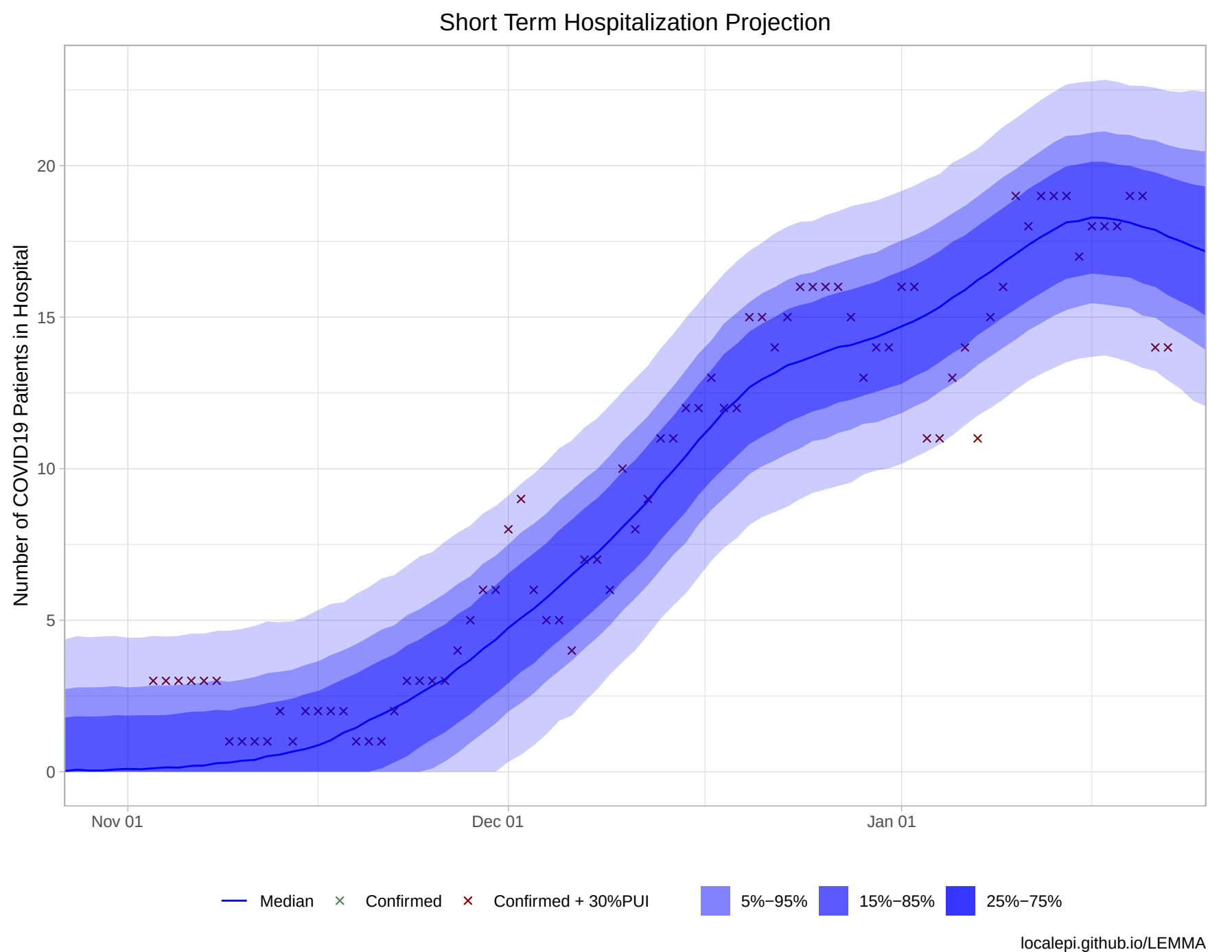
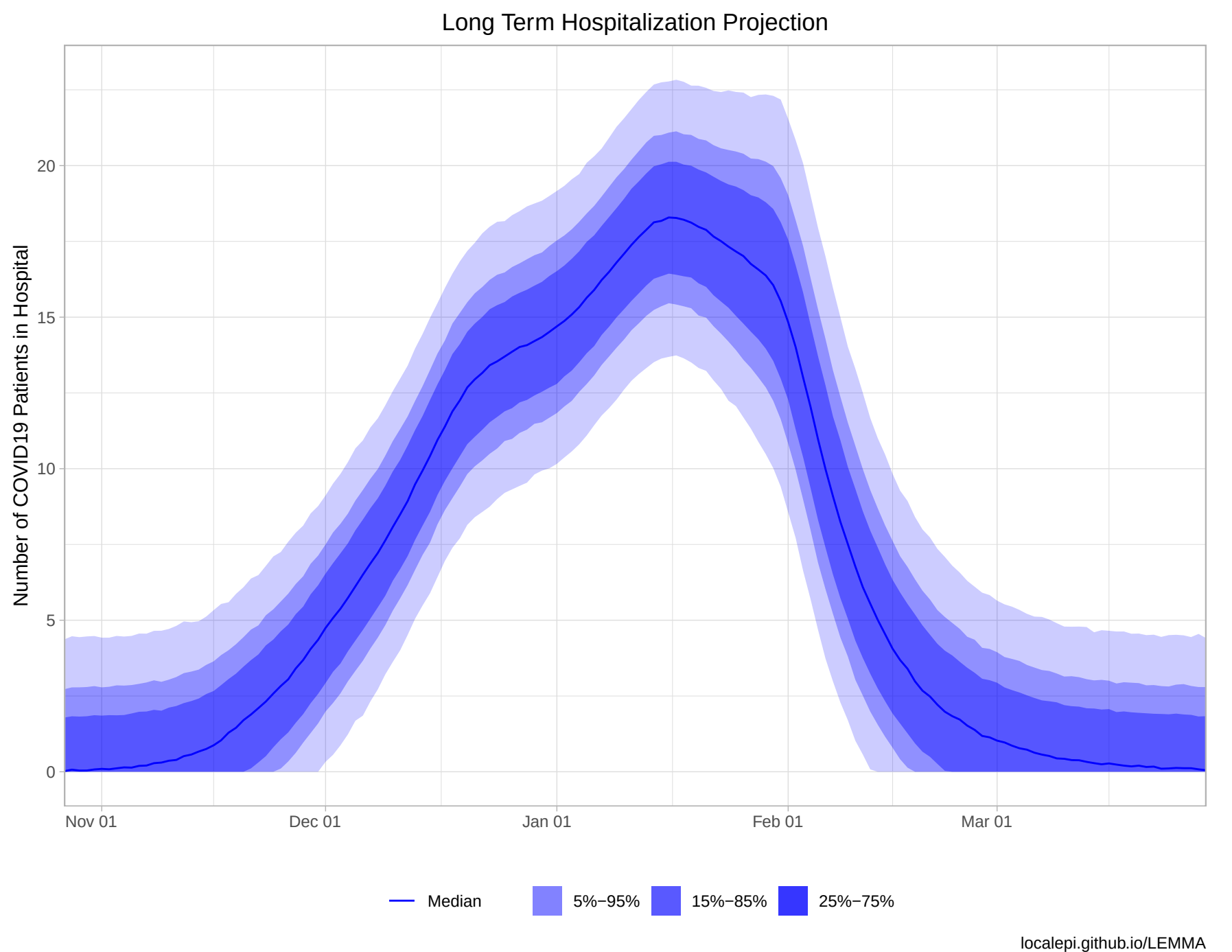
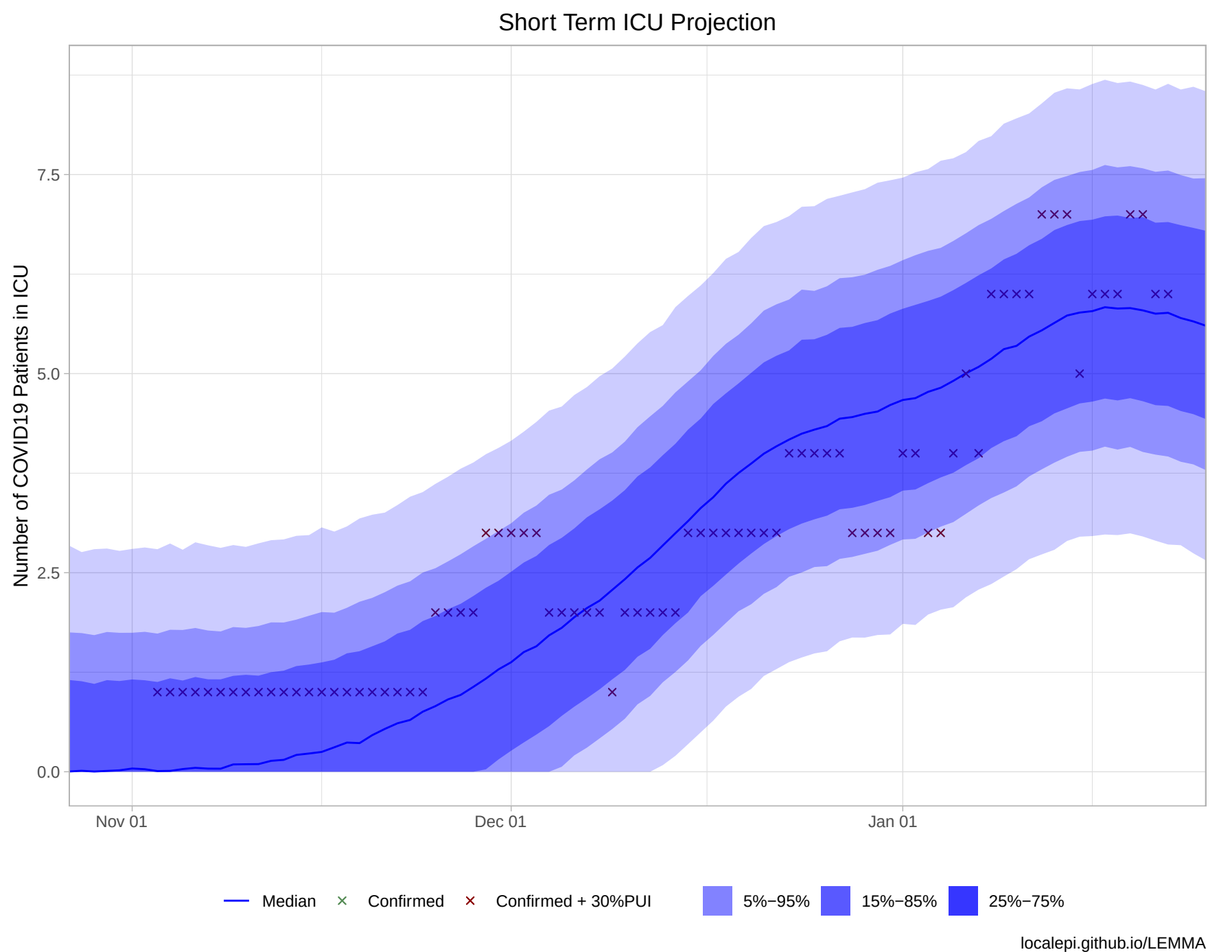
