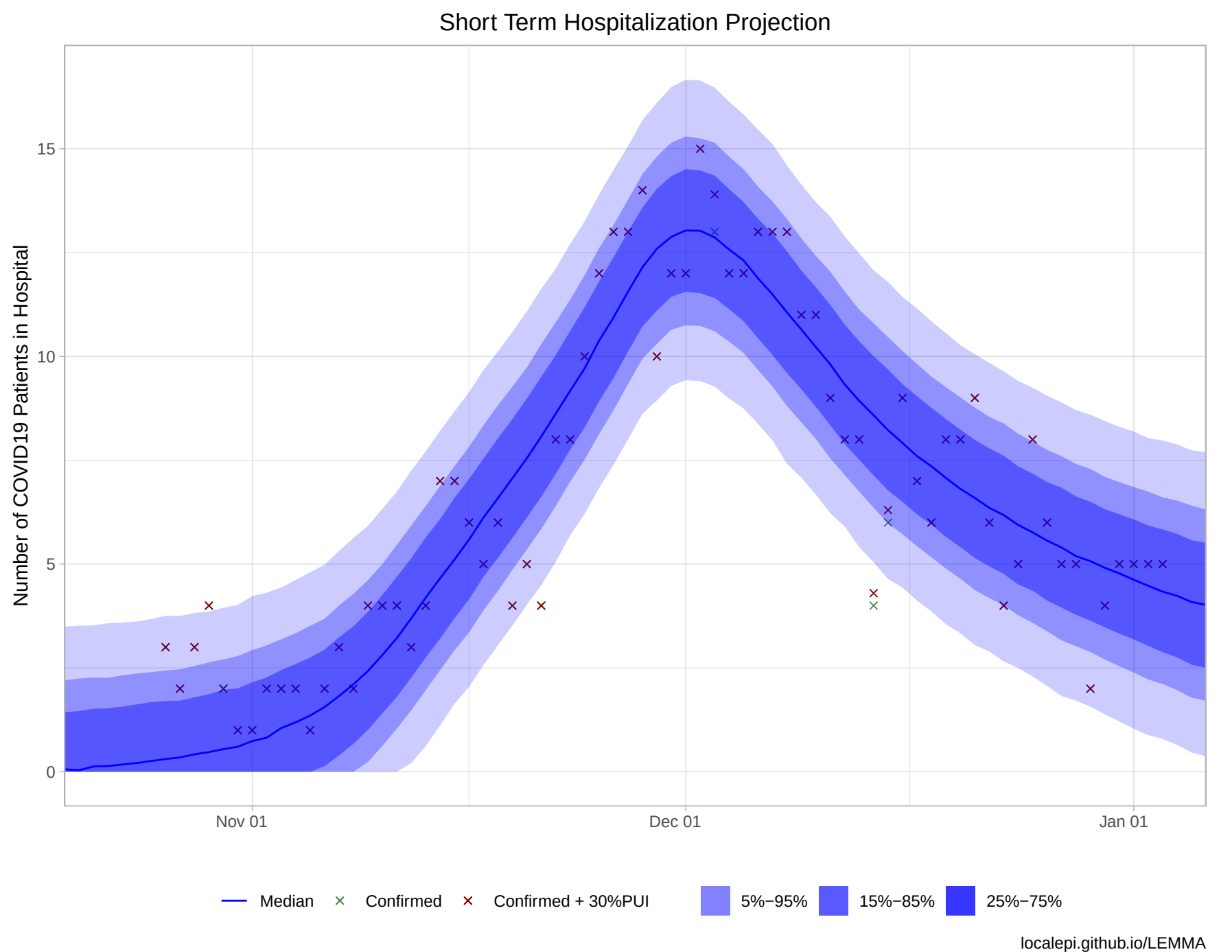
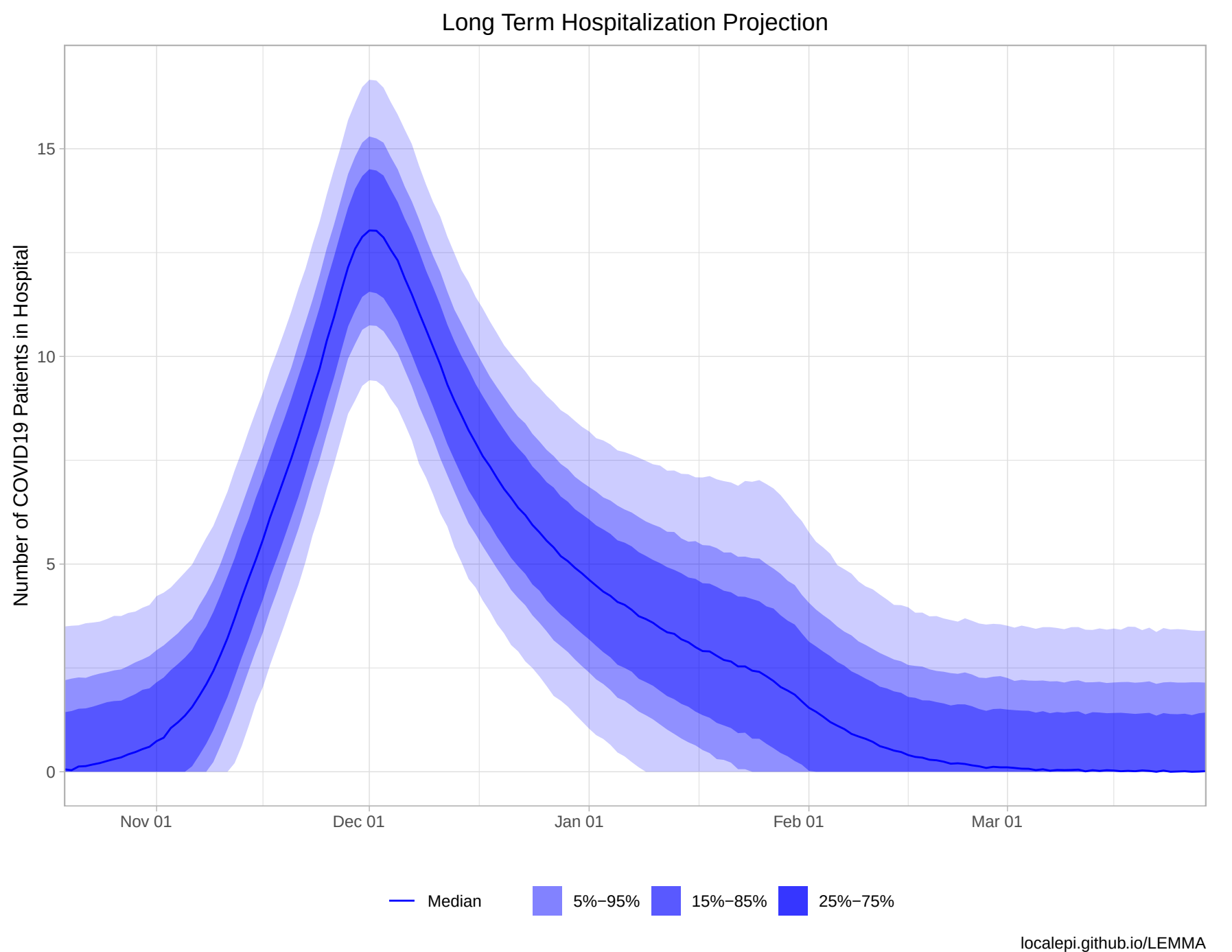
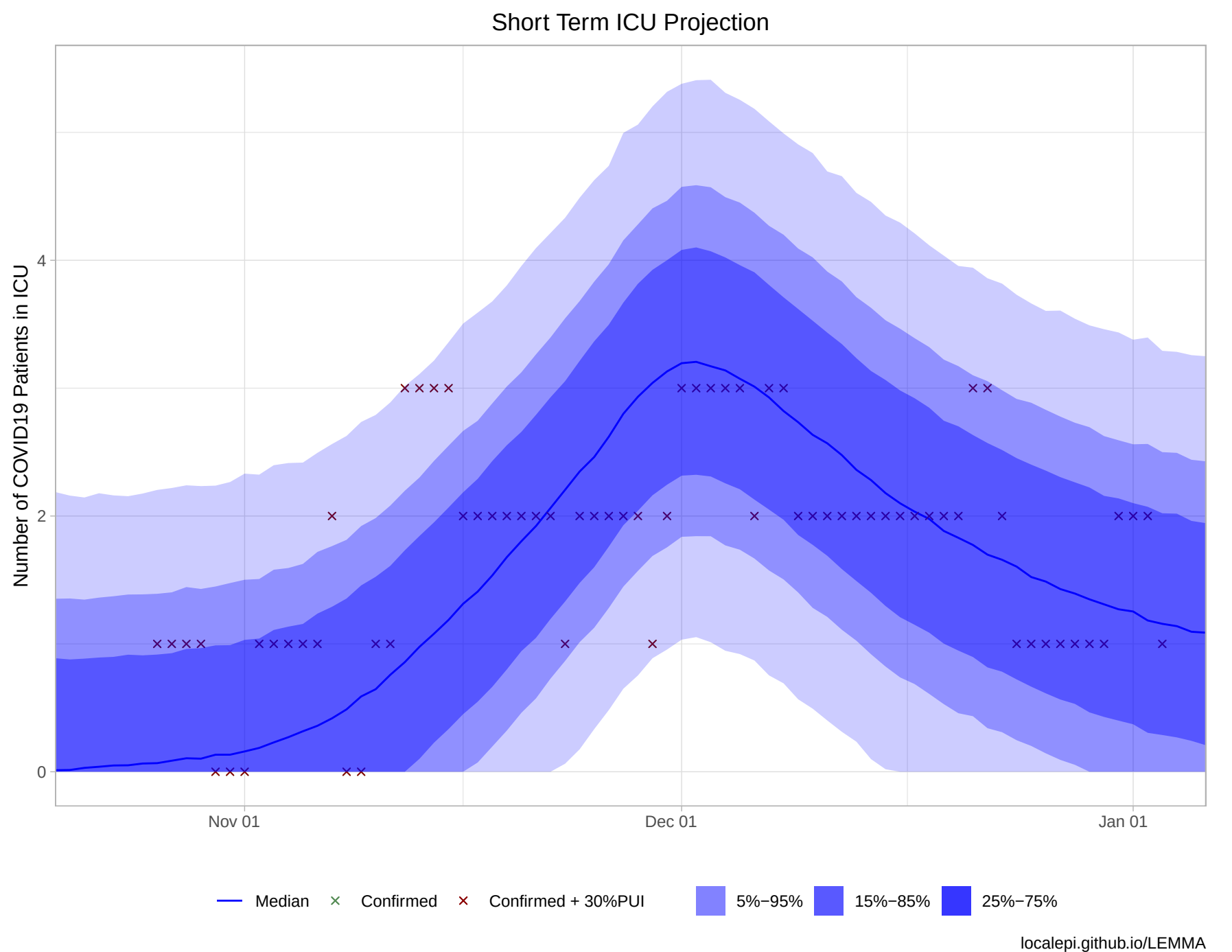
