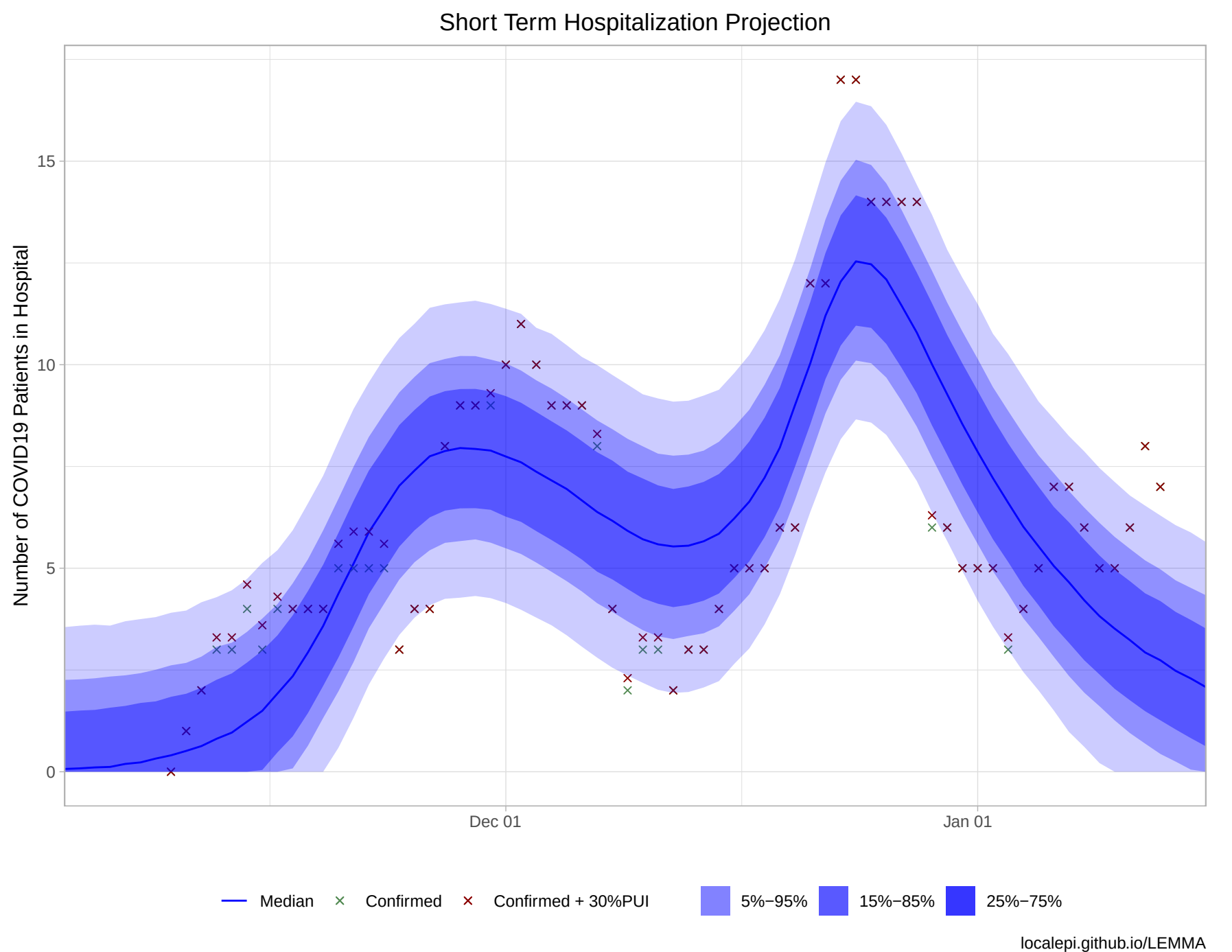
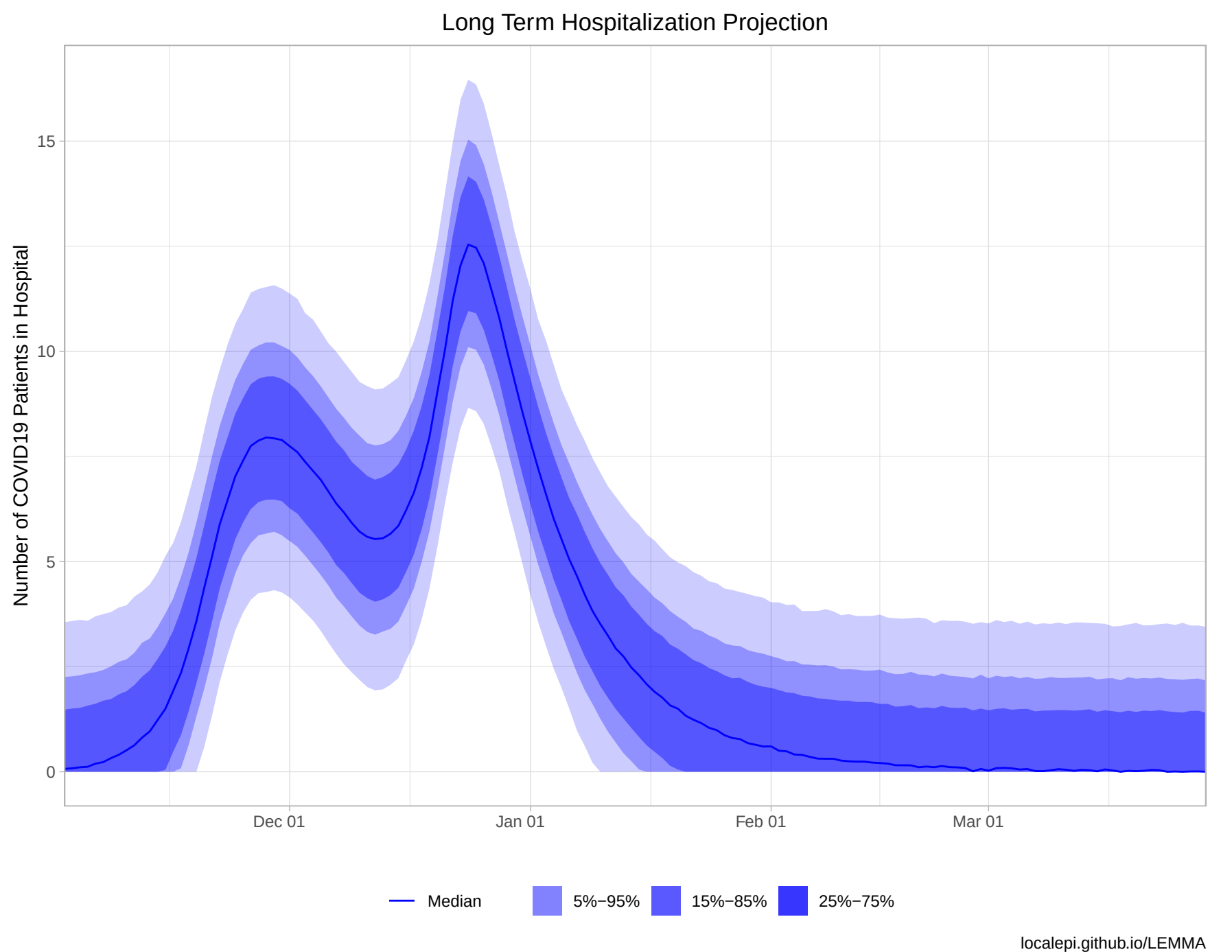
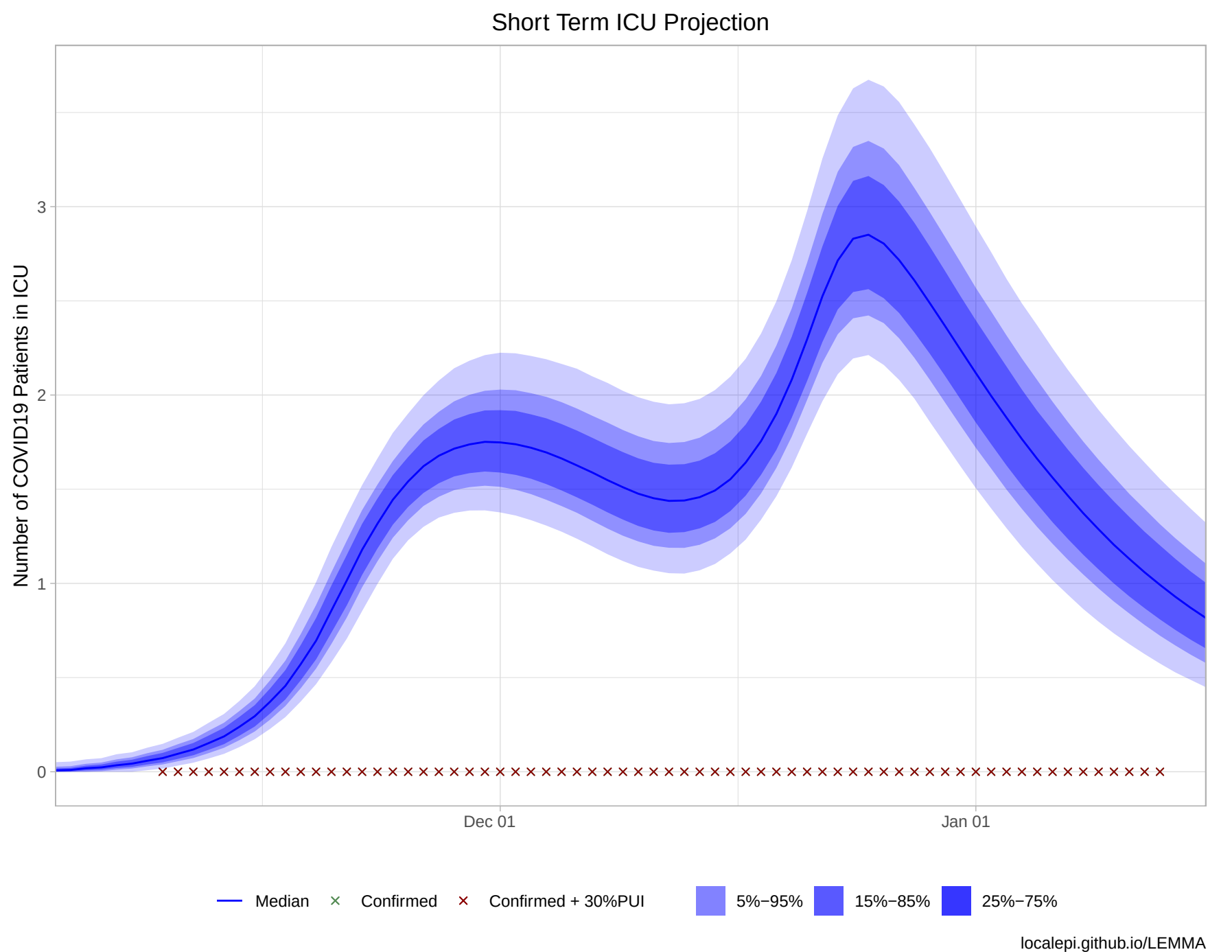
