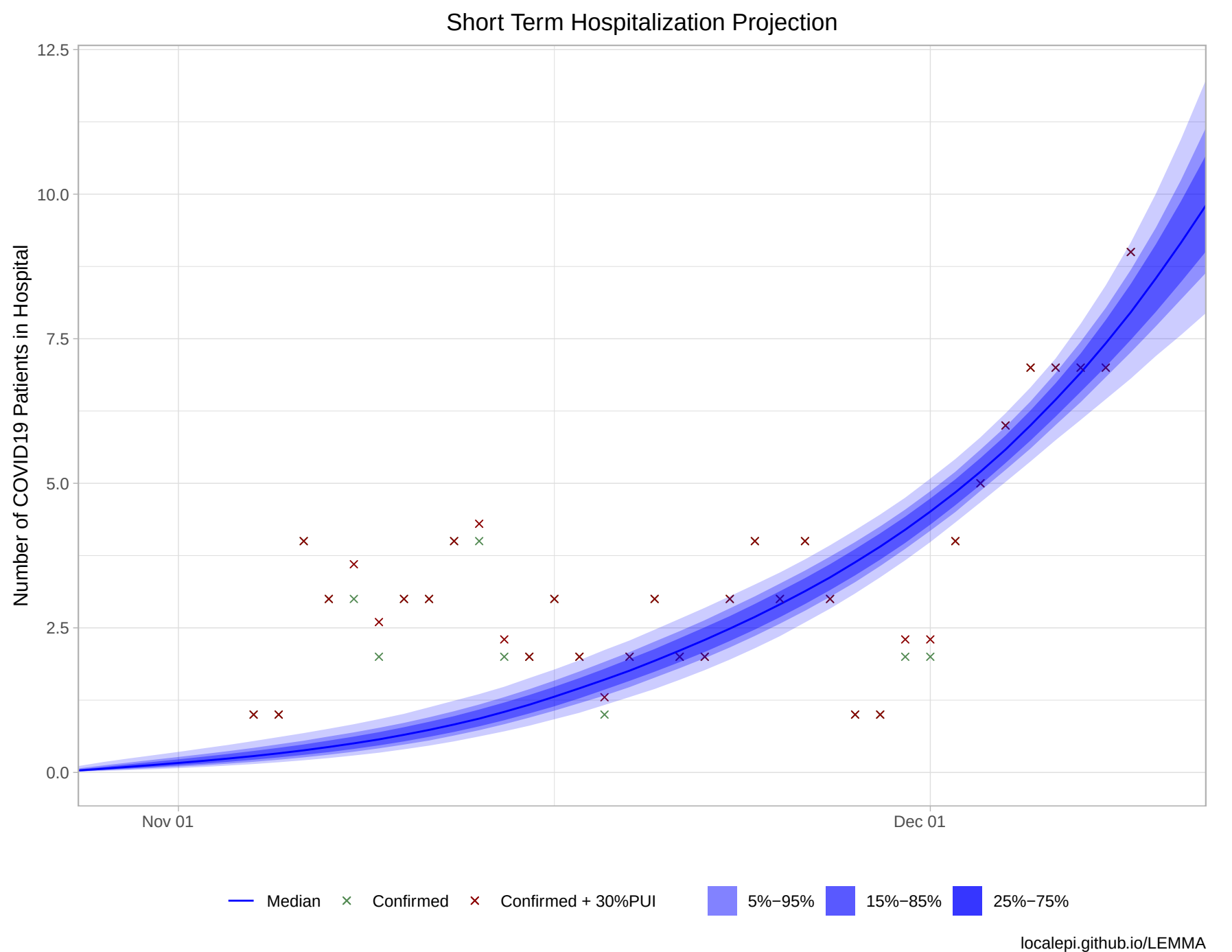
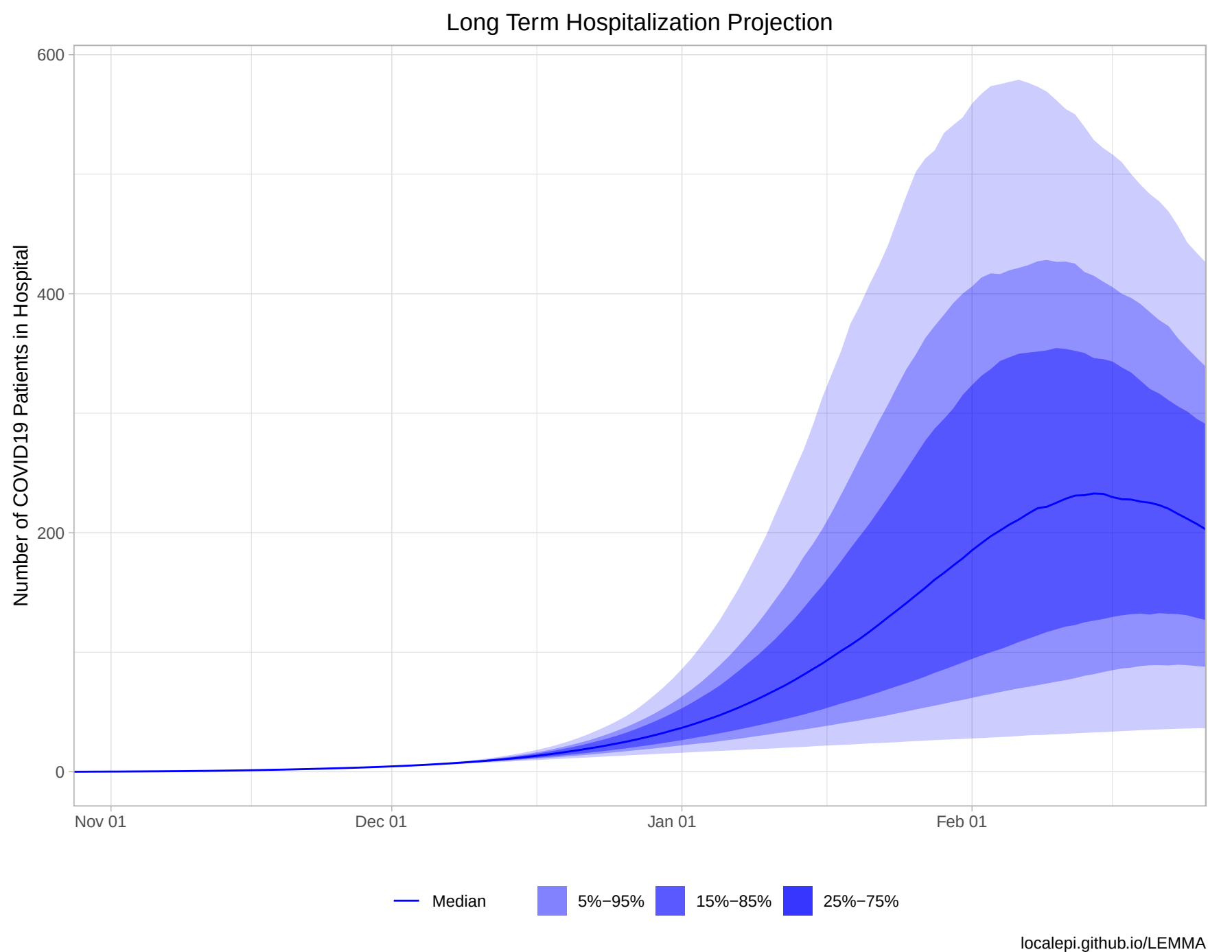
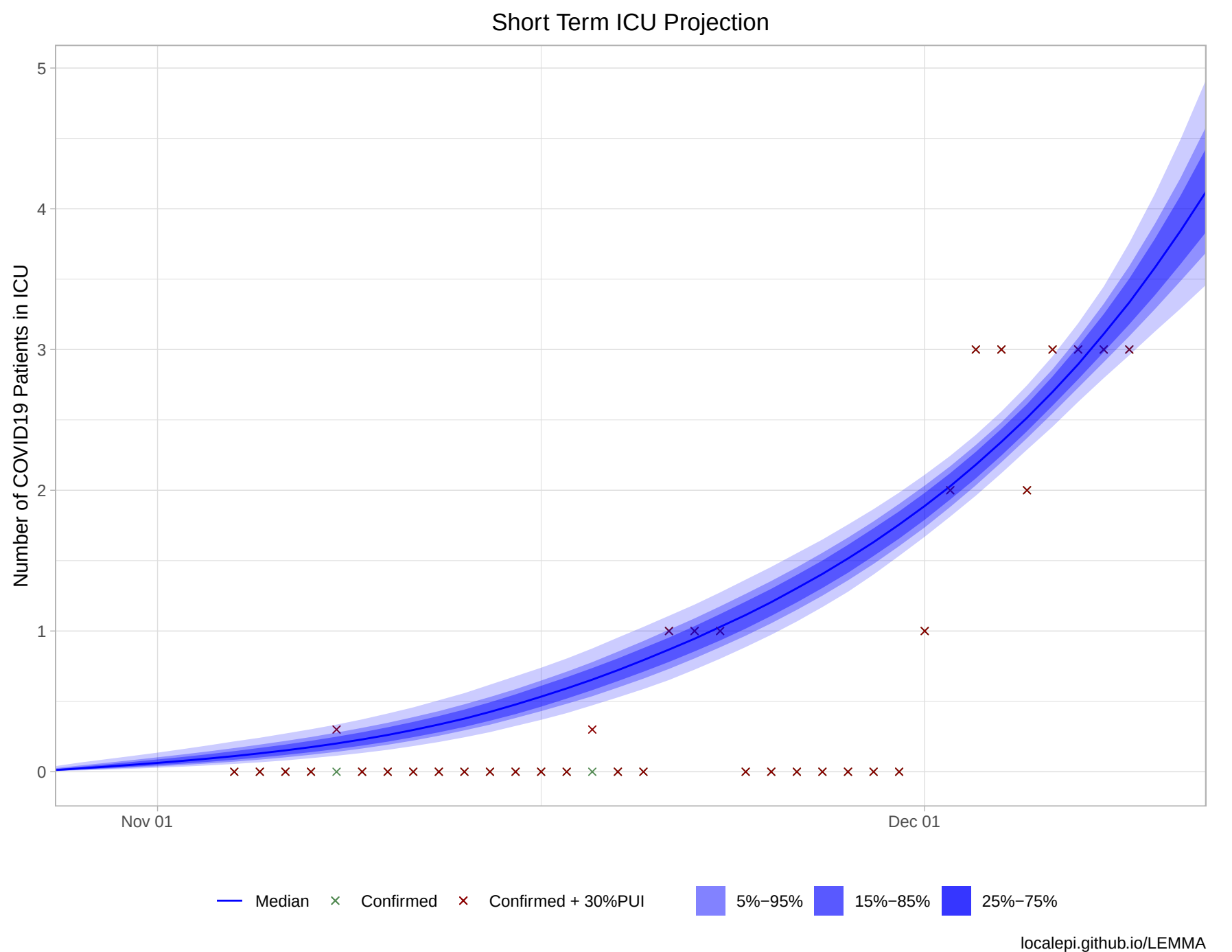
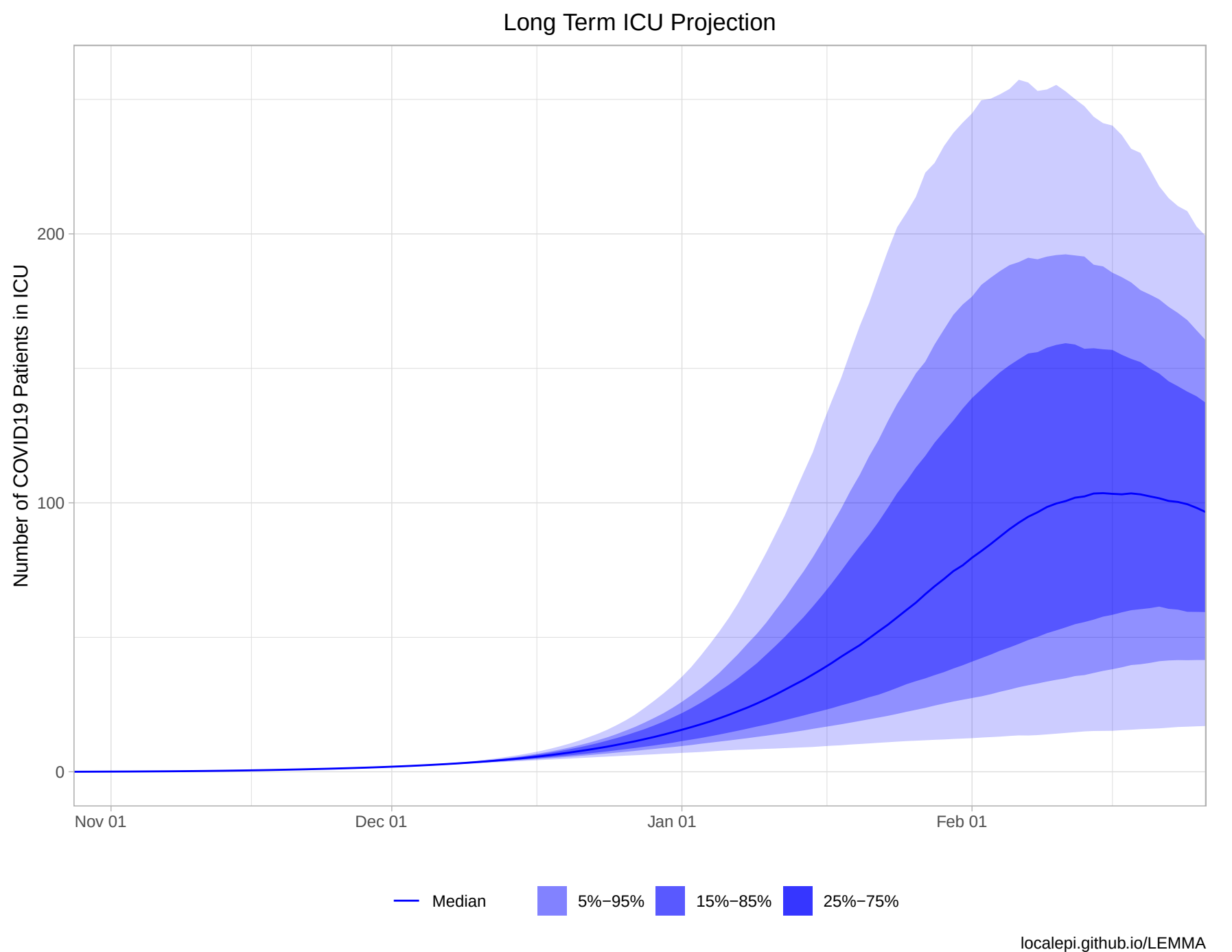
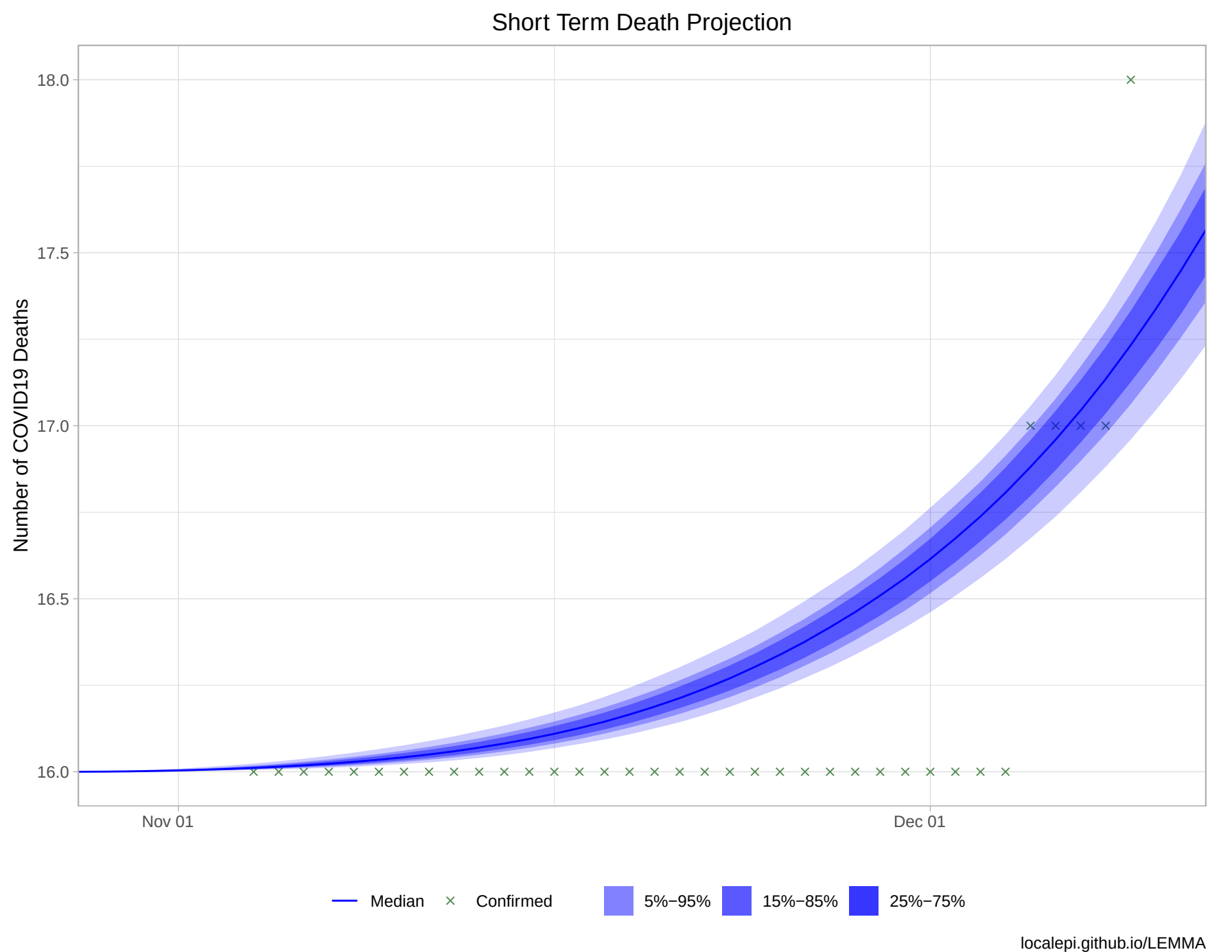
