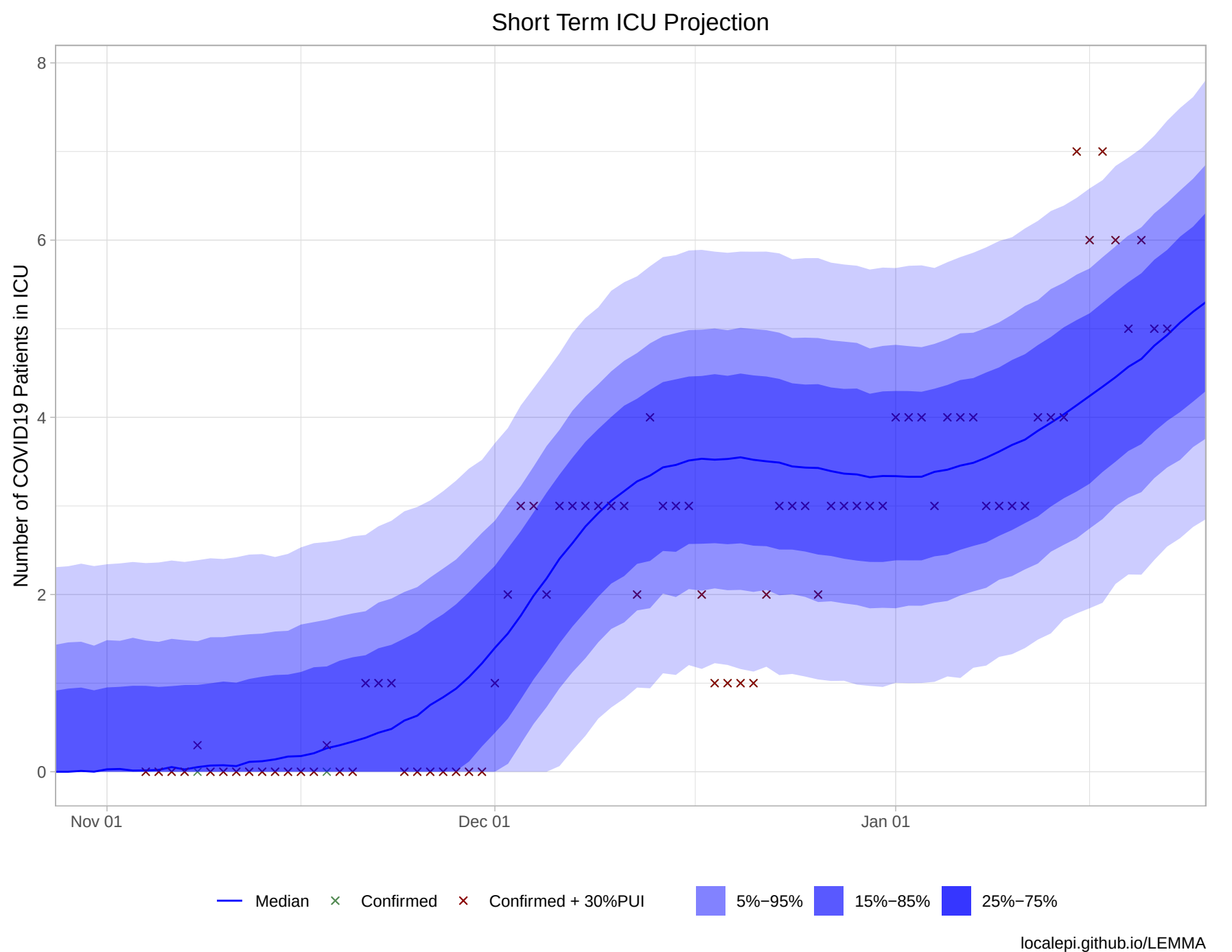
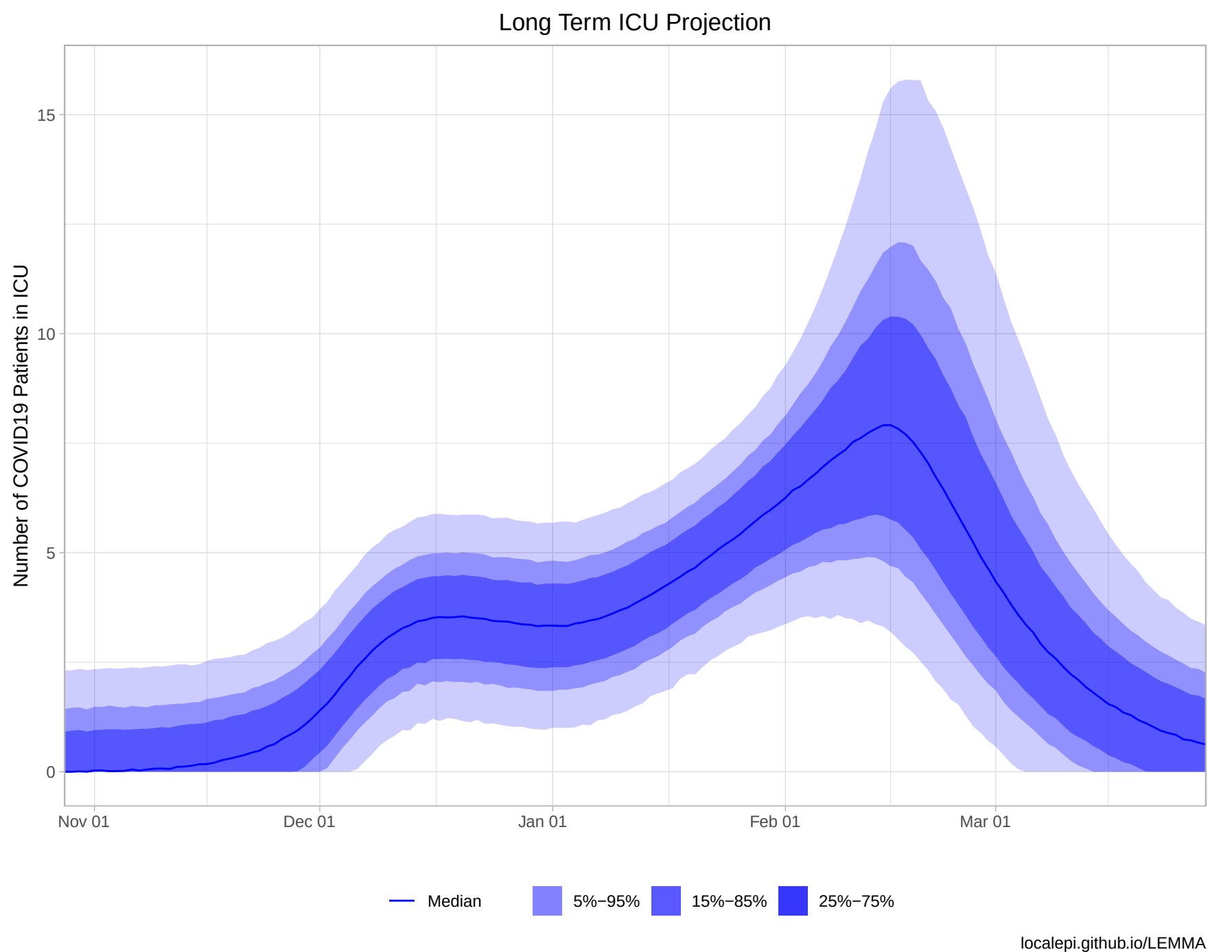
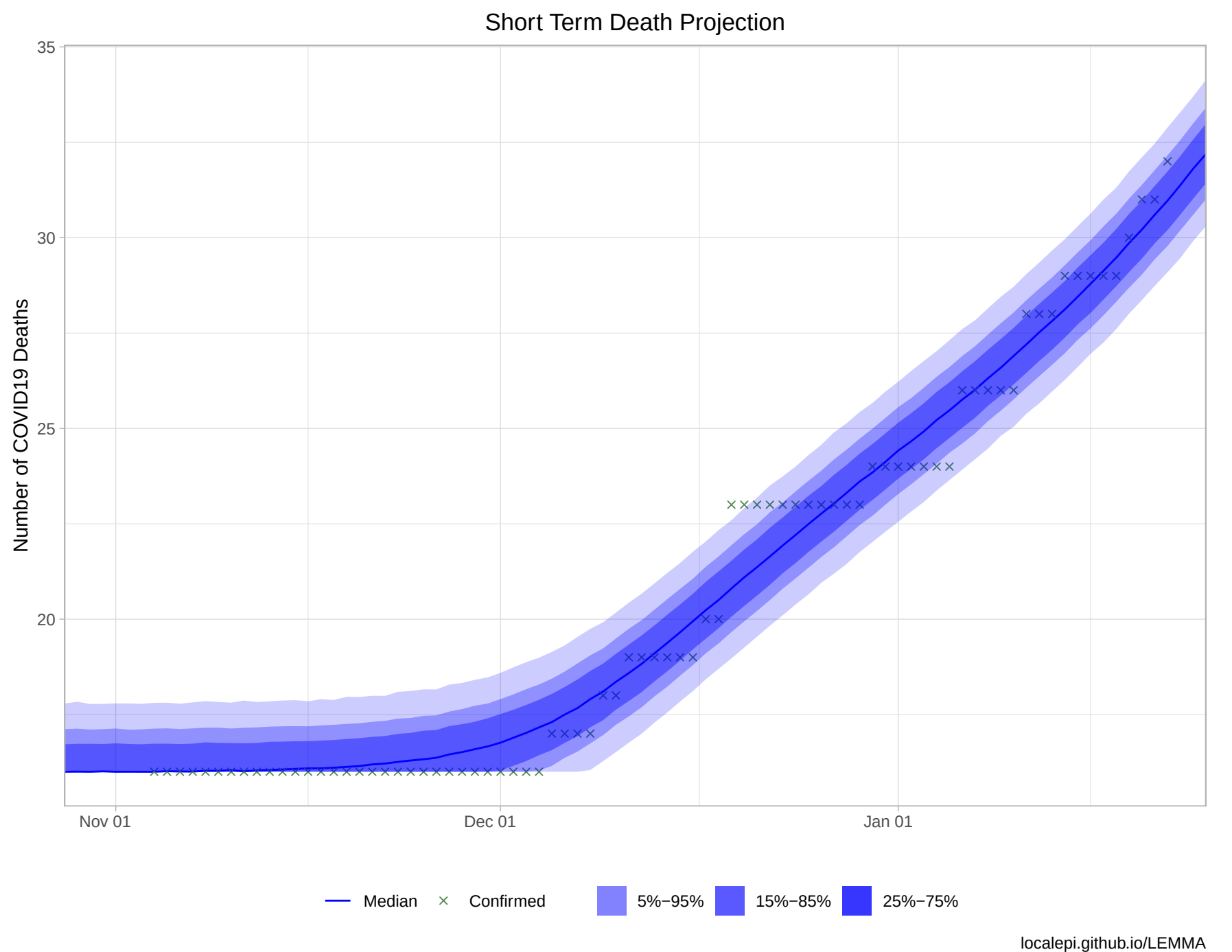
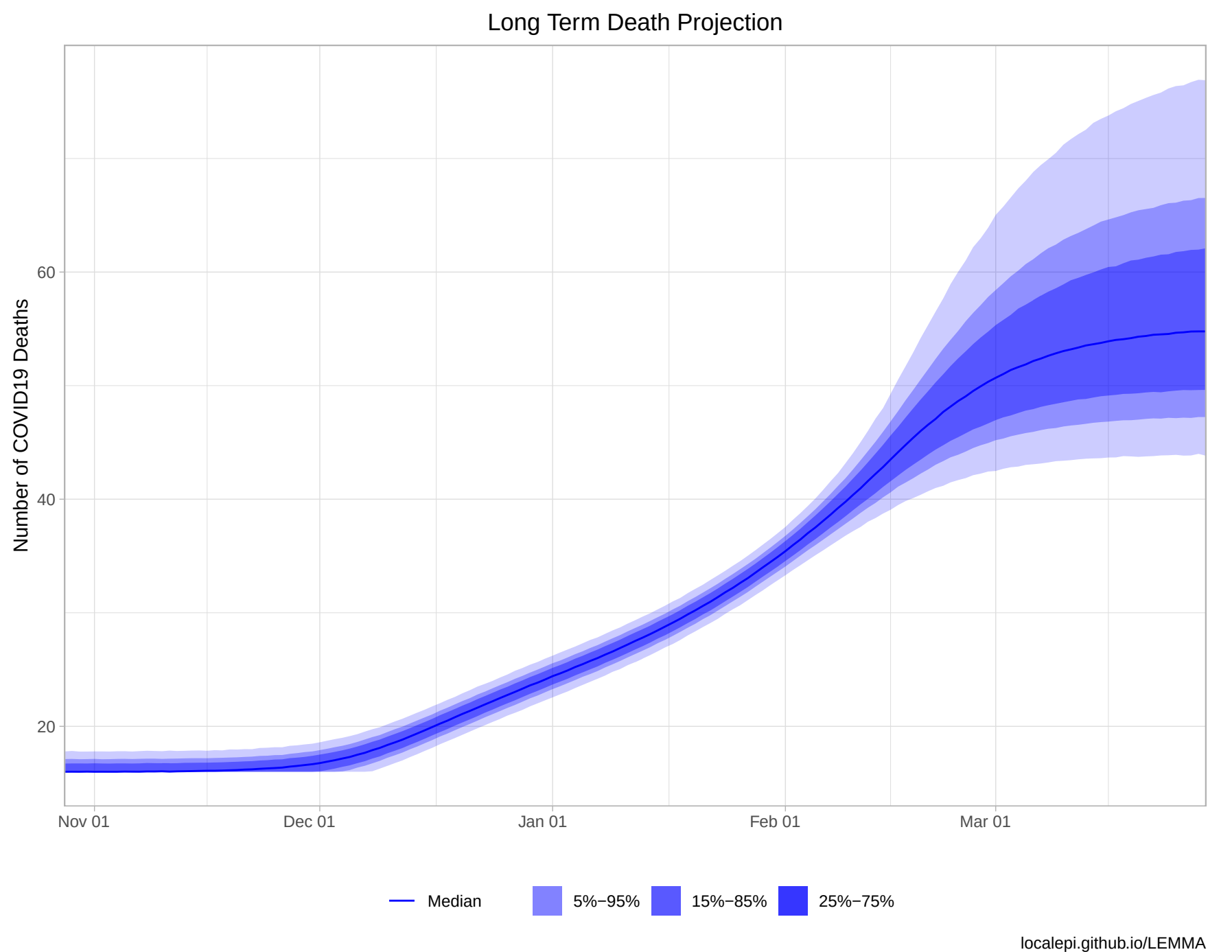