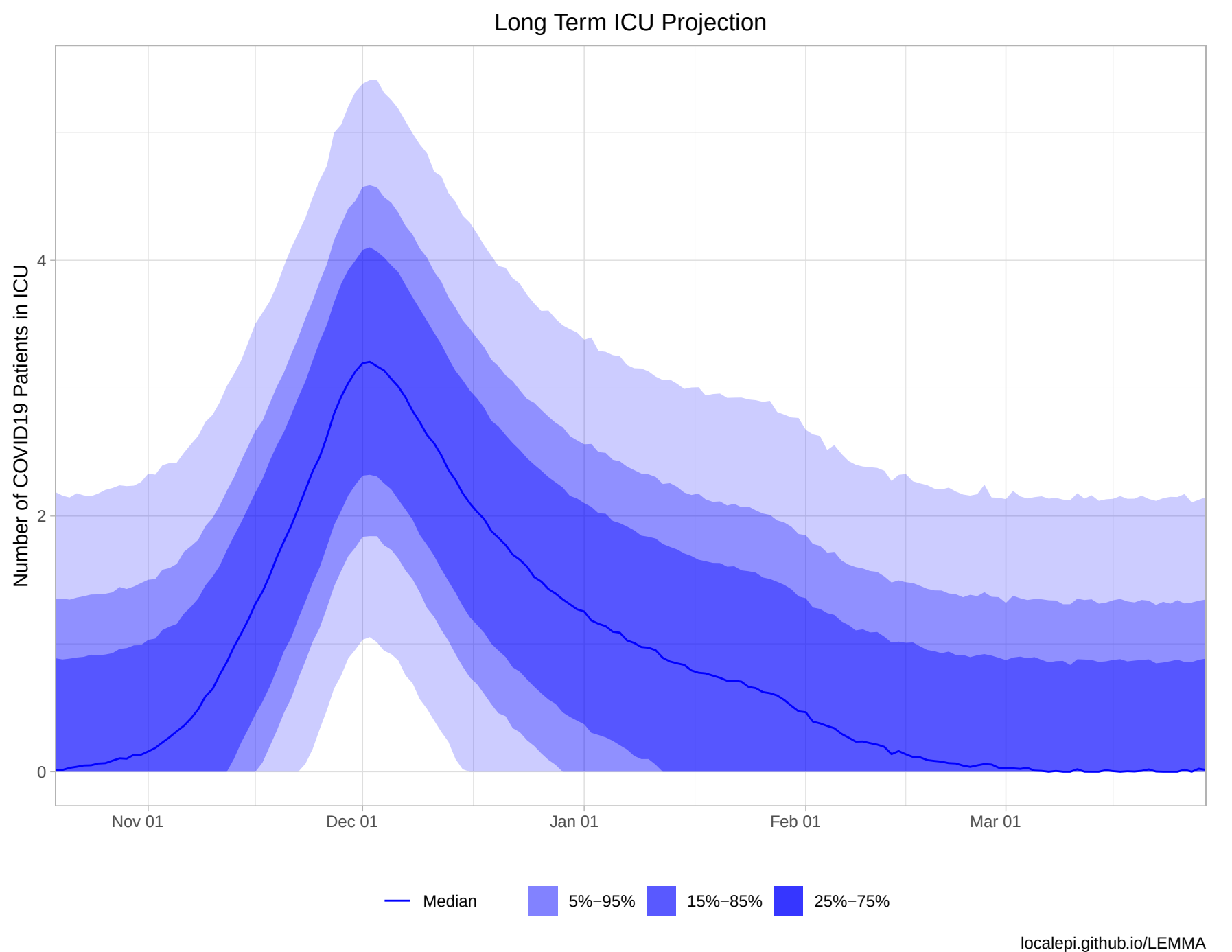
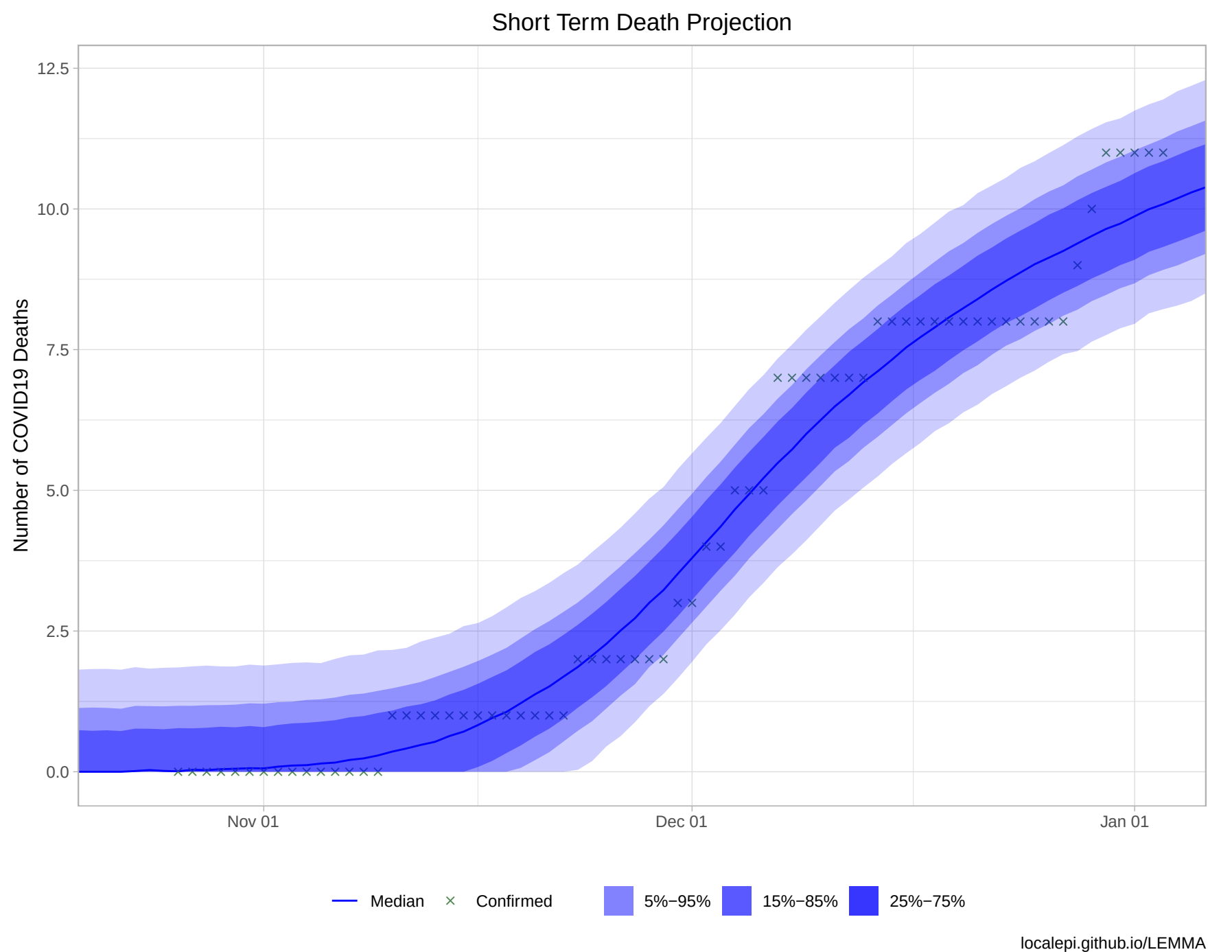
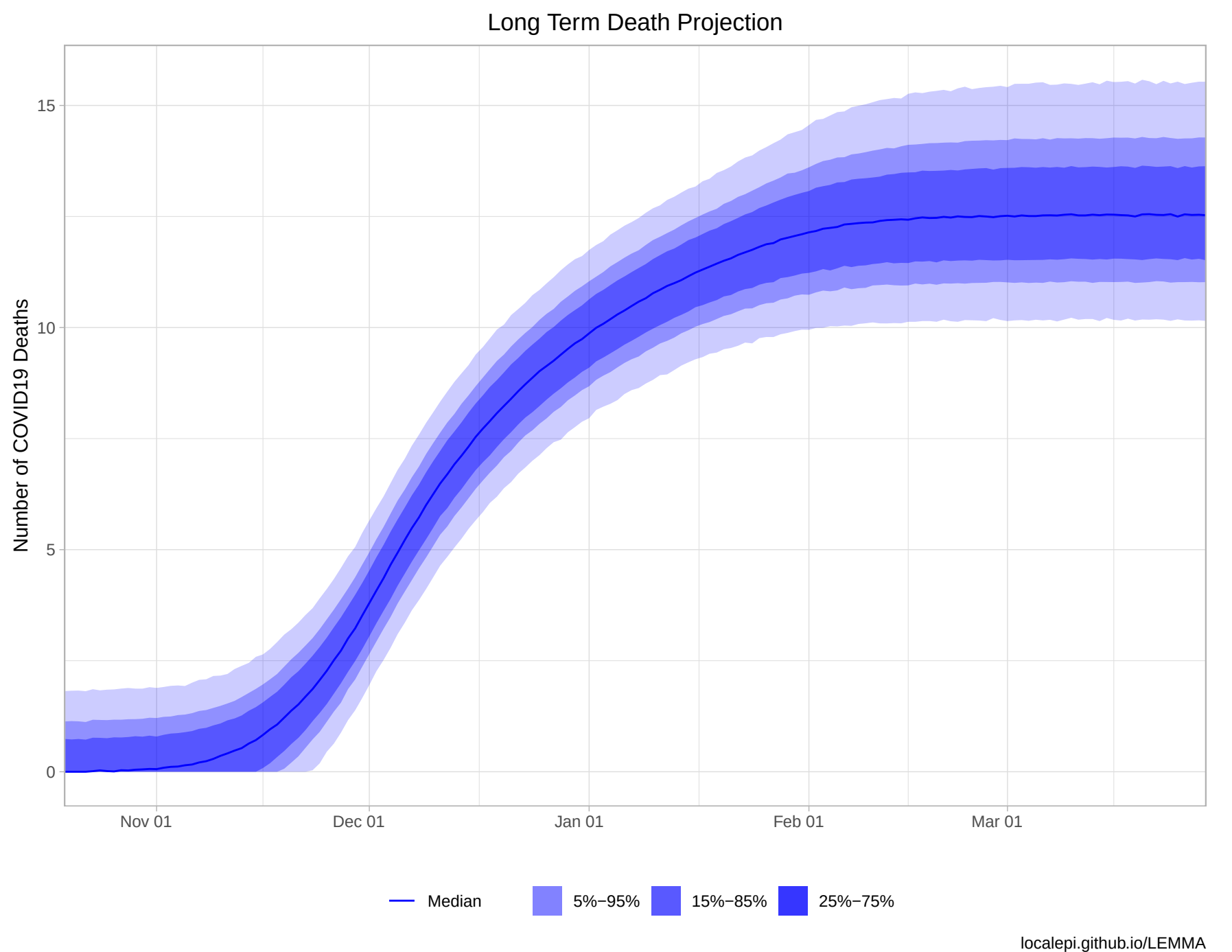