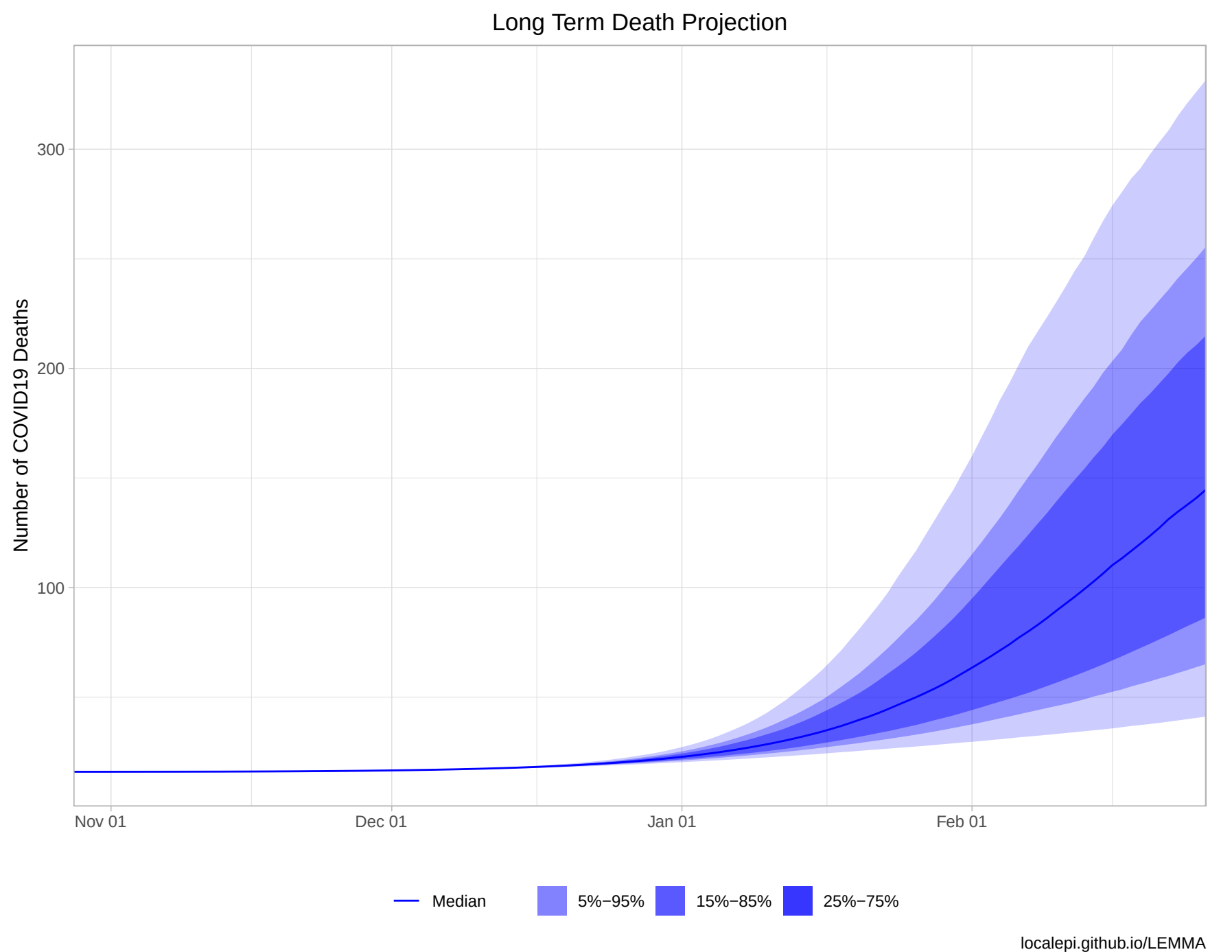

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
12.5
10.0
7.5
5.0
2.5
0.0
Nov 01
Dec 01
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