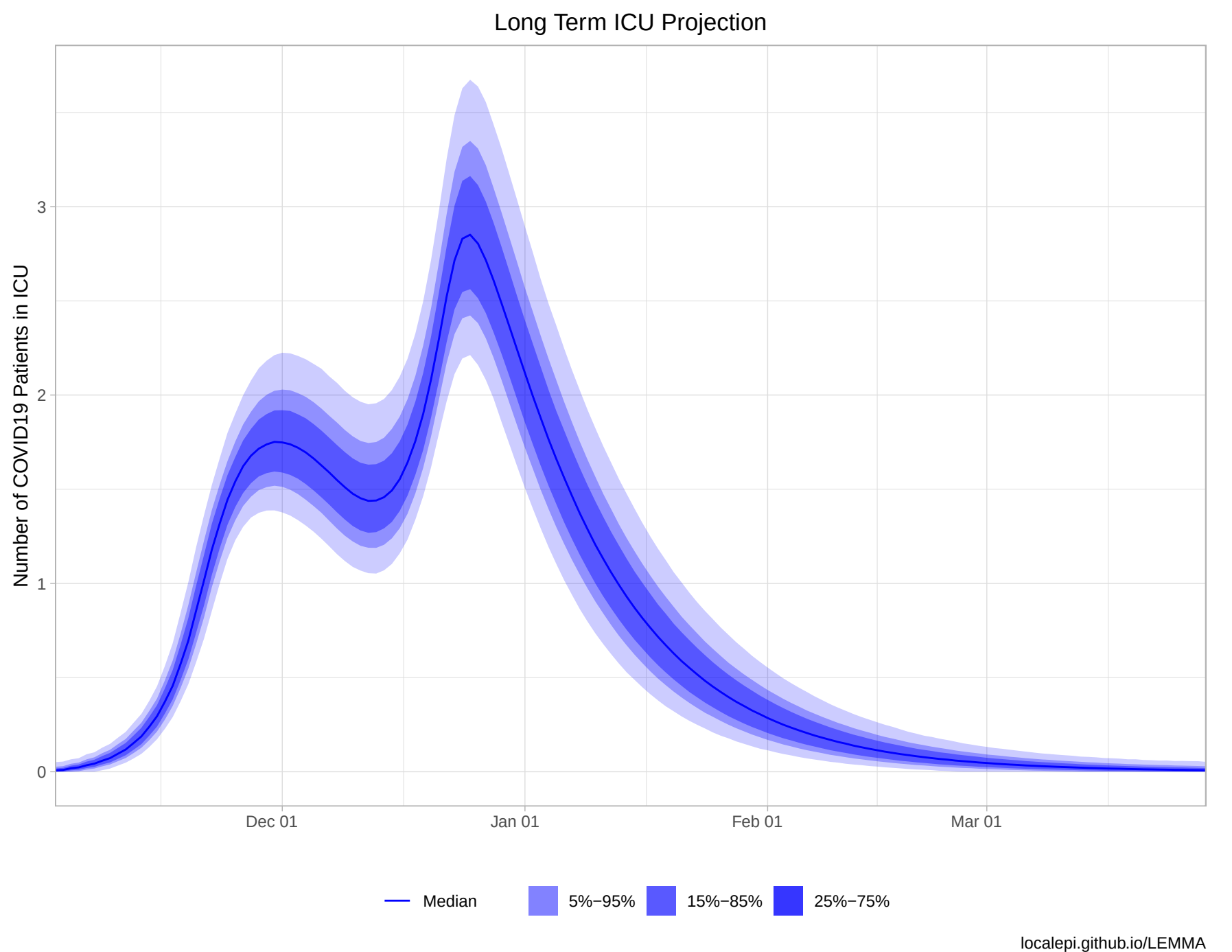
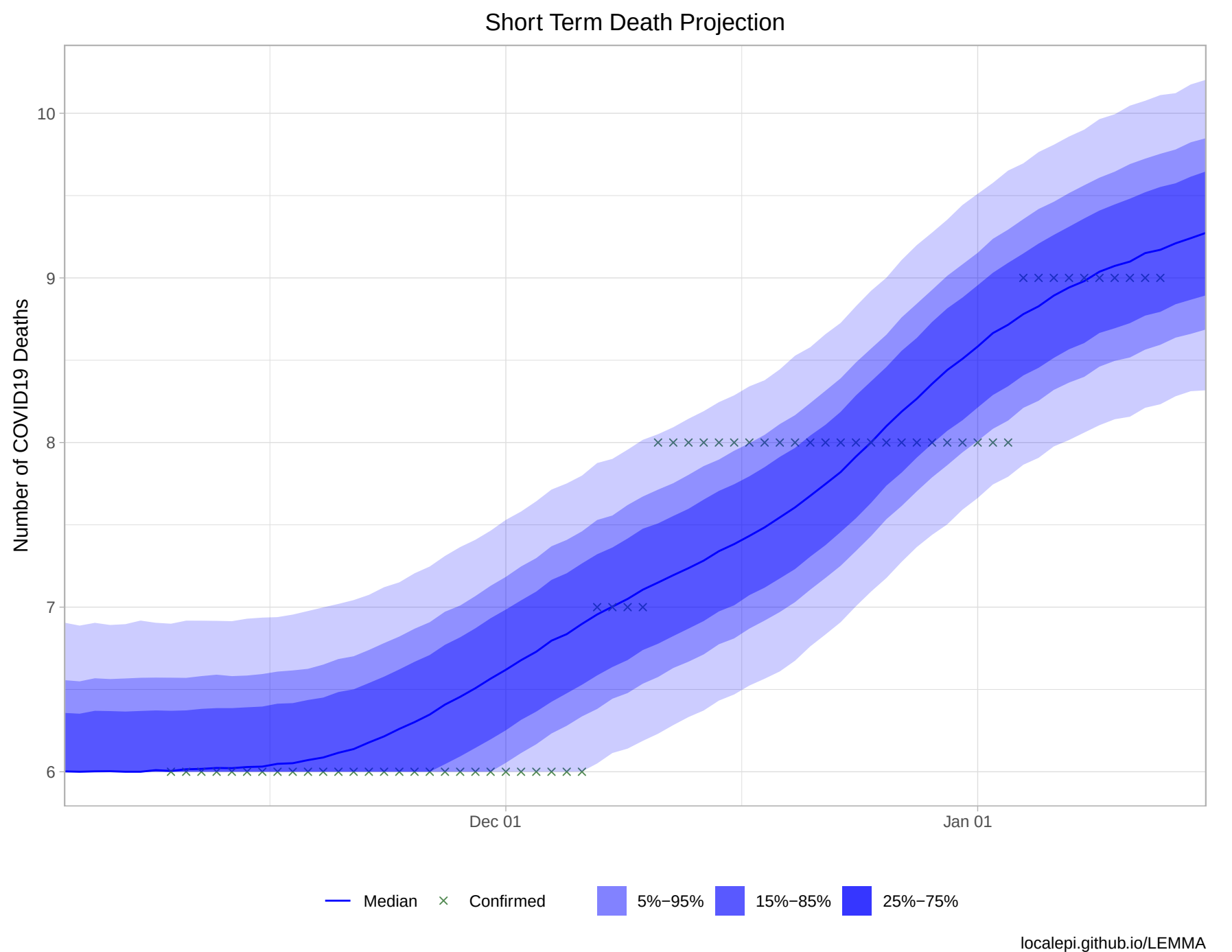
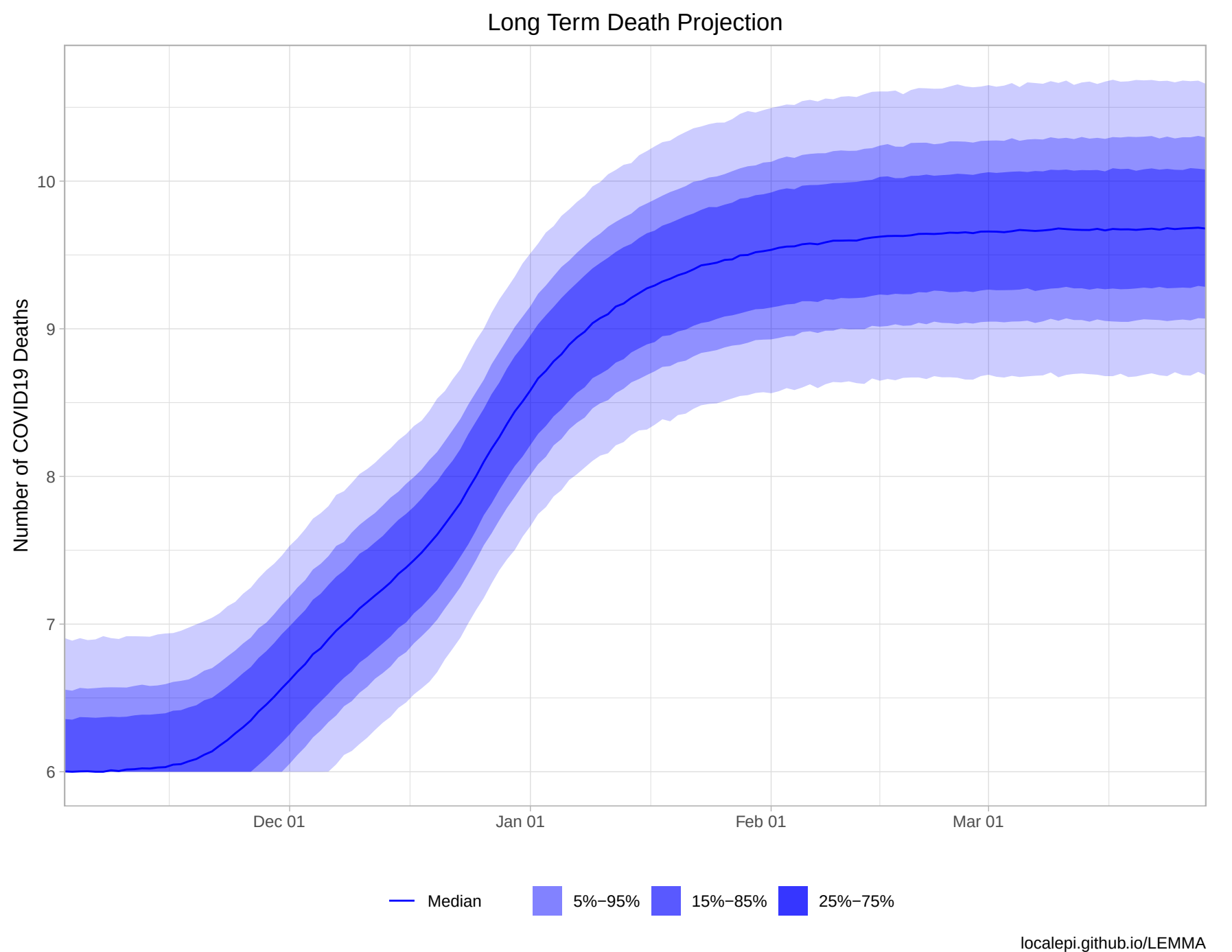