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
5
10
15
Nov 01
Dec 01
Jan 01
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

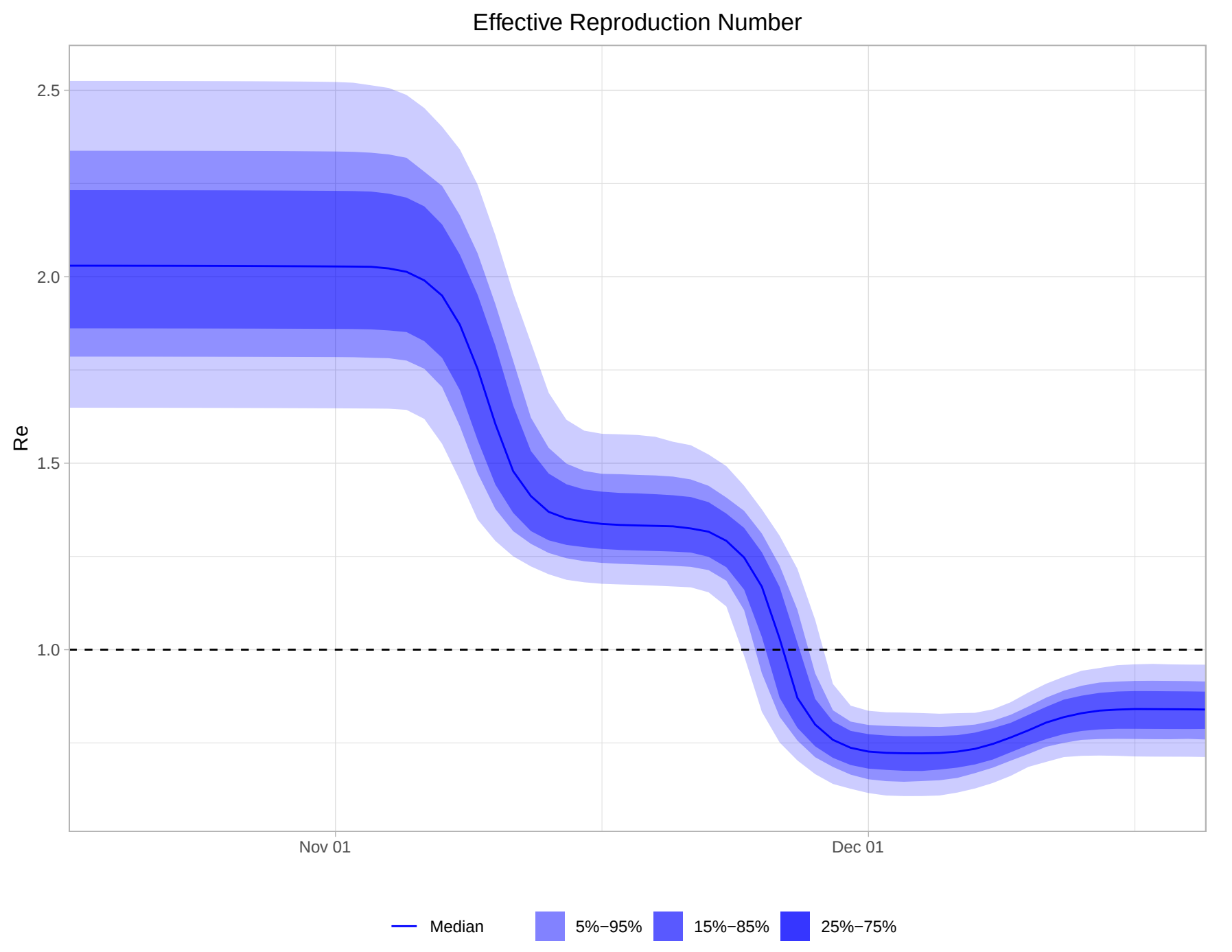

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
5
10
15
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


Short Term ICU Projection
Number of COVID19 Patients in ICU
0
2
4
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
4
2
0
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

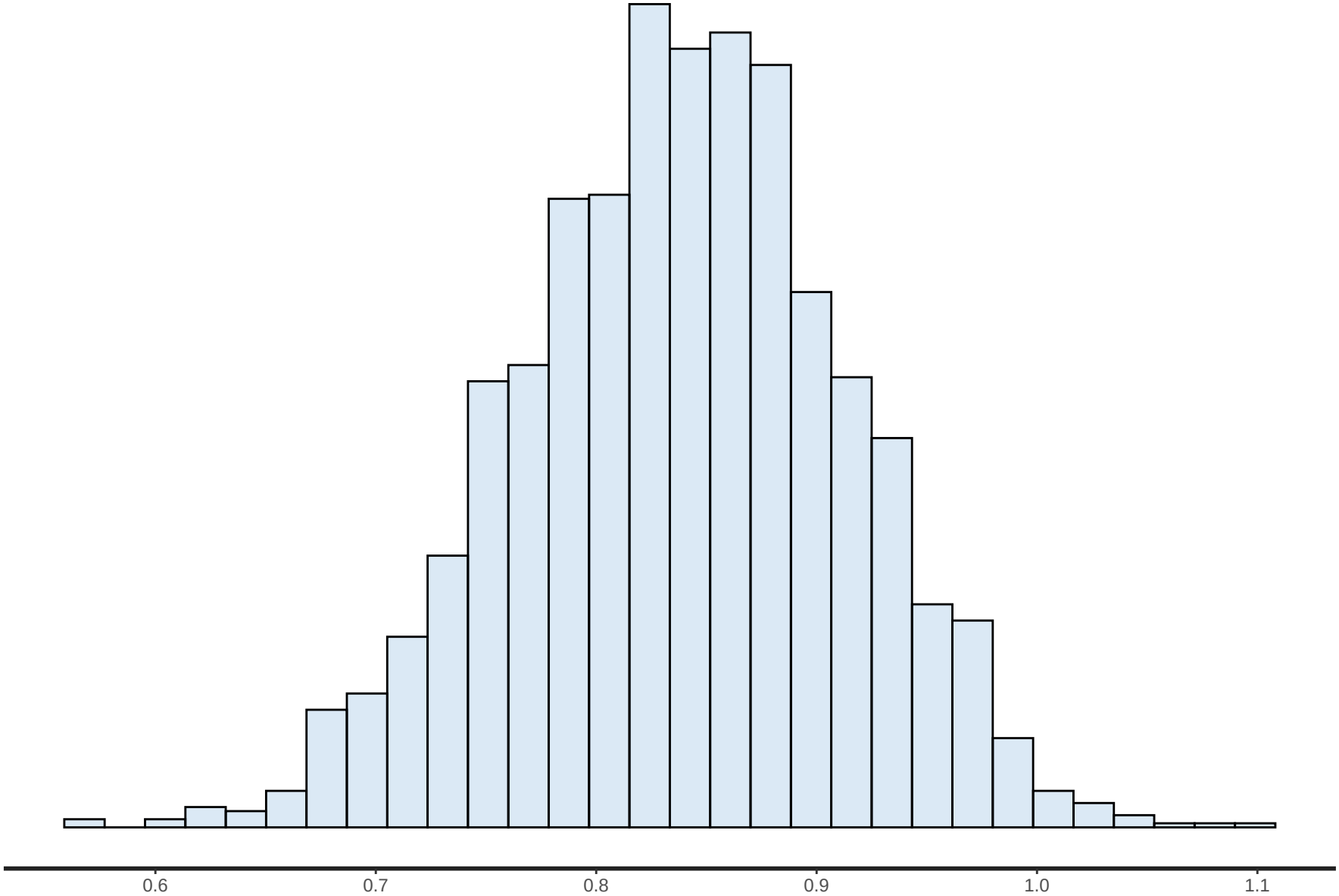

Short Term Death Projection
Number of COVID19 Deaths
12.5
10.0
7.5
5.0
2.5
0.0
Nov 01
Dec 01
Jan 01
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