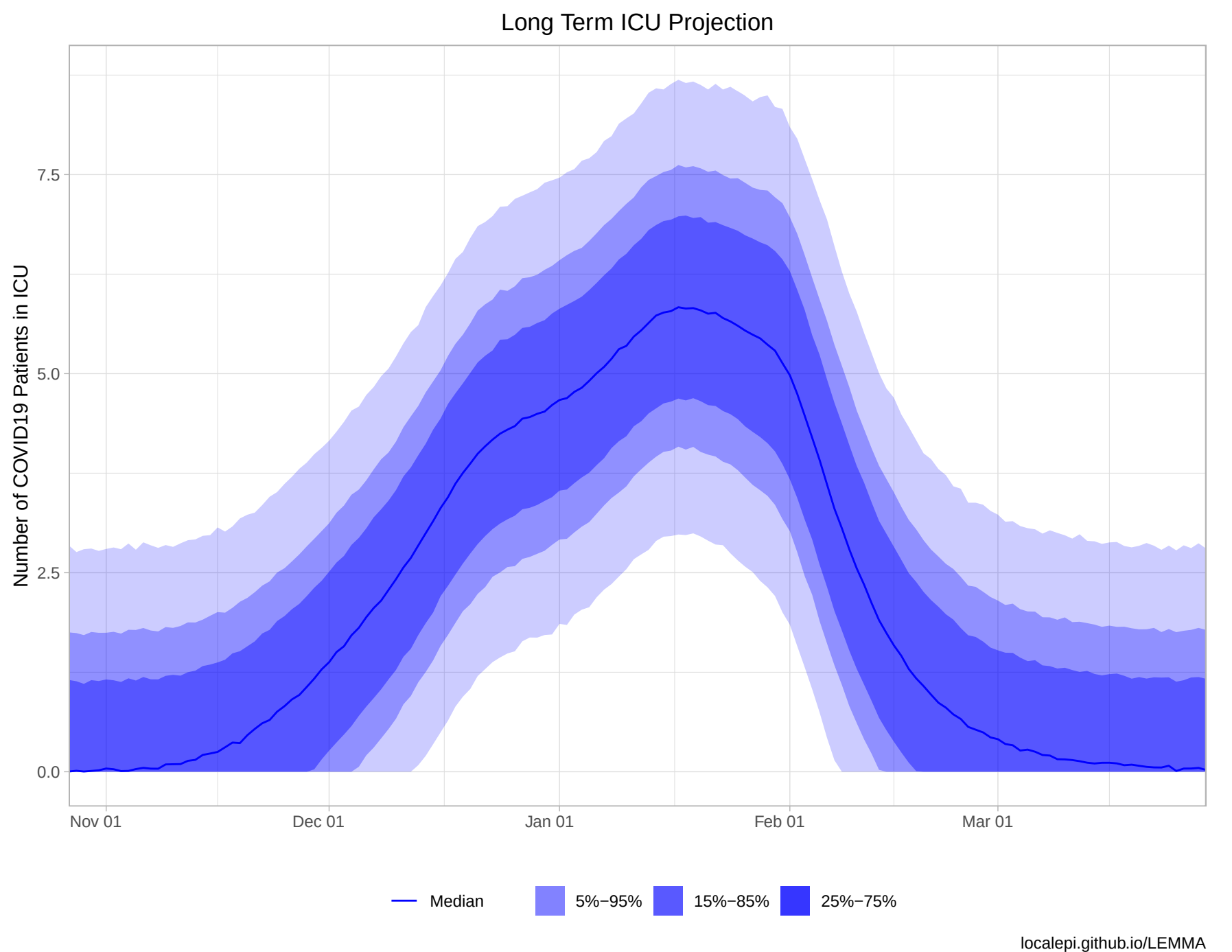
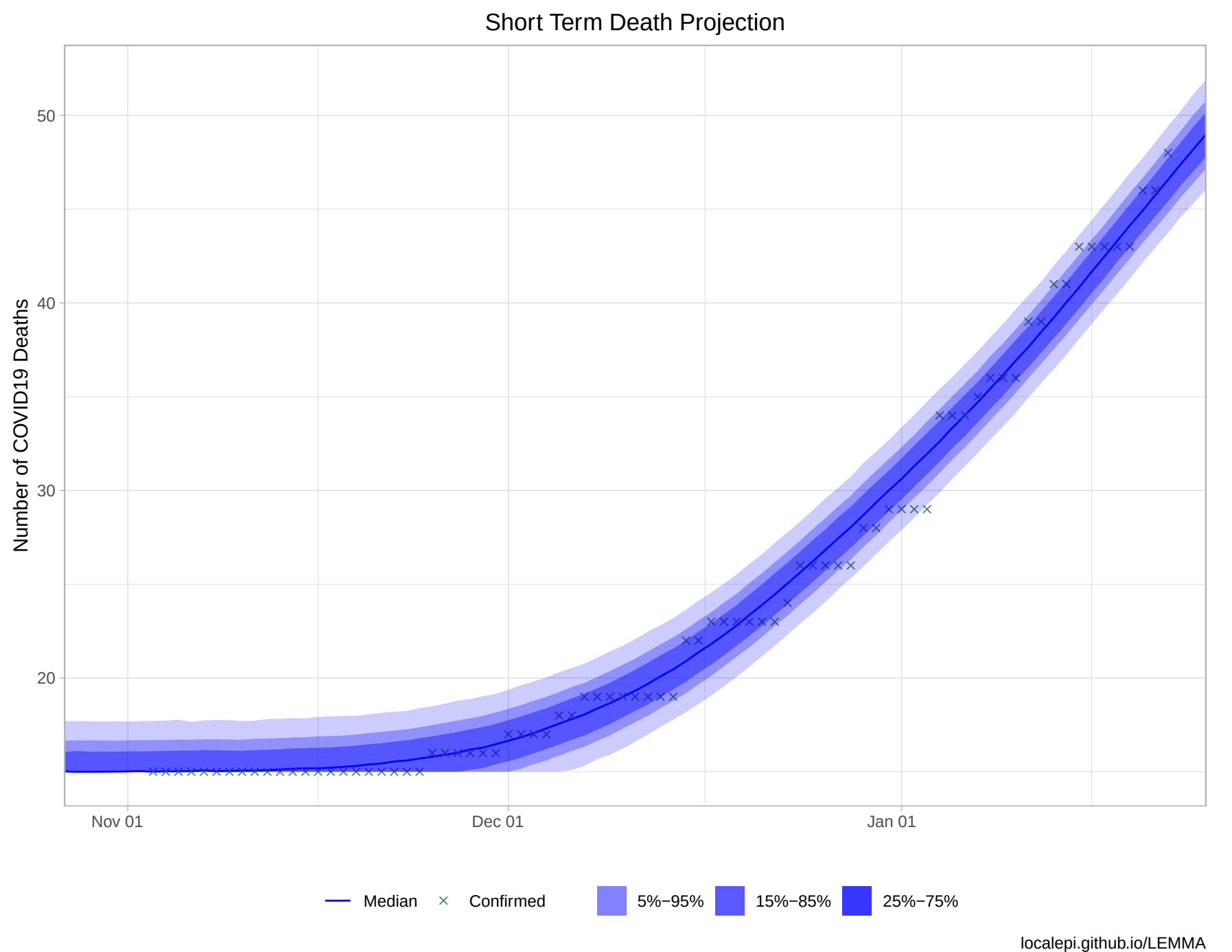
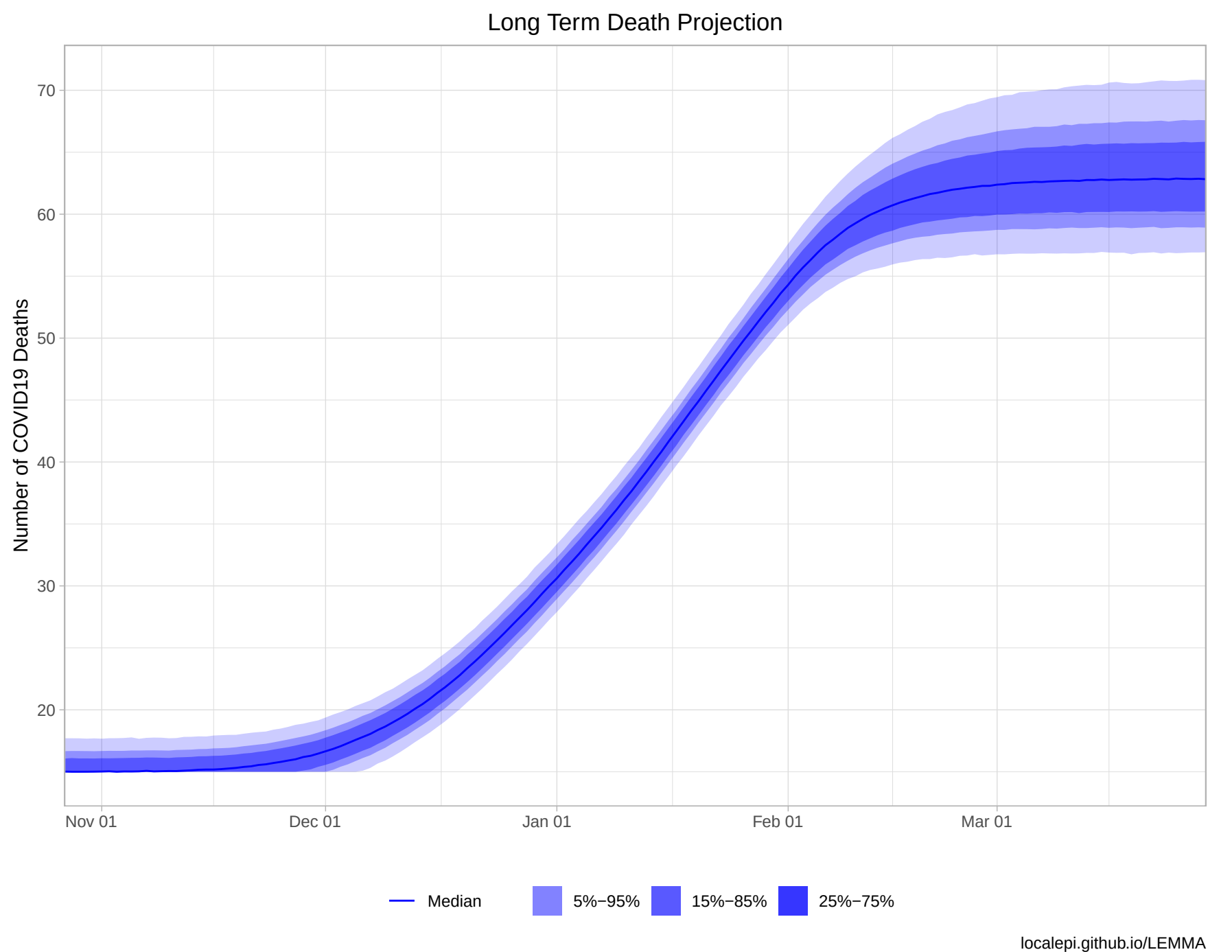