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
5
10
15
Dec 01
Jan 01
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

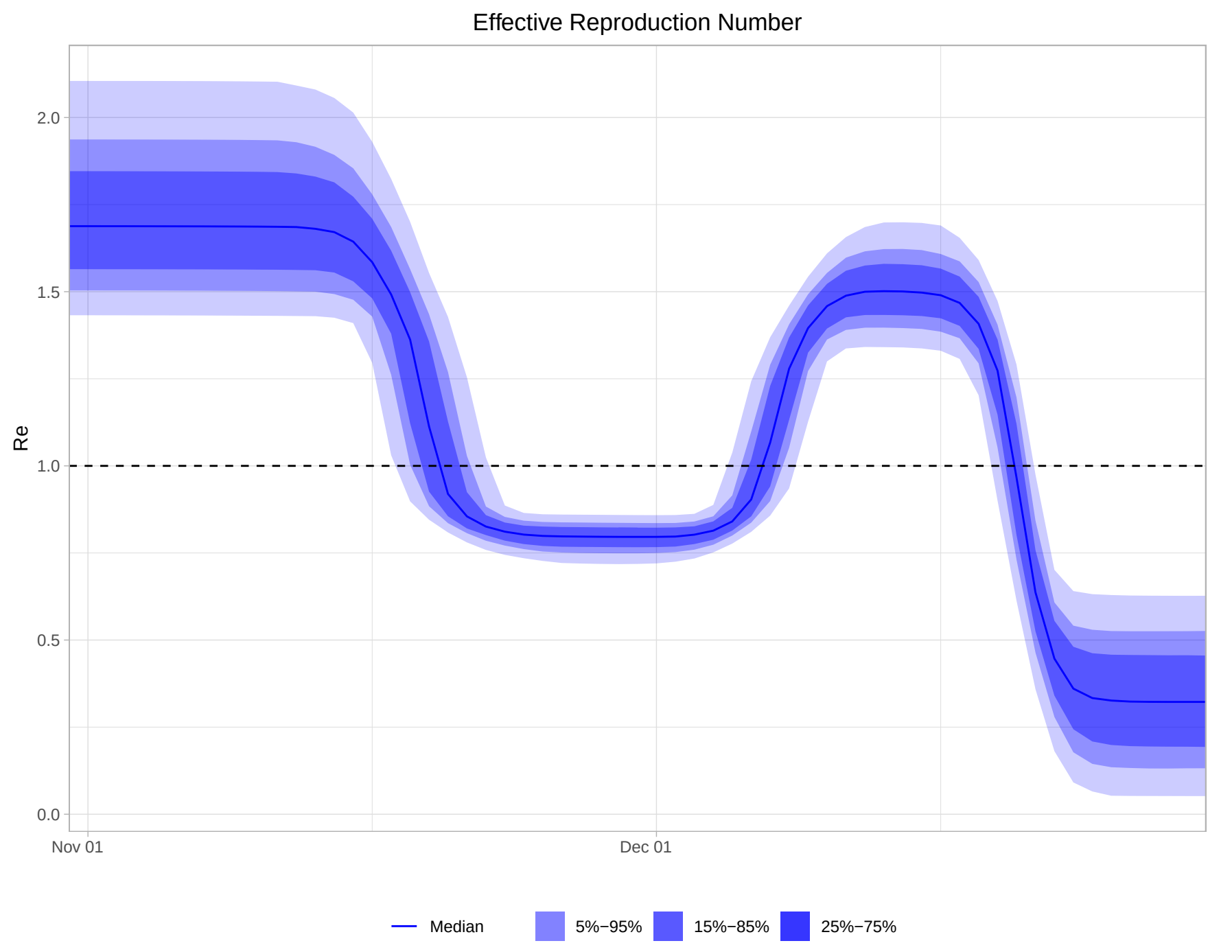

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
15
10
5
0
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


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

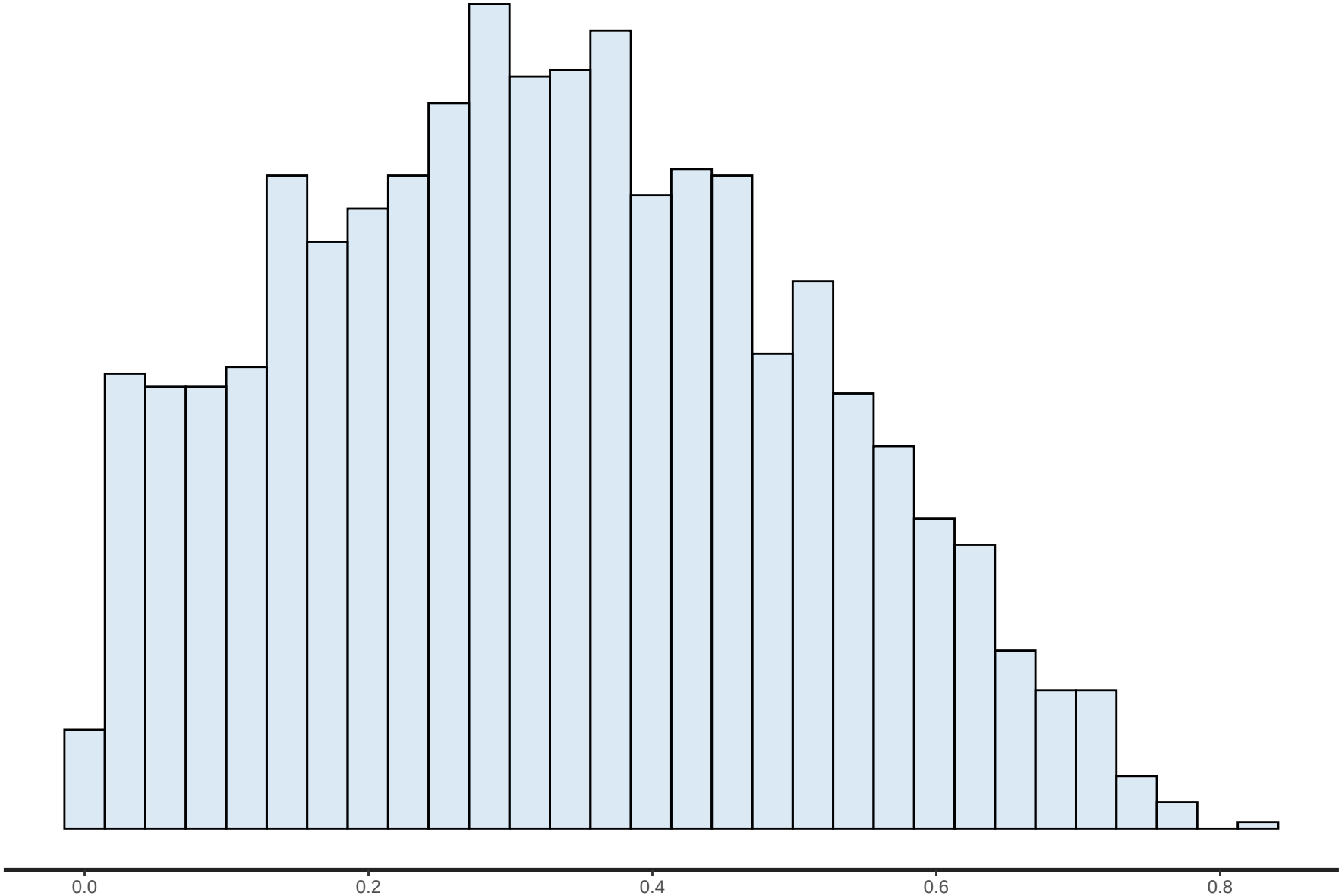

Short Term Death Projection
Number of COVID19 Deaths
10
9
8
7
6
Dec 01
Jan 01
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