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
20
15
10
5
0
Nov 01
Dec 01
Jan 01
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

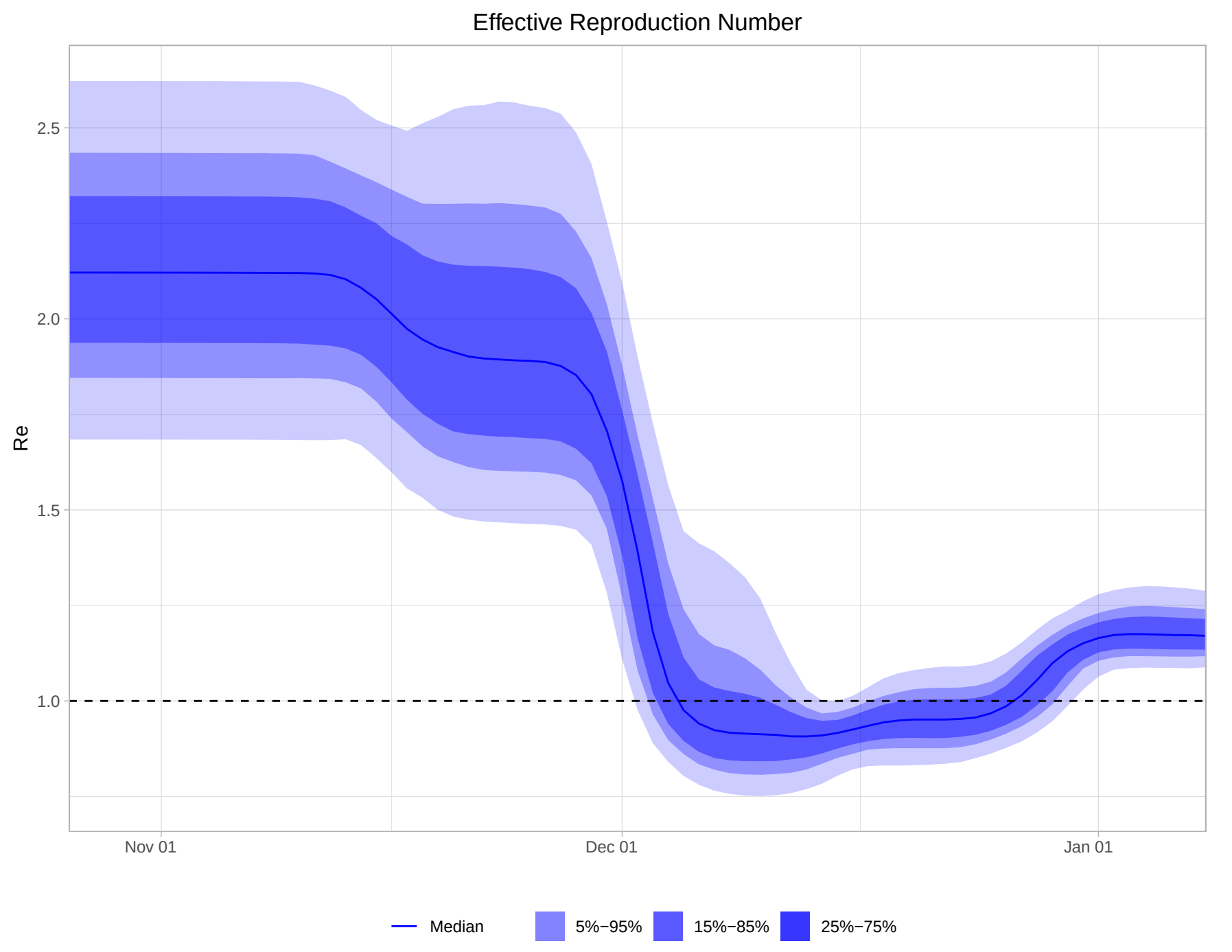

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
10
20
30
40
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


Short Term ICU Projection
Number of COVID19 Patients in ICU
0
2
4
6
8
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
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