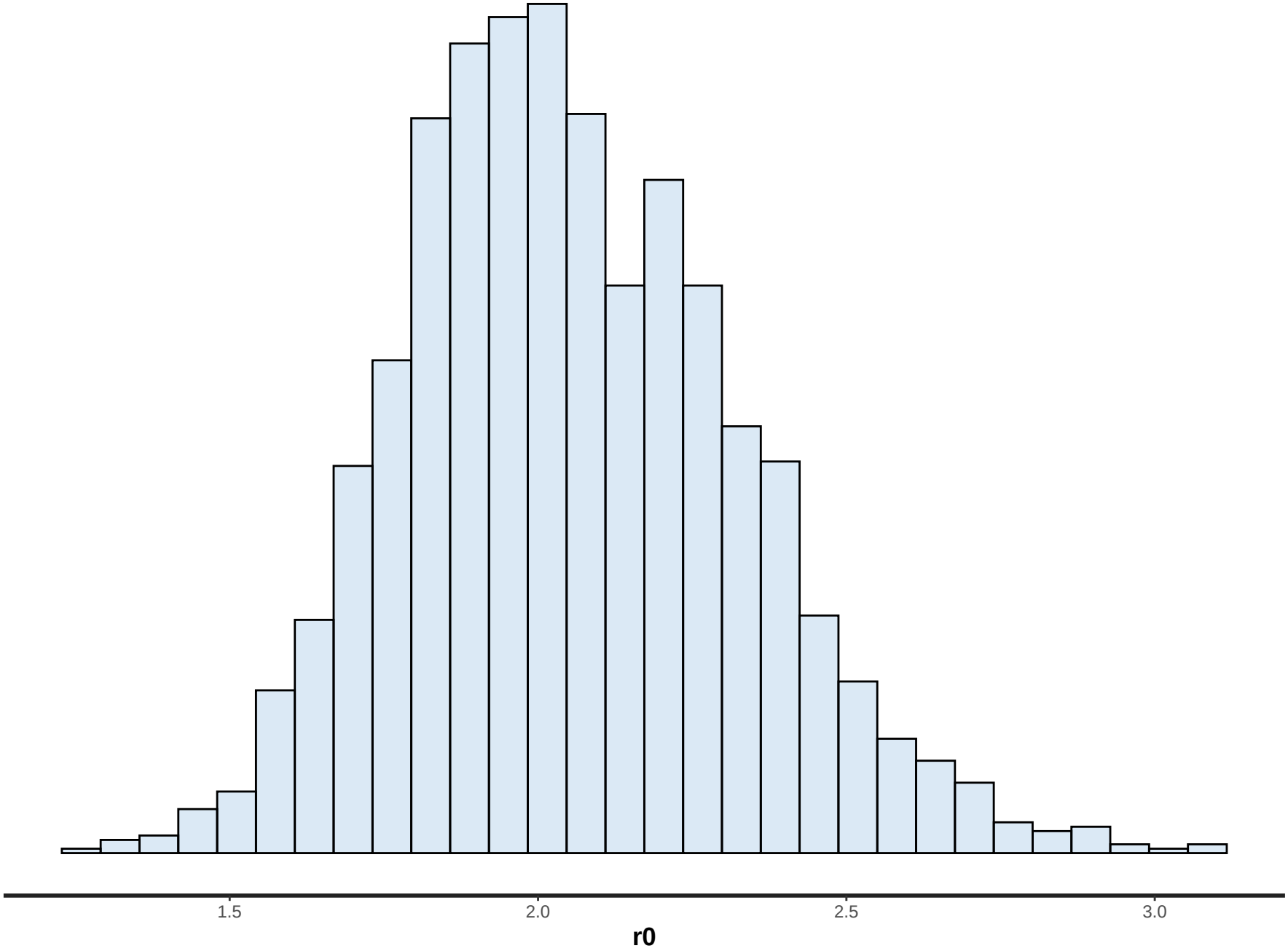

Long Term Death Projection
Number of COVID19 Deaths
15
10
5
0
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

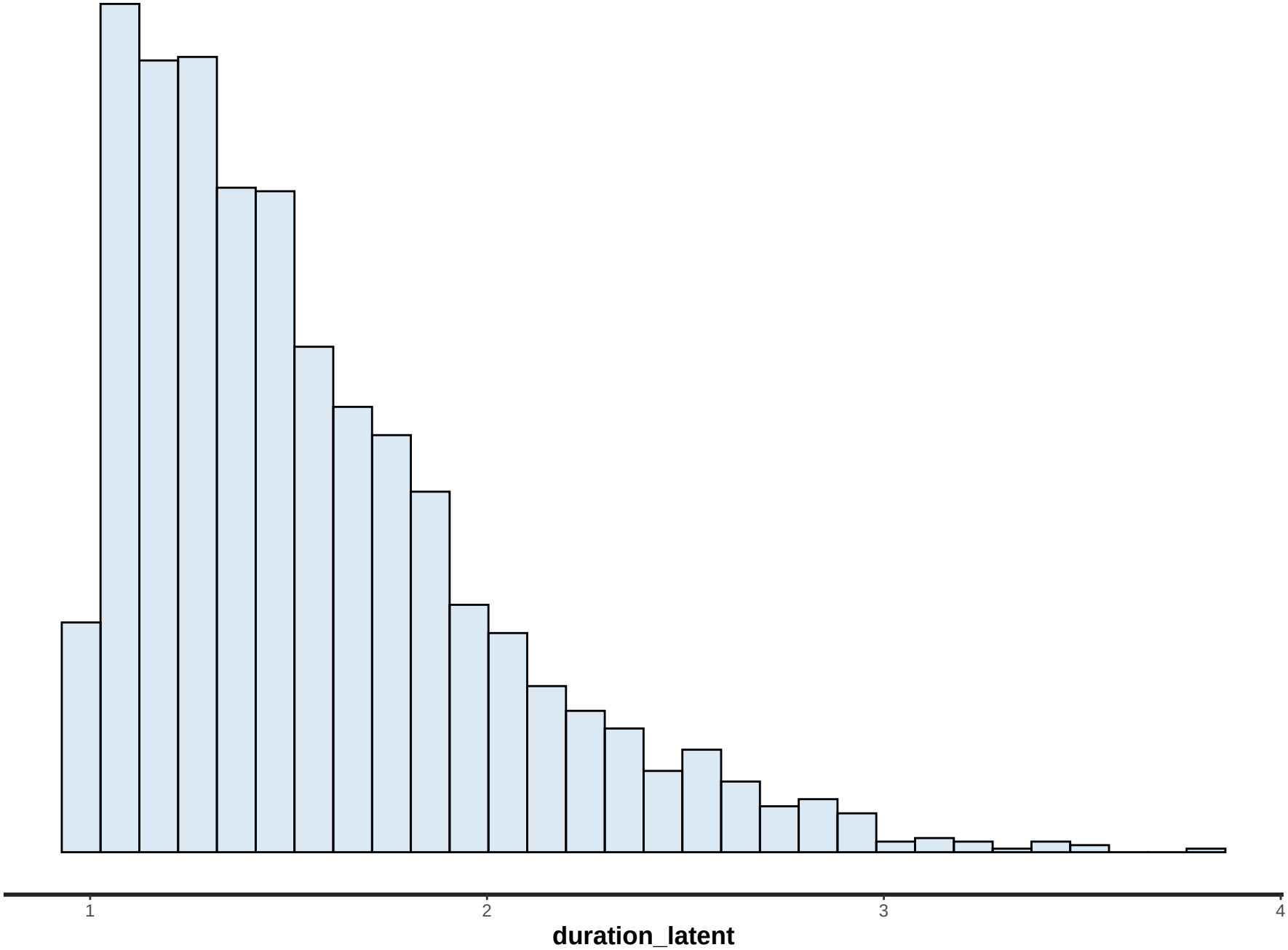

Effective Reproduction Number
Re
2.5
2.0
1.5
1.0
Nov 01
Dec 01
Median
5%−95%
15%−85%
25%−75%

