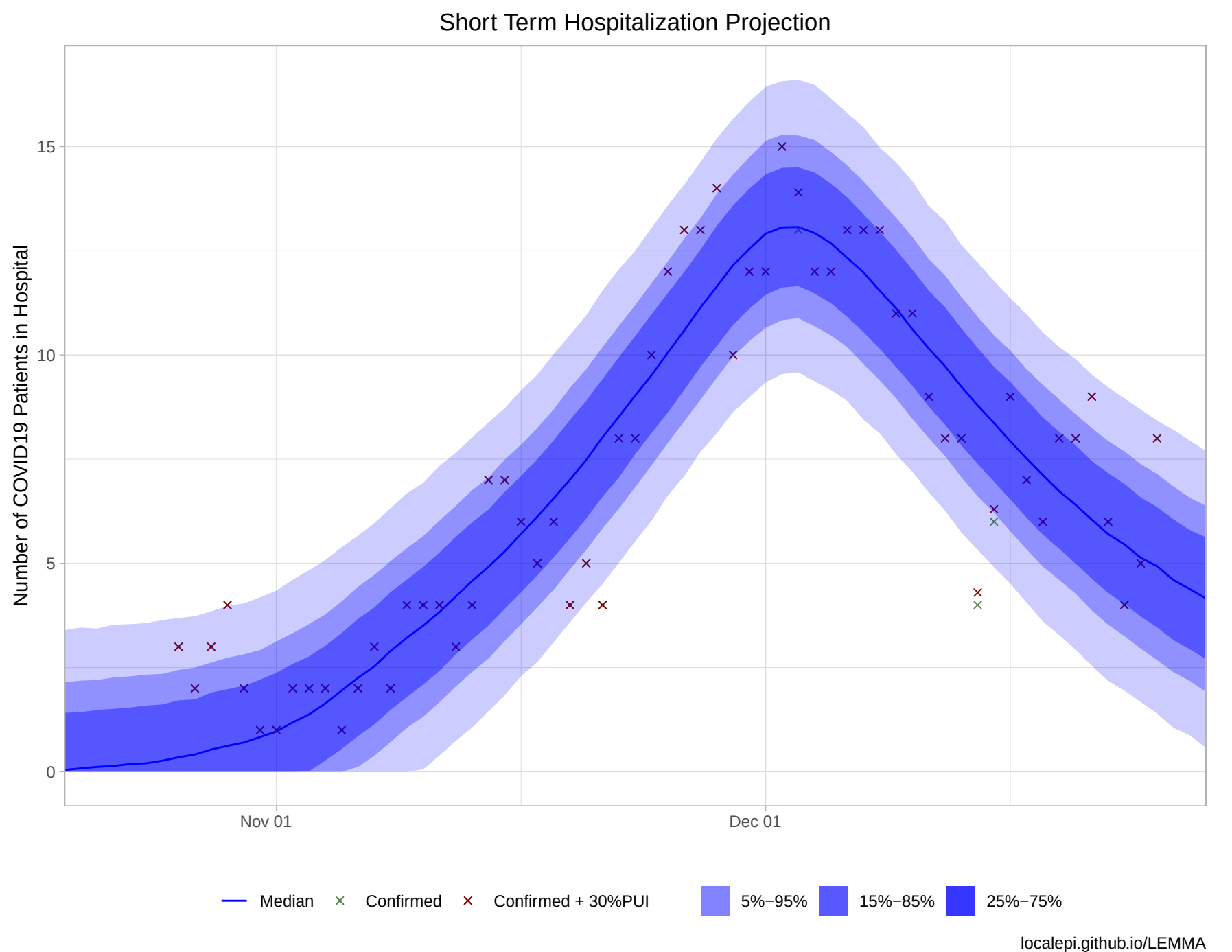
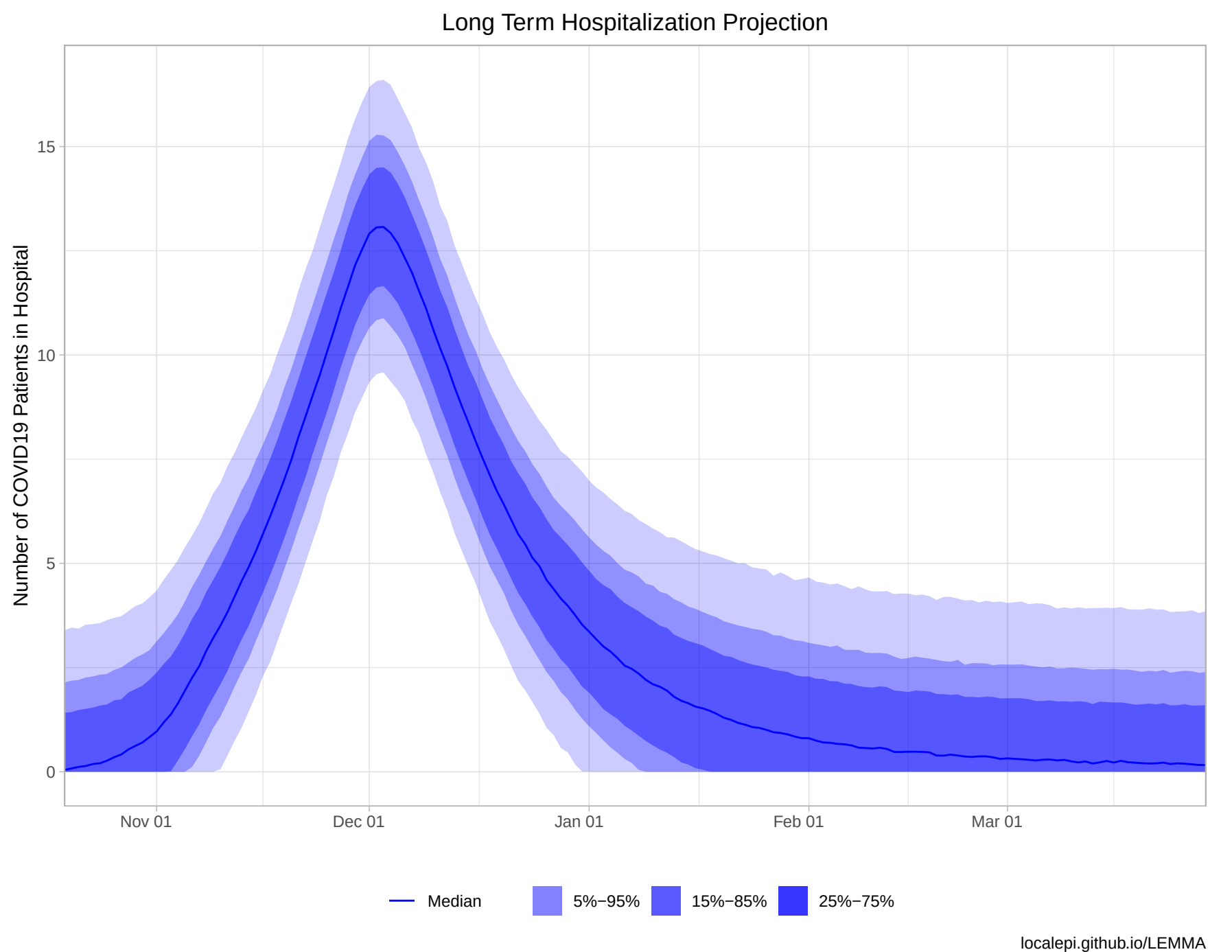
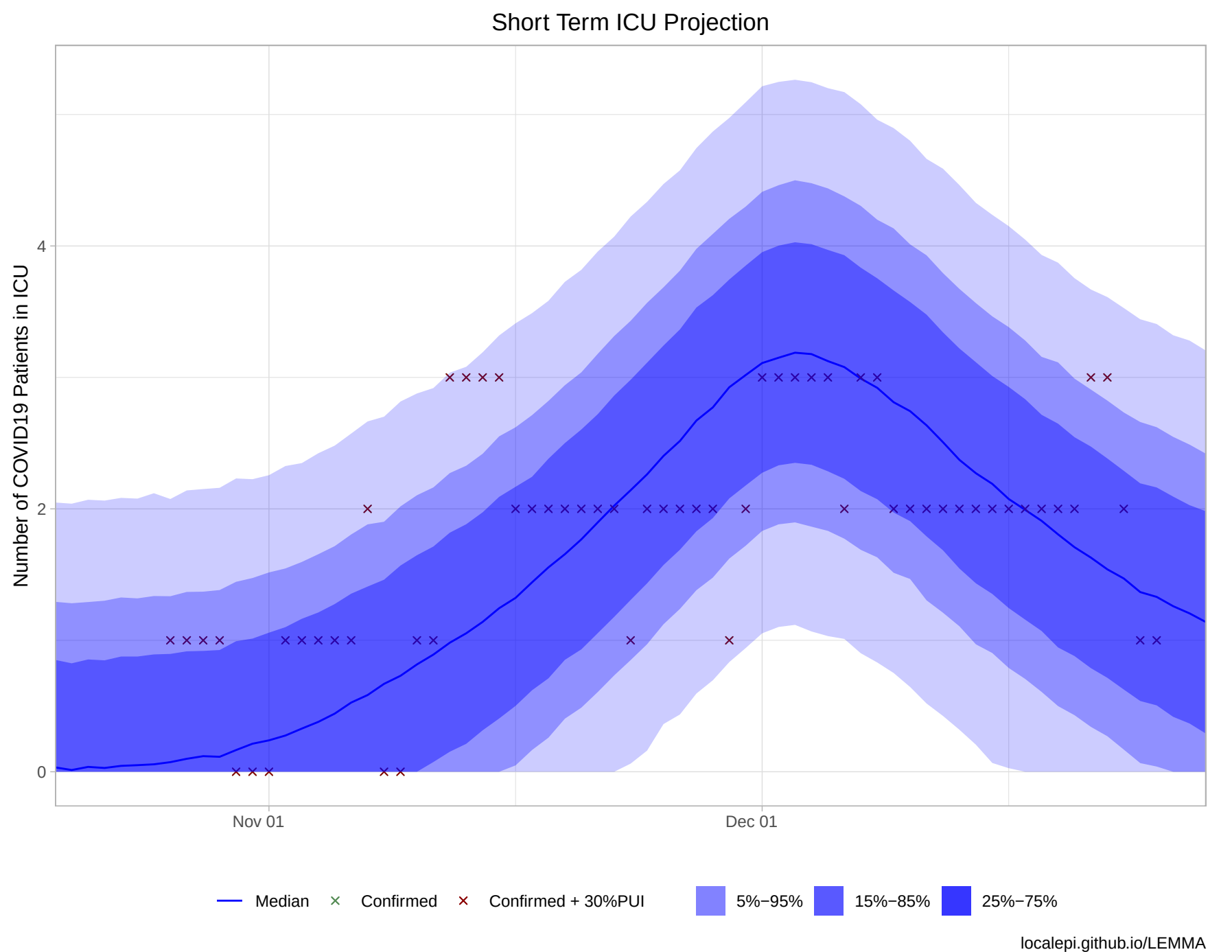