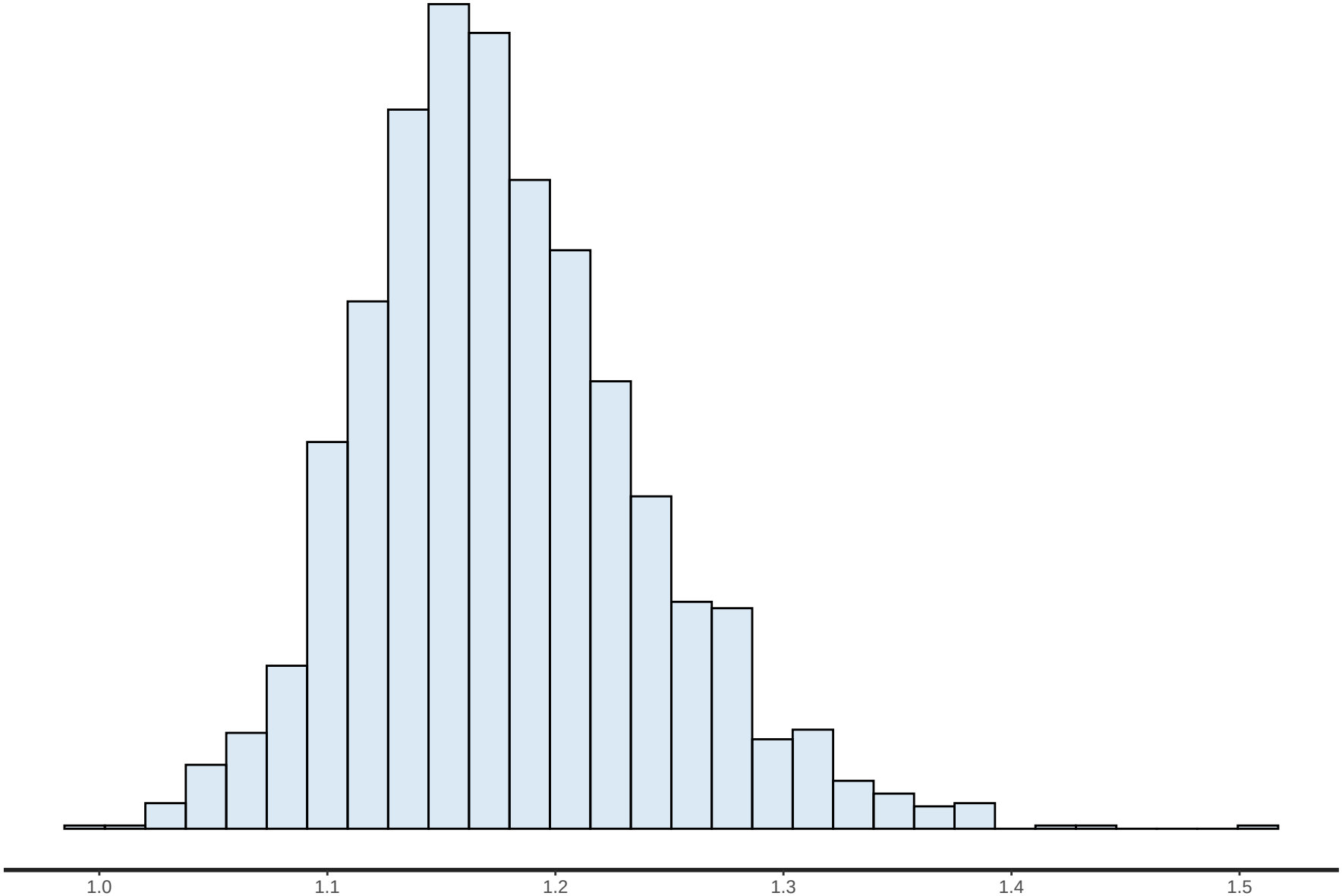

Short Term Death Projection
Number of COVID19 Deaths
35
30
25
20
Nov 01
Dec 01
Jan 01
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

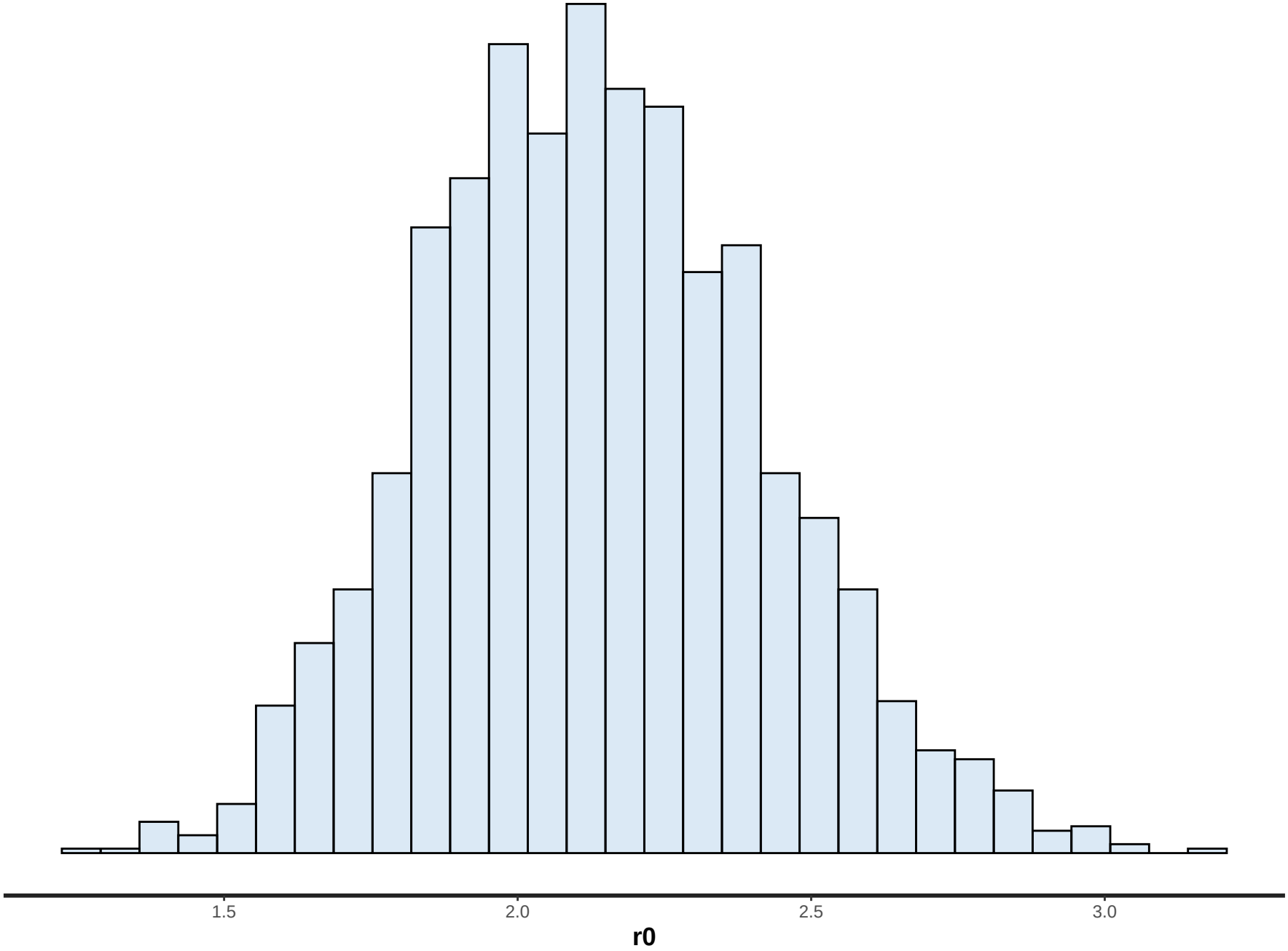

Long Term Death Projection
Number of COVID19 Deaths
60
40
20
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