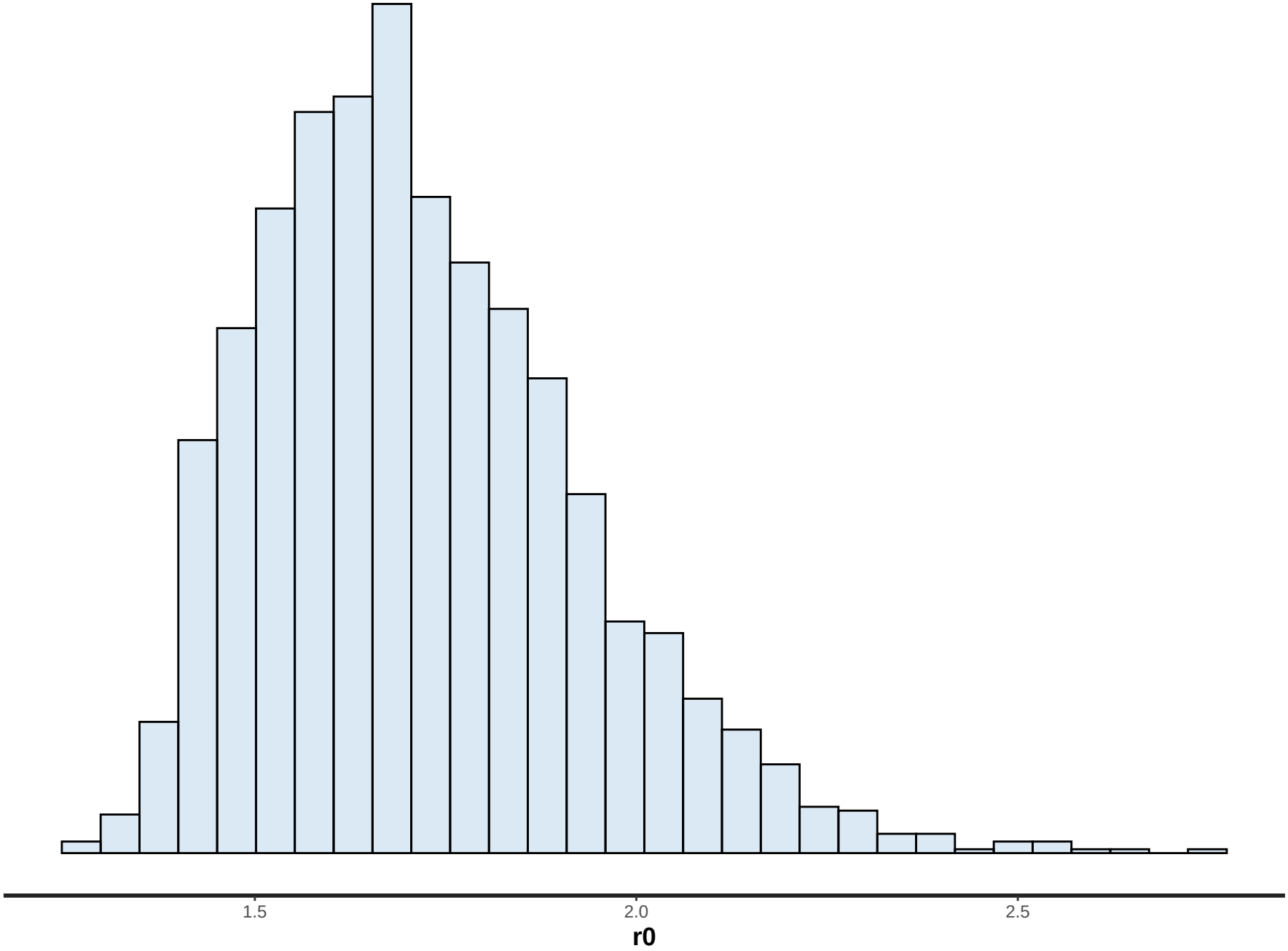

Long Term Death Projection
Number of COVID19 Deaths
10
9
8
7
6
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

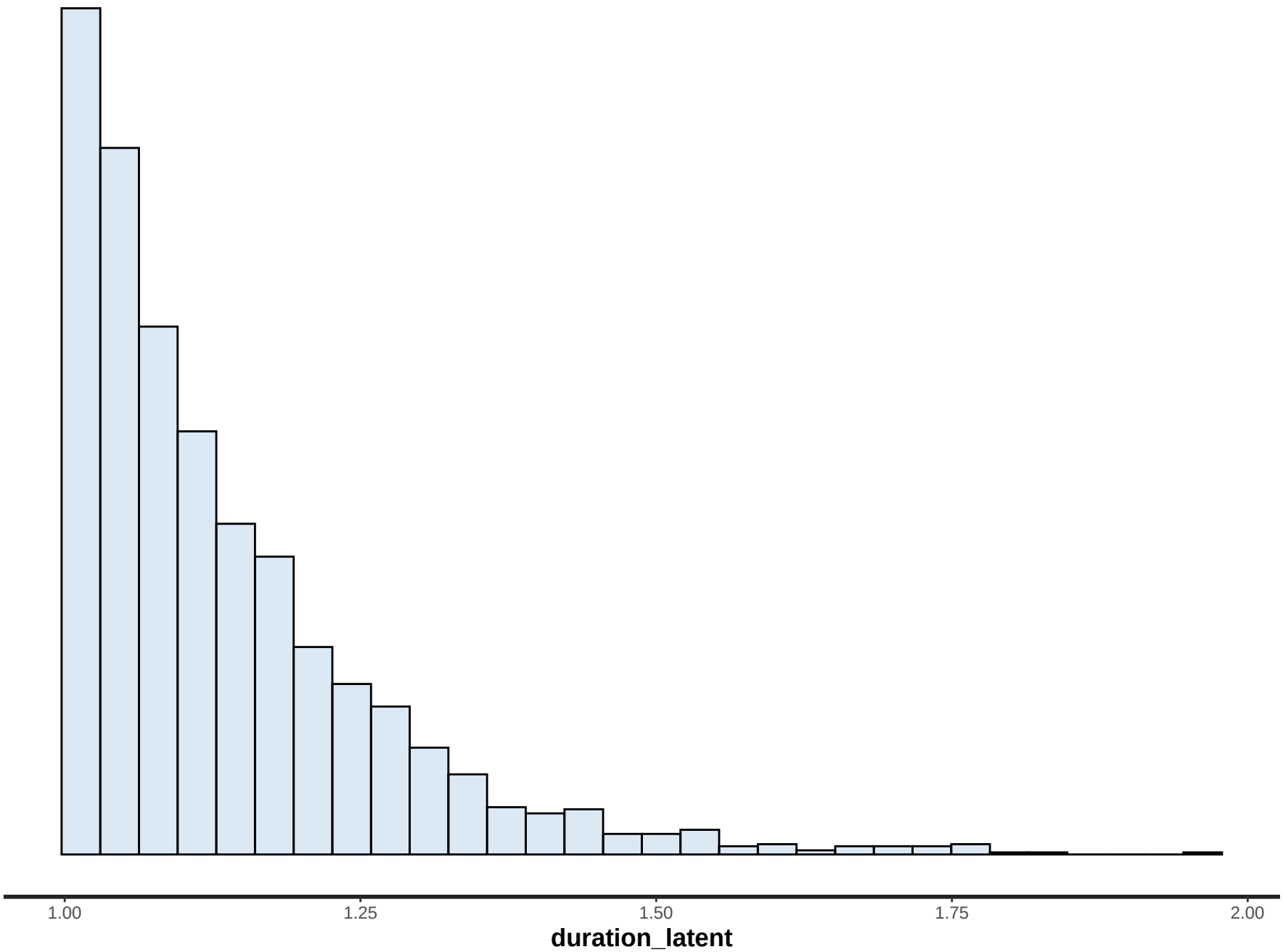

Effective Reproduction Number
Re
2.0
1.5
1.0
0.5
0.0
Nov 01
Dec 01
Median
5%−95%
15%−85%
25%−75%