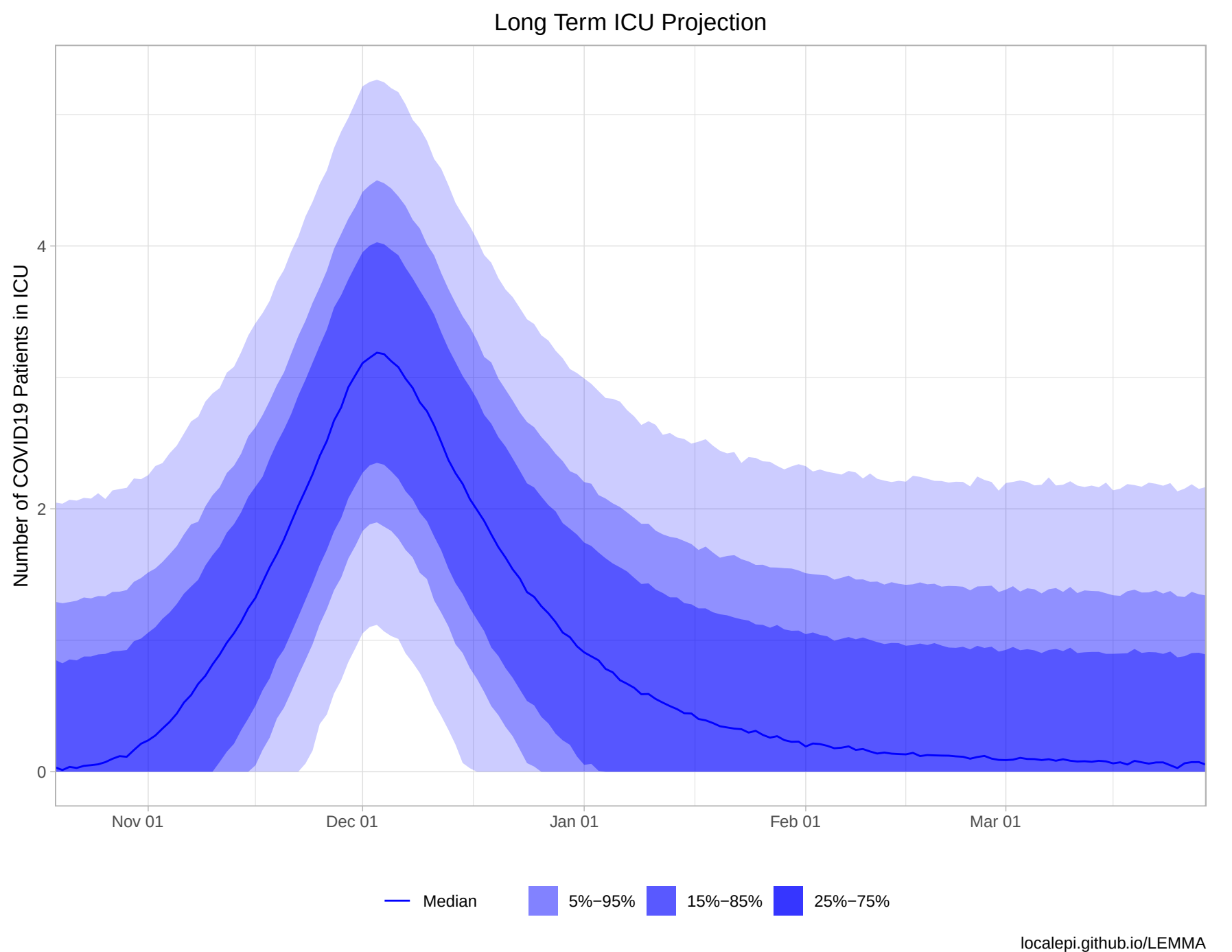
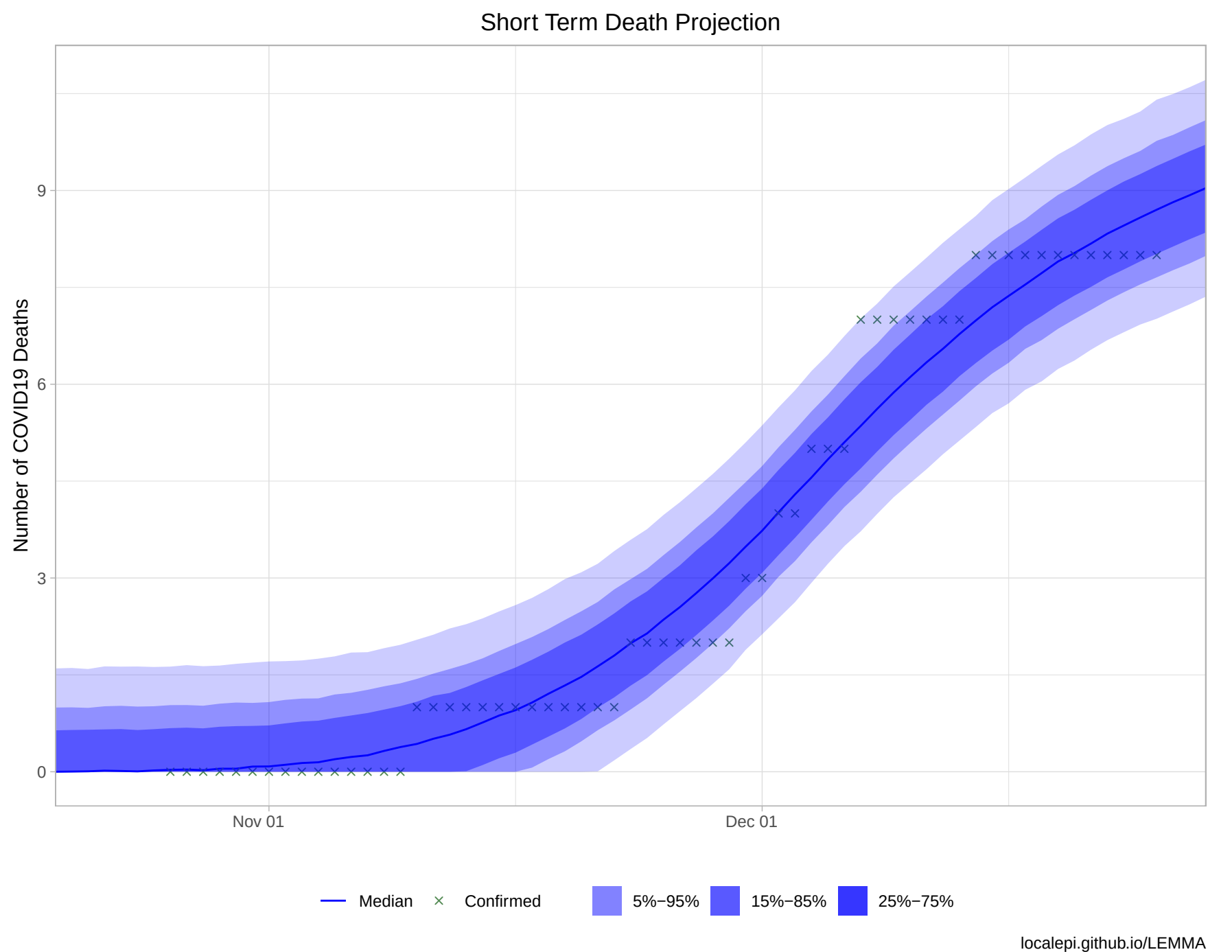
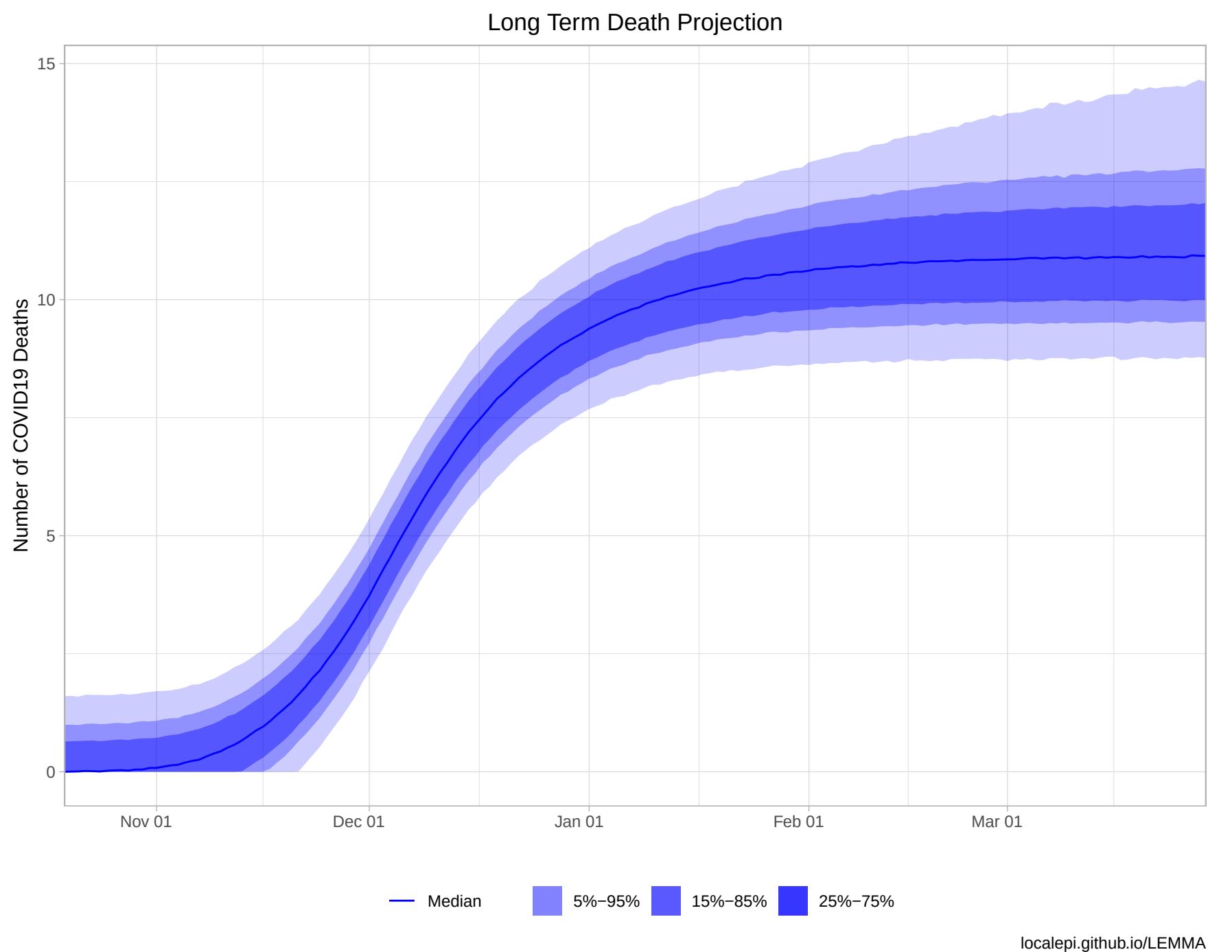