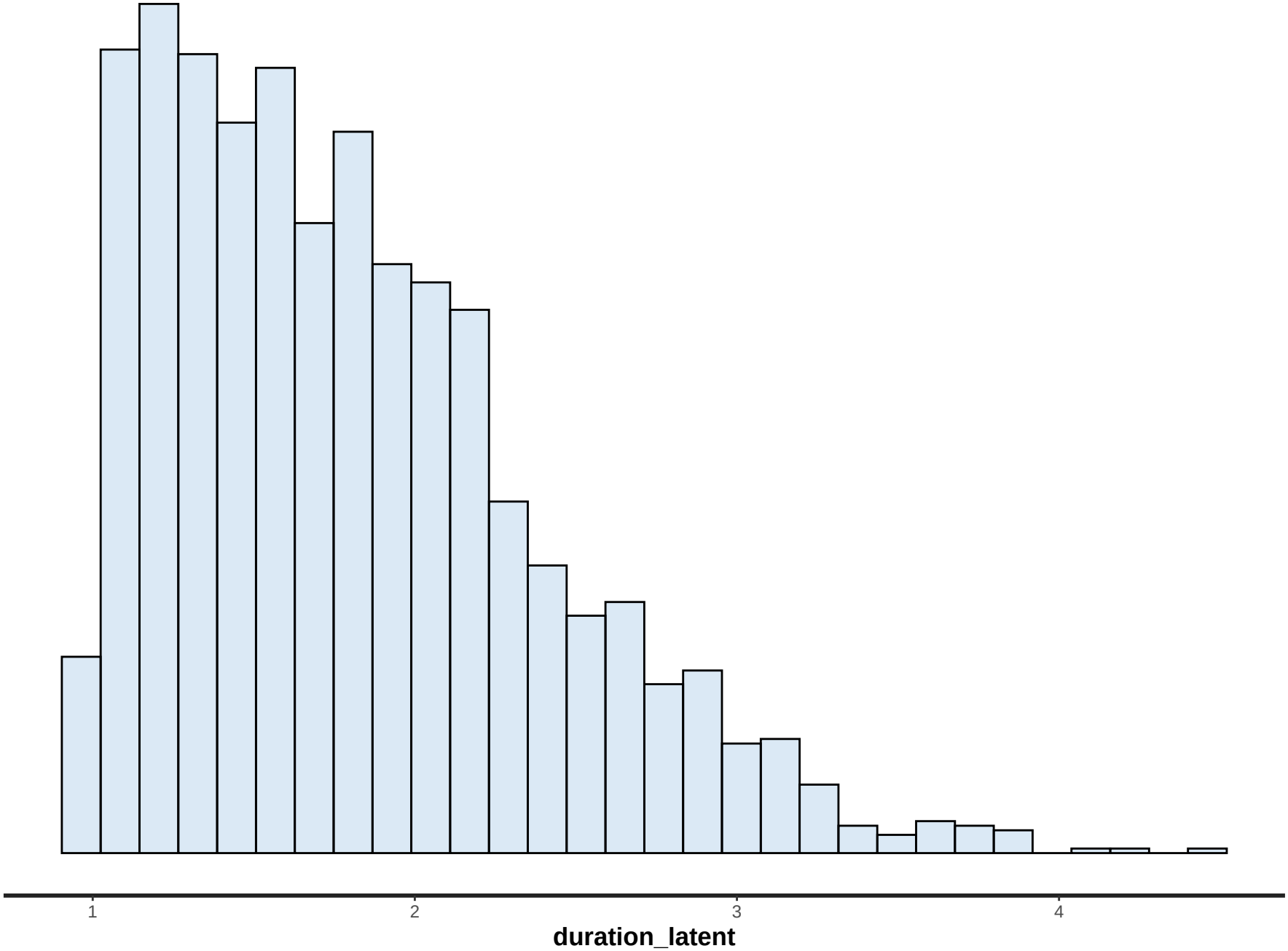

Effective Reproduction Number
Re
2.5
2.0
1.5
1.0
Nov 01
Dec 01
Jan 01
Median
5%−95%
15%−85%
25%−75%

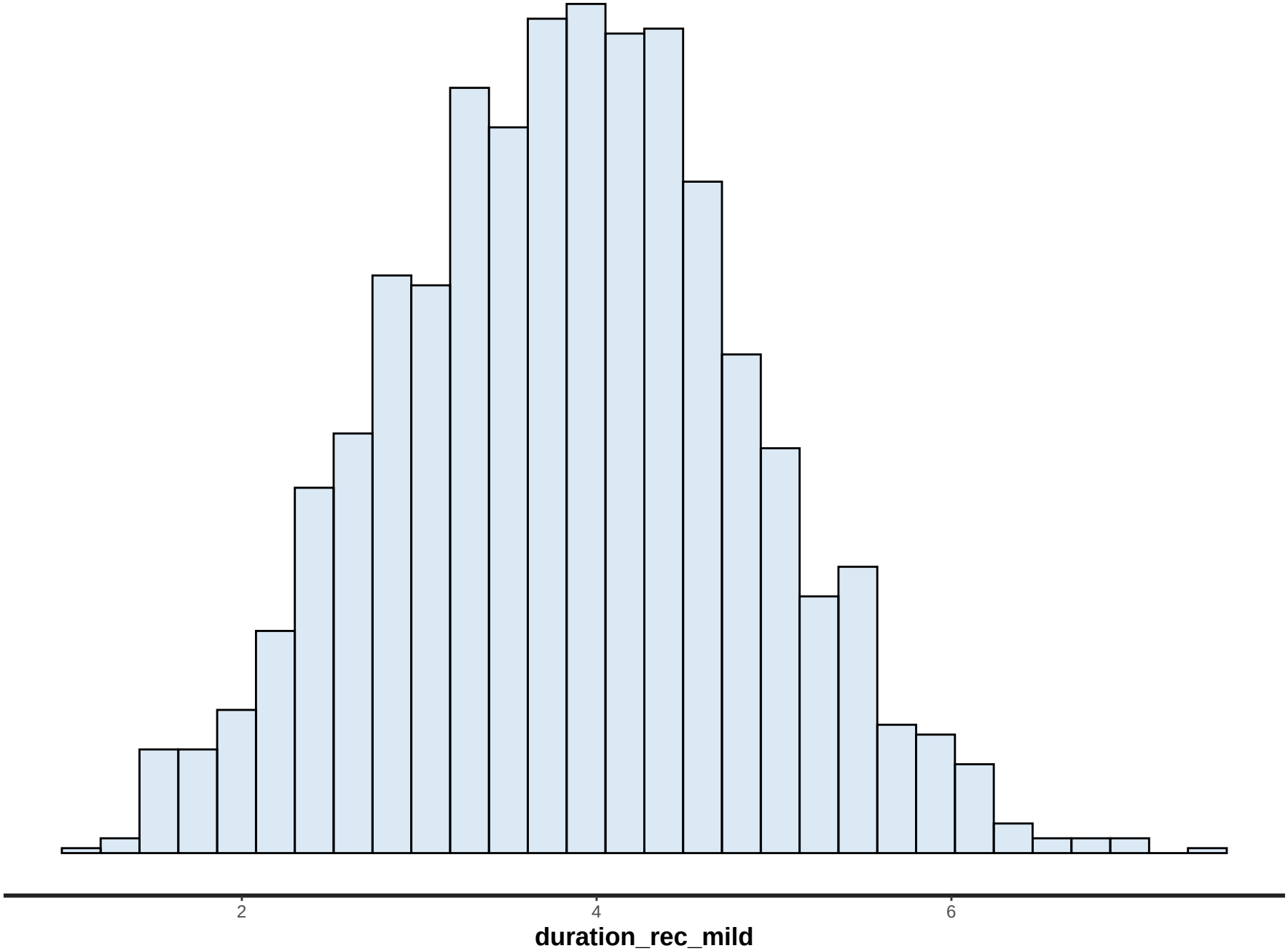
Rt as of 2021−01−08

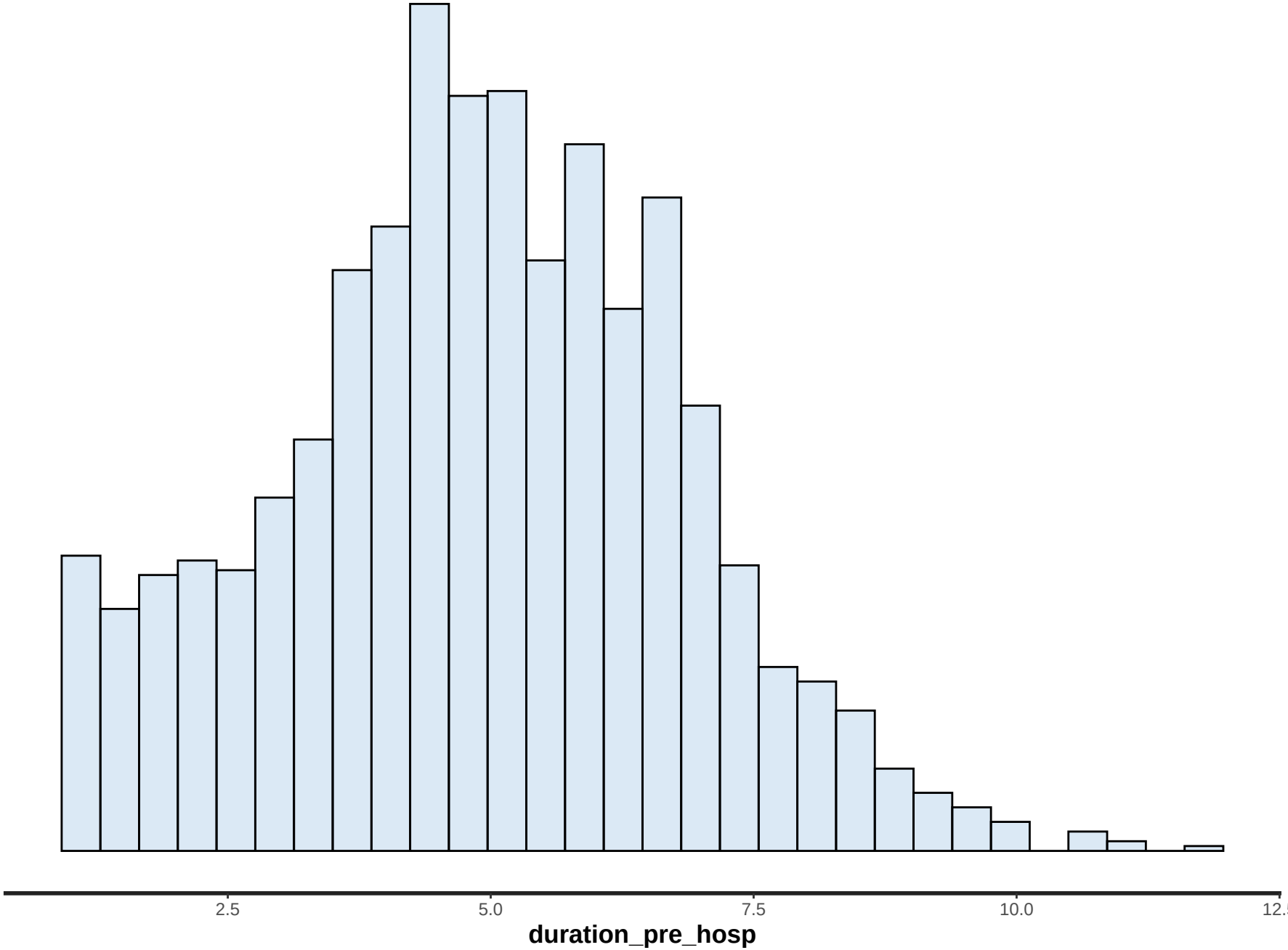
5%	10%	25%	50%	75%	90%	95%
1.09	1.11	1.13	1.17	1.21	1.26	1.29