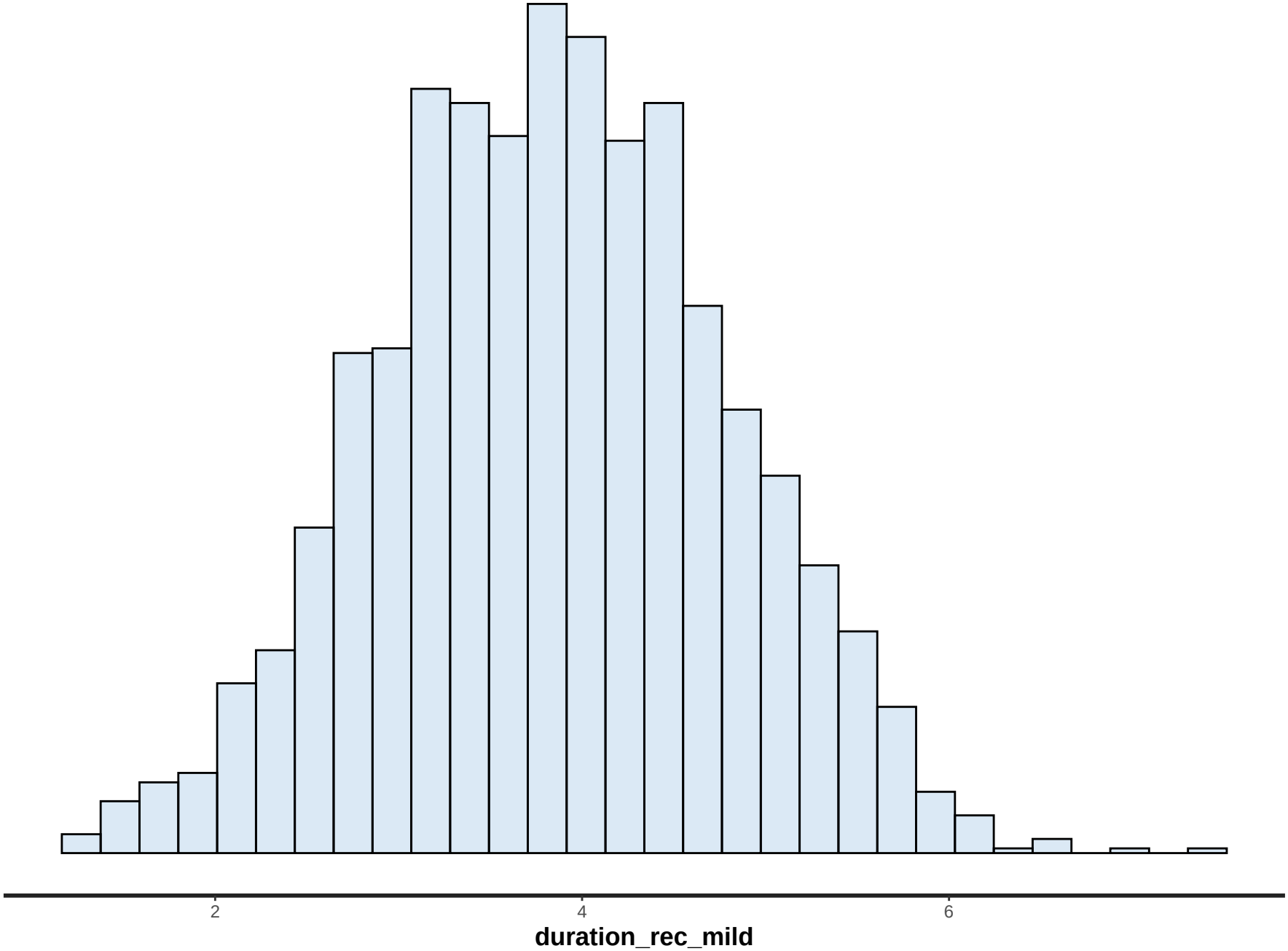
Rt as of 2020−12−20

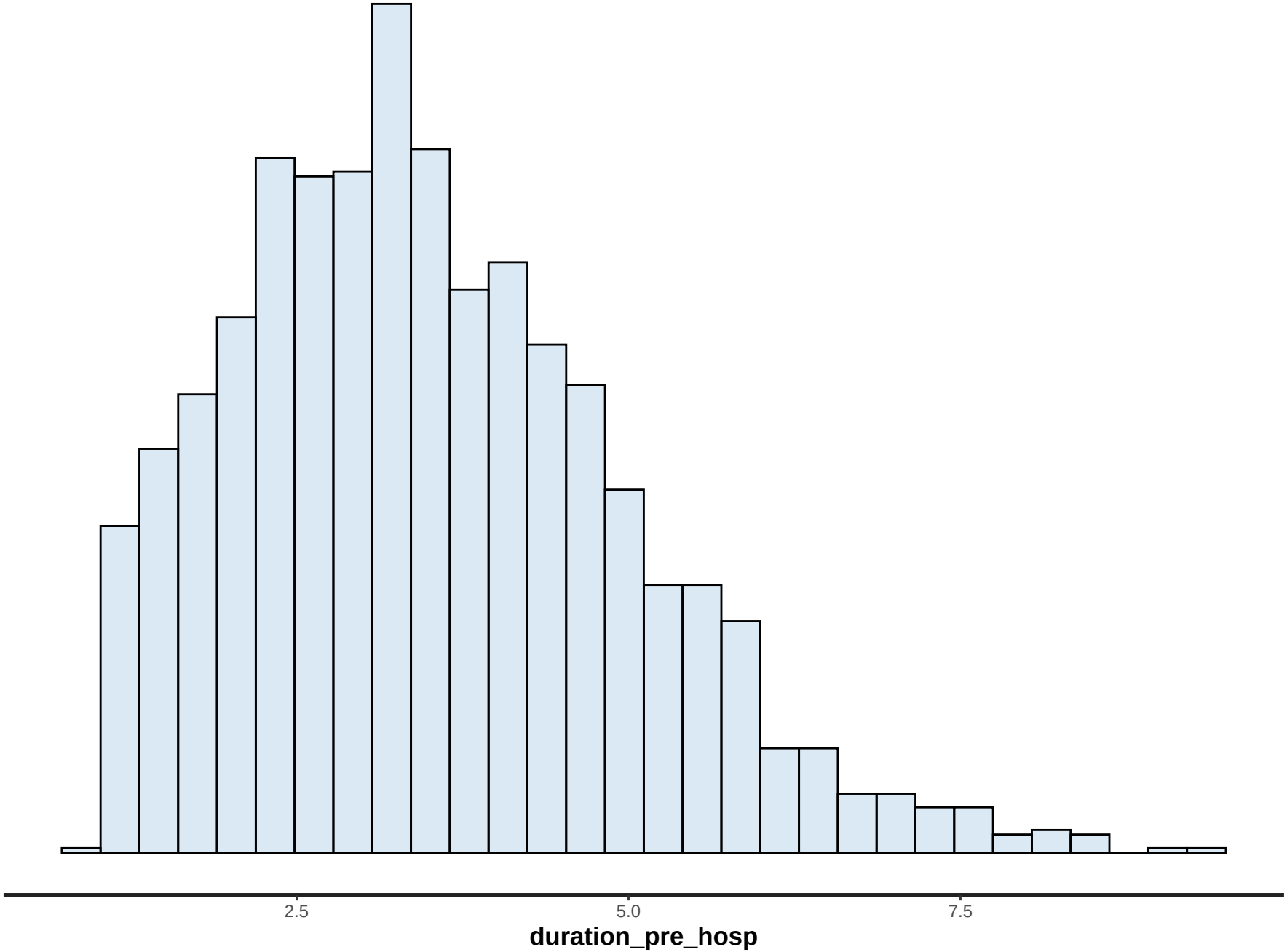
5%	10%	25%	50%	75%	90%	95%
0.71	0.74	0.79	0.84	0.89	0.93	0.96