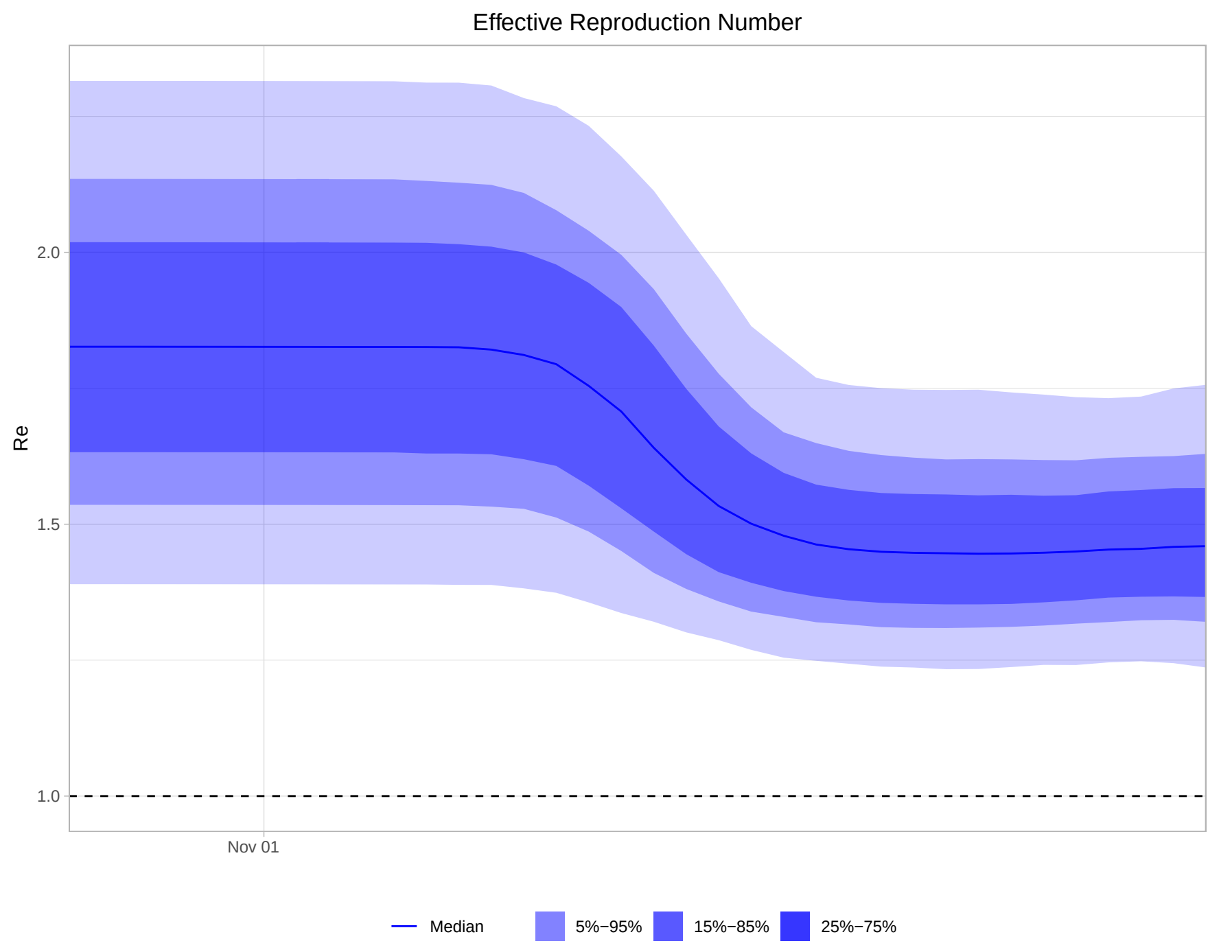

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
600
400
200
0
Nov 01
Dec 01
Jan 01
Feb 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