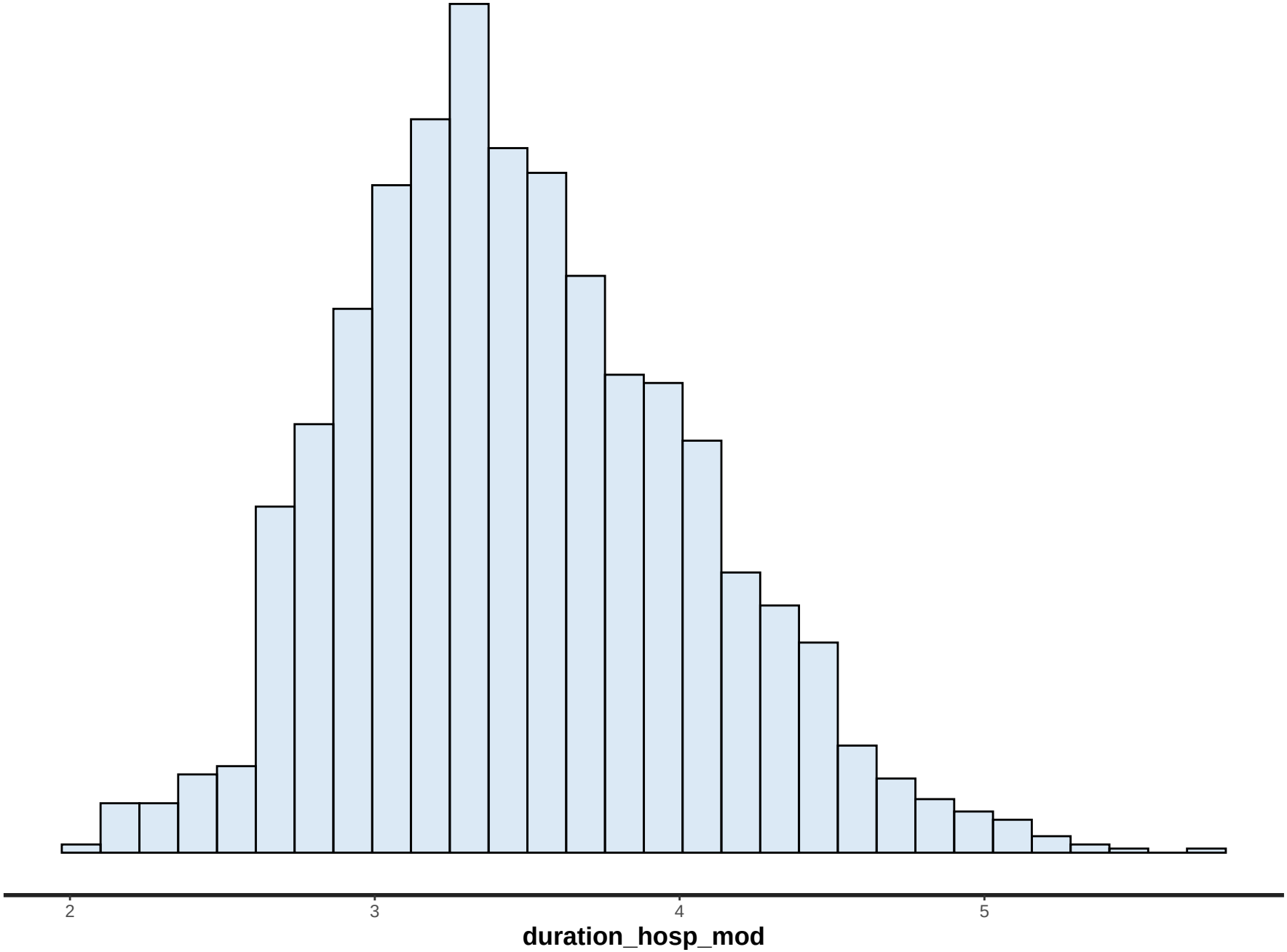


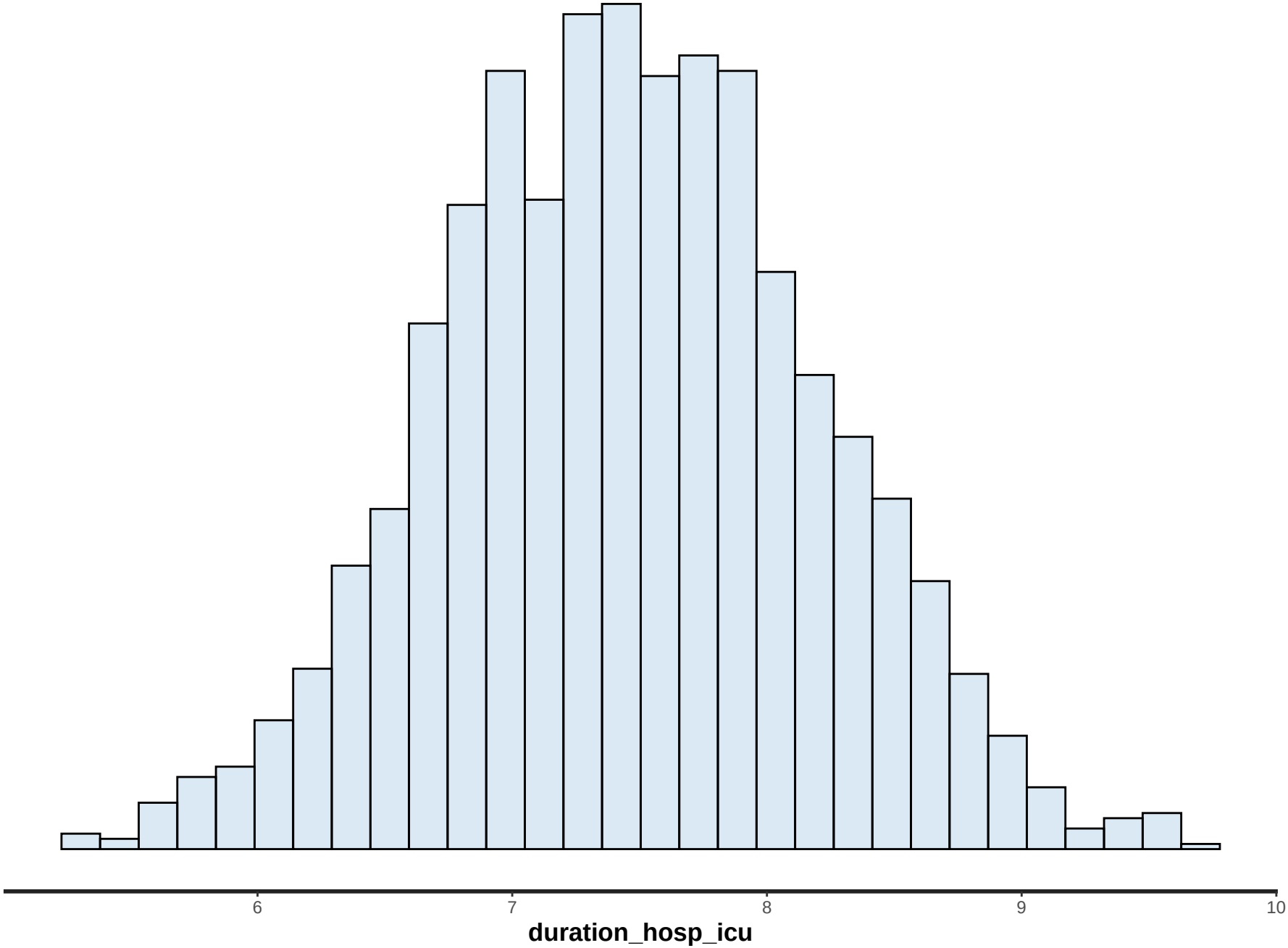

1.5
2.0
2.5
3.0
r0

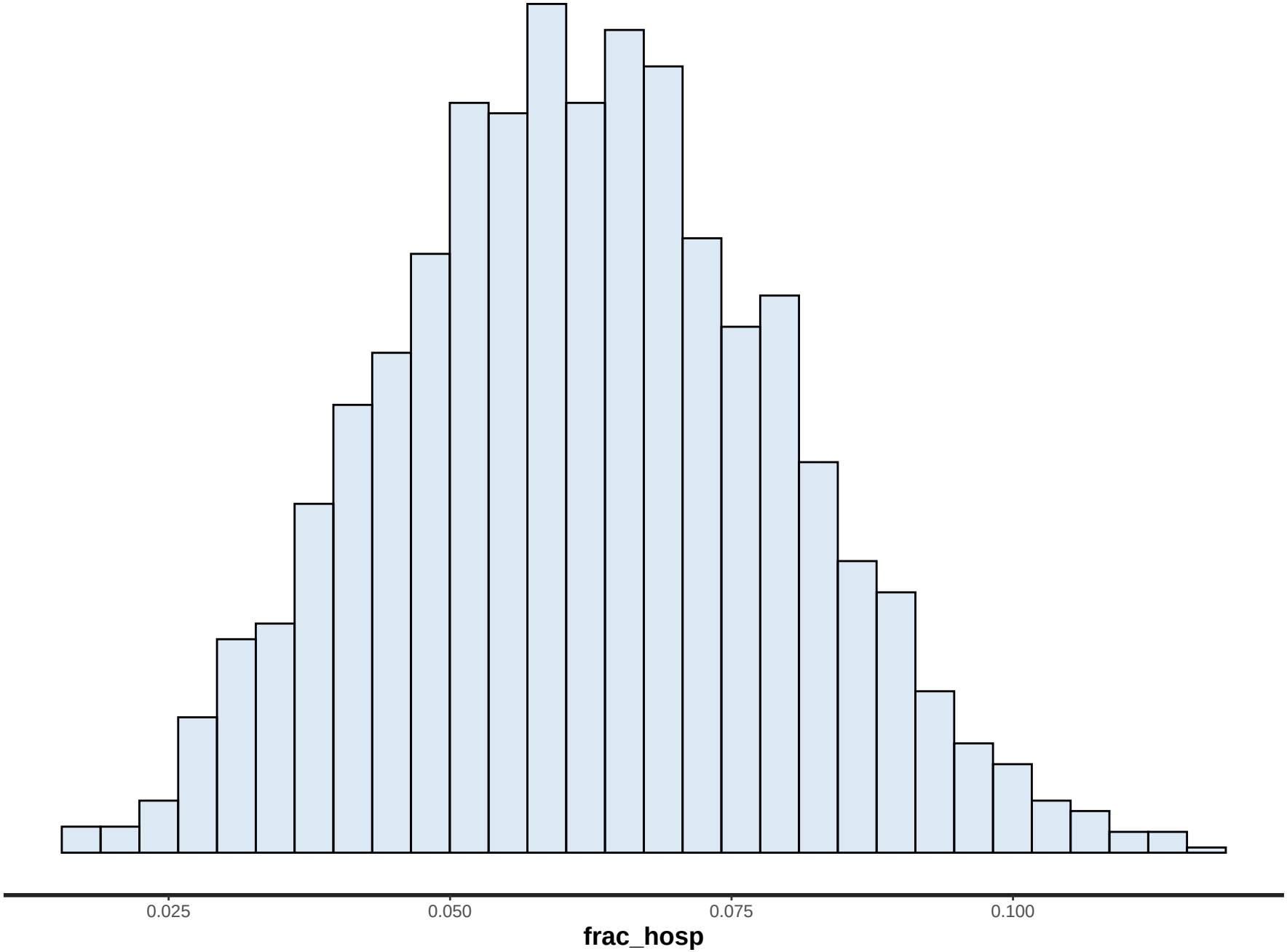

1
2
3
4
duration_latent

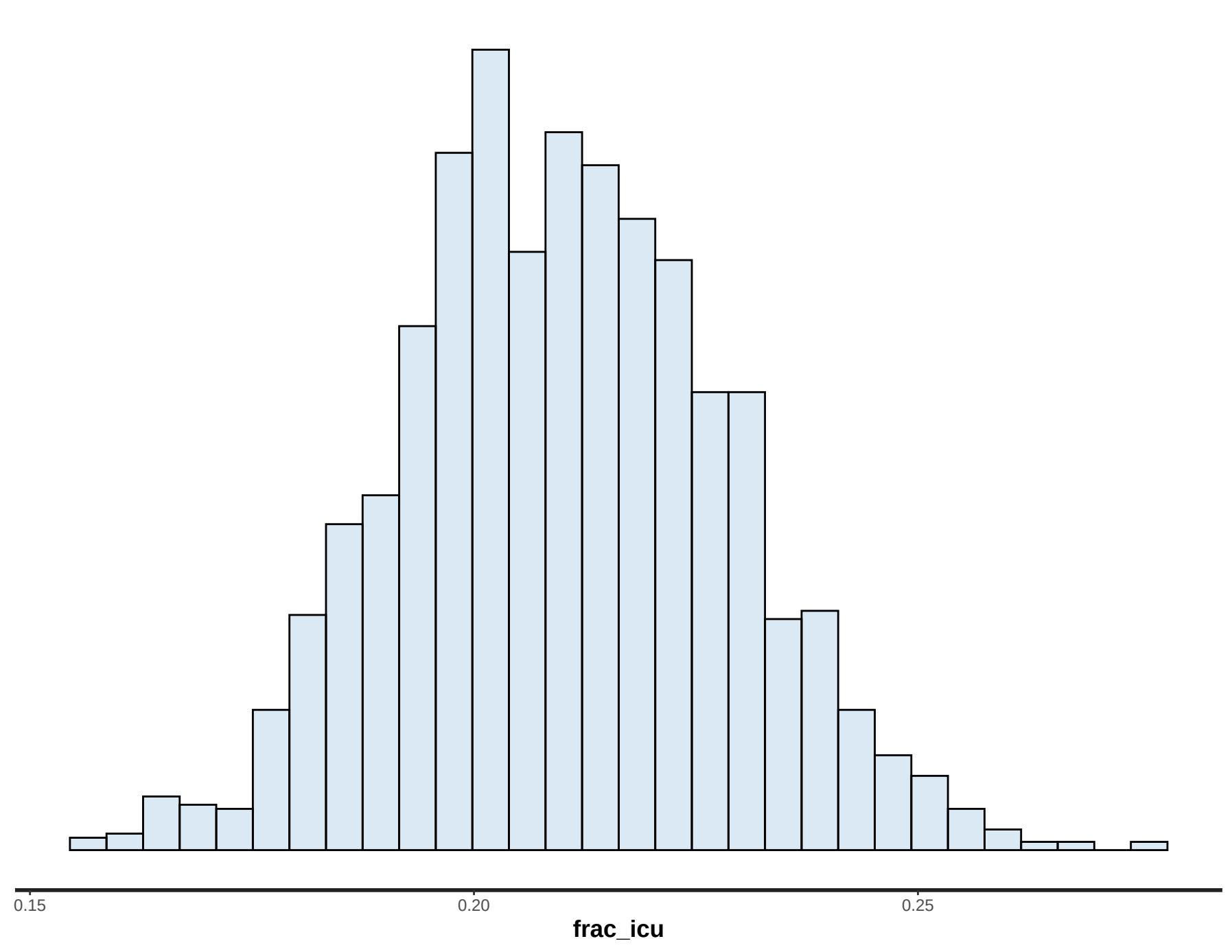

2
4
6
duration_rec_mild

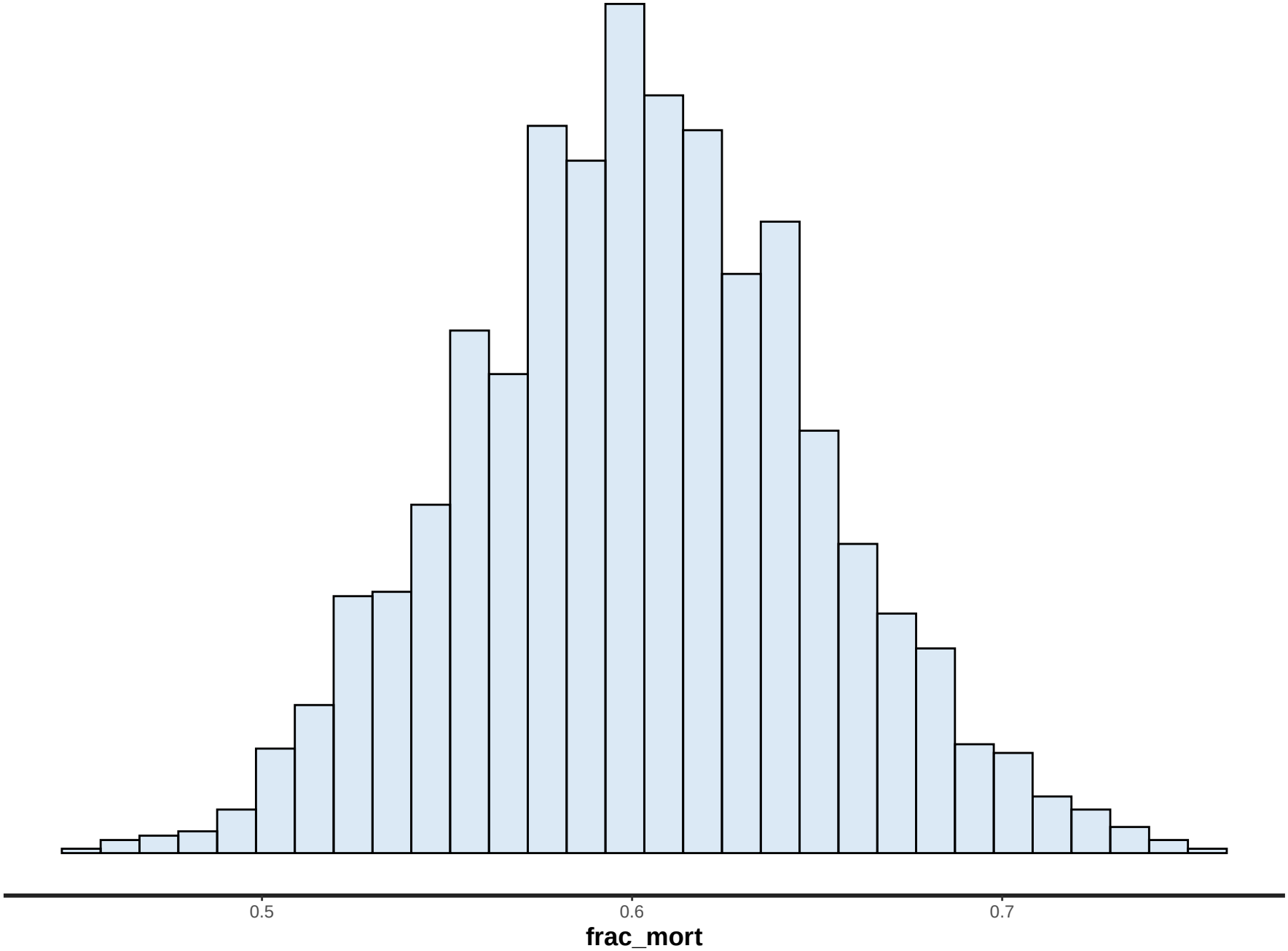

2.5
5.0
7.5
10.0
duration_pre_hosp