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
5
10
15
Nov 01
Dec 01
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

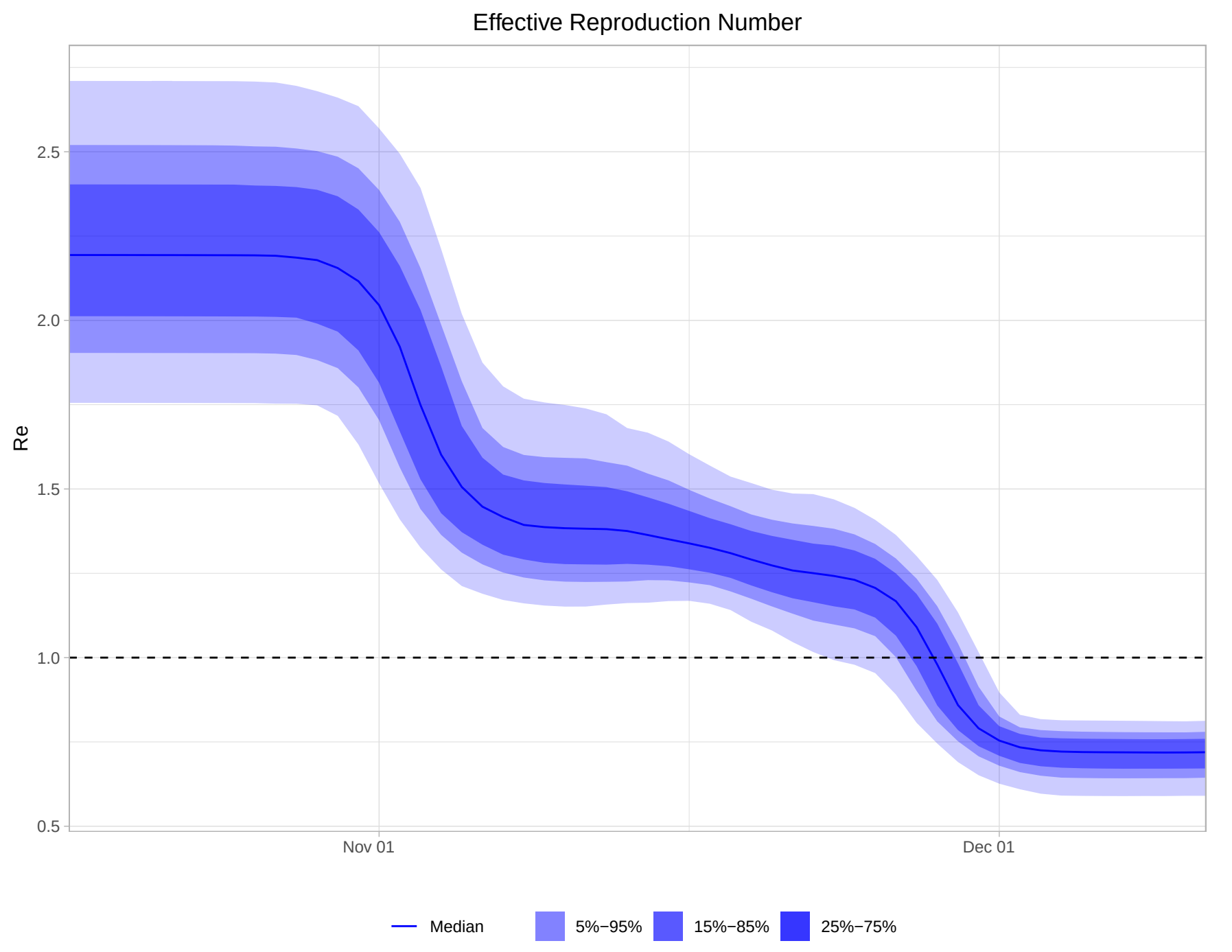

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
5
10
15
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


Short Term ICU Projection
Number of COVID19 Patients in ICU
0
2
4
Nov 01
Dec 01
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

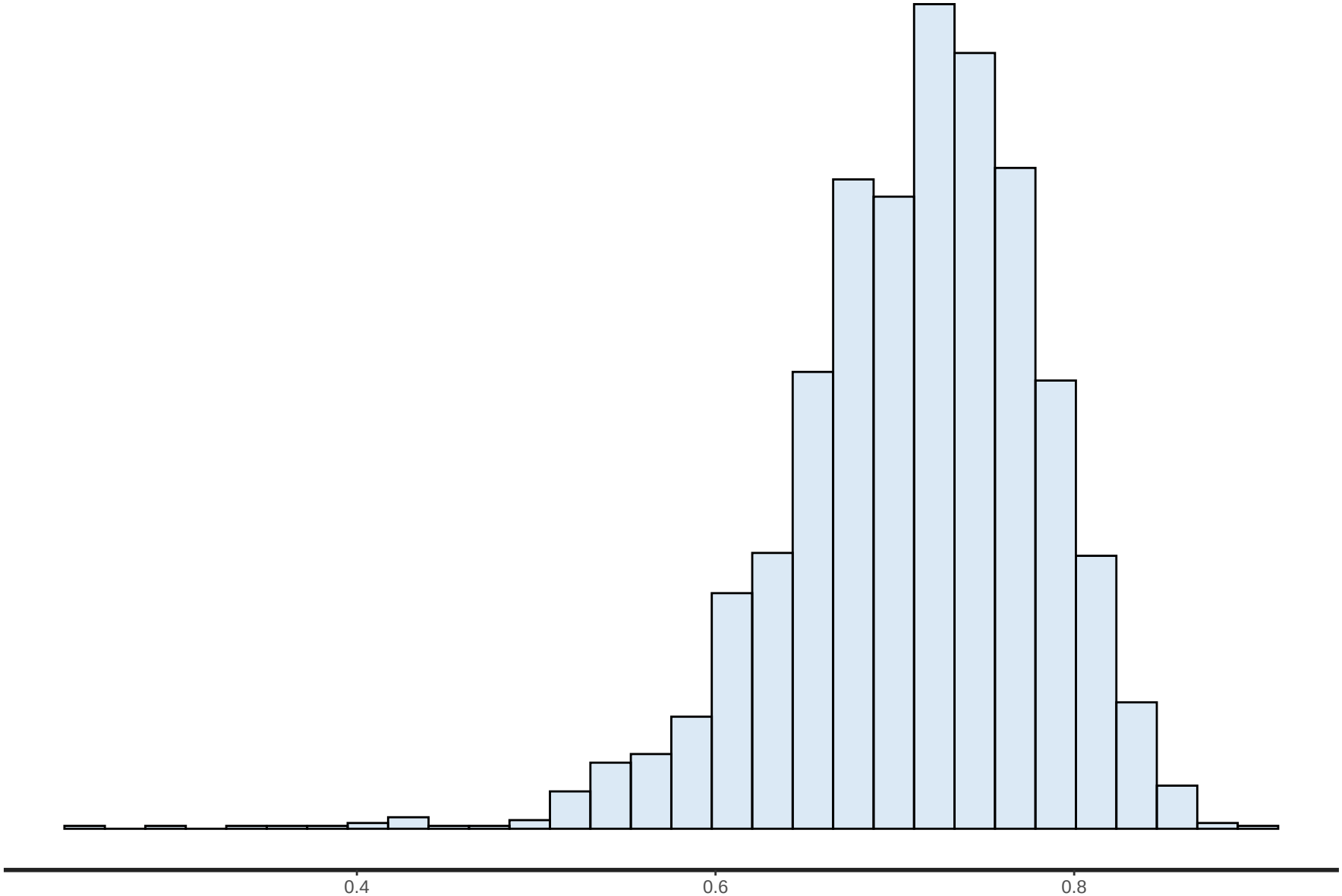

Short Term Death Projection
Number of COVID19 Deaths
0
3
6
9
Nov 01
Dec 01
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