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
5
10
15
20
Nov 01
Dec 01
Jan 01
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

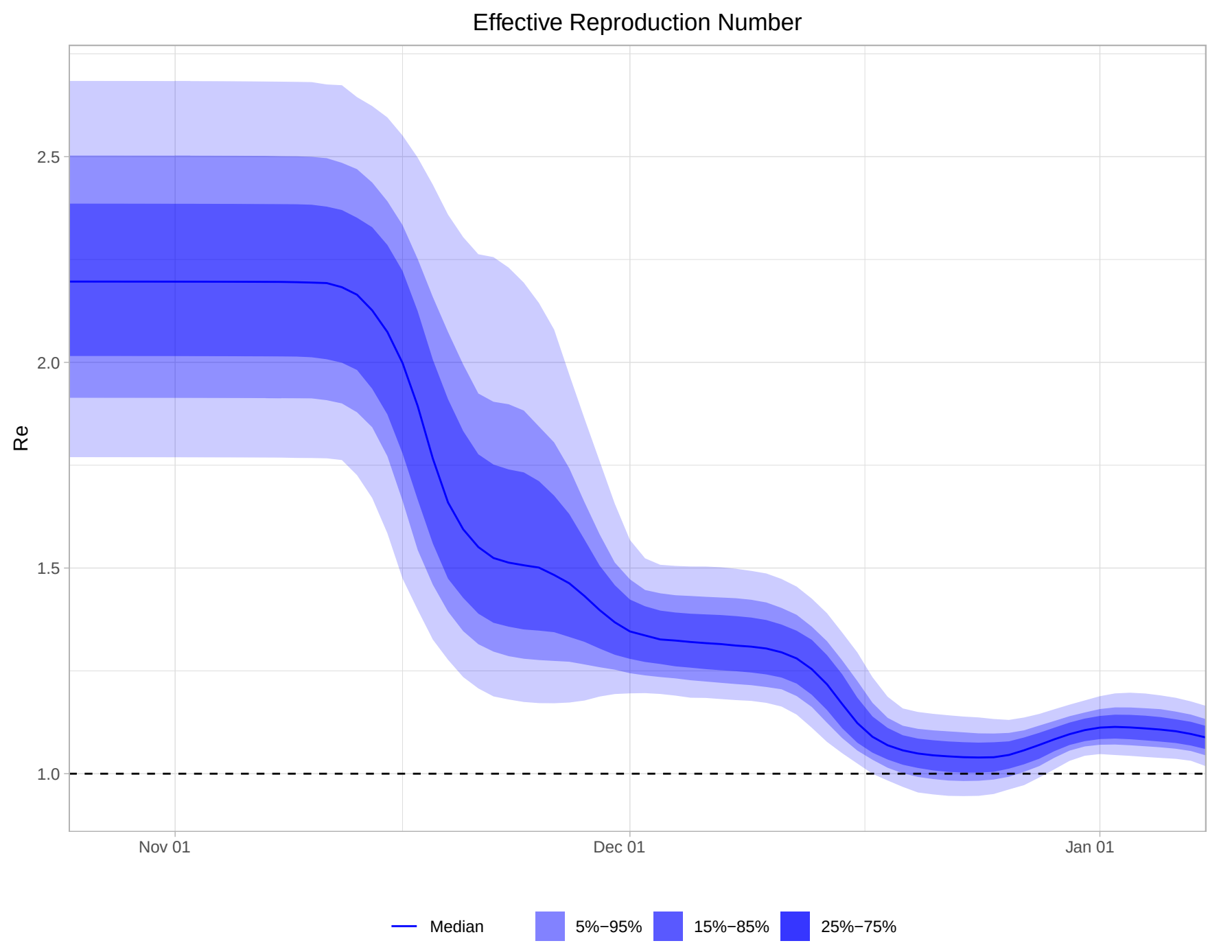

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
5
10
15
20
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


Short Term ICU Projection
Number of COVID19 Patients in ICU
7.5
5.0
2.5
0.0
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
7.5
5.0
2.5
0.0
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

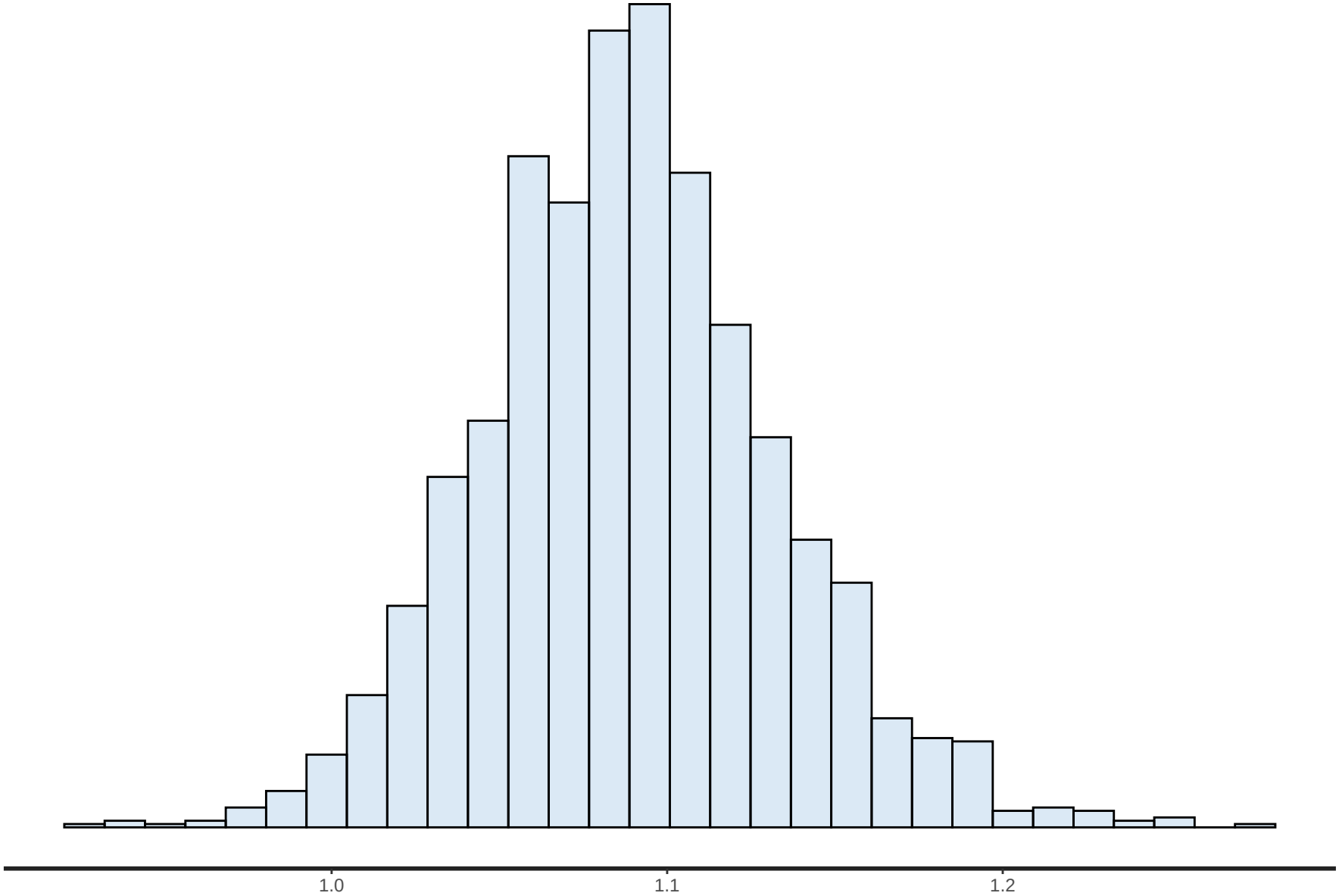

Short Term Death Projection
Number of COVID19 Deaths
50
40
30
20
Nov 01
Dec 01
Jan 01
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