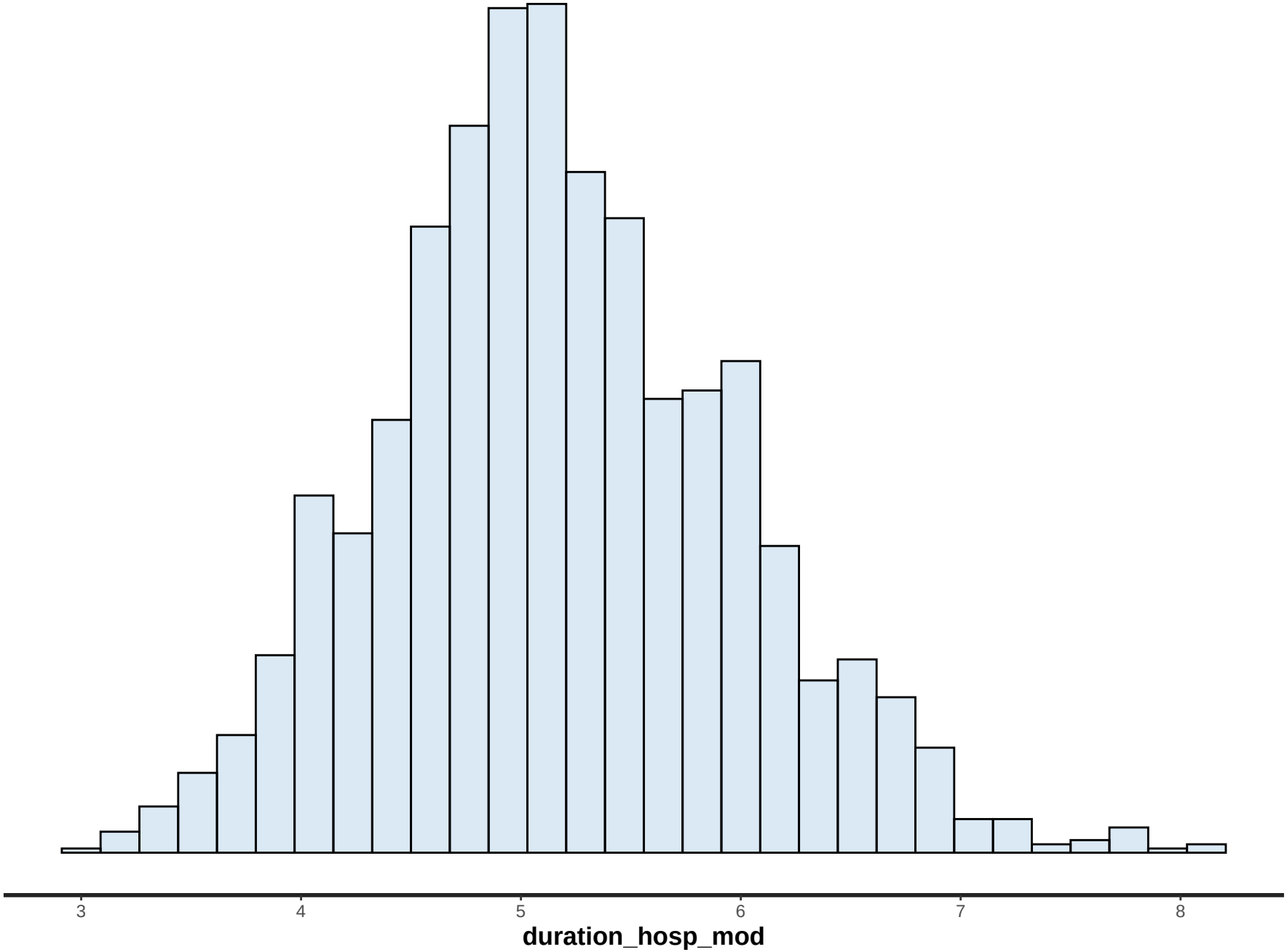


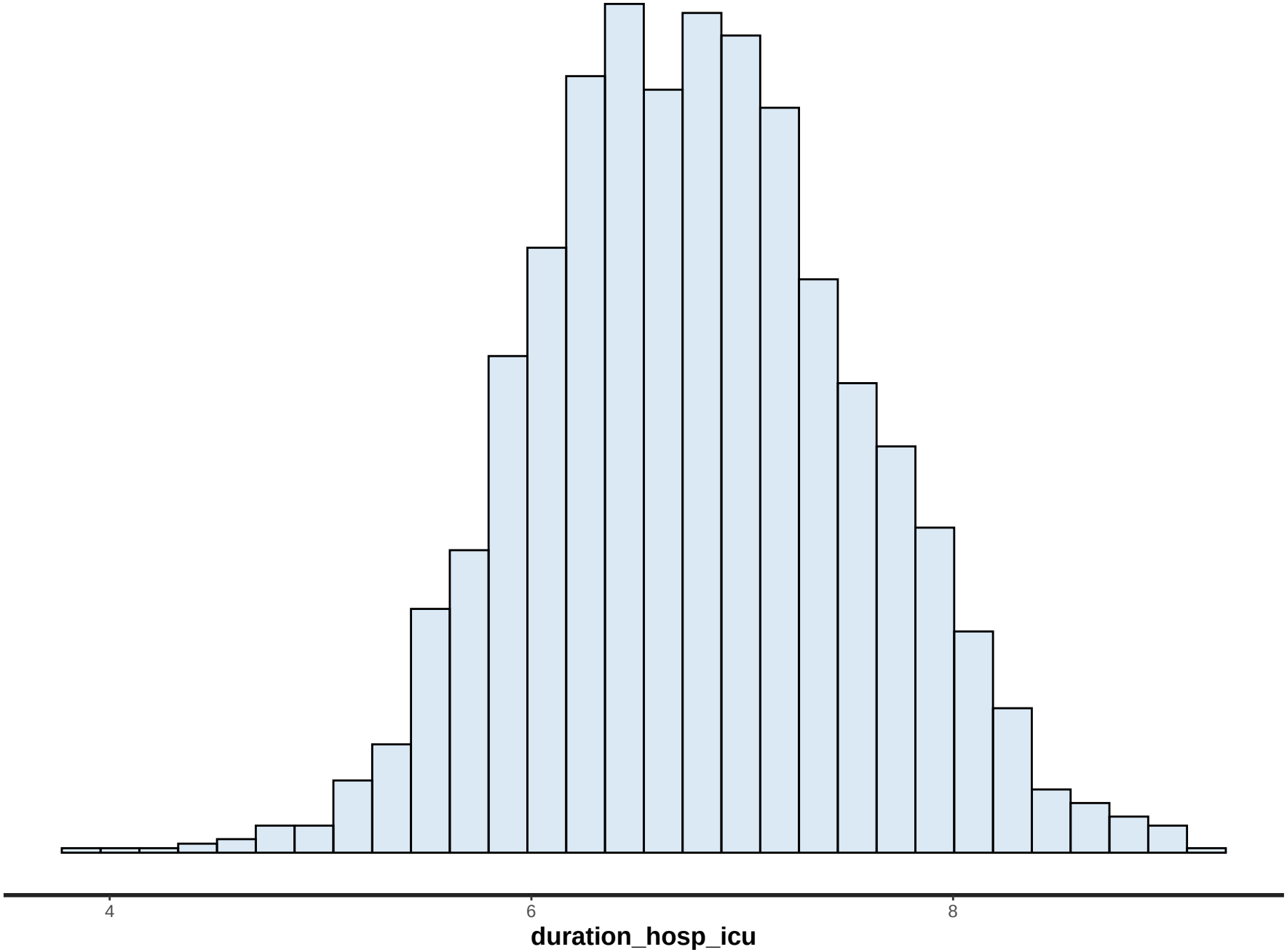

1.5
2.0
2.5
3.0
r0

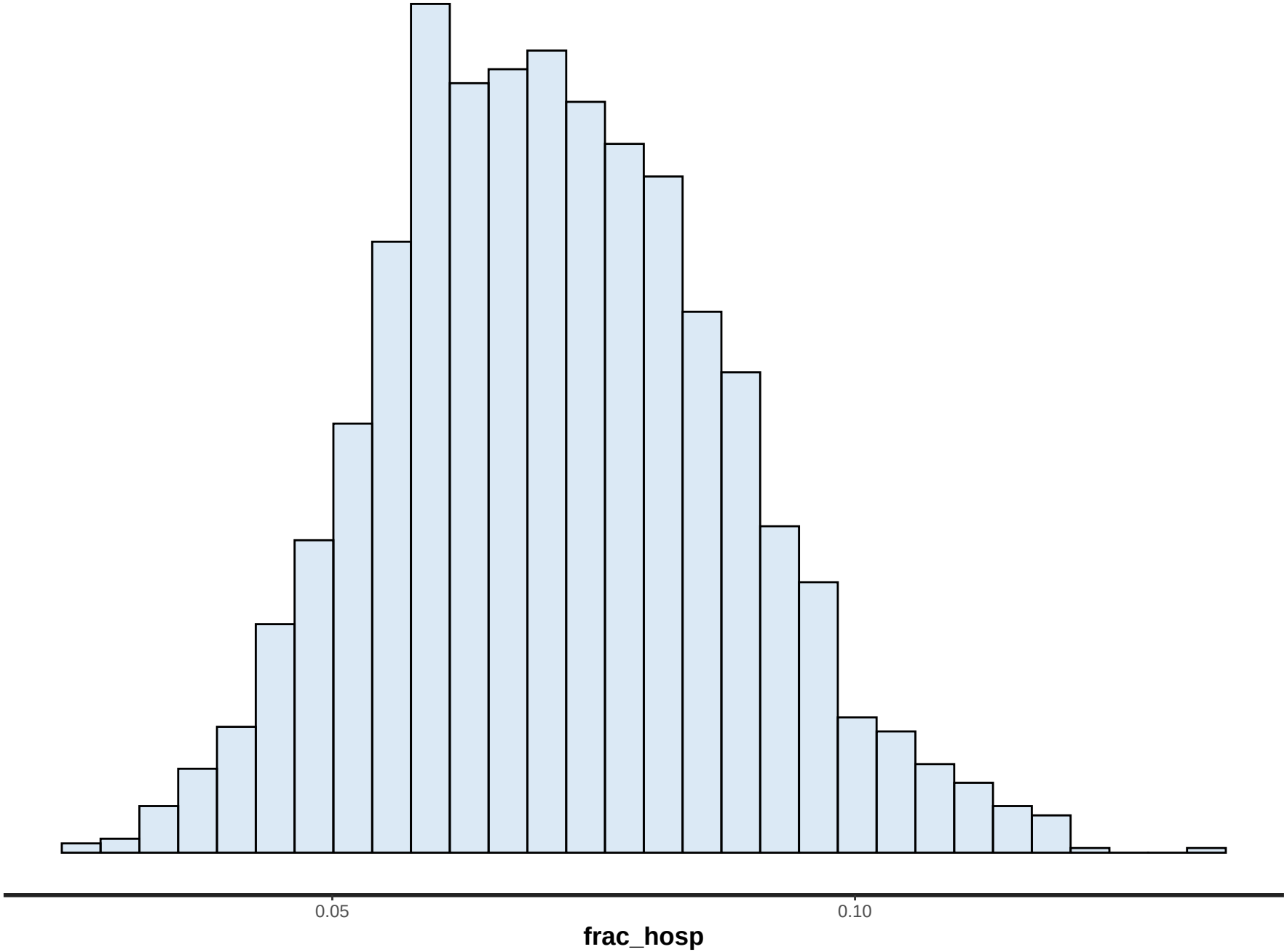

1
2
3
4
duration_latent

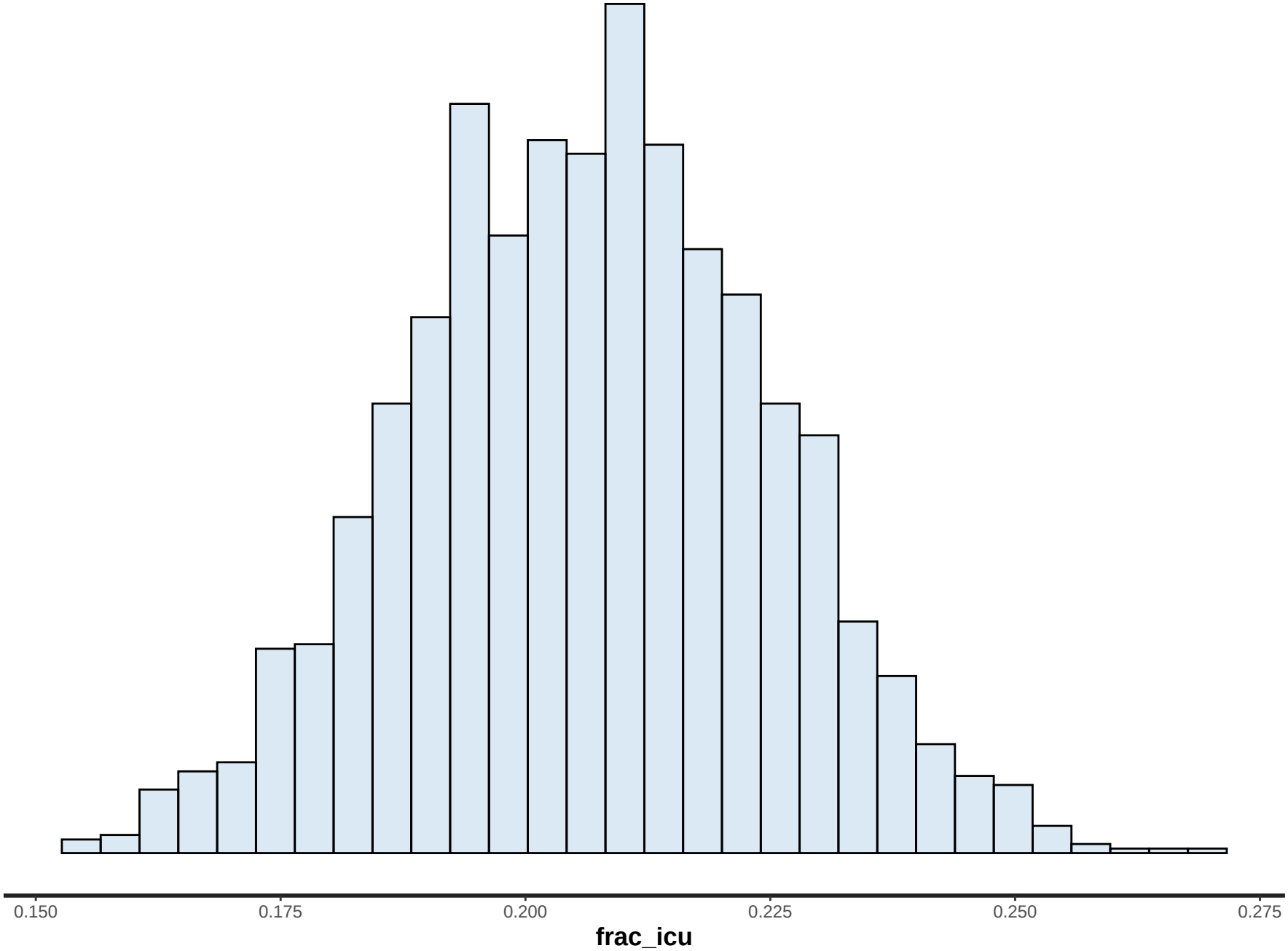

2
4
6
duration_rec_mild

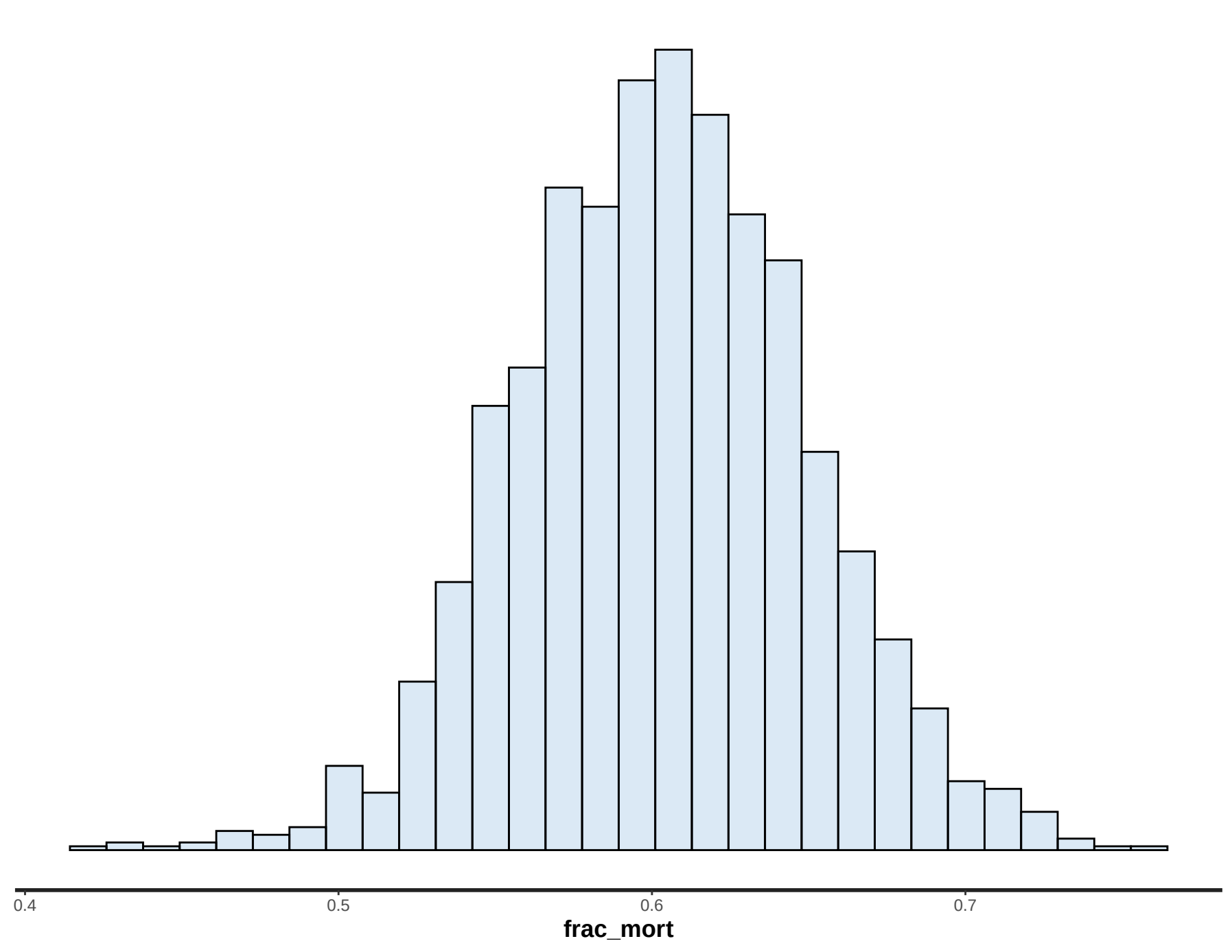

2.5
5.0
7.5
duration_pre_hosp

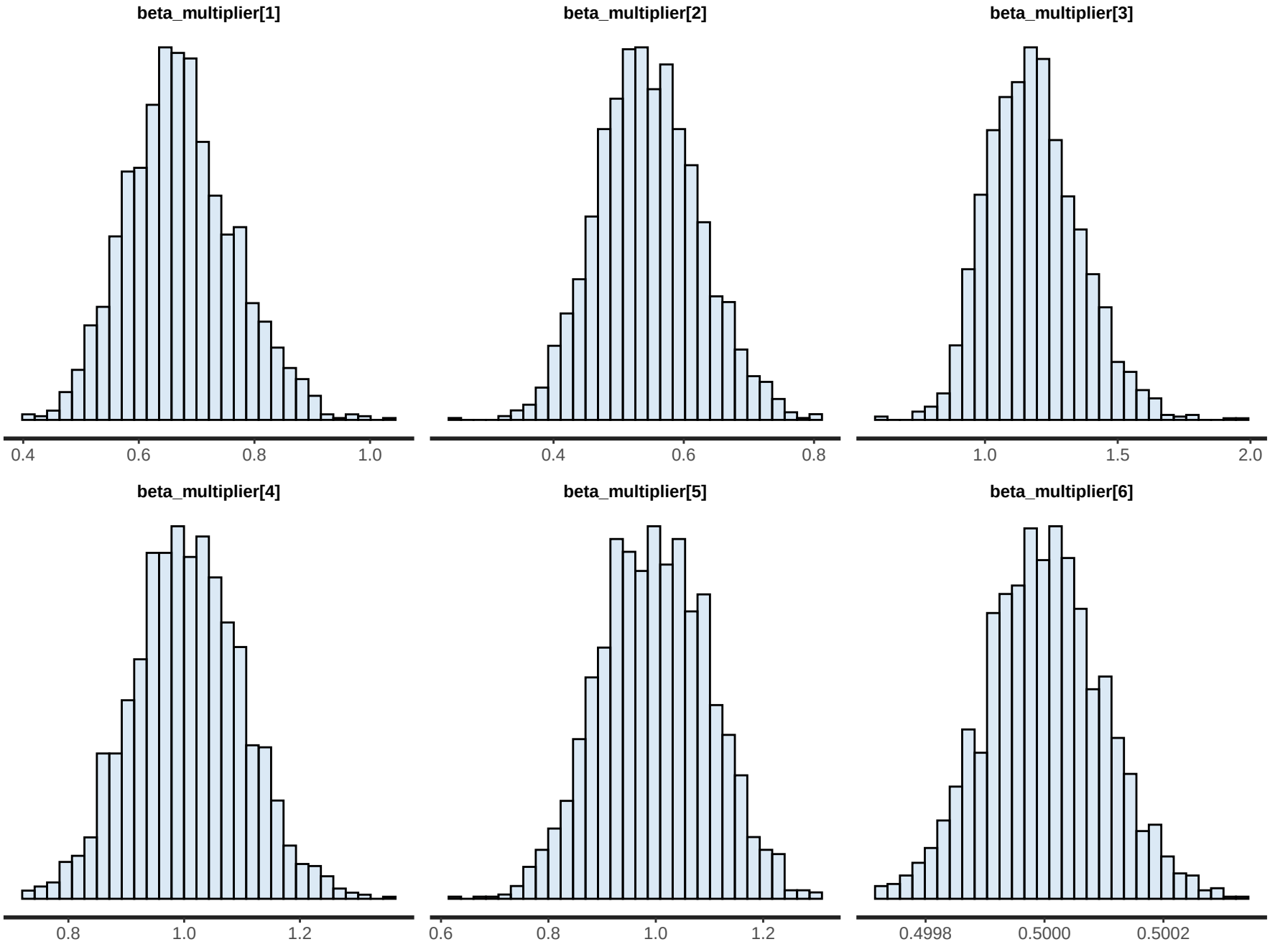

3
4
5
6
7
8
duration_hosp_mod

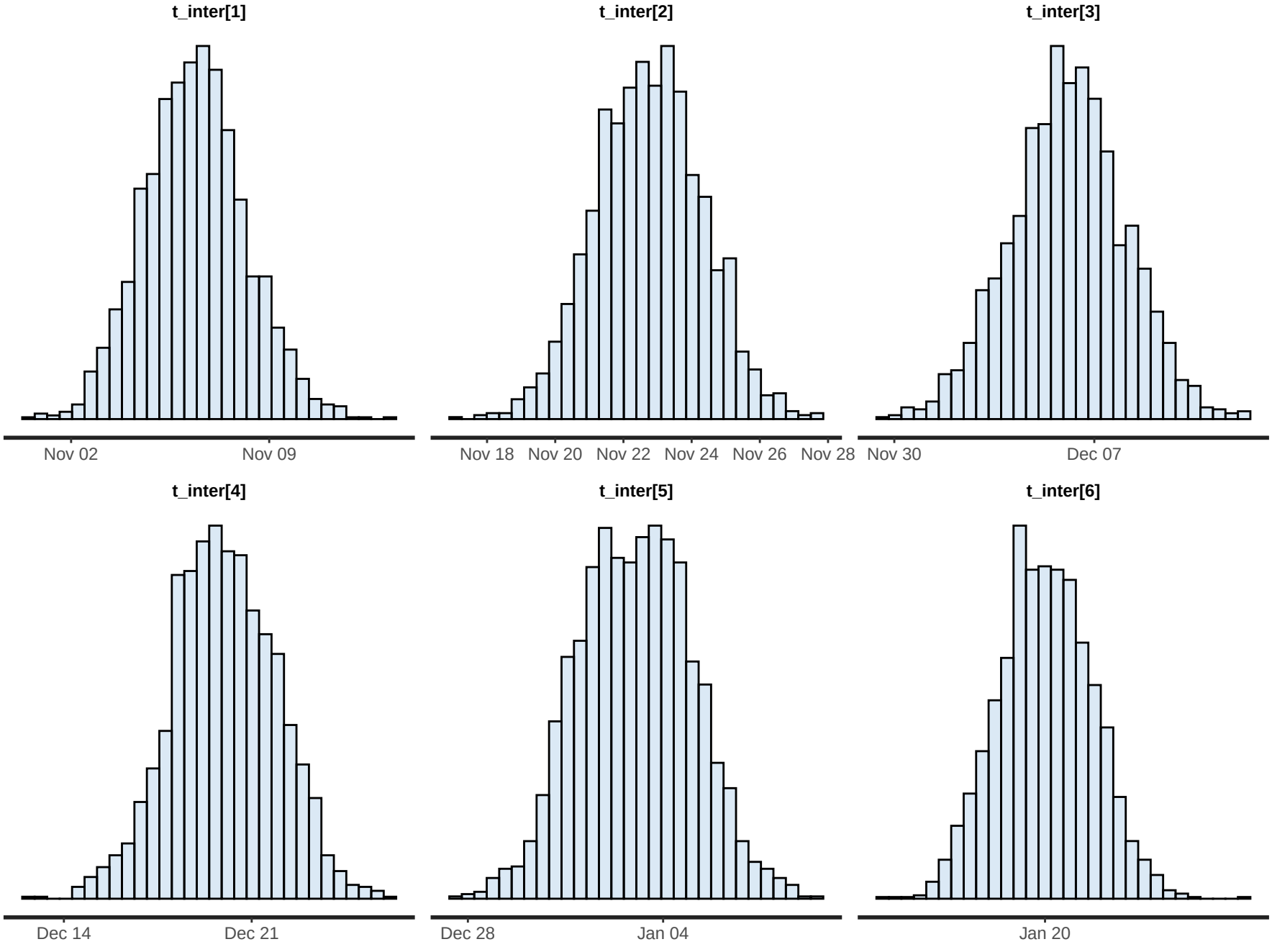

4
6
8
duration_hosp_icu