Short Term ICU Projection
Number of COVID19 Patients in ICU
5
4
3
2
1
0
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
200
100
0
Nov 01
Dec 01
Jan 01
Feb 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

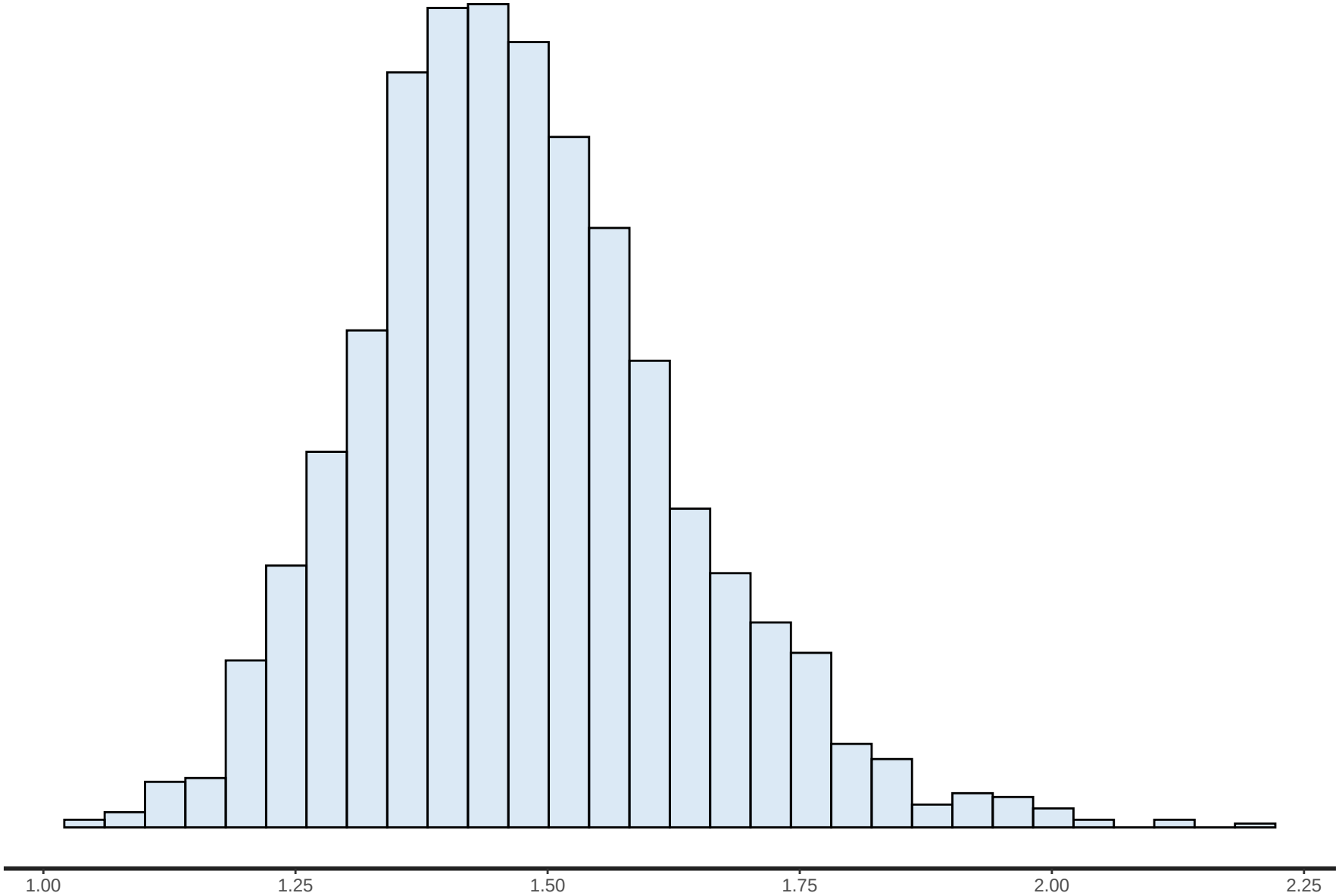

Short Term Death Projection
Number of COVID19 Deaths
18.0
17.5
17.0
16.5
16.0
Nov 01
Dec 01