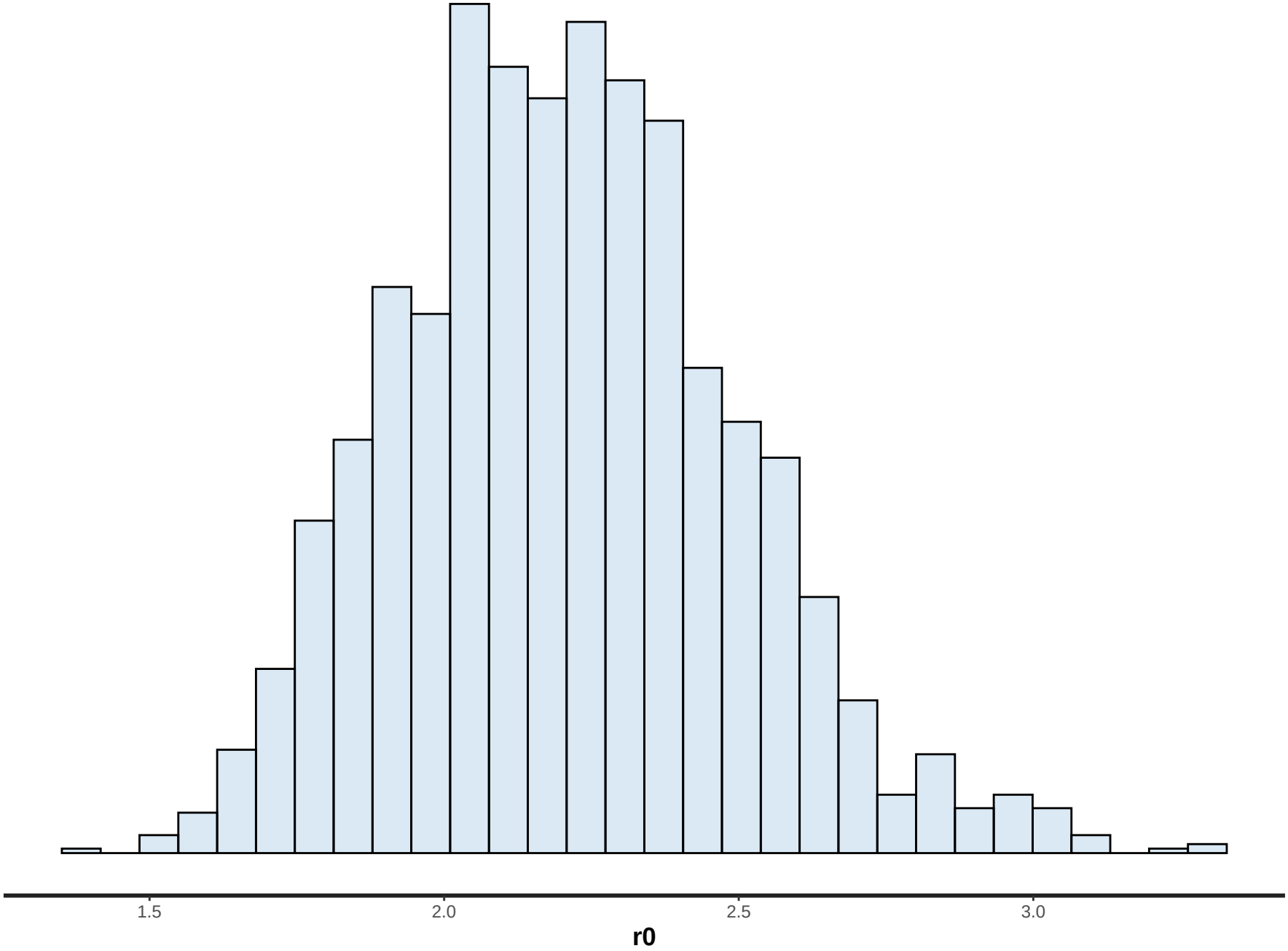

Long Term Death Projection
Number of COVID19 Deaths
70
60
50
40
30
20
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

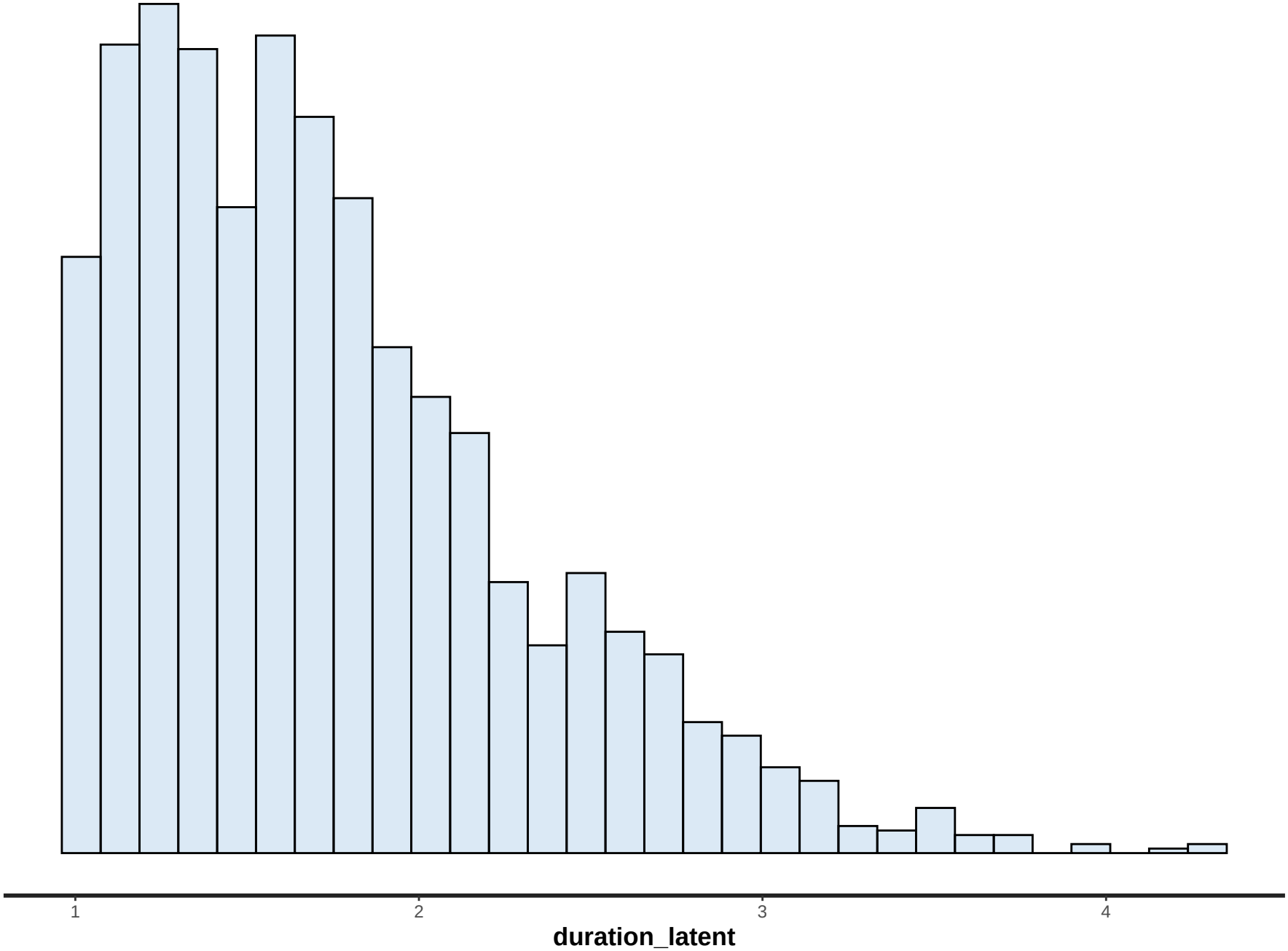

Effective Reproduction Number
Re
2.5
2.0
1.5
1.0
Nov 01
Dec 01
Jan 01
Median
5%−95%
15%−85%
25%−75%