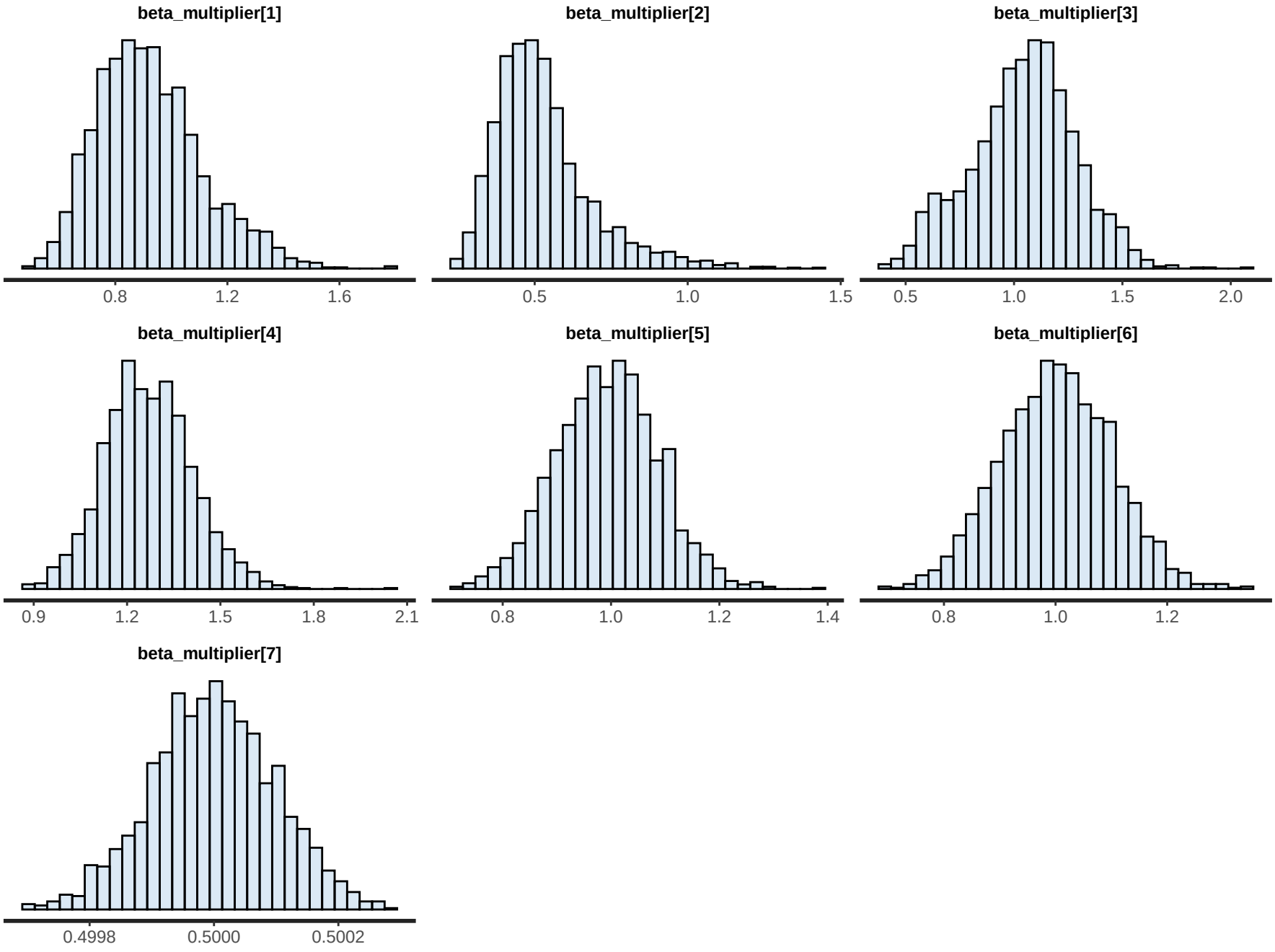

2
3
4
5
duration_hosp_mod

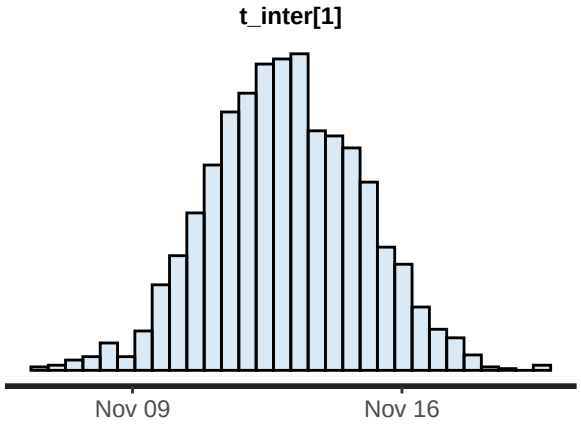

6
7
8
9
10
duration_hosp_icu


0.025
0.050
0.075
0.100
frac_hosp


0.15
0.20
0.25
frac_icu


0.5
0.6
0.7
frac_mort


beta_multiplier[1]
0.8
1.2
1.6
beta_multiplier[2]
0.5
1.0
1.5
beta_multiplier[3]