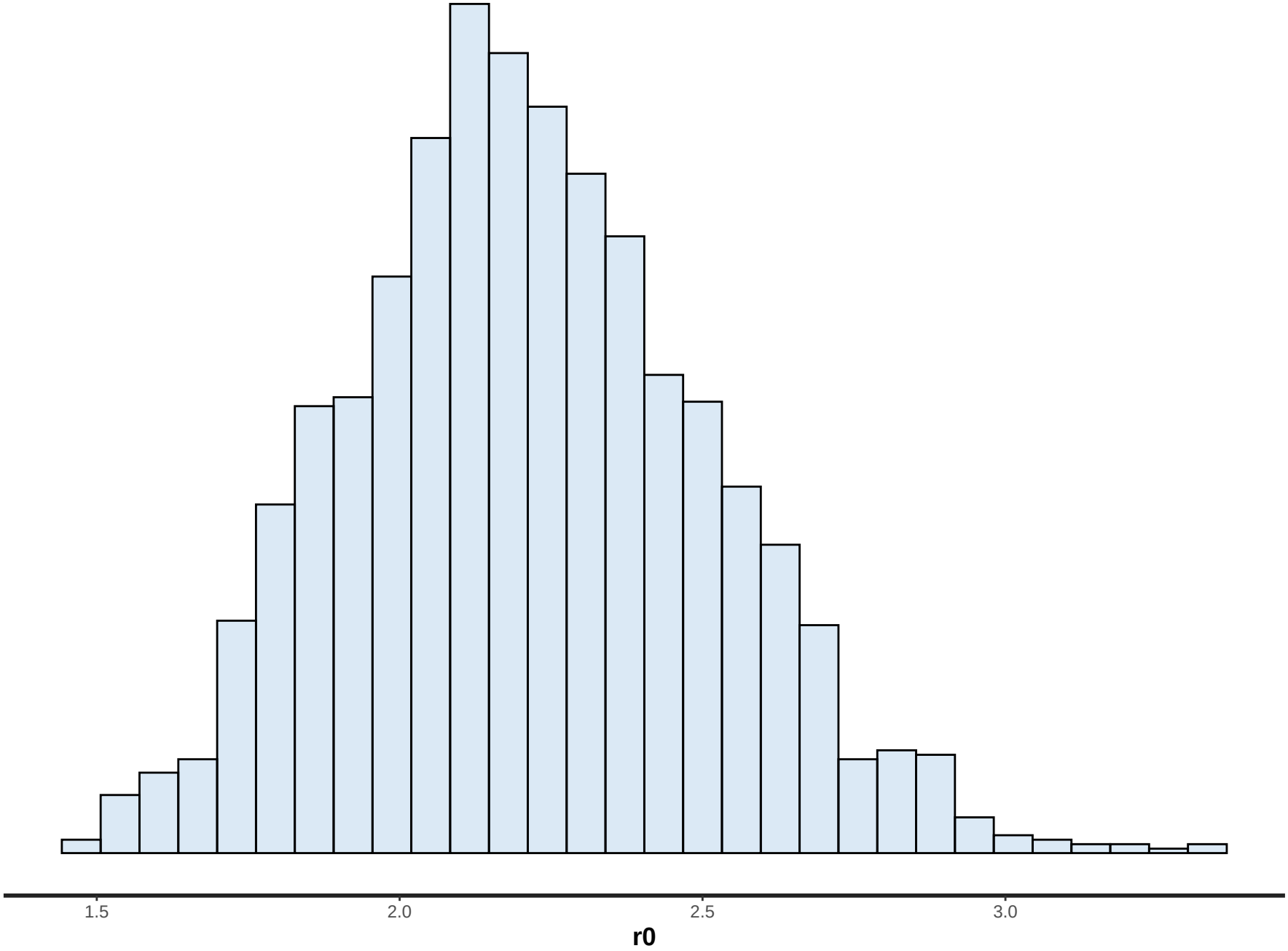

Long Term Death Projection
Number of COVID19 Deaths
15
10
5
0
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

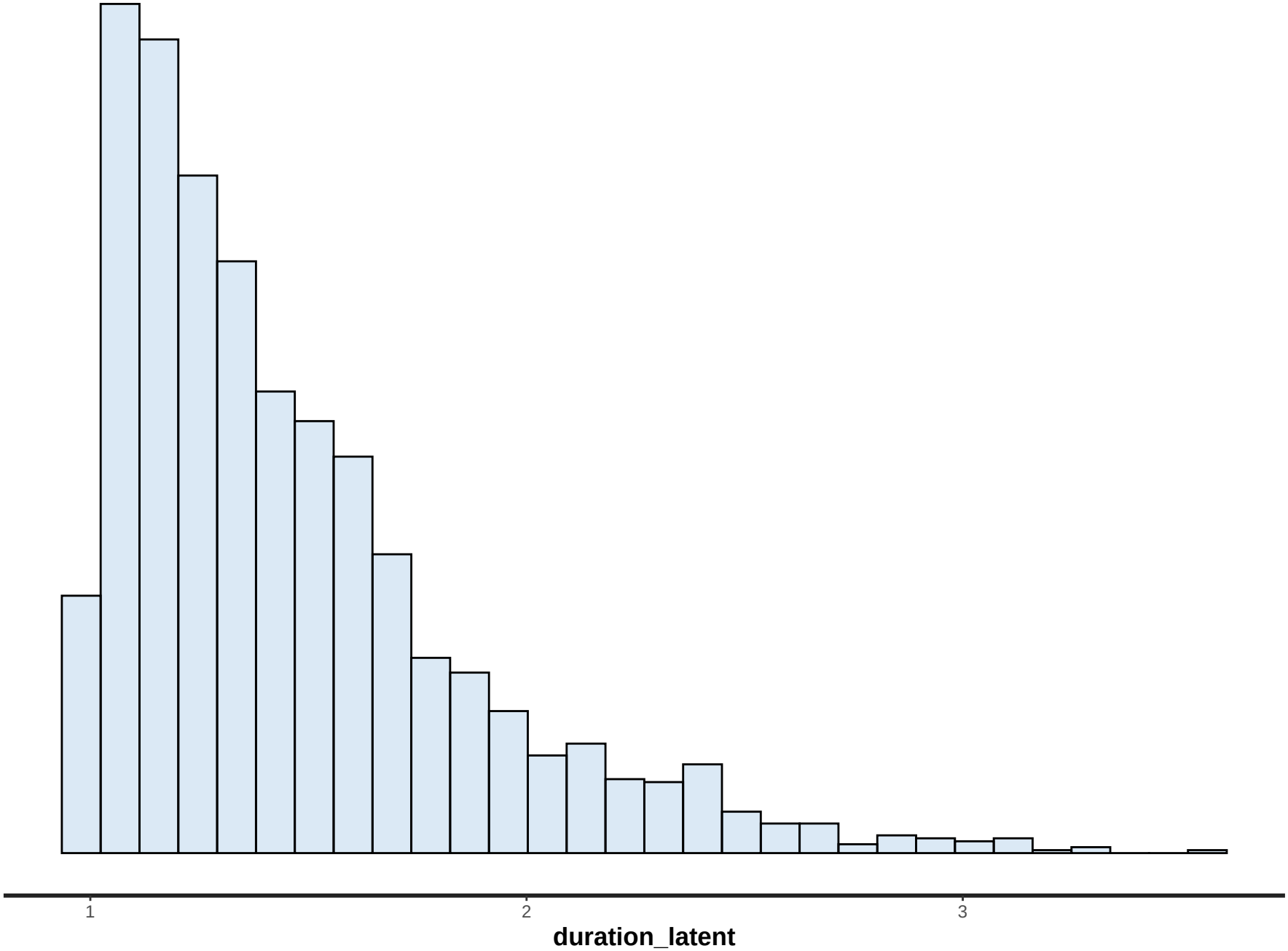

Effective Reproduction Number
Re
2.5
2.0
1.5
1.0
0.5
Nov 01
Dec 01
Median
5%−95%
15%−85%
25%−75%