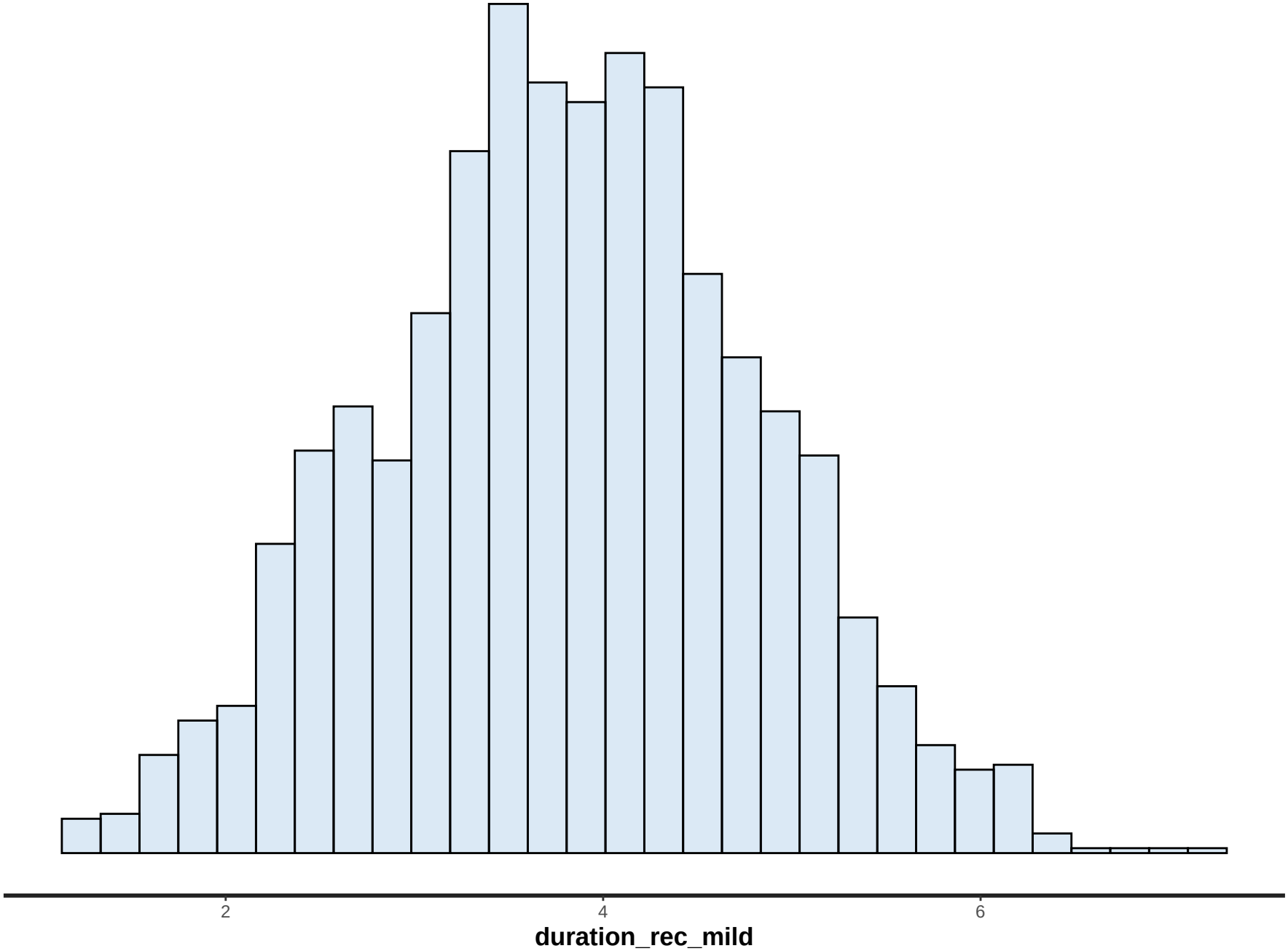
Rt as of 2021−01−08

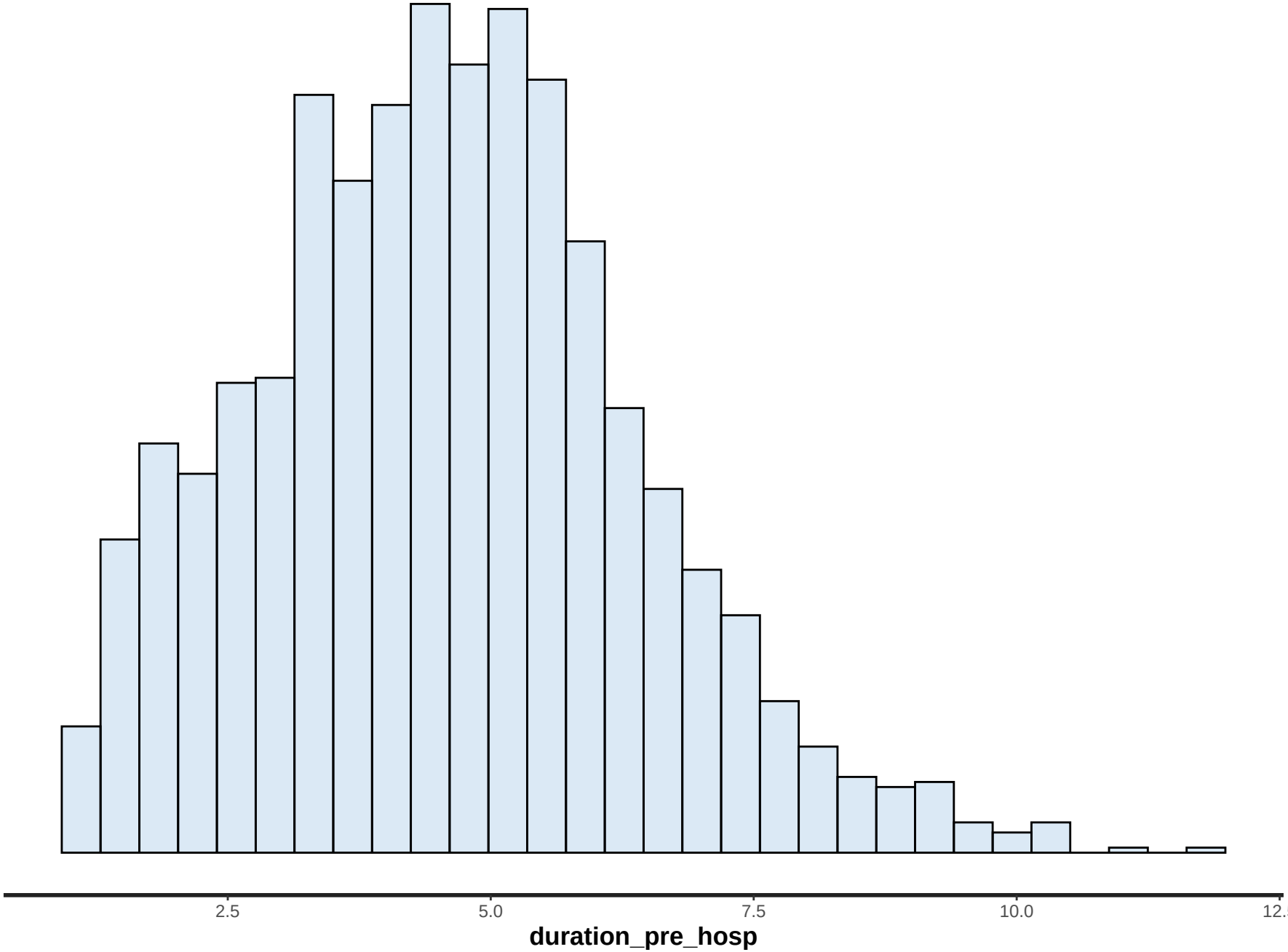
5%	10%	25%	50%	75%	90%	95%
1.02	1.03	1.06	1.09	1.12	1.15	1.16