0.5
1.0
1.5
2.0
beta_multiplier[4]
0.9
1.2
1.5
1.8
2.1
beta_multiplier[5]
0.8
1.0
1.2
1.4
beta_multiplier[6]
0.8
1.0
1.2
beta_multiplier[7]
0.4998
0.5000
0.5002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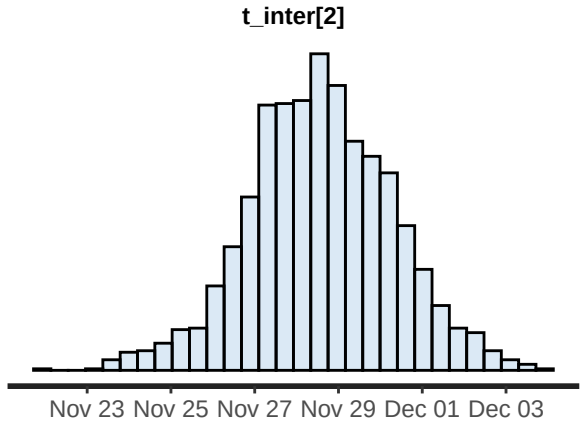
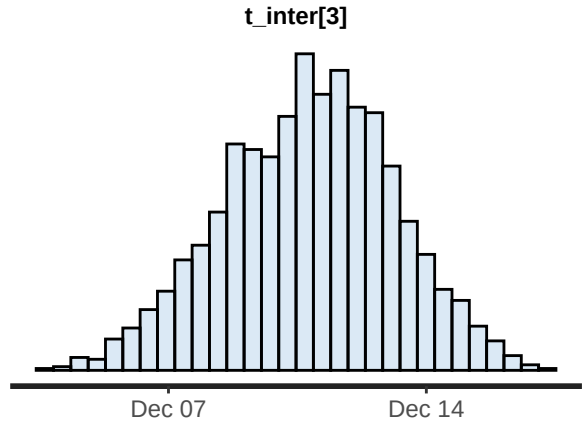
Nov 09
Nov 16