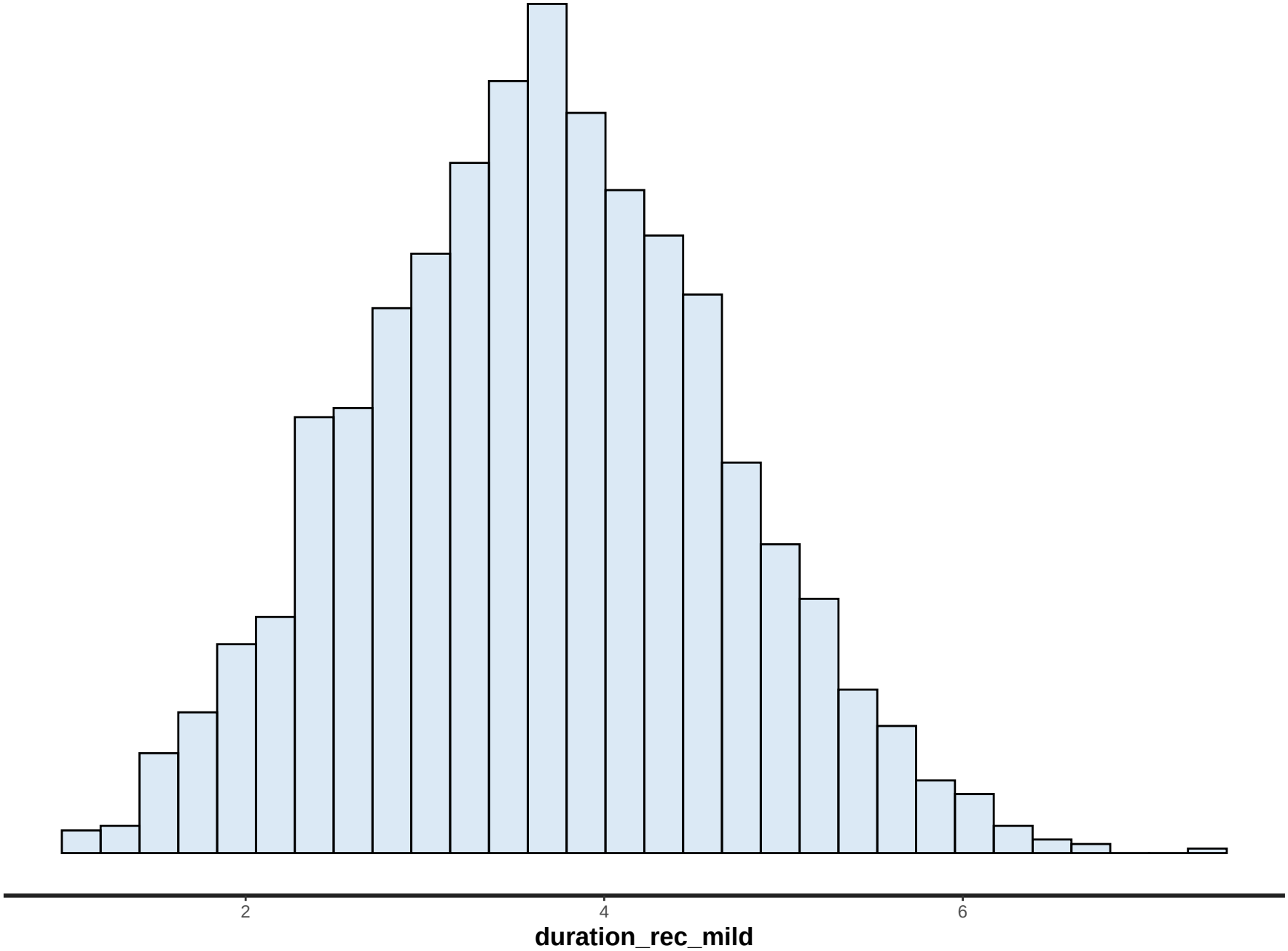
Rt as of 2020−12−11

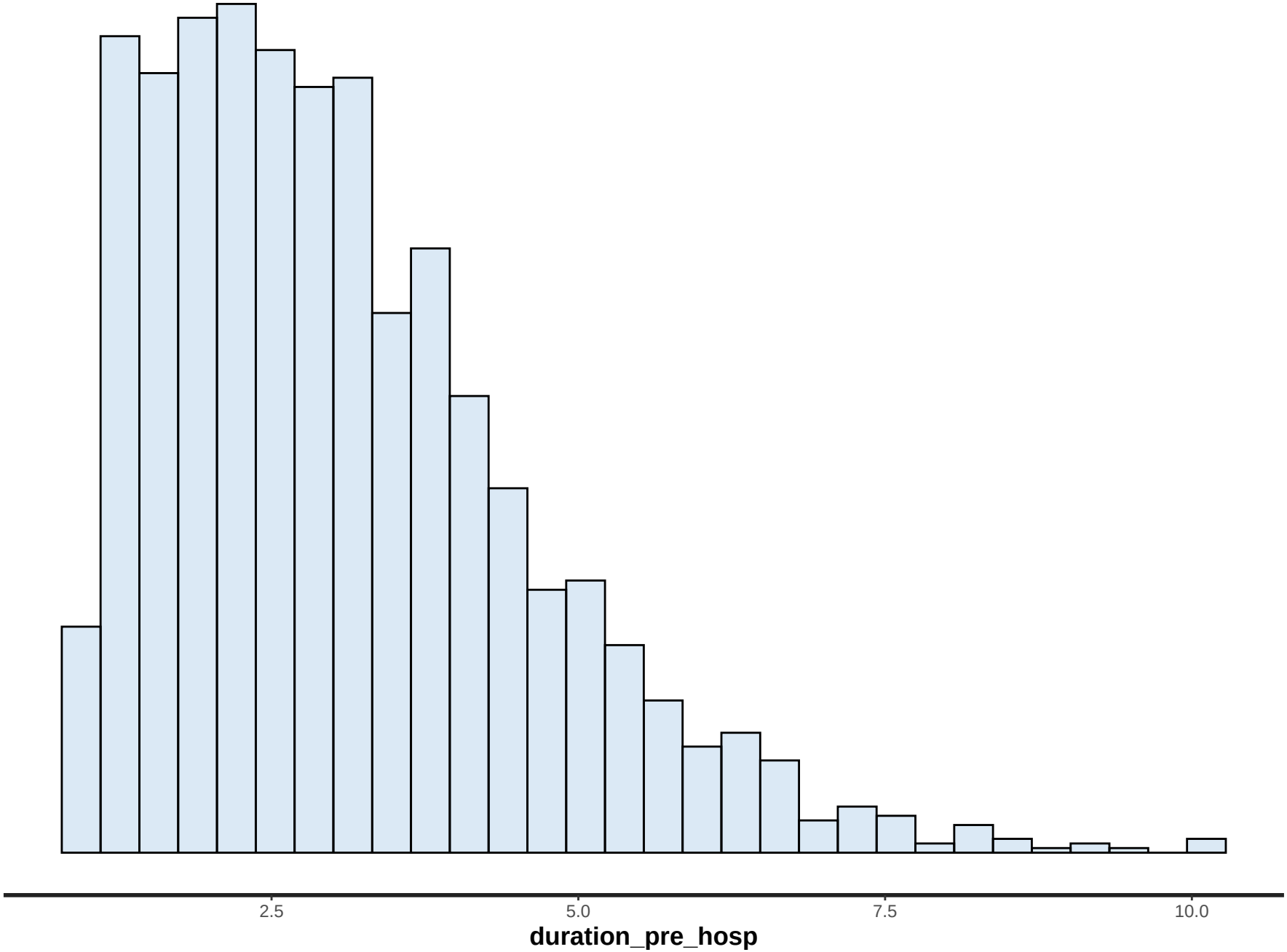
5%	10%	25%	50%	75%	90%	95%
0.59	0.62	0.67	0.72	0.76	0.79	0.81