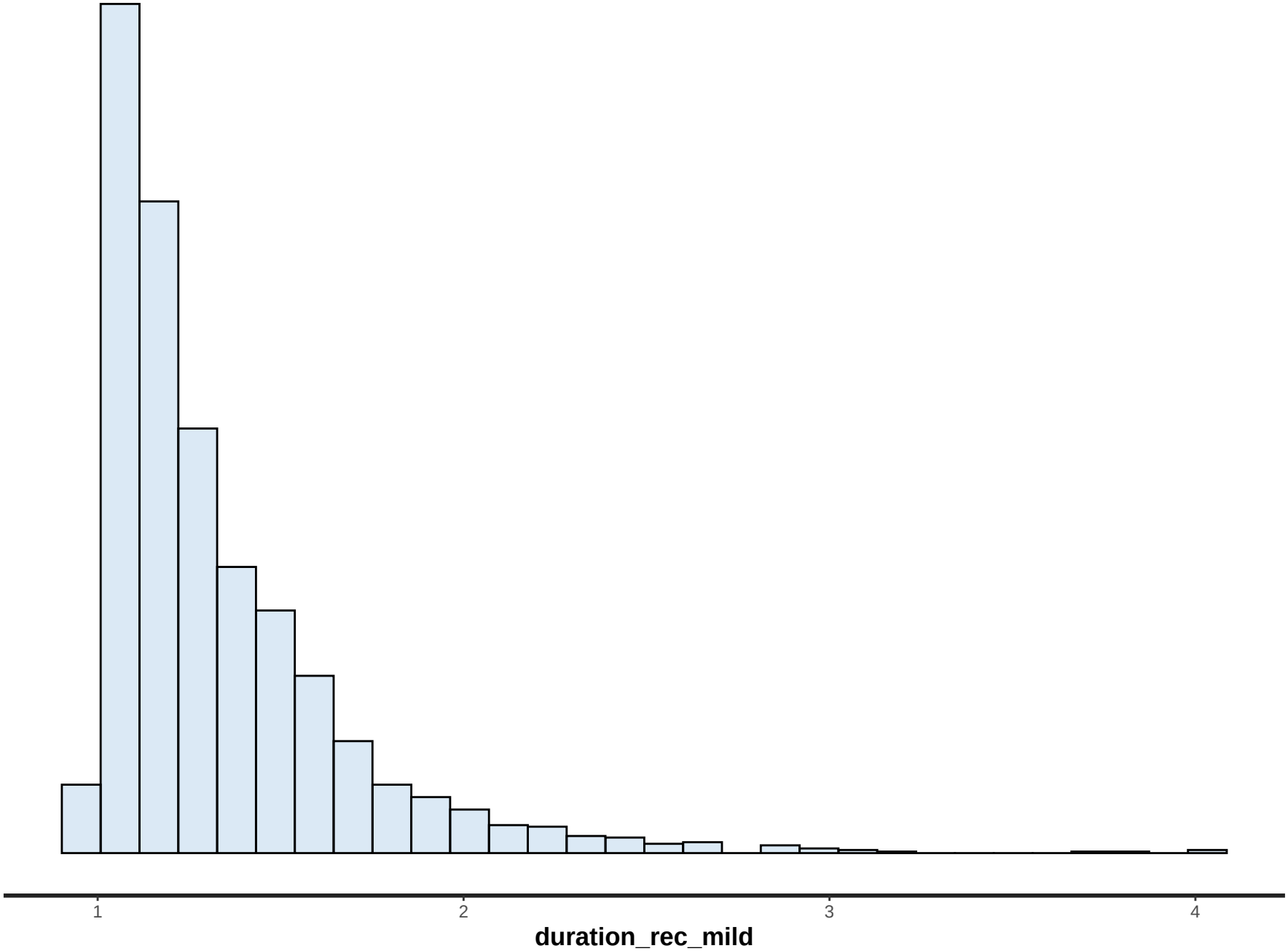
Rt as of 2020−12−30

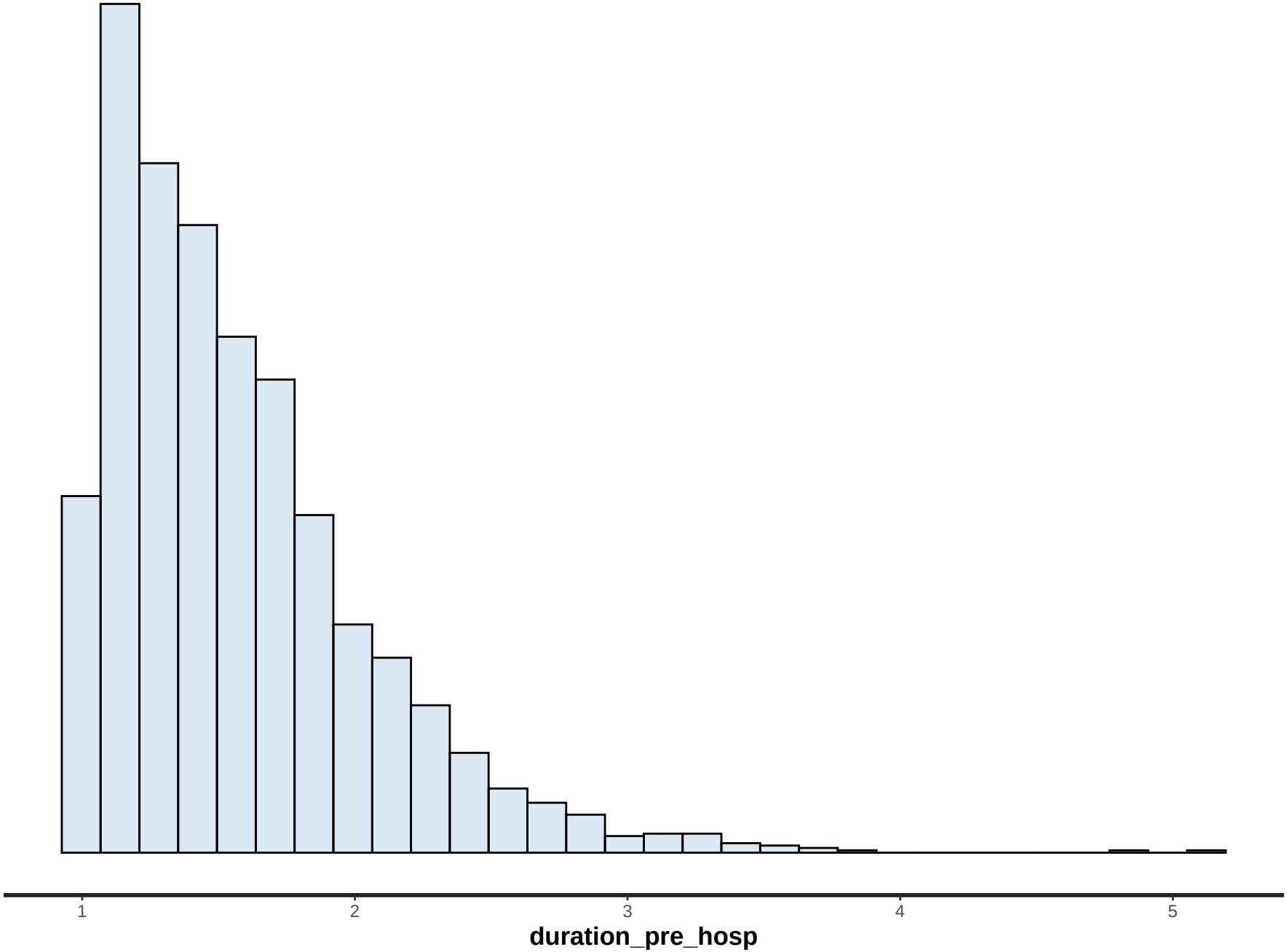
5%	10%	25%	50%	75%	90%	95%
0.05	0.09	0.19	0.32	0.46	0.57	0.63