t_inter[2]
Nov 23
Nov 25
Nov 27
Nov 29
Dec 01
Dec 03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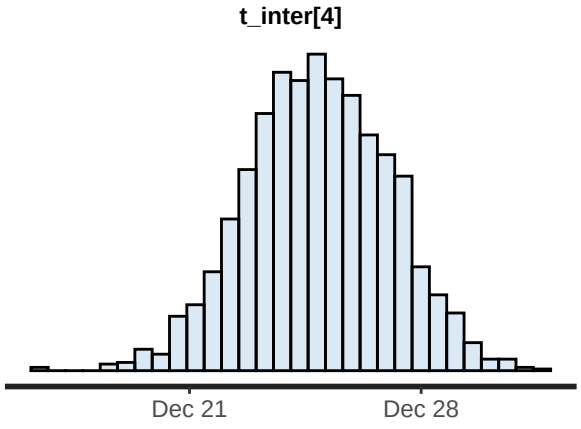
Dec 07
Dec 14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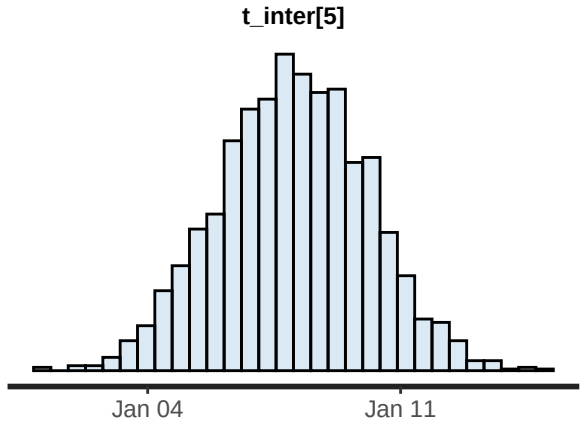
Dec 21
Dec 28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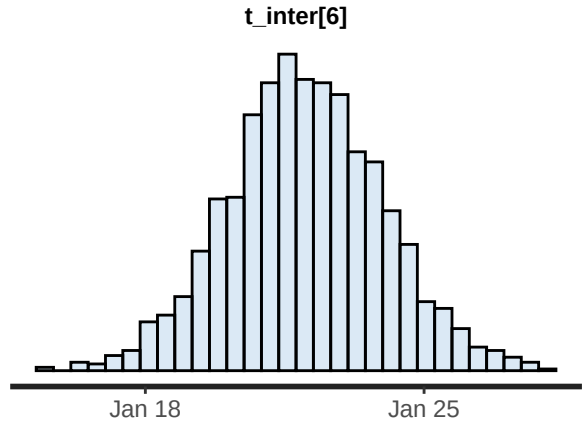
Jan 04
Jan 11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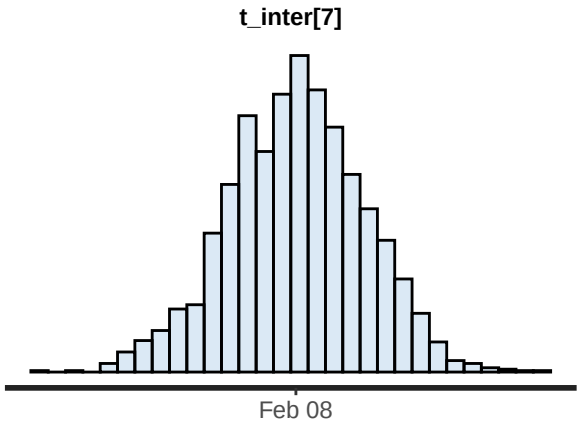
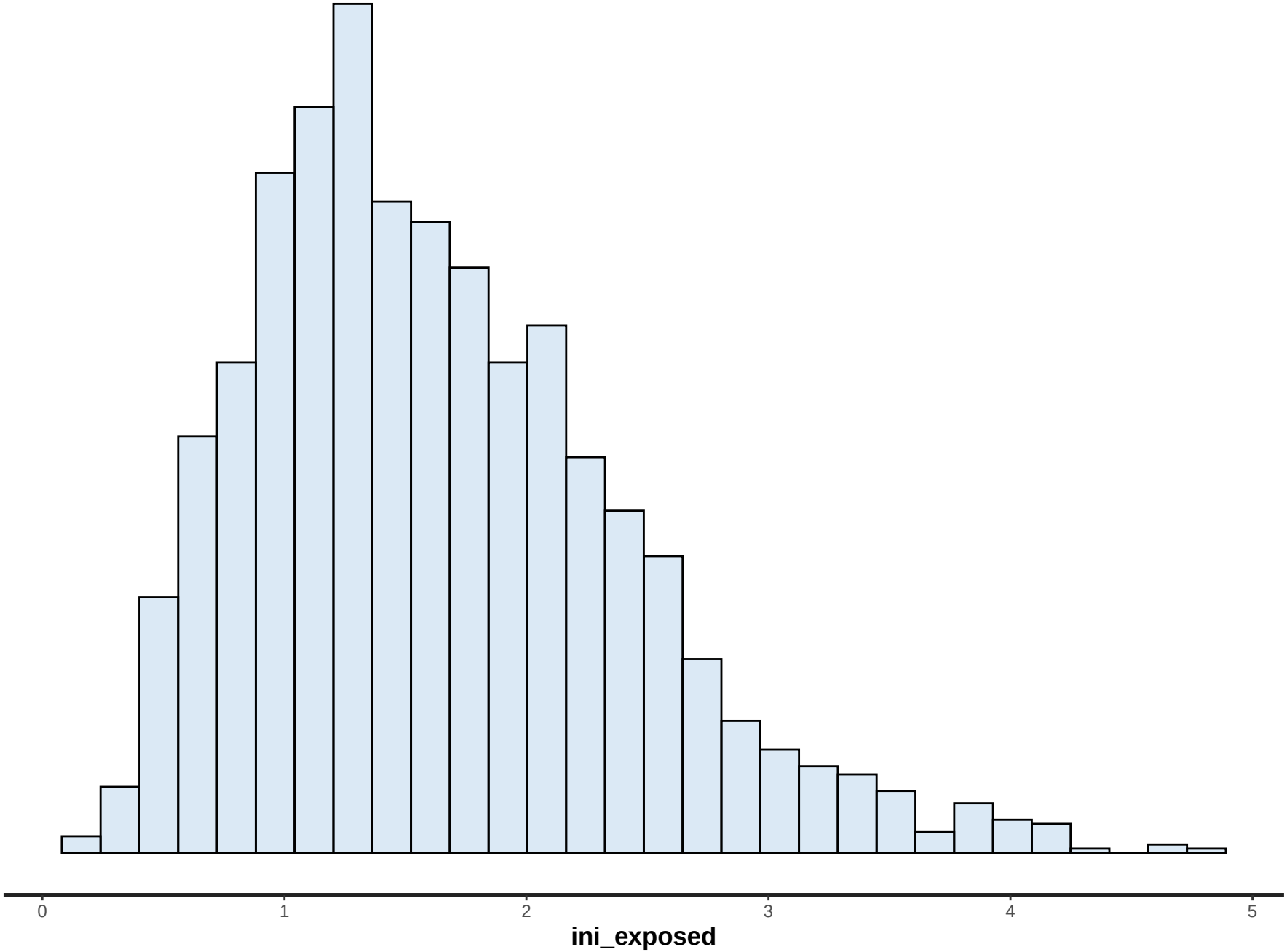
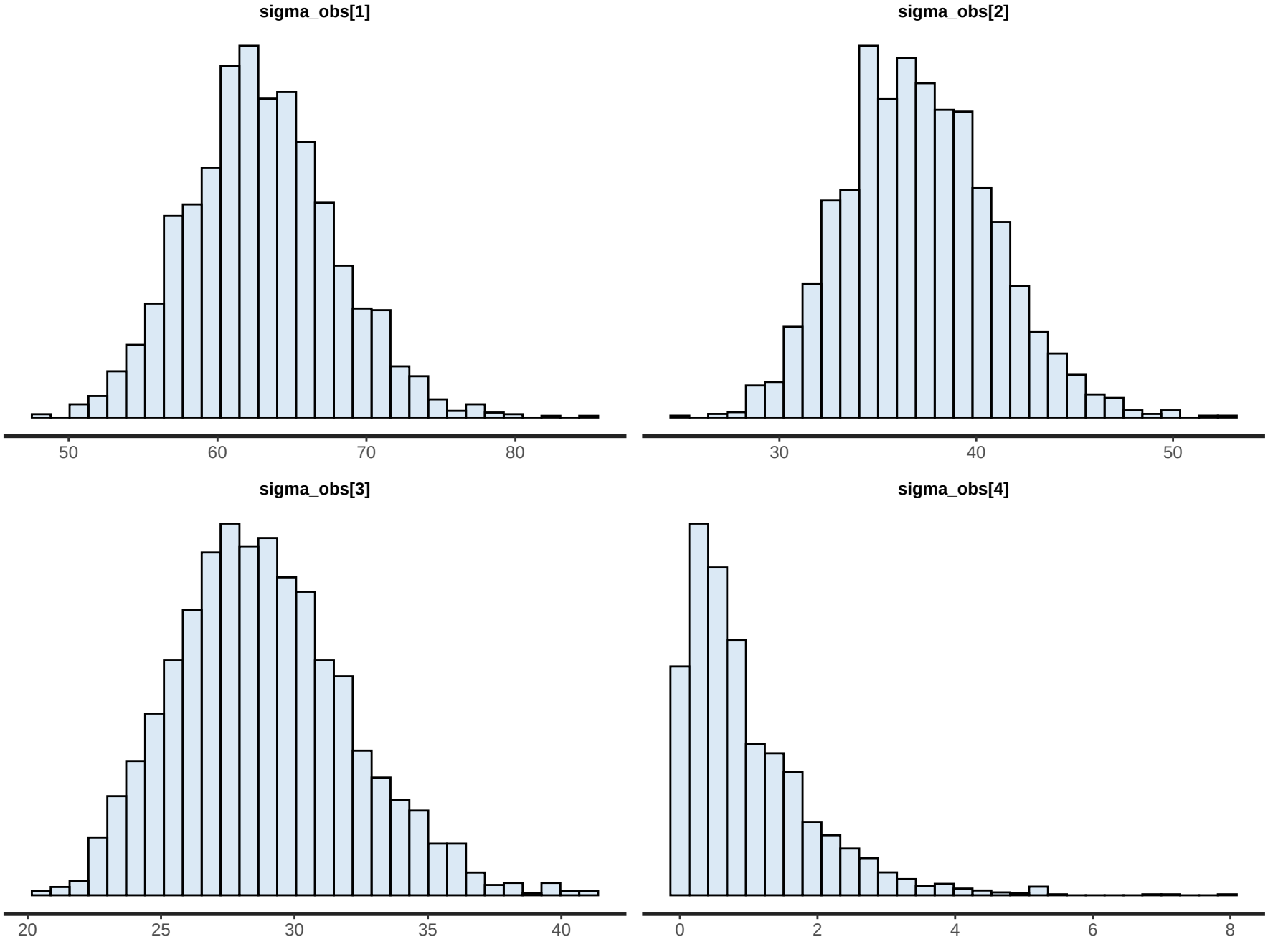
Jan 18
Jan 25


t_inter[7]
Feb 08


0
1
2
3
4
5
ini_exposed


sigma_obs[1]
50
60
70
80
sigma_obs[2]
30
40
50
sigma_obs[3]
20
25
30
35
40
sigma_obs[4]
0
2
4
6
8