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

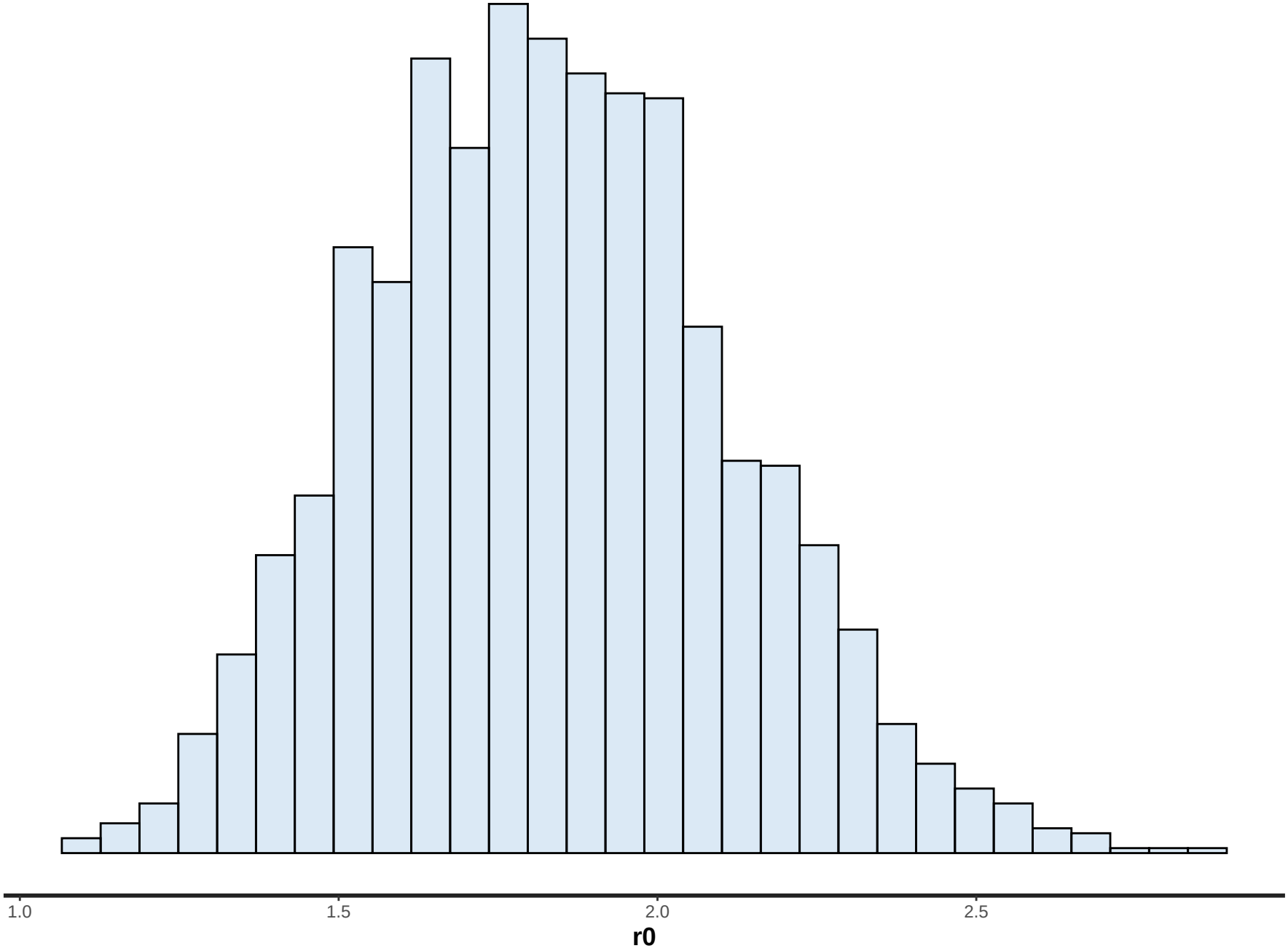

Long Term Death Projection
Number of COVID19 Deaths
300
200
100
Nov 01
Dec 01
Jan 01