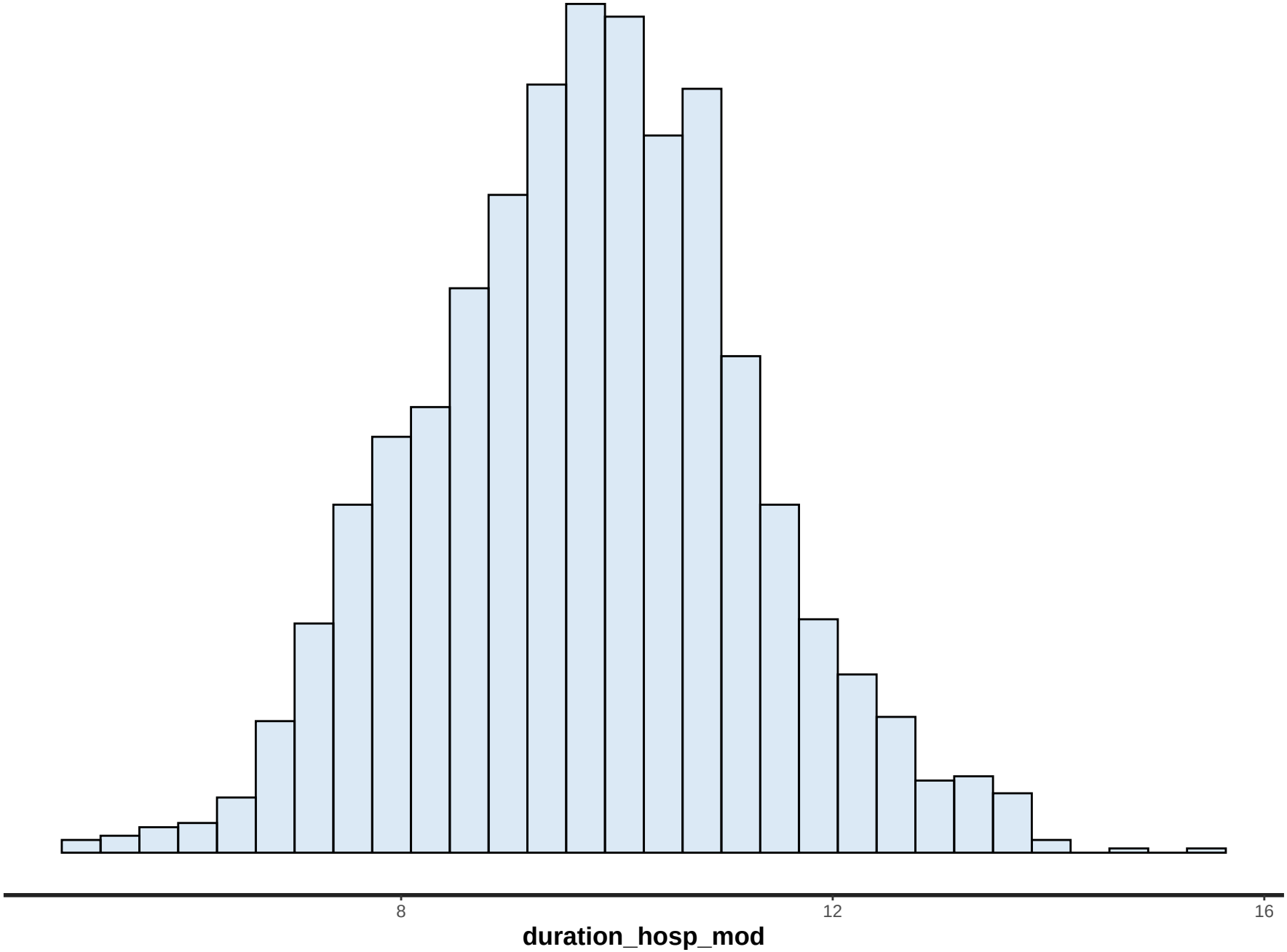


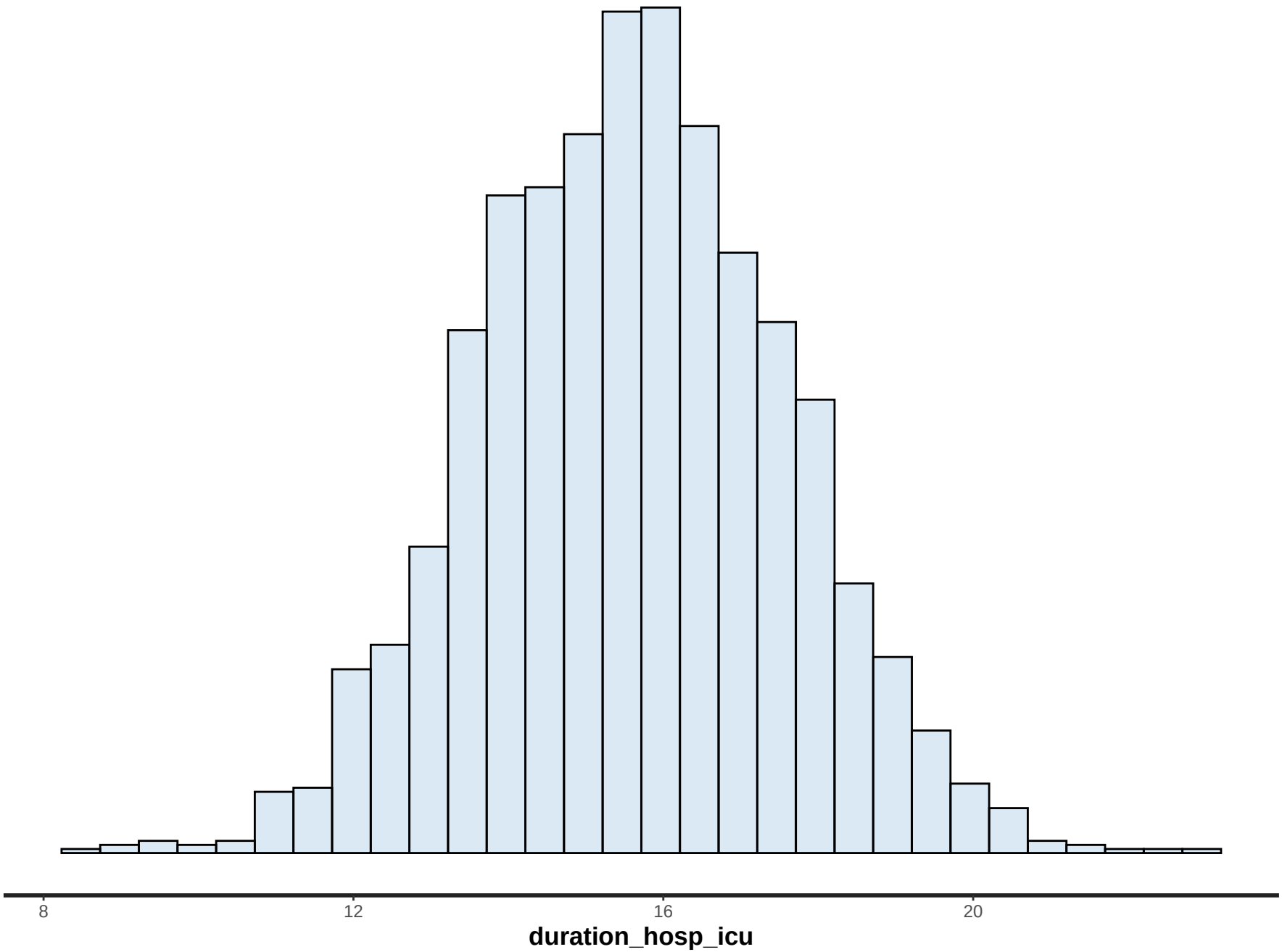

1.5
2.0
2.5
r0

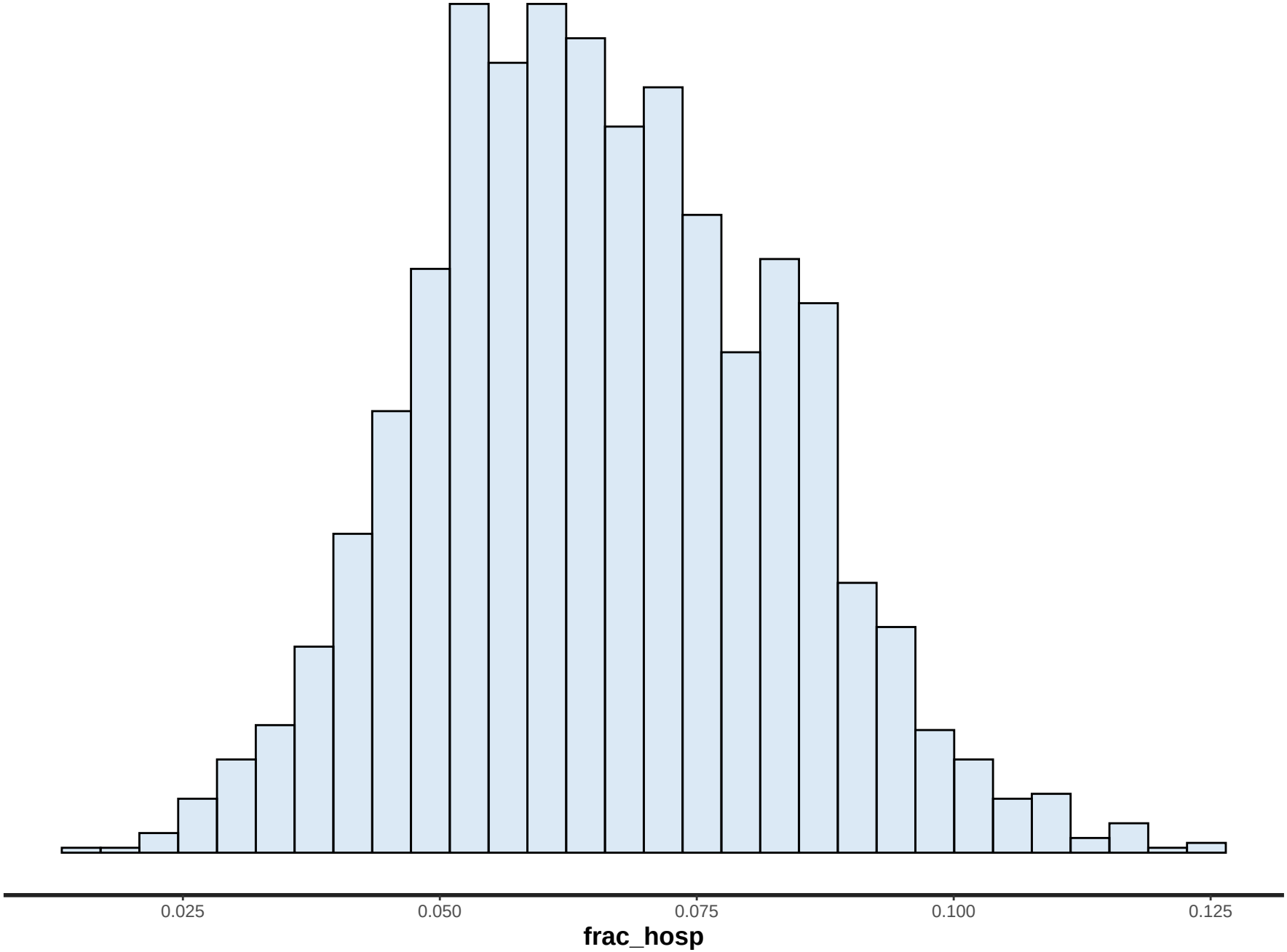

1.00
1.25
1.50
1.75
2.00
duration_latent

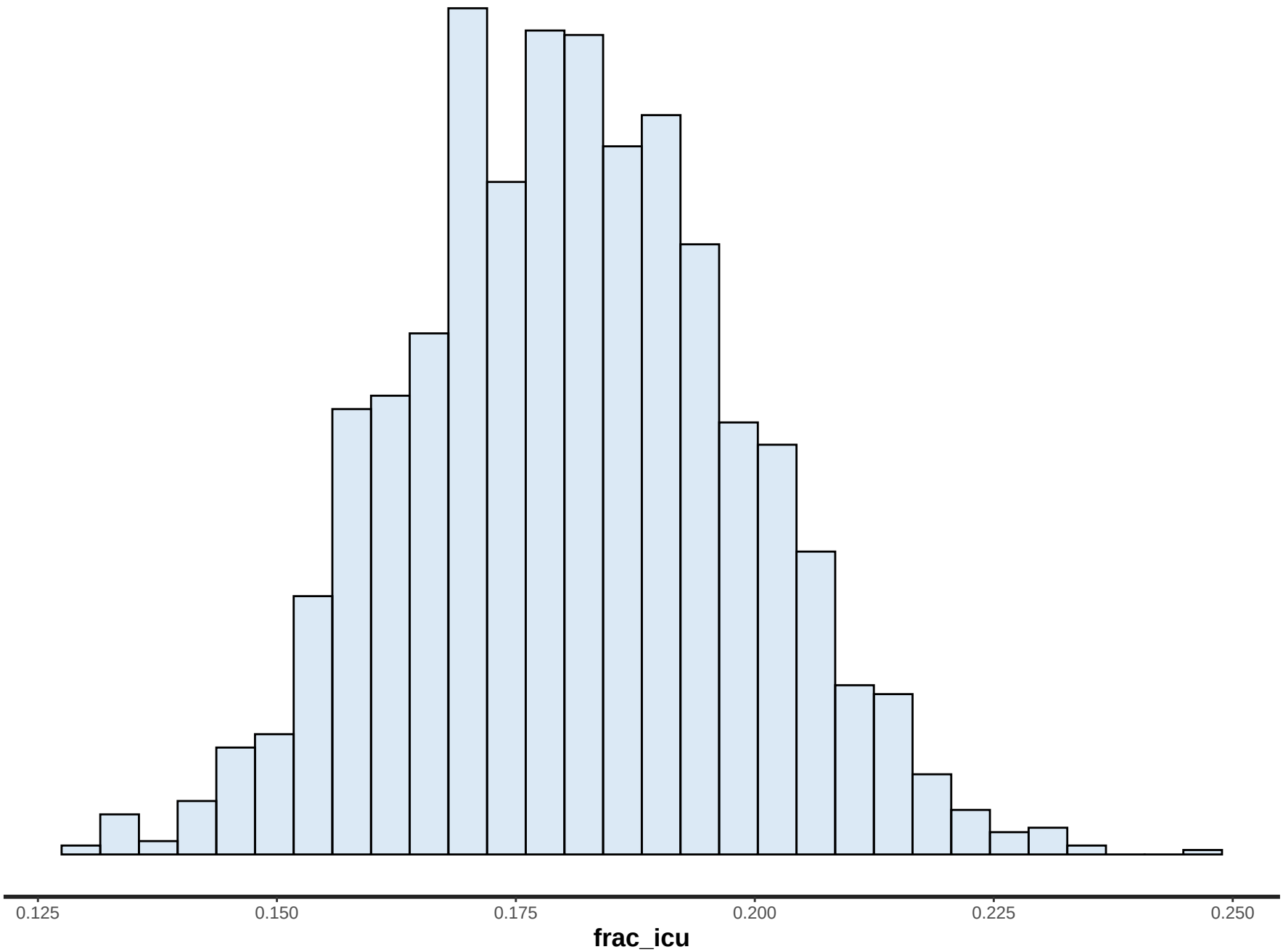

1
2
3
4
duration_rec_mild

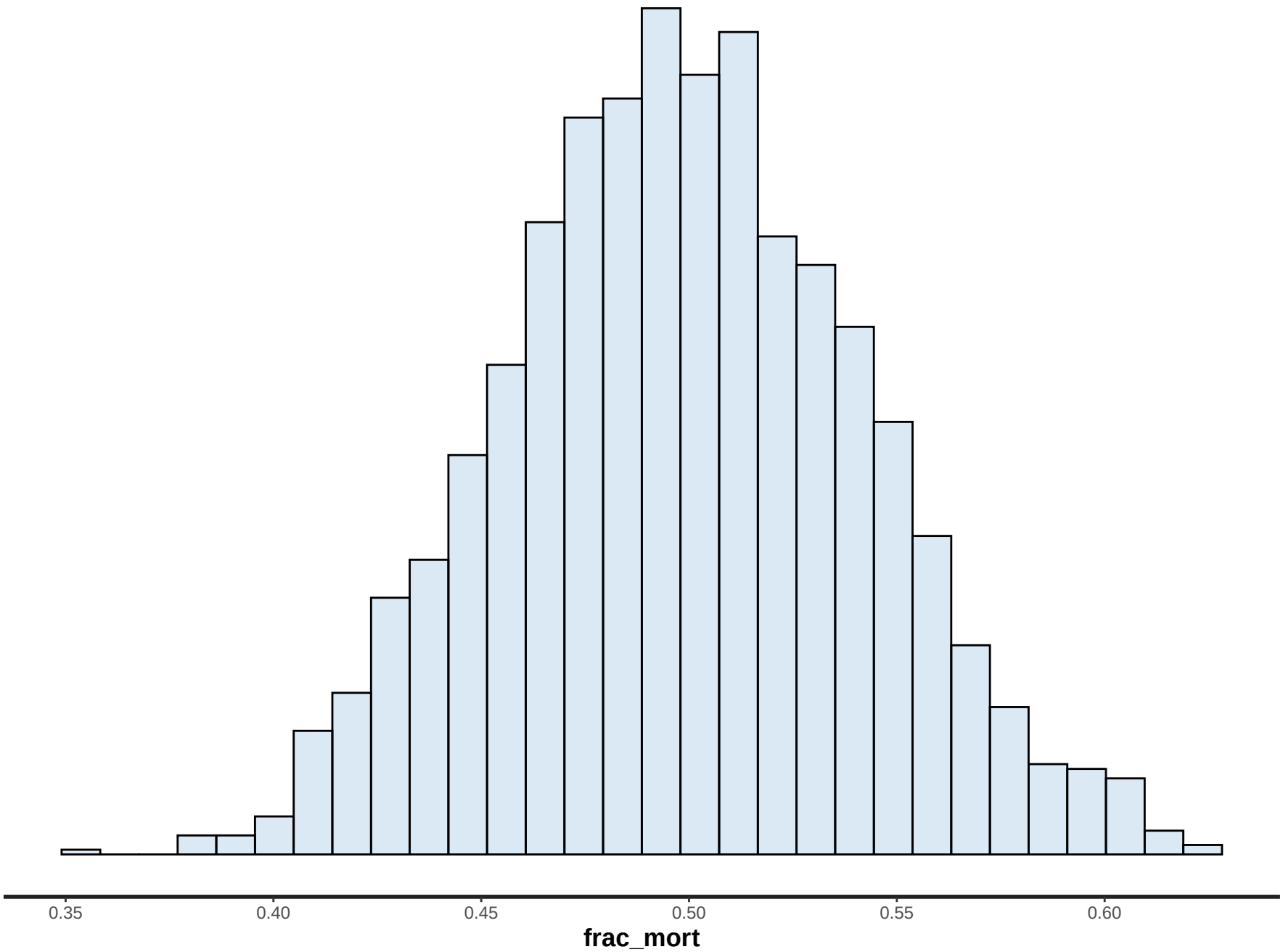

1
2
3
4
5
duration_pre_hosp

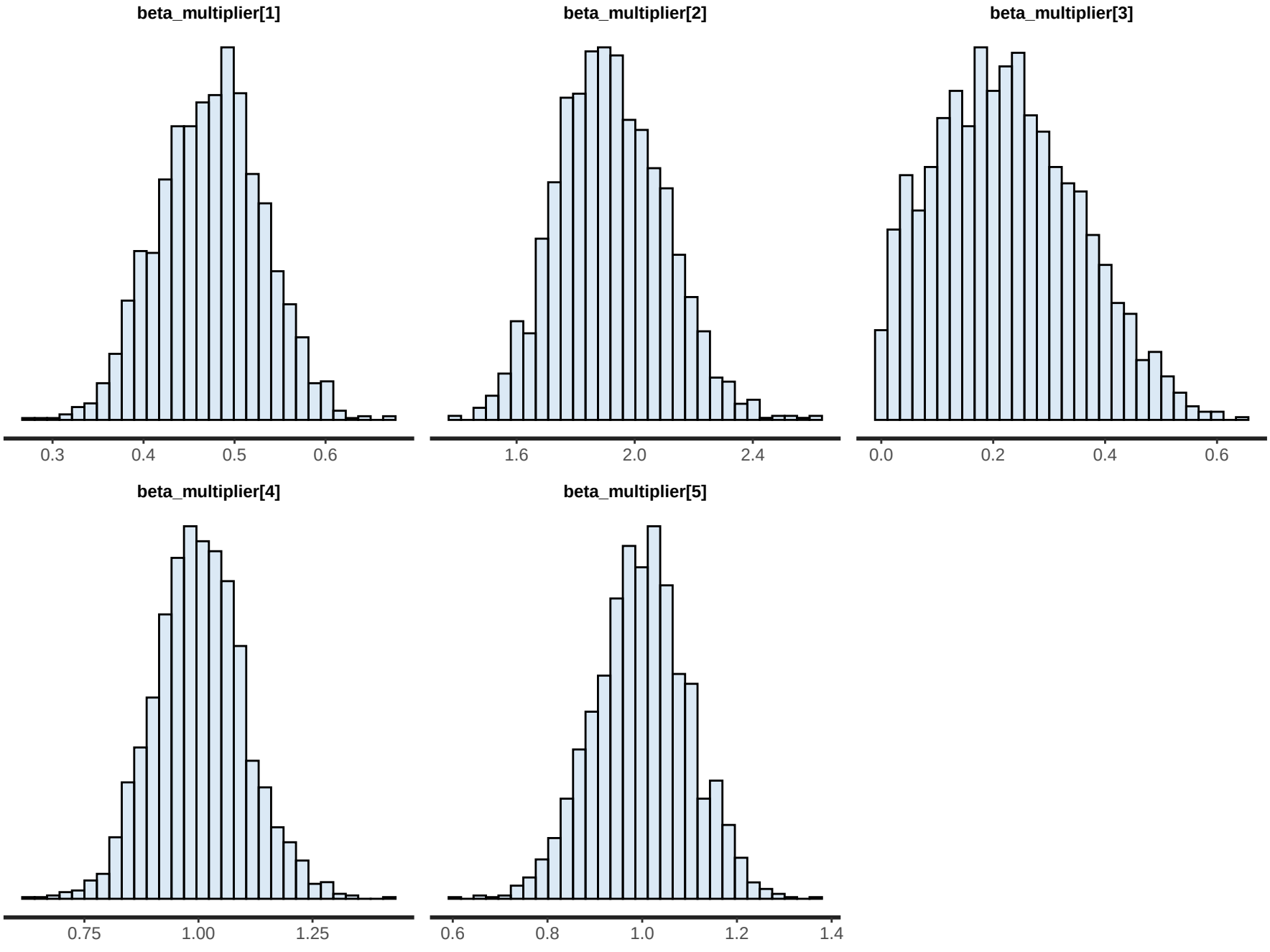

8
12
16
duration_hosp_mod


8
12
16
20
duration_hosp_icu


0.025
0.050
0.075