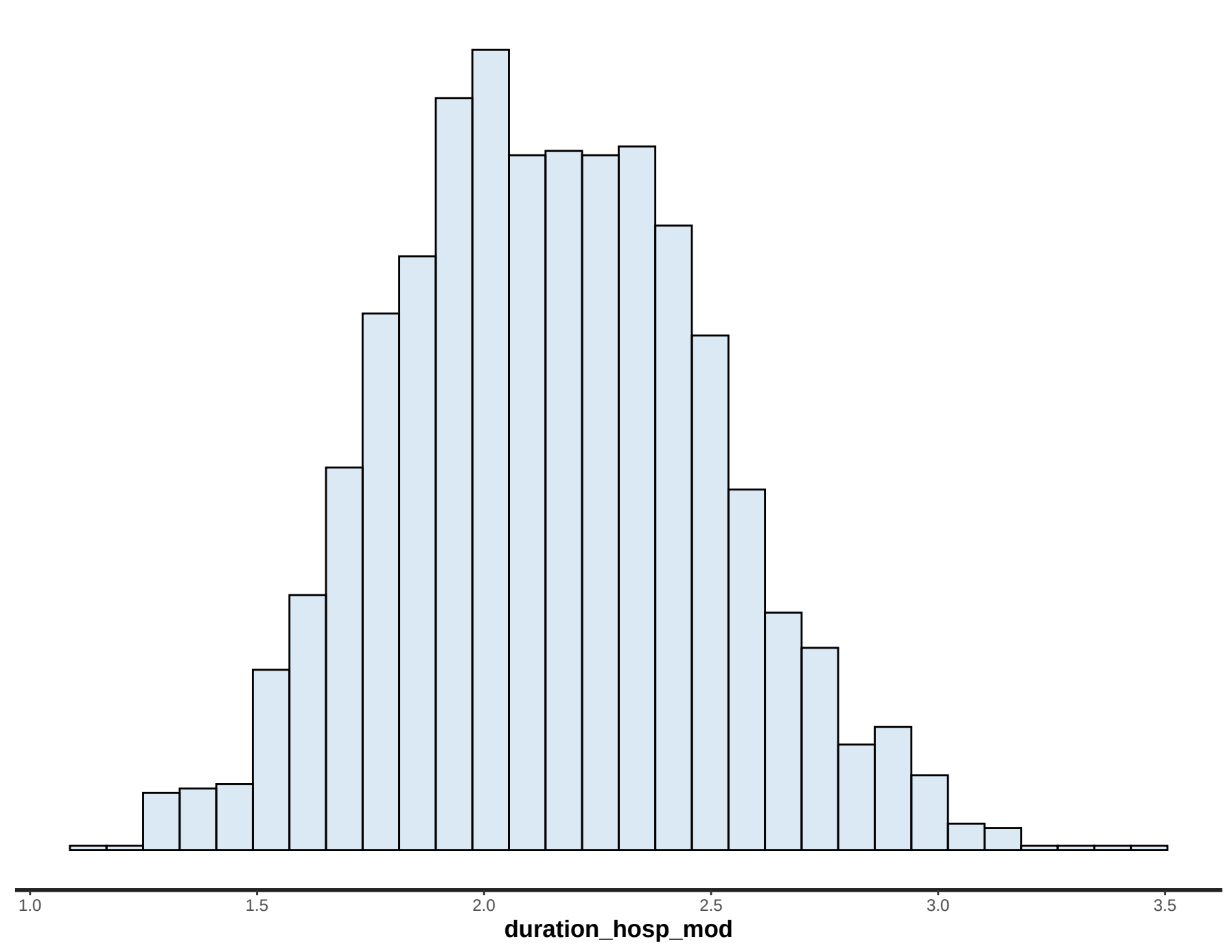


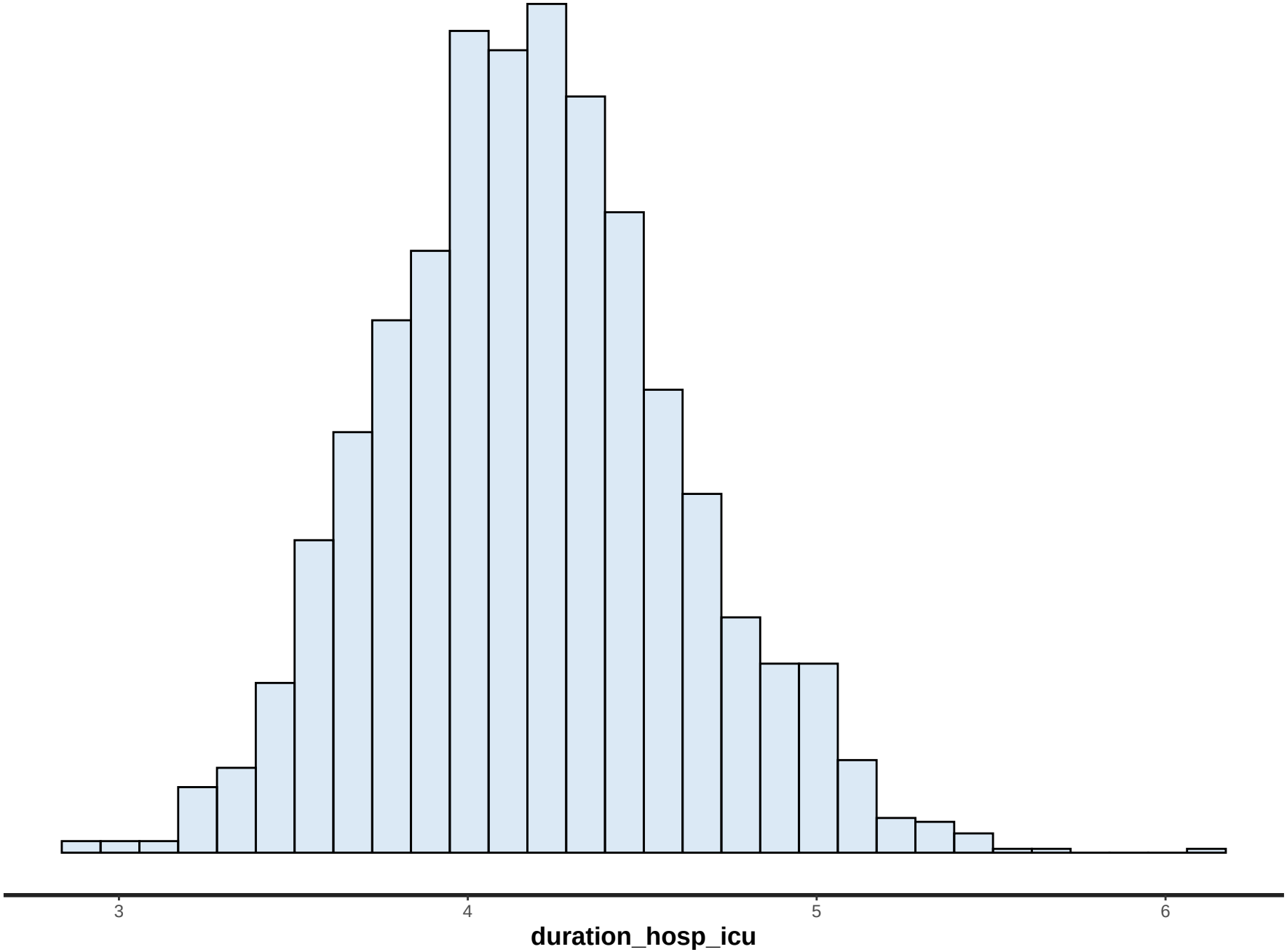

1.5
2.0
2.5
3.0
r0

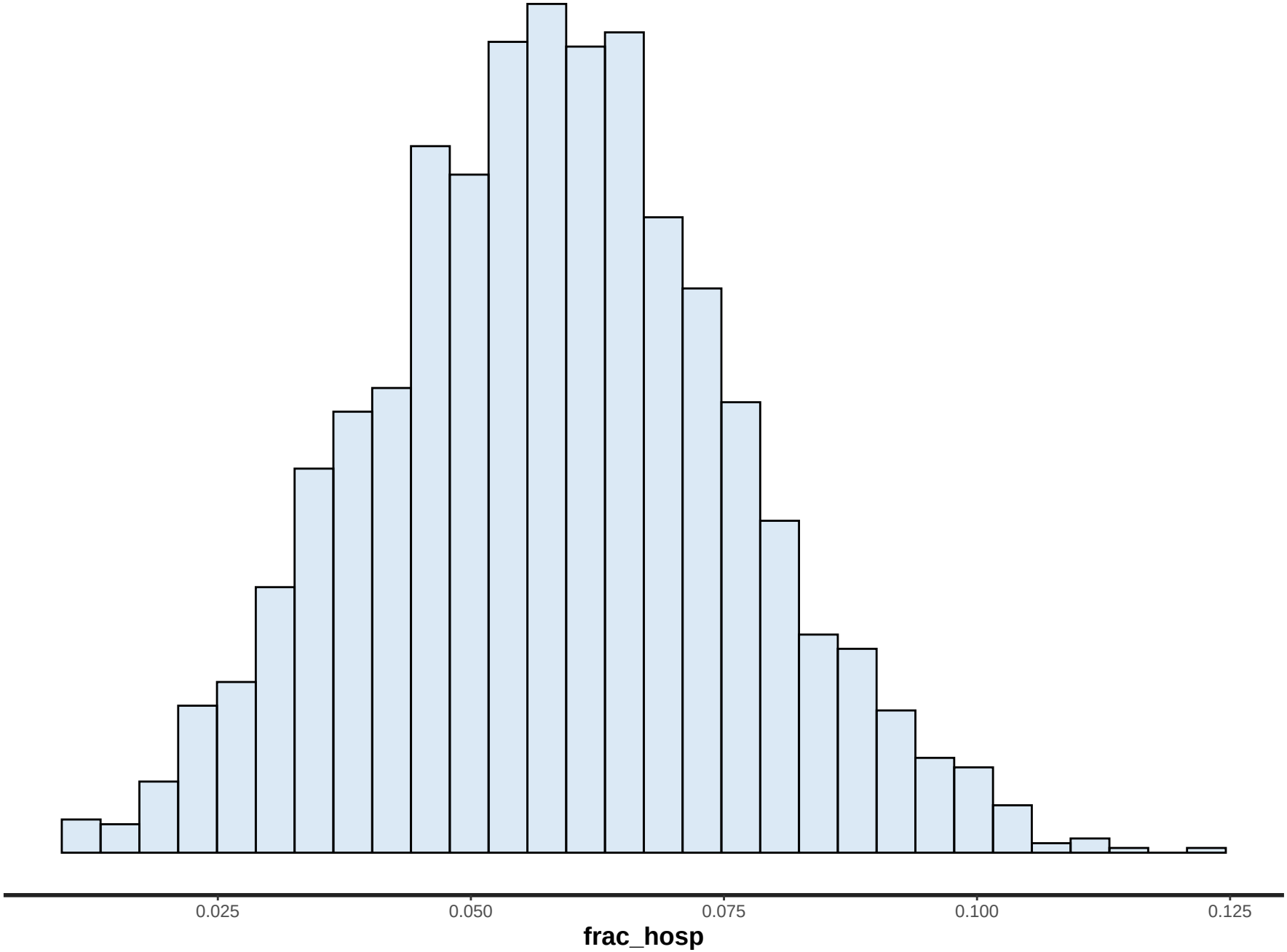

1
2
3
4
duration_latent

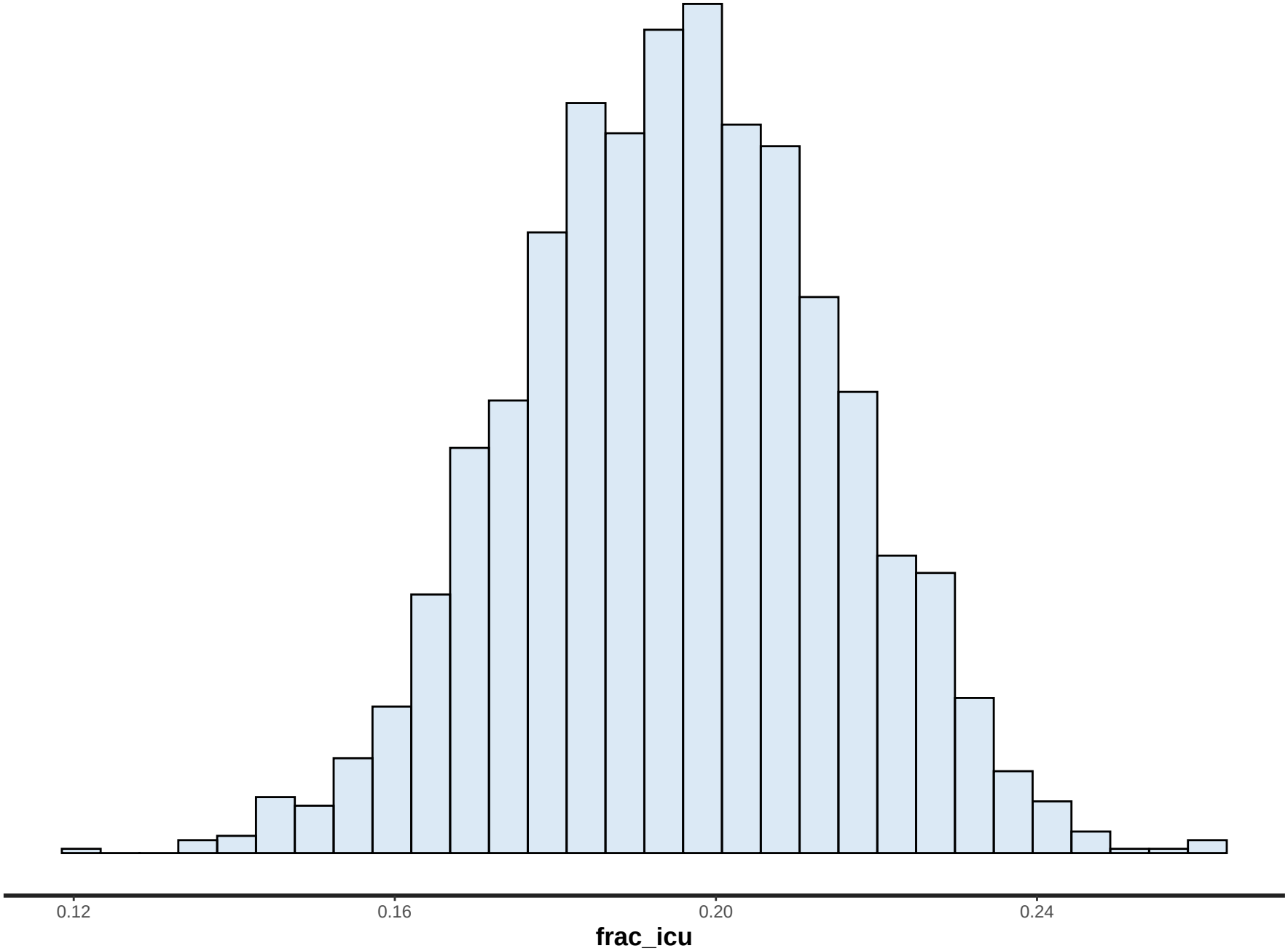

2
4
6
duration_rec_mild

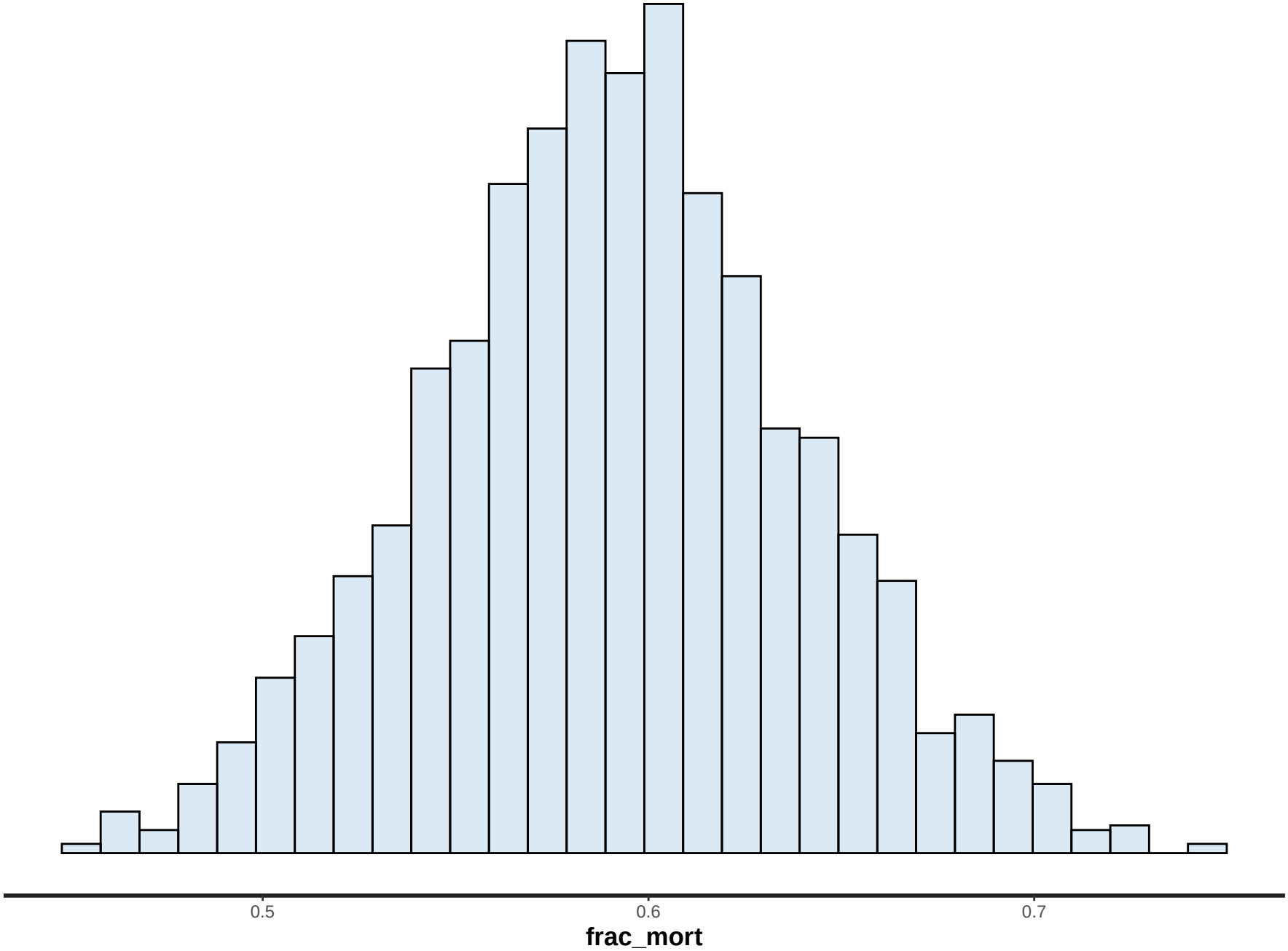

2.5
5.0
7.5
10.0
12.5
duration_pre_hosp

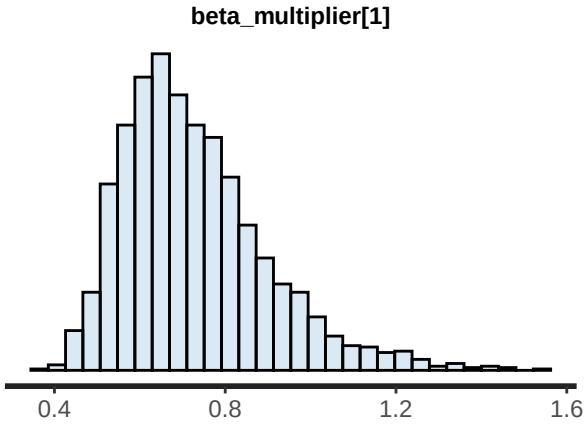

1.0
1.5
2.0
2.5
3.0
3.5
duration_hosp_mod

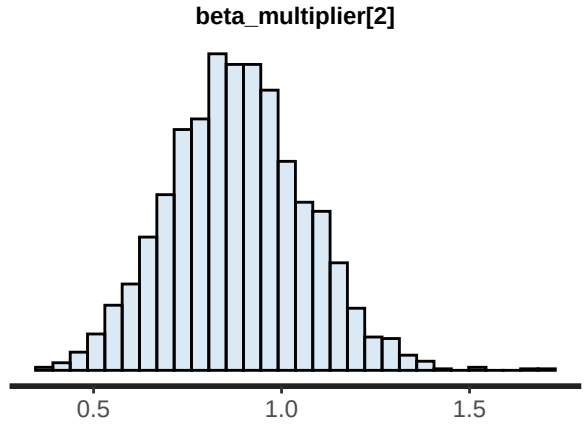

3
4
5
6
duration_hosp_icu

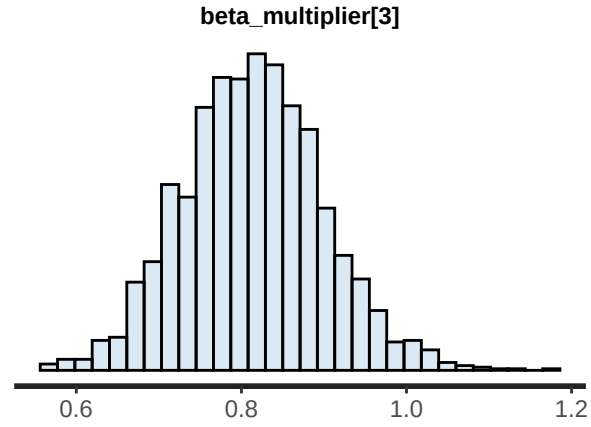

0.025
0.050
0.075
0.100
0.125
frac_hosp

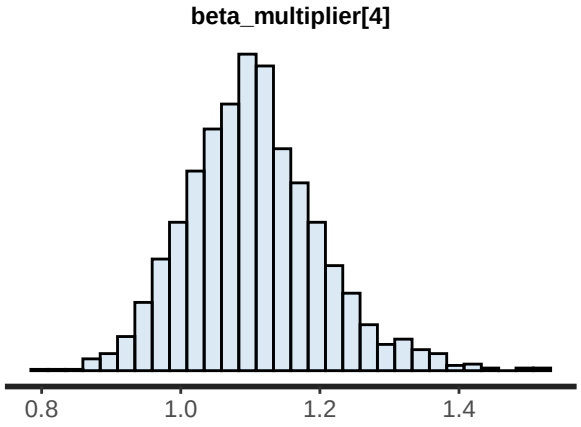

0.12
0.16
0.20
0.24
frac_icu