Feb 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

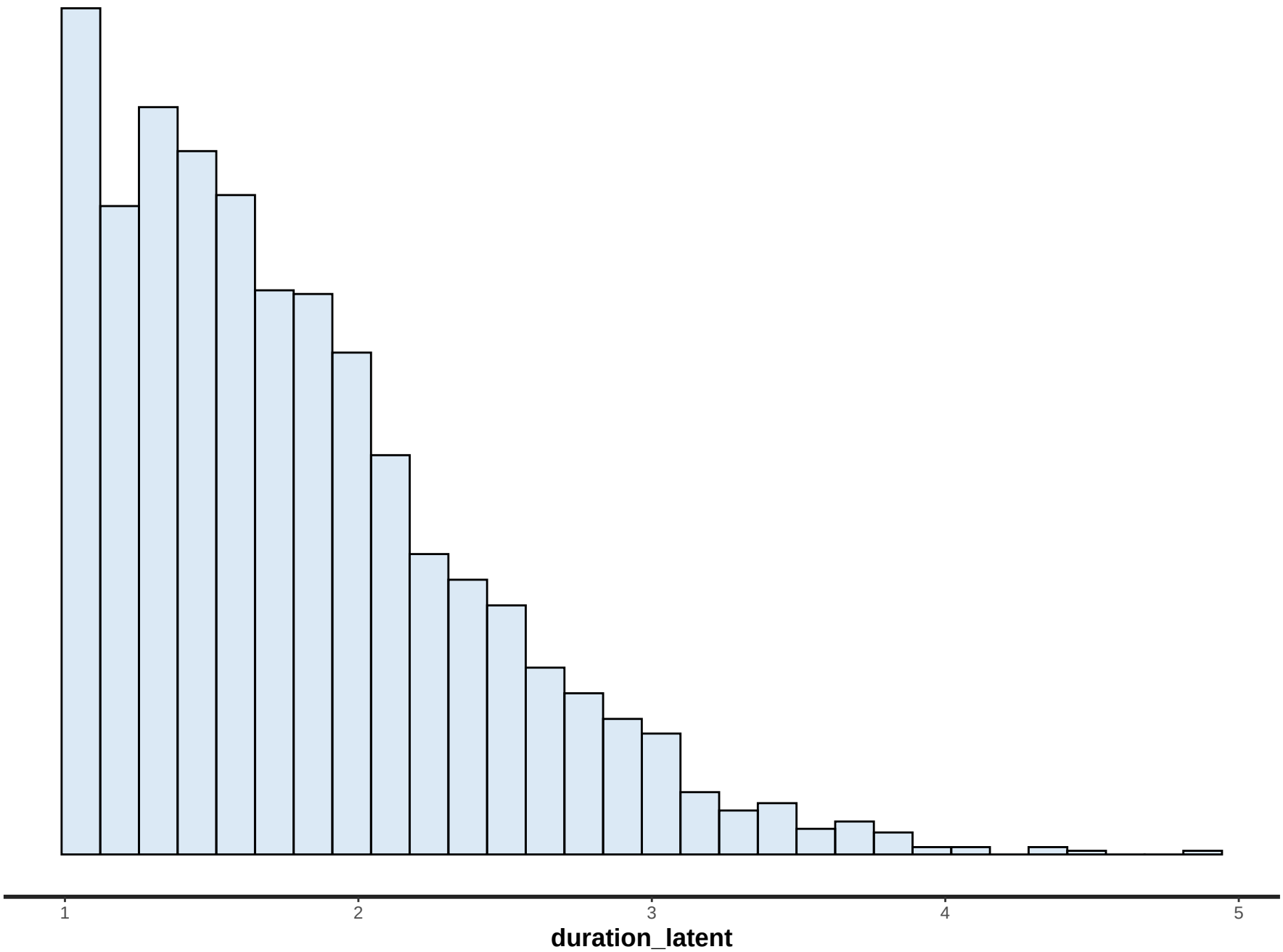

Effective Reproduction Number
Re
2.0
1.5
1.0
Nov 01
Median
5%−95%
15%−85%
25%−75%