0.100
0.125
frac_hosp


0.125
0.150
0.175
0.200
0.225
0.250
frac_icu


0.35
0.40
0.45
0.50
0.55
0.60
frac_mort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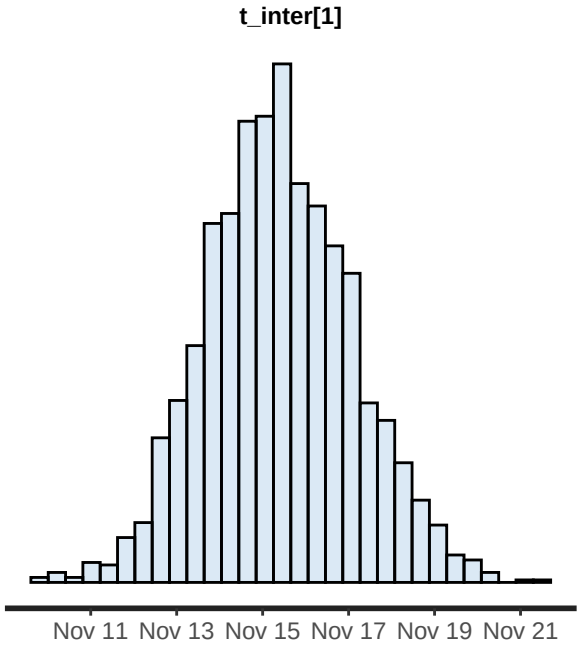
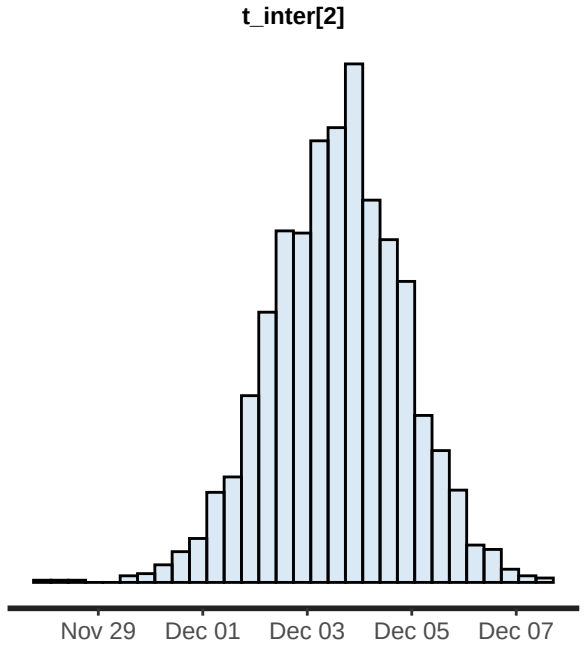
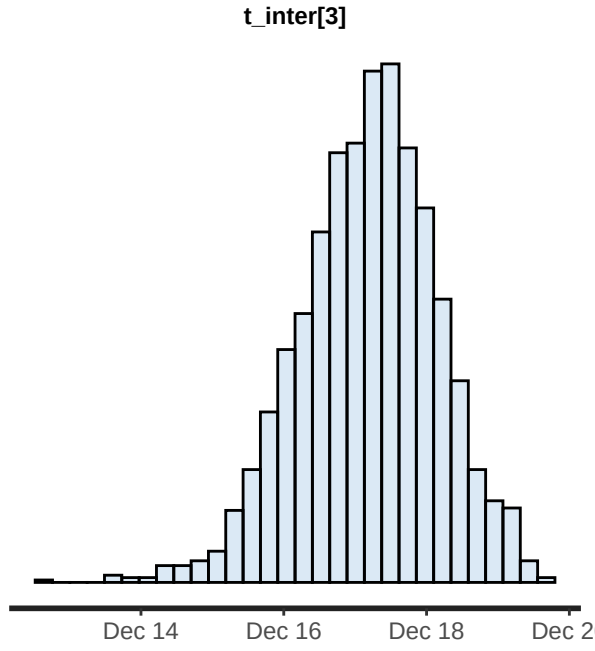
0.3
0.4
0.5
0.6
beta_multiplier[2]
1.6
2.0
2.4
beta_multiplier[3]
0.0
0.2
0.4
0.6
beta_multiplier[4]
0.75
1.00
1.25
beta_multiplier[5]
0.6
0.8
1.0
1.2
1.4