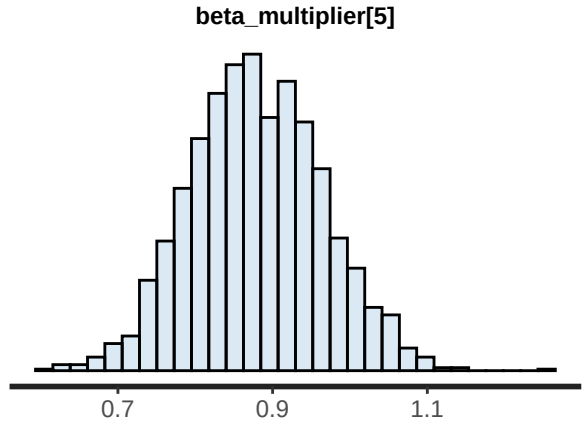

0.5
0.6
0.7
frac_mort

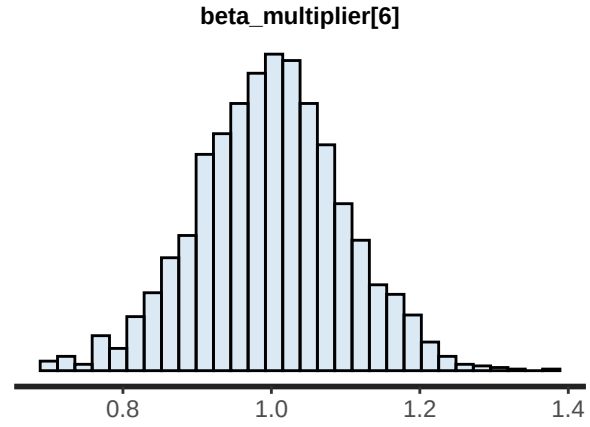

beta_multiplier[1]
0.4
0.8
1.2
1.6

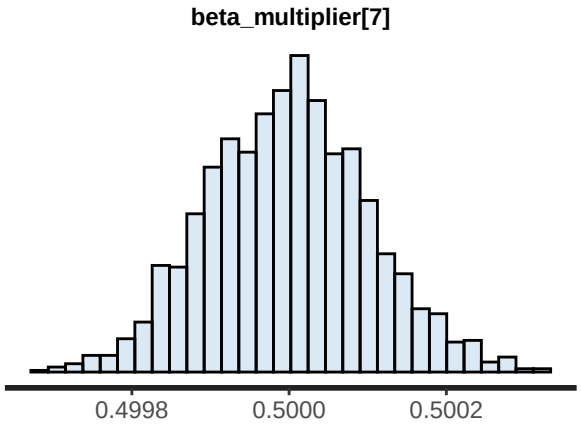

beta_multiplier[2]
0.5
1.0
1.5

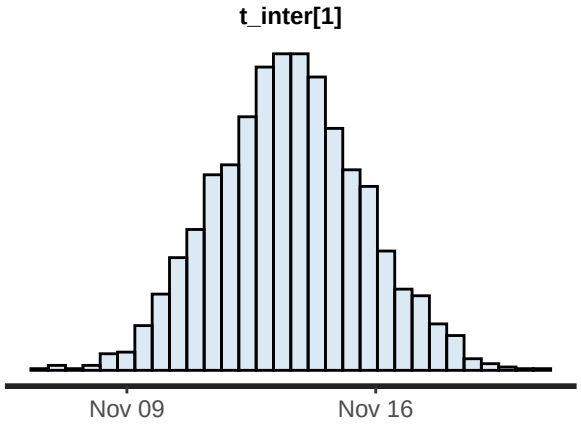

beta_multiplier[3]
0.6
0.8
1.0
1.2

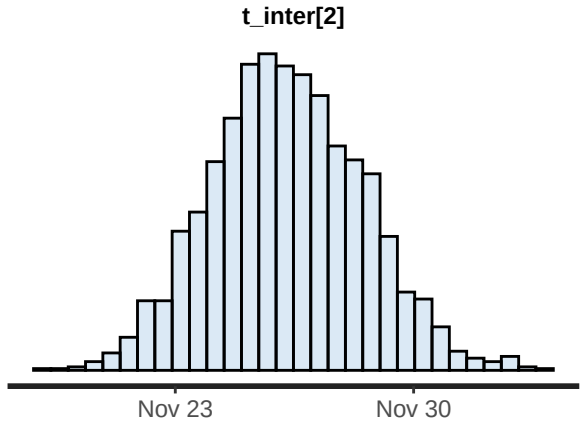

beta_multiplier[4]
0.8
1.0
1.2
1.4

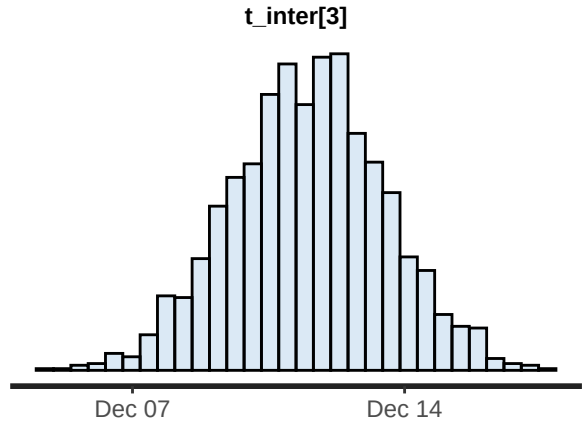

beta_multiplier[5]
0.7
0.9
1.1

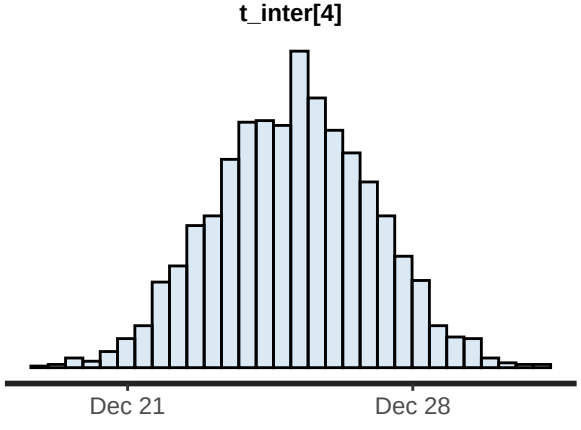

beta_multiplier[6]
0.8
1.0
1.2
1.4


beta_multiplier[7]
0.4998
0.5000
0.5002


t_inter[1]
Nov 09
Nov 16


t_inter[2]
Nov 23
Nov 30


t_inter[3]
Dec 07