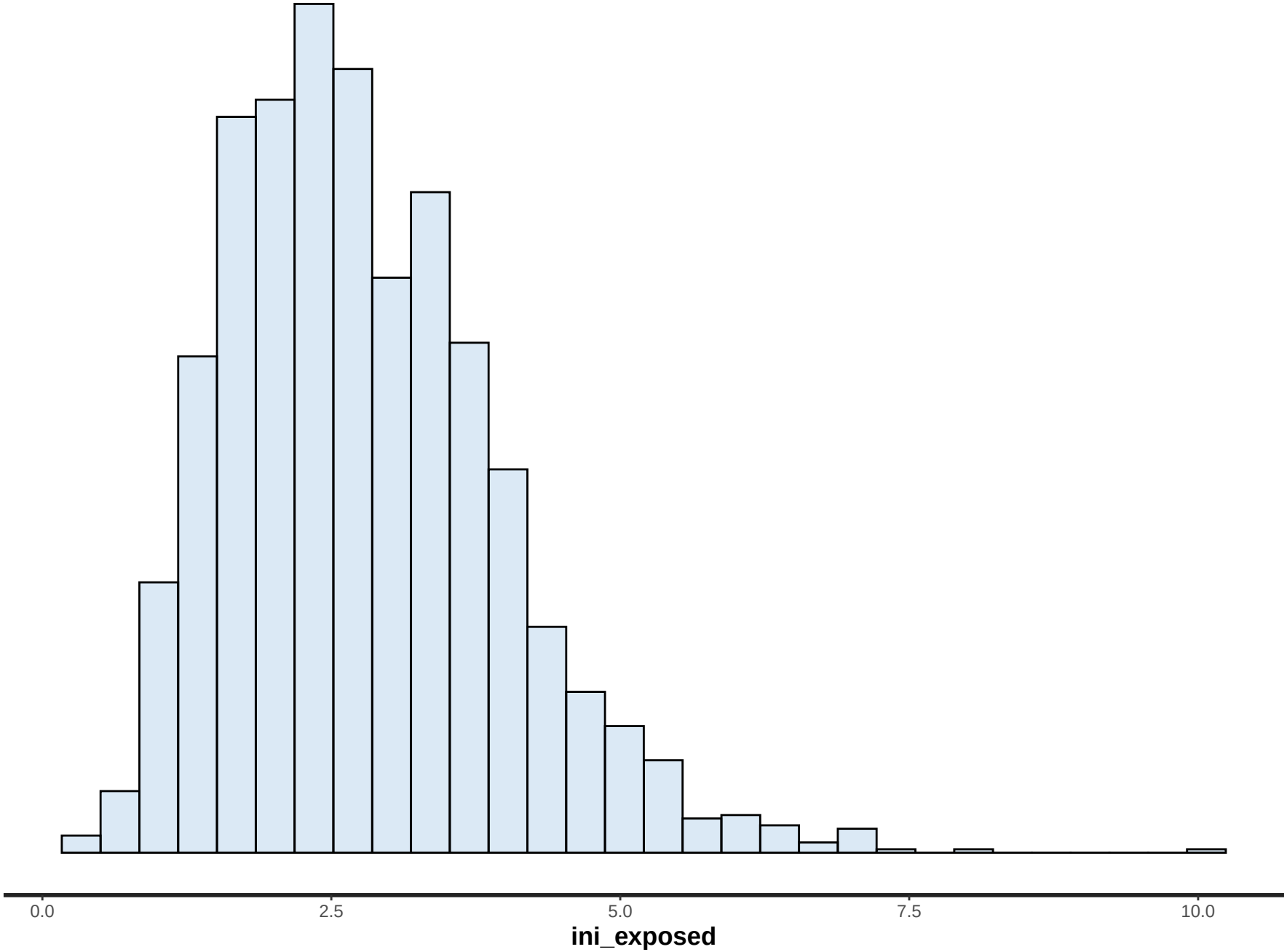

0.05
0.10
frac_hosp

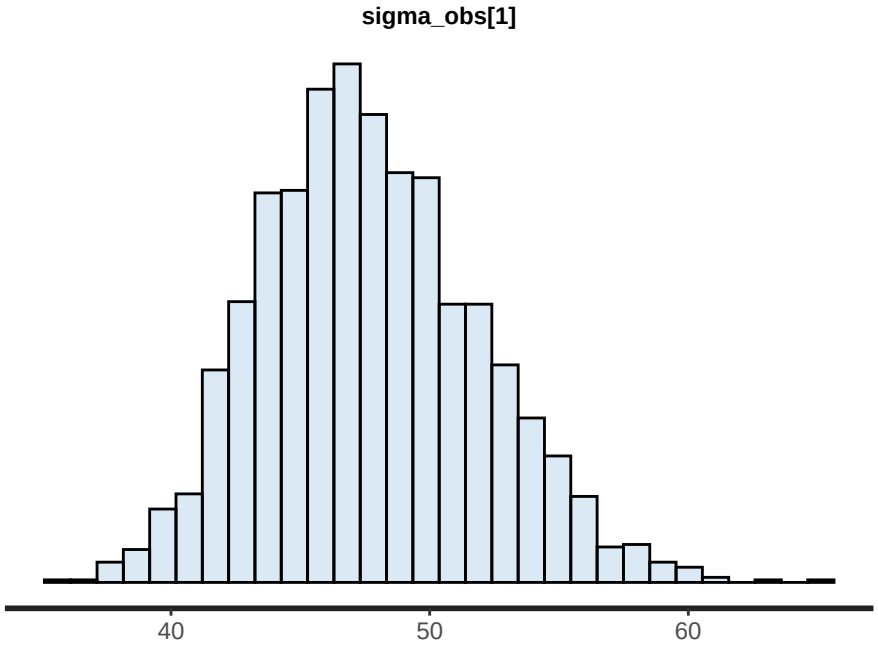

0.150
0.175
0.200
0.225
0.250
0.275
frac_icu


0.4
0.5
0.6
0.7
frac_mort


beta_multiplier[1]
0.4
0.6
0.8
1.0
beta_multiplier[2]
0.4
0.6
0.8
beta_multiplier[3]
1.0
1.5
2.0
beta_multiplier[4]
0.8
1.0
1.2
beta_multiplier[5]
0.6
0.8
1.0
1.2
beta_multiplier[6]
0.4998
0.5000
0.5002


t_inter[1]
Nov 02
Nov 09
t_inter[2]
Nov 18
Nov 20
Nov 22
Nov 24
Nov 26
Nov 28
t_inter[3]