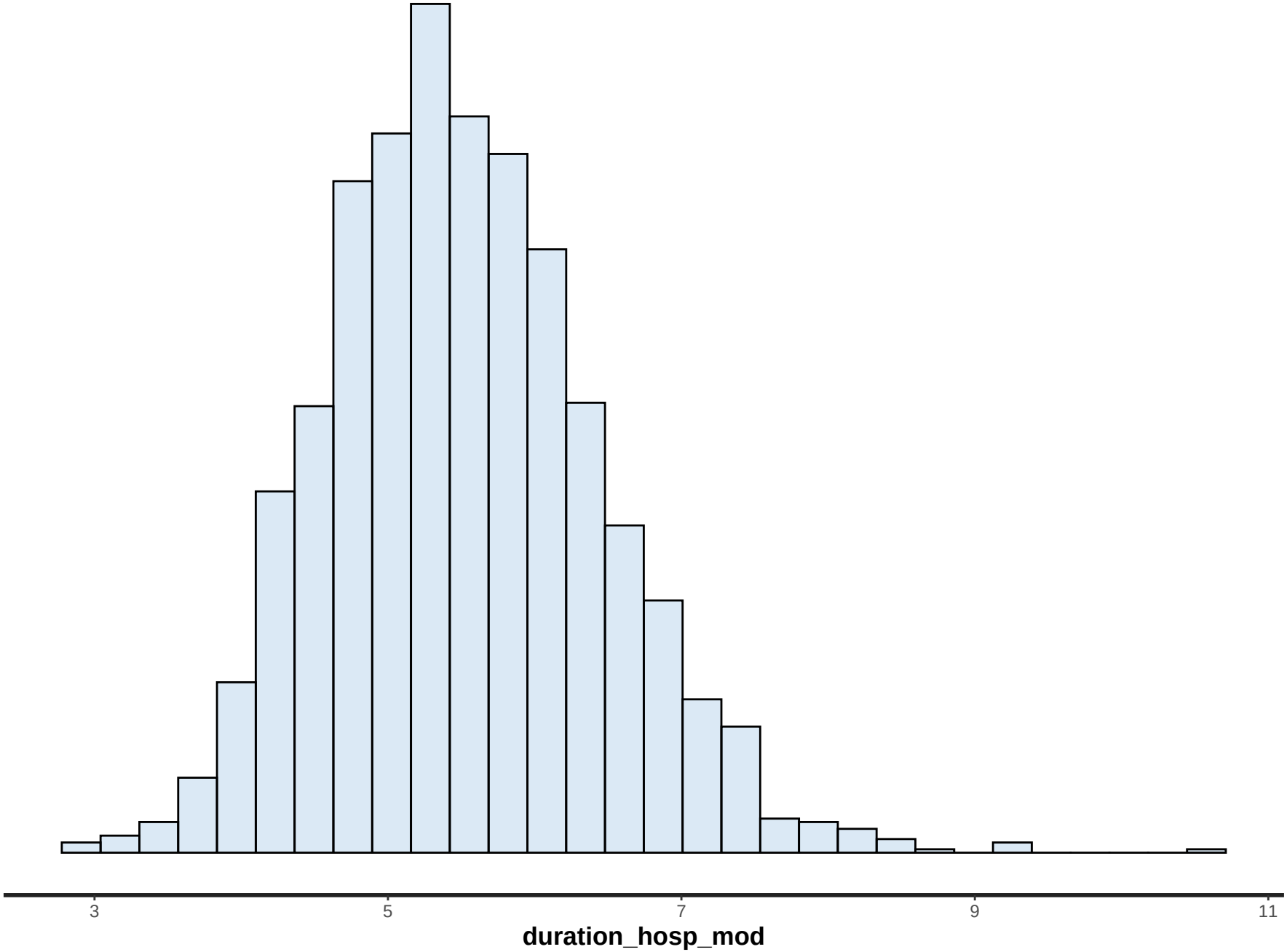


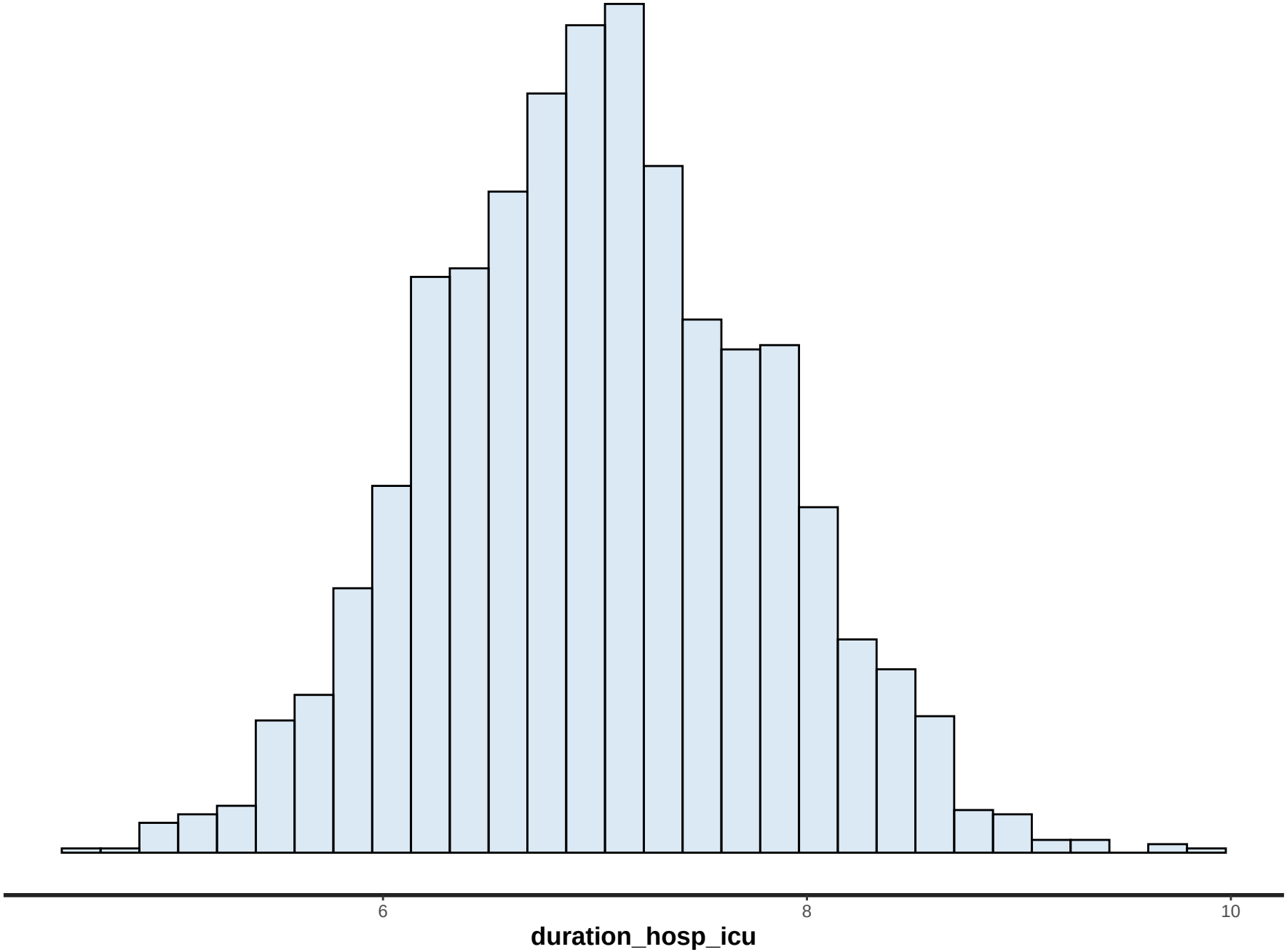

1.5
2.0
2.5
3.0
r0

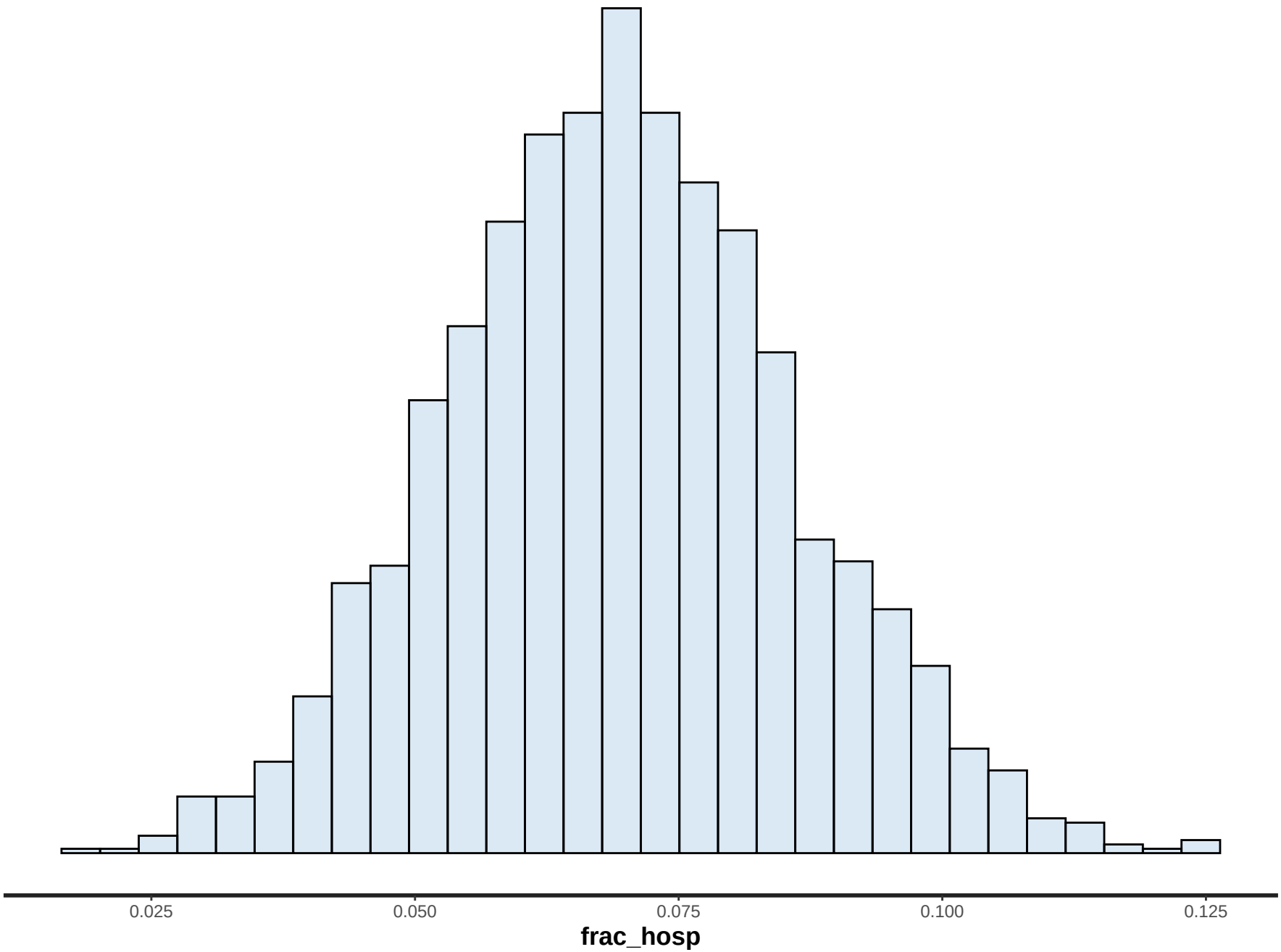

1
2
3
duration_latent

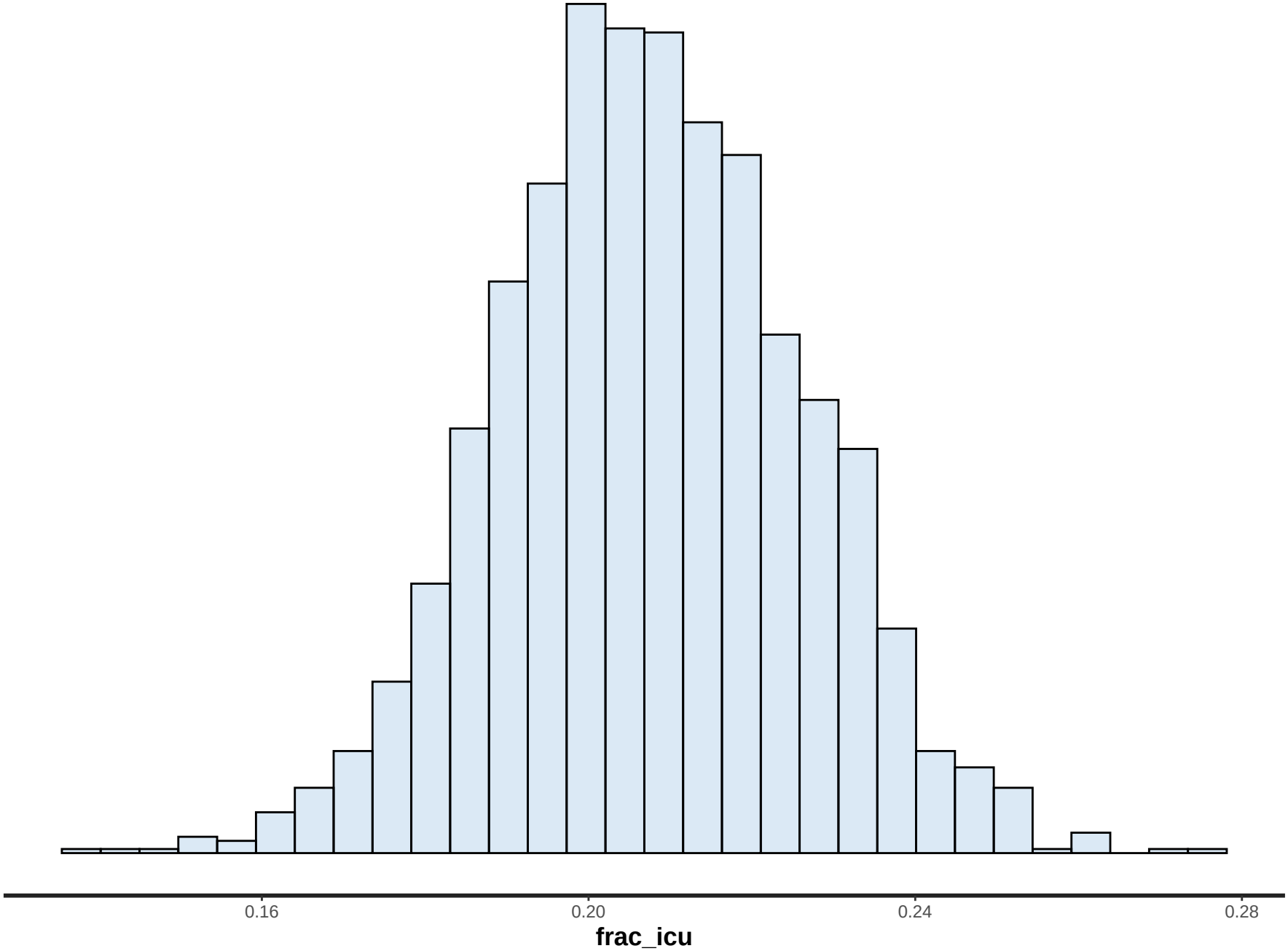

2
4
6
duration_rec_mild

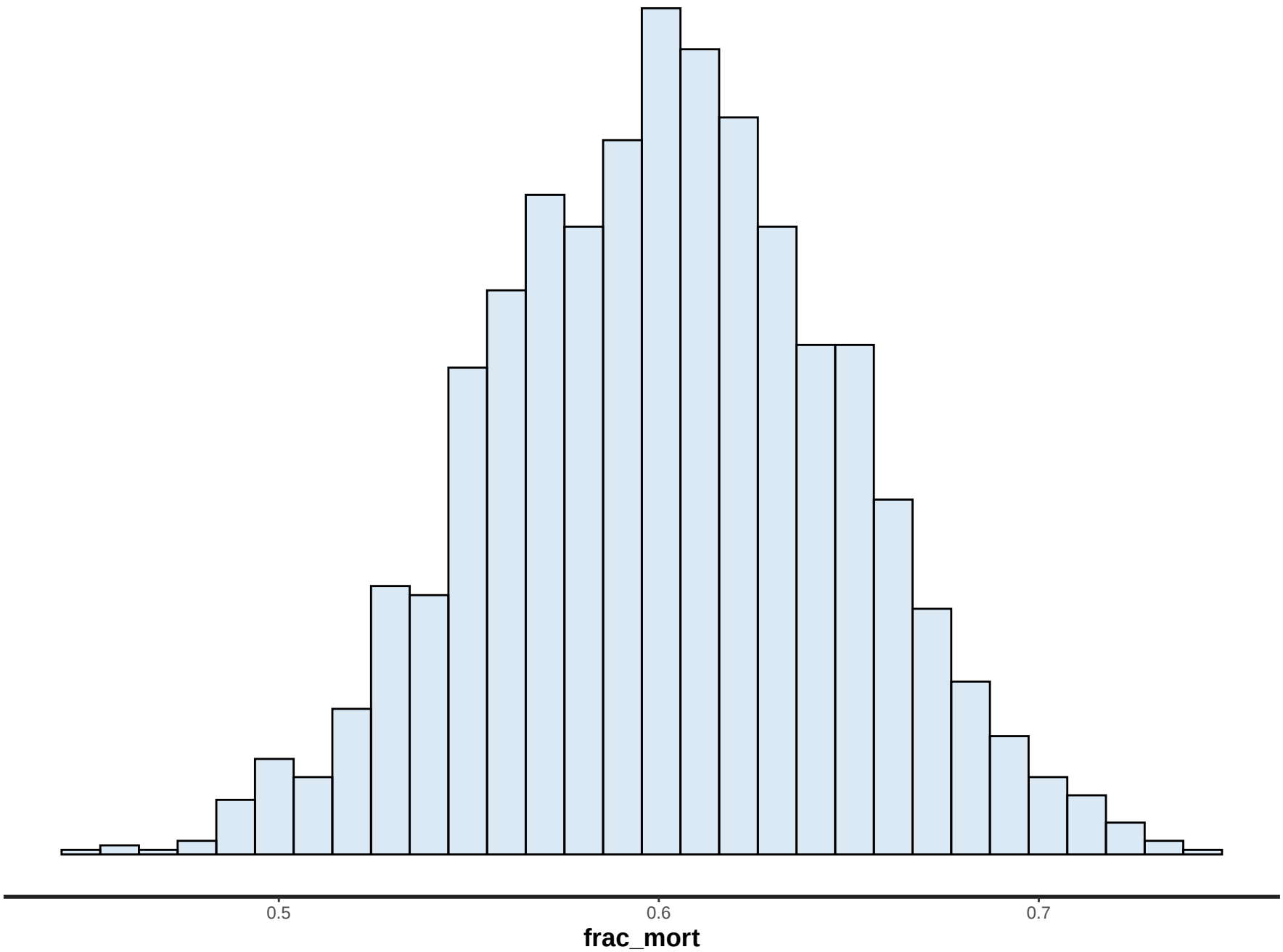

2.5
5.0
7.5
10.0
duration_pre_hosp

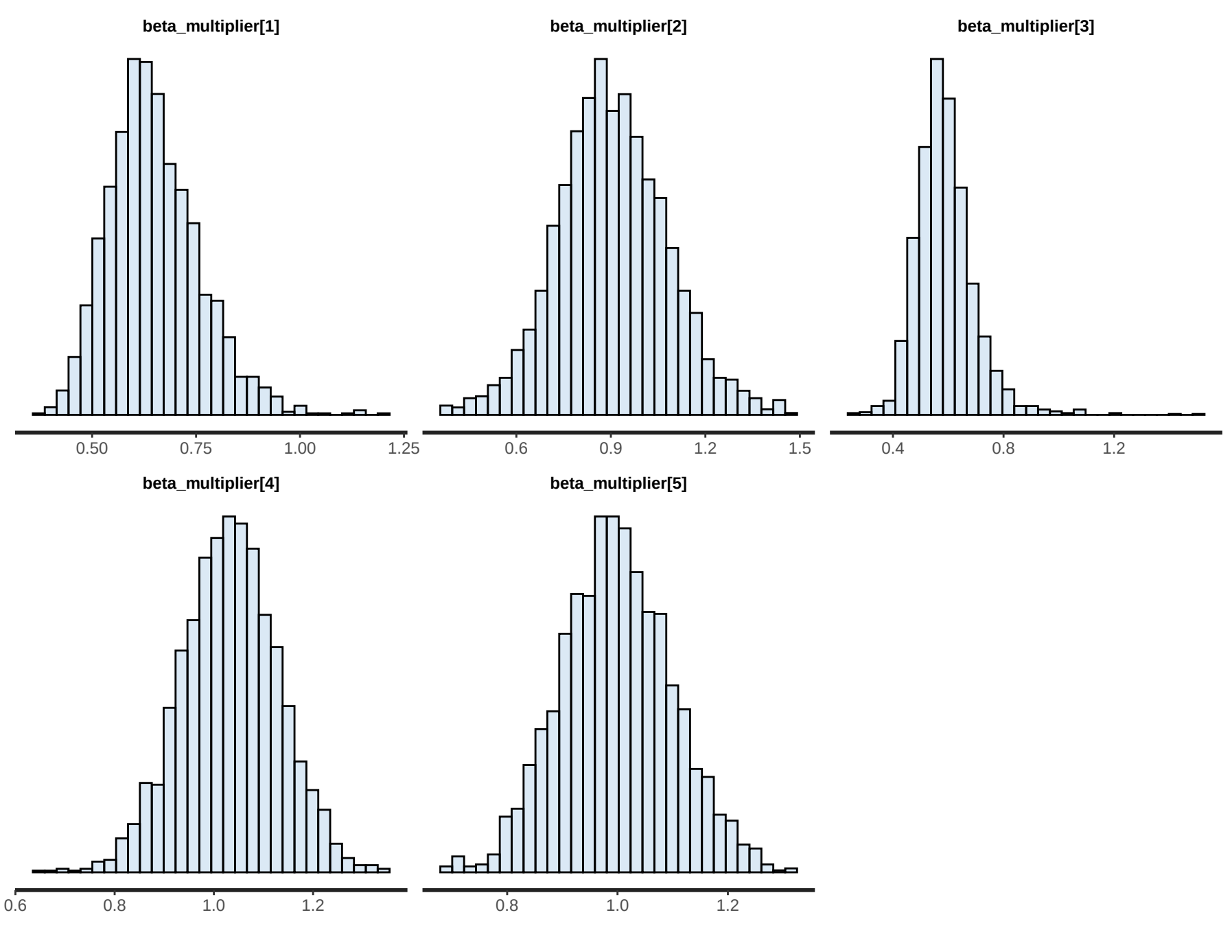

3
5
7
9
11
duration_hosp_mod