Dec 14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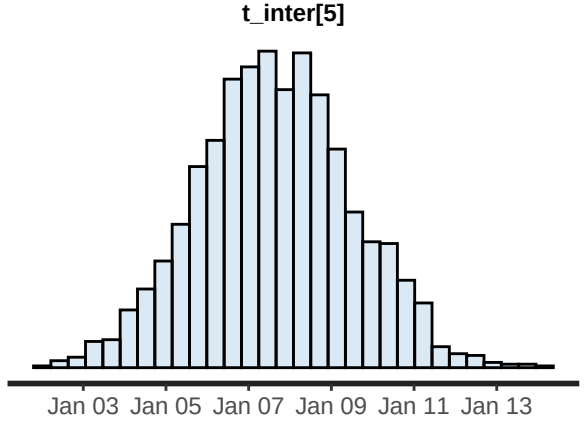
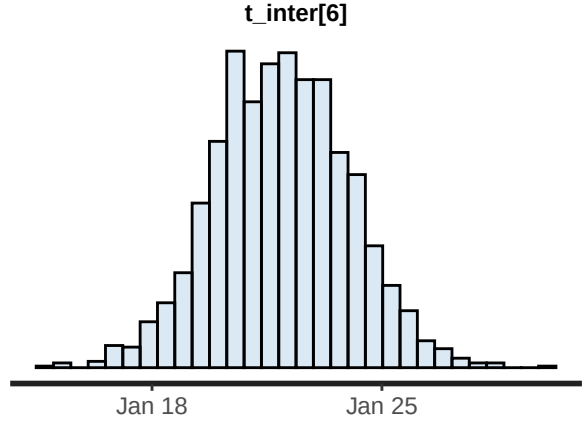
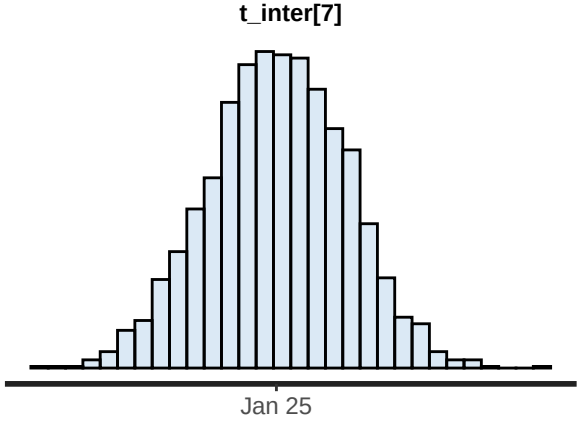
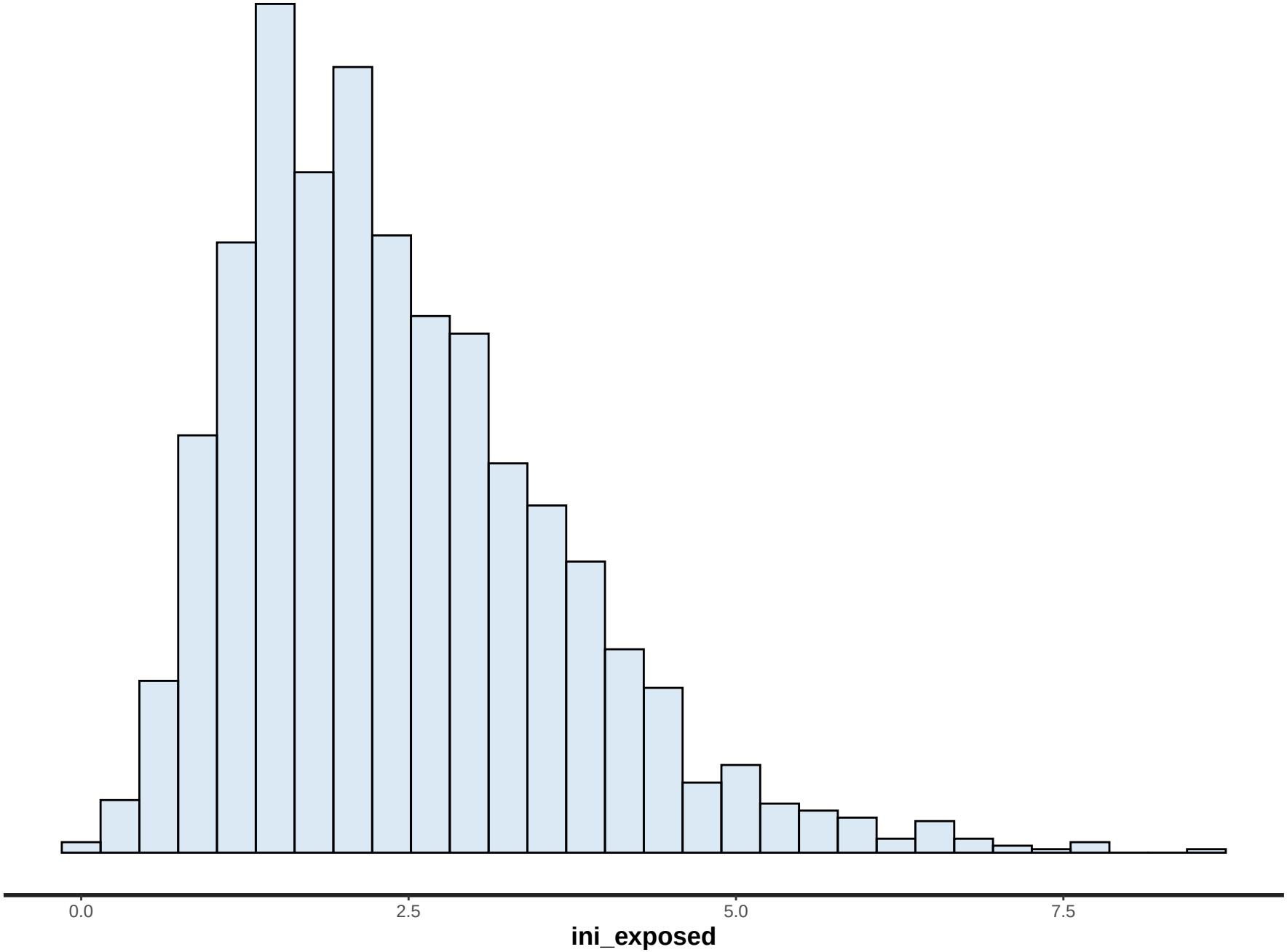
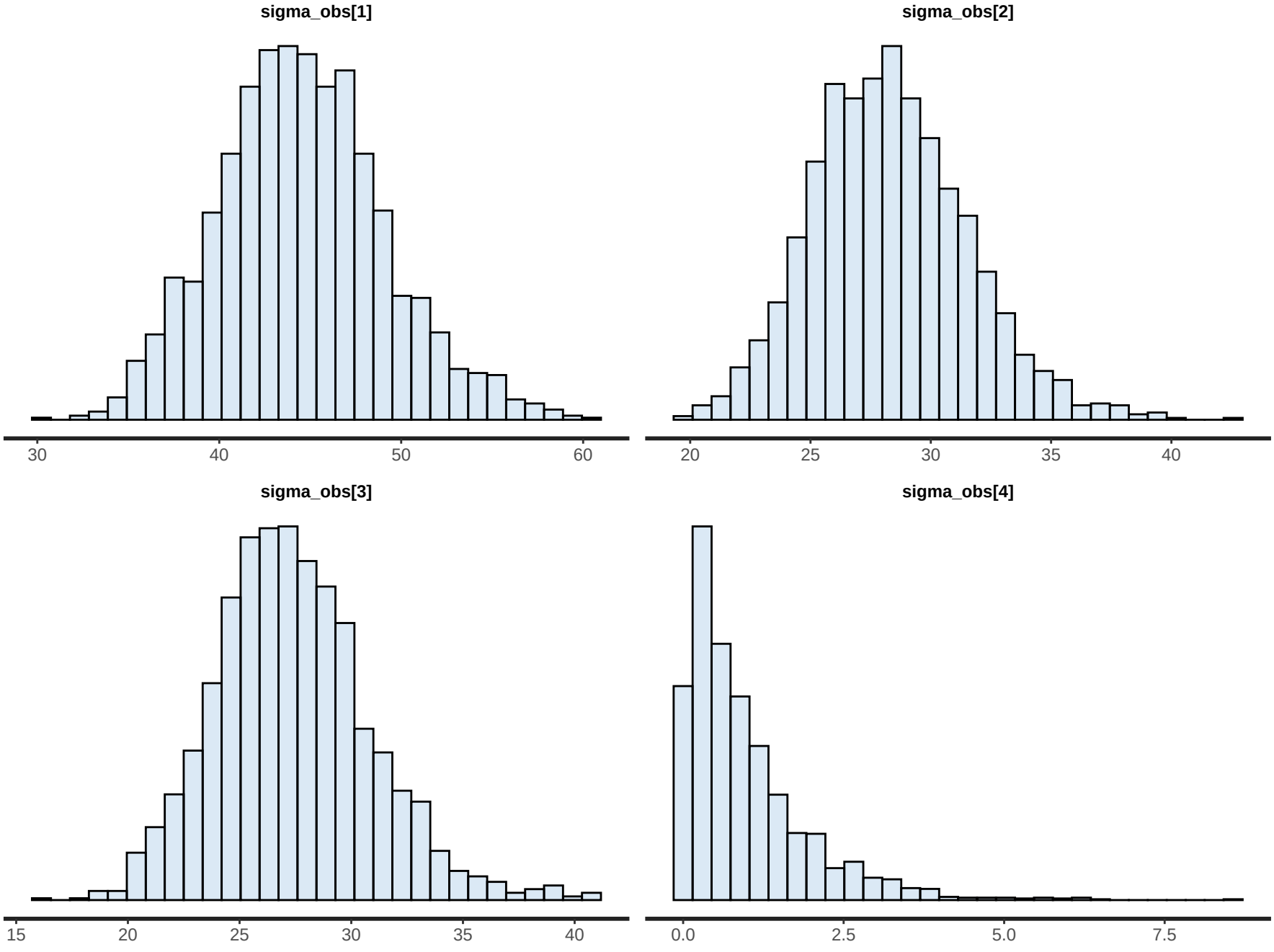
Dec 21
Dec 28


t_inter[5]
Jan 03
Jan 05
Jan 07
Jan 09
Jan 11
Jan 13


t_inter[6]
Jan 18
Jan 25


t_inter[7]
Jan 25


0.0
2.5
5.0
7.5
ini_exposed


sigma_obs[1]
30
40
50
60
sigma_obs[2]
20
25
30
35
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sigma_obs[3]
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20
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30
35
40
sigma_obs[4]
0.0
2.5
5.0
7.5