t_inter[1]
Nov 11
Nov 13
Nov 15
Nov 17
Nov 19
Nov 21


t_inter[2]
Nov 29
Dec 01
Dec 03
Dec 05
Dec 07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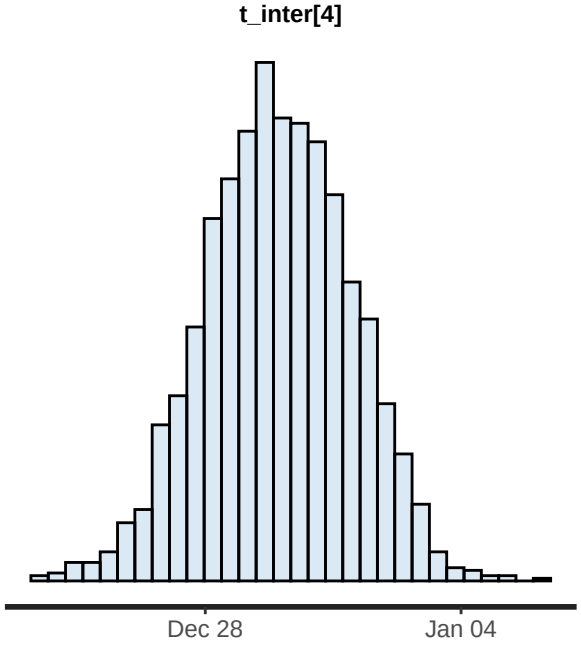
Dec 14
Dec 16
Dec 18
Dec 2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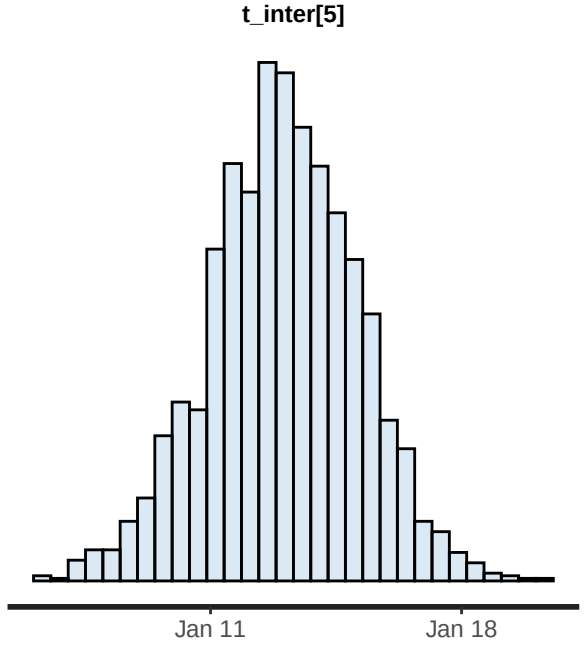
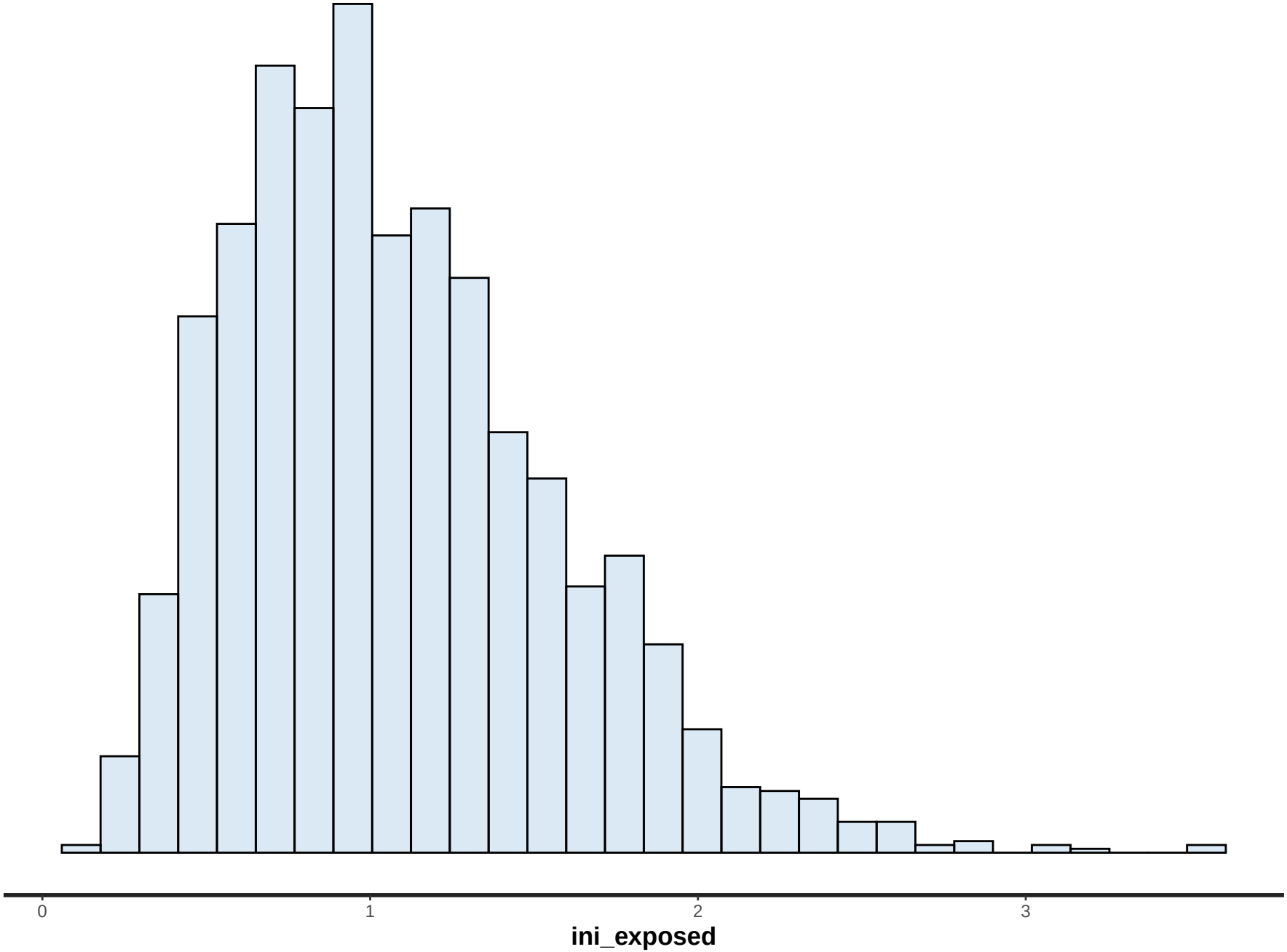
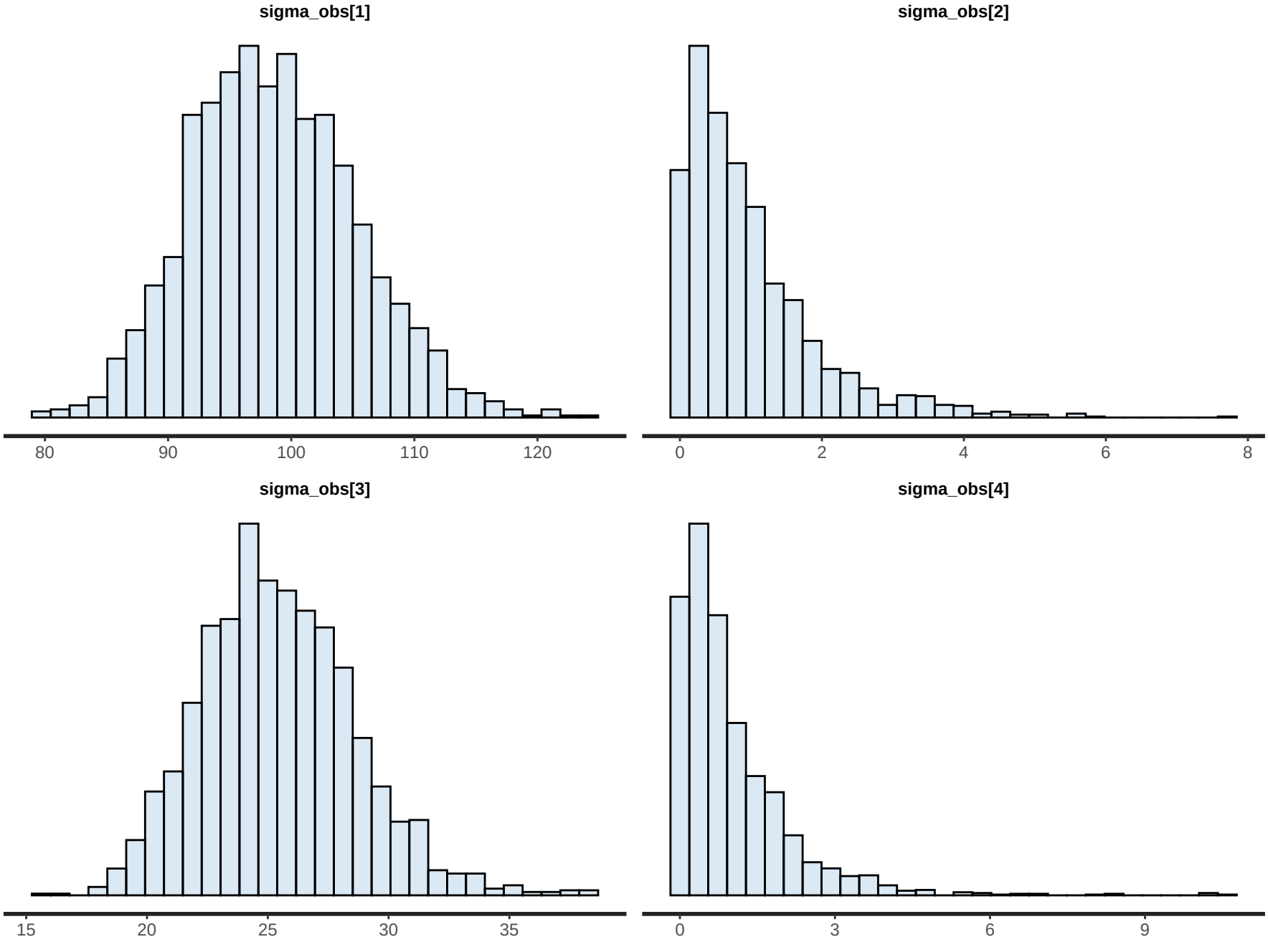
Dec 28
Jan 04


t_inter[5]
Jan 11
Jan 18


0
1
2
3
ini_exposed


sigma_obs[1]
80
90
100
110
120
sigma_obs[2]
0
2
4
6
8
sigma_obs[3]
15
20
25
30
35
sigma_obs[4]
0
3
6
9