Nov 30
Dec 07
t_inter[4]
Dec 14
Dec 21
t_inter[5]
Dec 28
Jan 04
t_inter[6]
Jan 20


0.0
2.5
5.0
7.5
10.0
ini_exposed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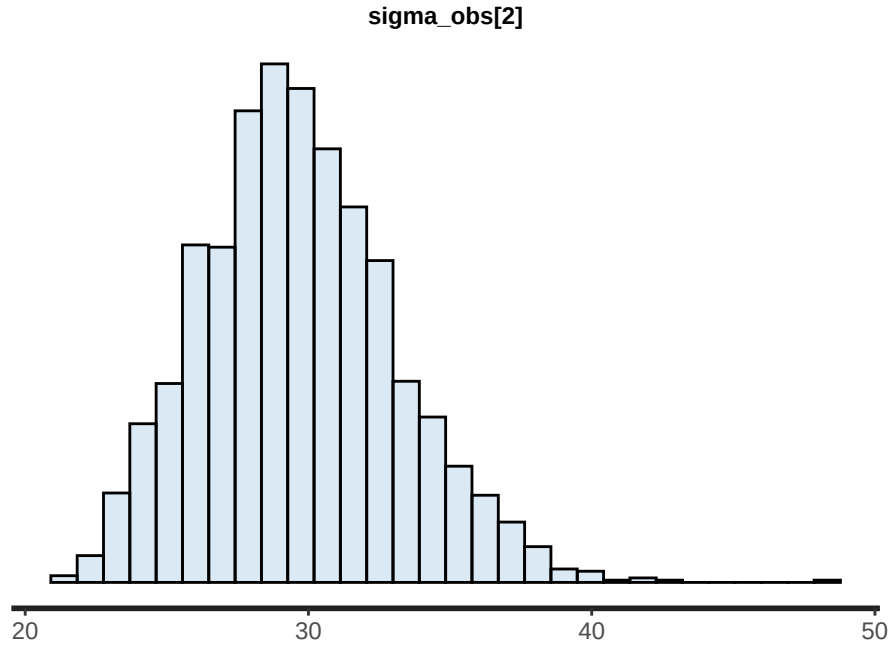
40
50
60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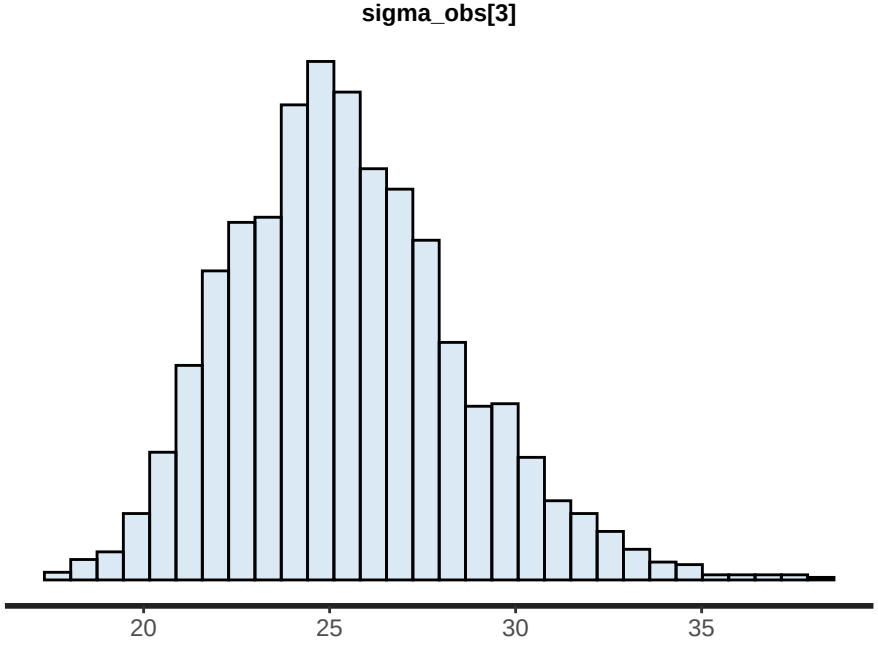
30
40
50


sigma_obs[3]
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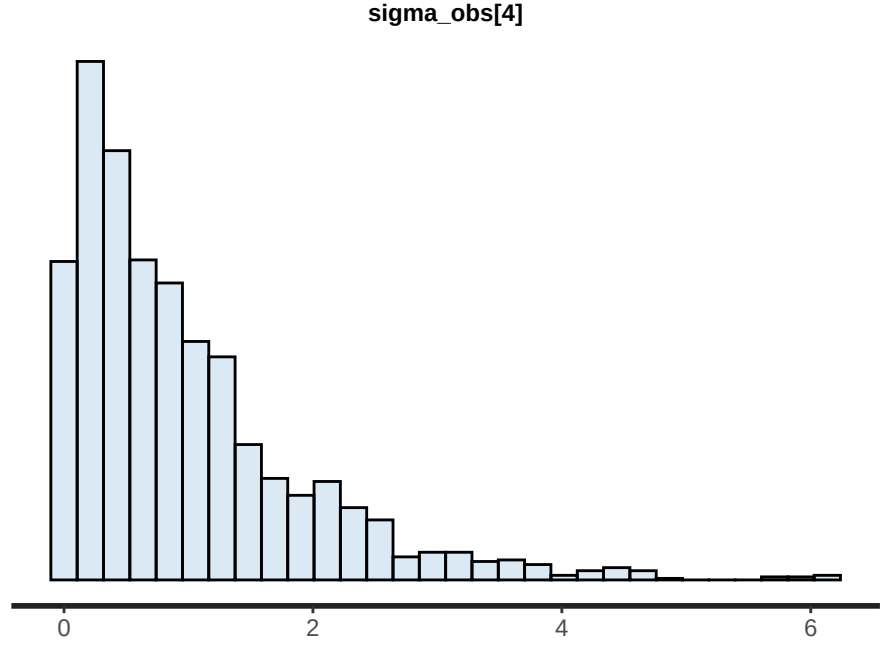
25
30
35


sigma_obs[4]
0
2
4
6