6
8
10
duration_hosp_icu


0.025
0.050
0.075
0.100
0.125
frac_hosp


0.16
0.20
0.24
0.28
frac_icu


0.5
0.6
0.7
frac_mort


beta_multiplier[1]
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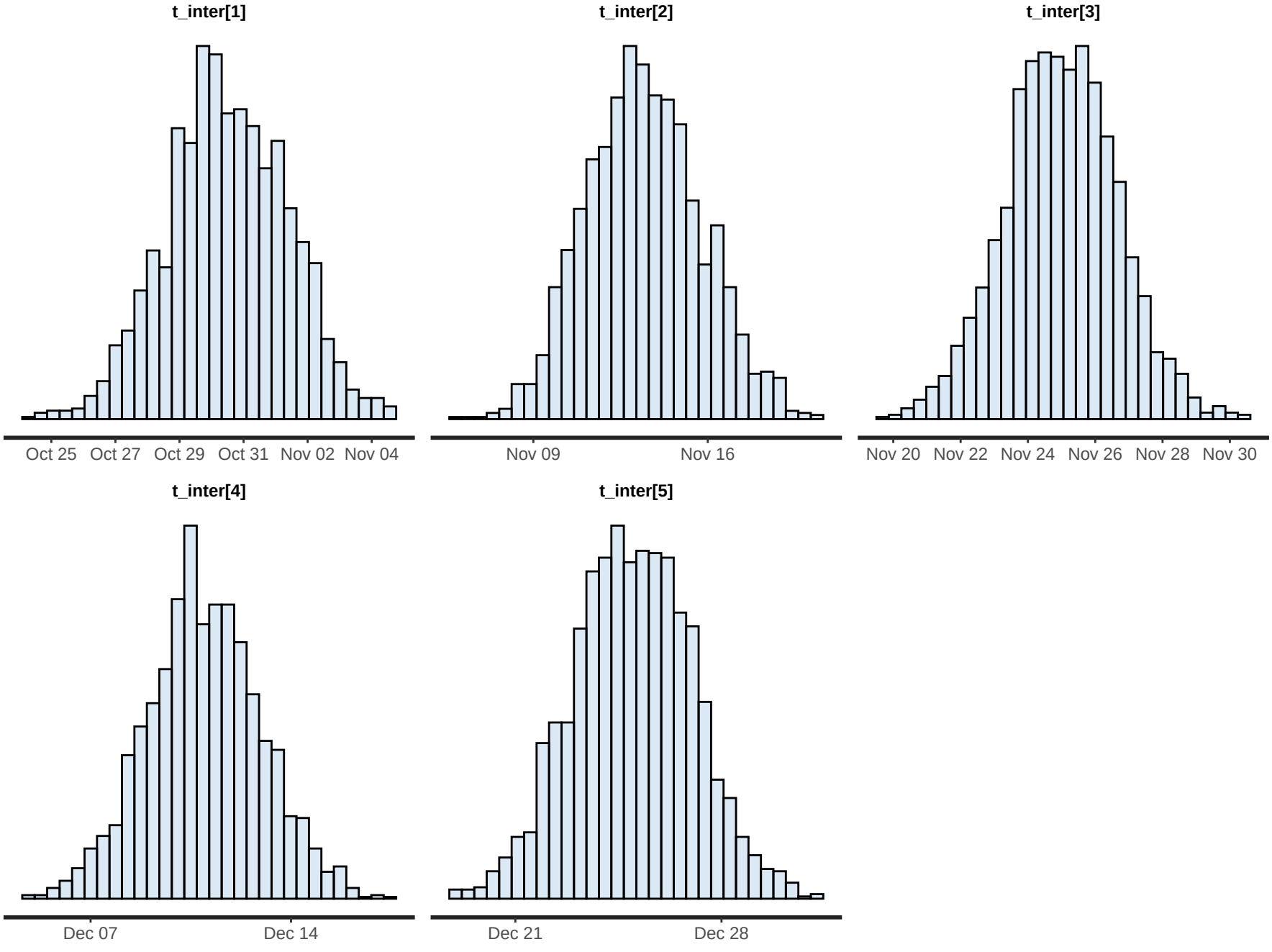
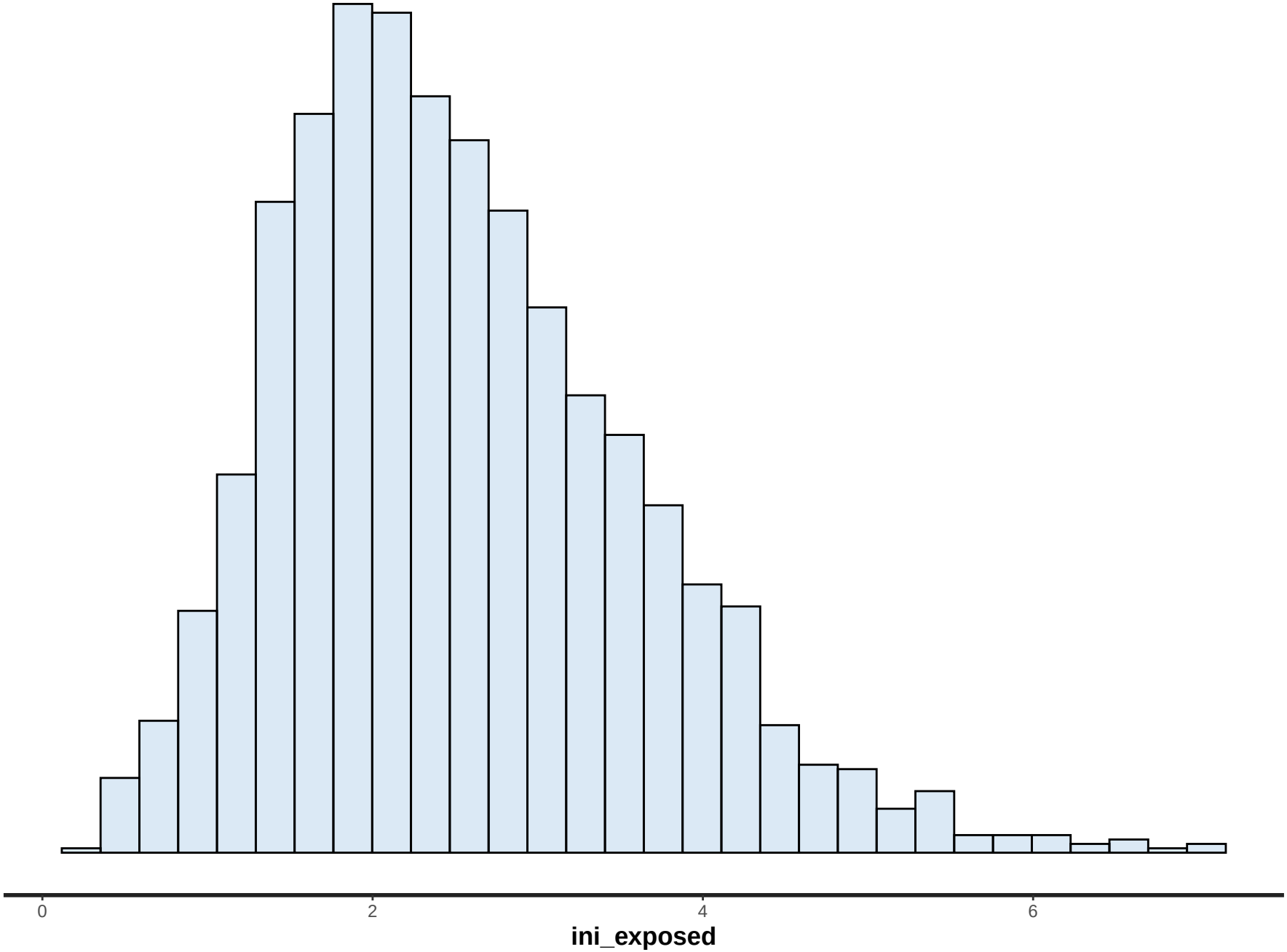
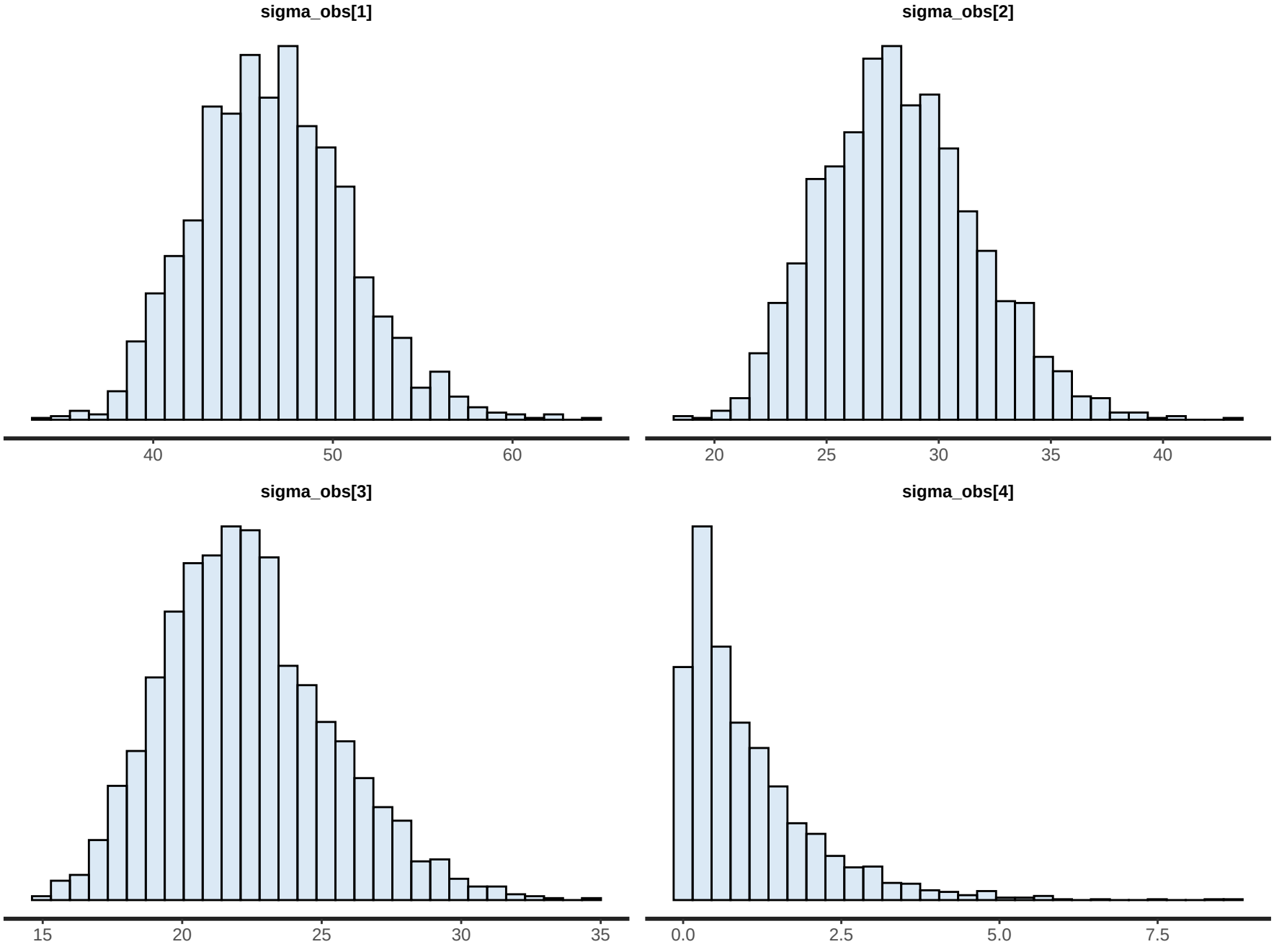
0.75
1.00
1.25
beta_multiplier[2]
0.6
0.9
1.2
1.5
beta_multiplier[3]
0.4
0.8
1.2
beta_multiplier[4]
0.6
0.8
1.0
1.2
beta_multiplier[5]
0.8
1.0
1.2


t_inter[1]
Oct 25
Oct 27
Oct 29
Oct 31
Nov 02
Nov 04
t_inter[2]
Nov 09
Nov 16
t_inter[3]
Nov 20
Nov 22
Nov 24
Nov 26
Nov 28
Nov 30
t_inter[4]
Dec 07
Dec 14
t_inter[5]
Dec 21
Dec 28


0
2
4
6
ini_exposed


sigma_obs[1]
40
50
60
sigma_obs[2]
20
25
30
35
40
sigma_obs[3]
15
20
25
30
35
sigma_obs[4]
0.0
2.5
5.0
7.5