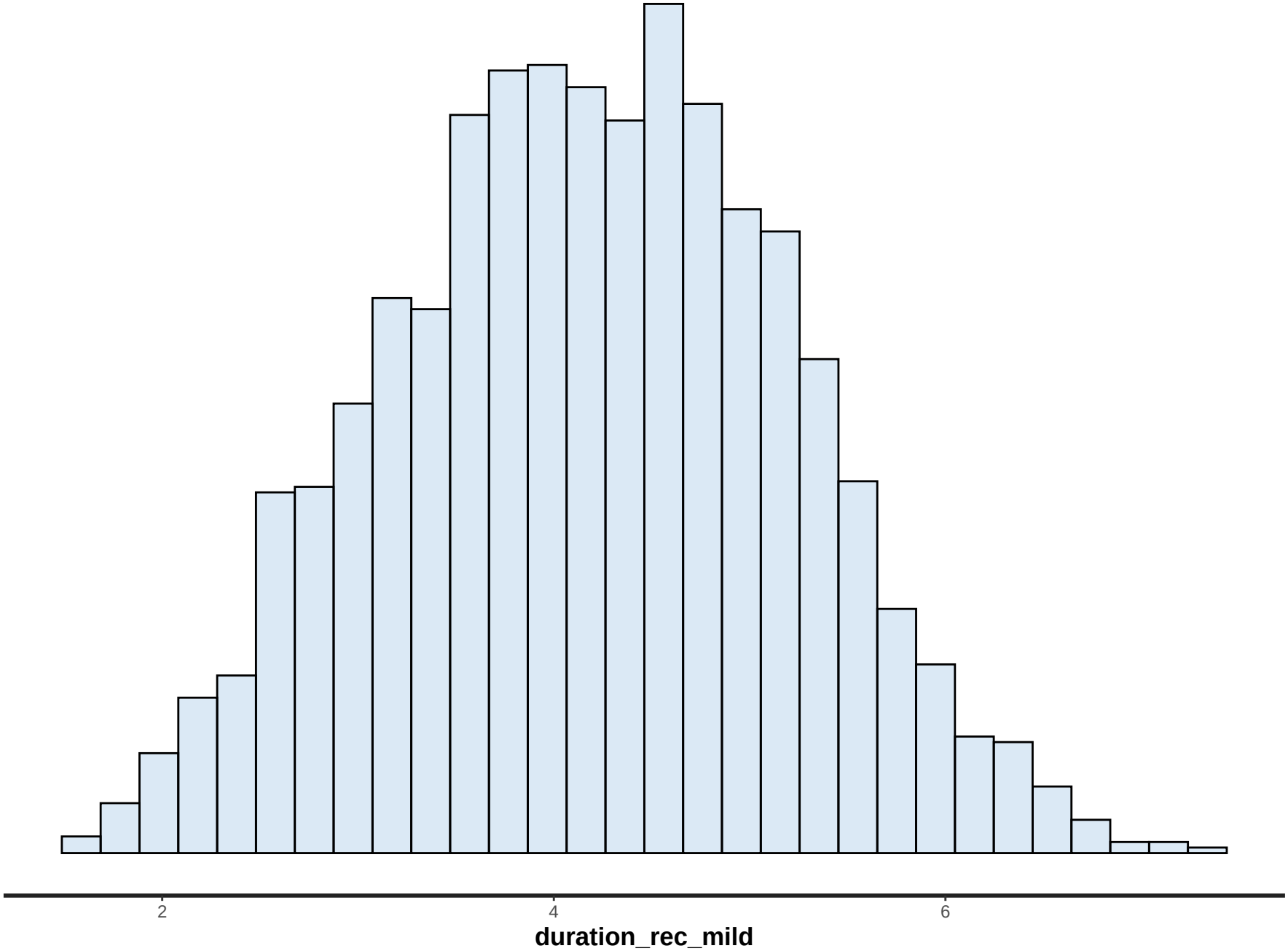
Rt as of 2020−11−30

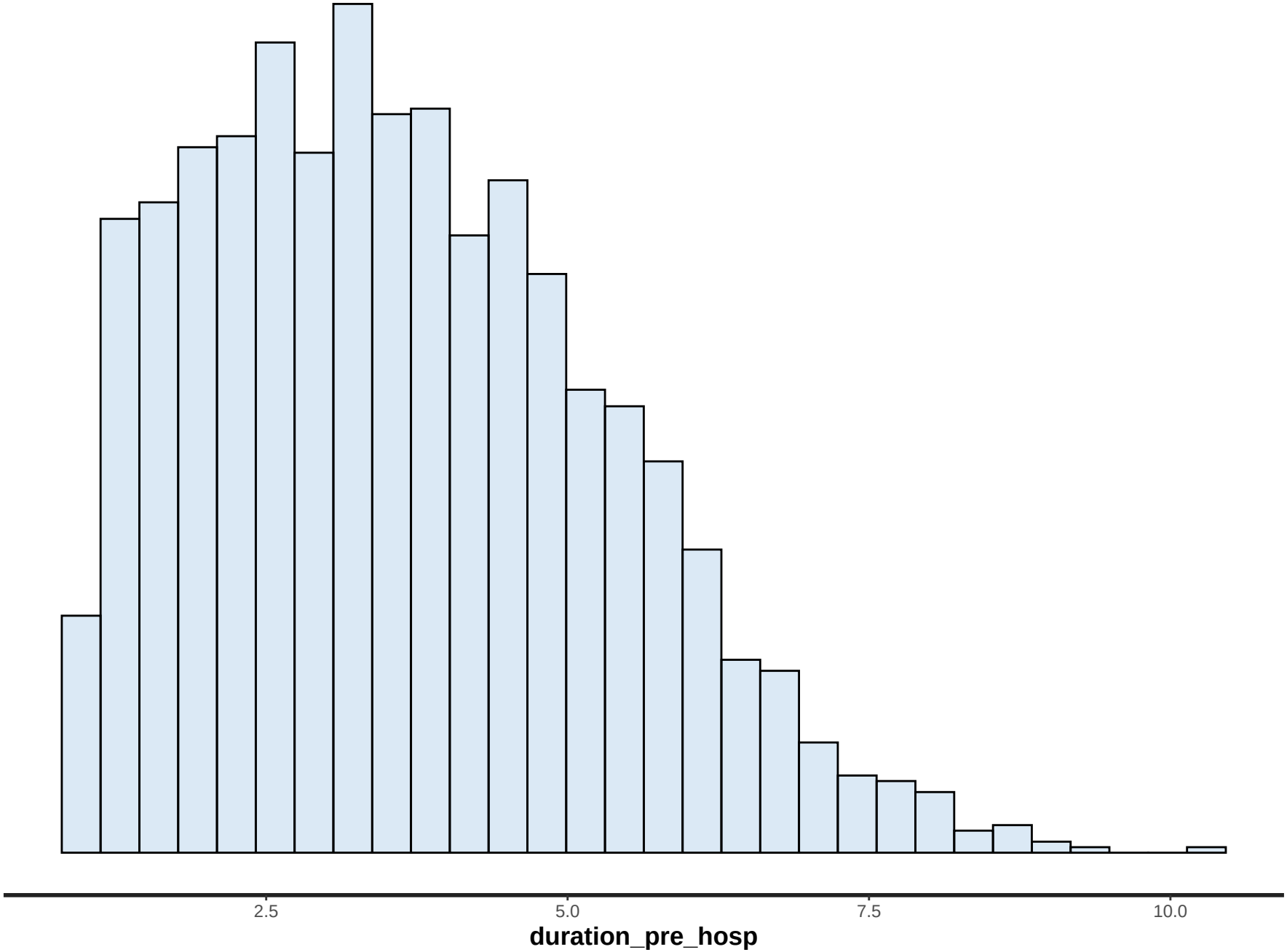
5%	10%	25%	50%	75%	90%	95%
1.24	1.29	1.37	1.46	1.57	1.68	1.76

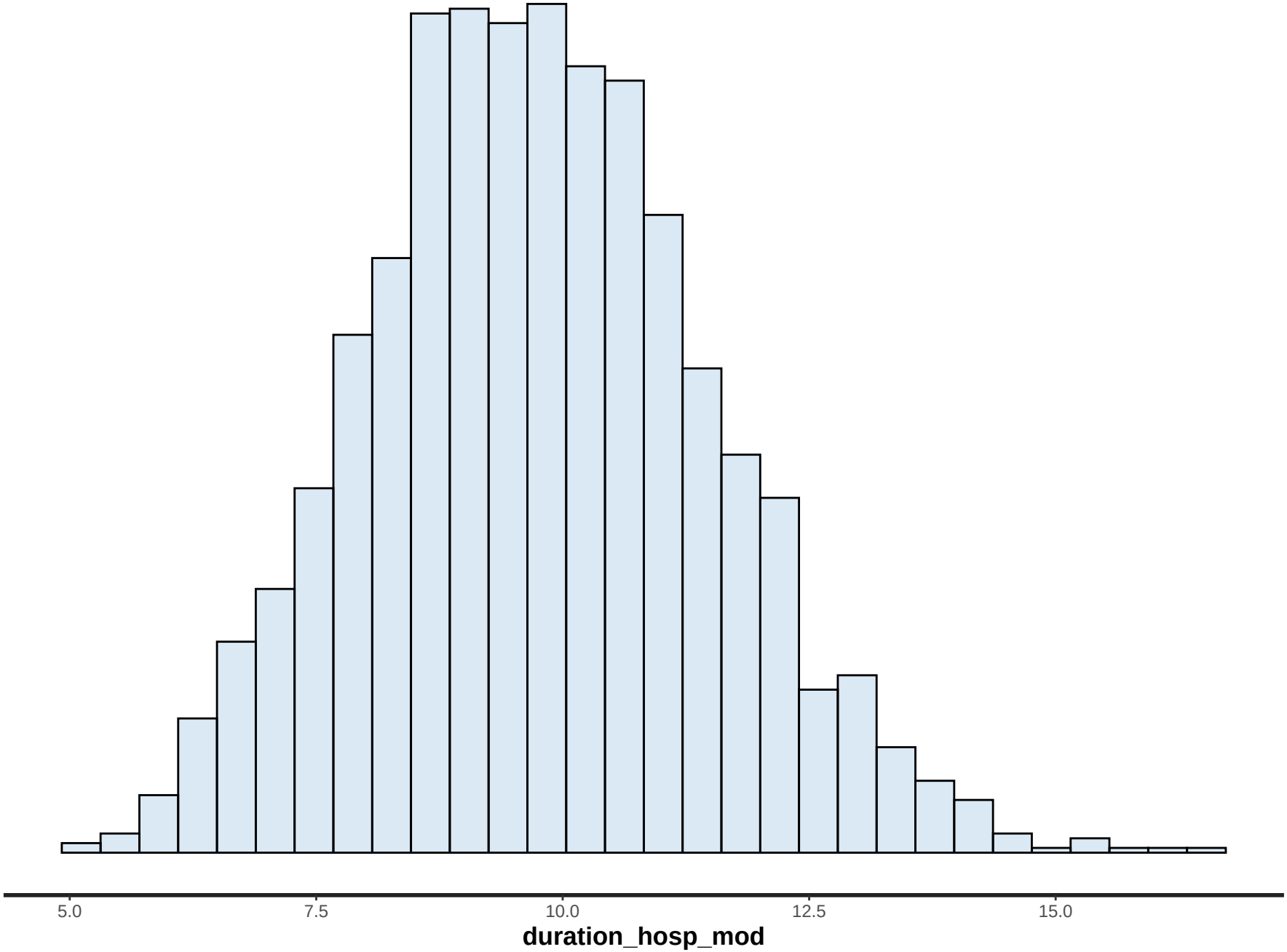


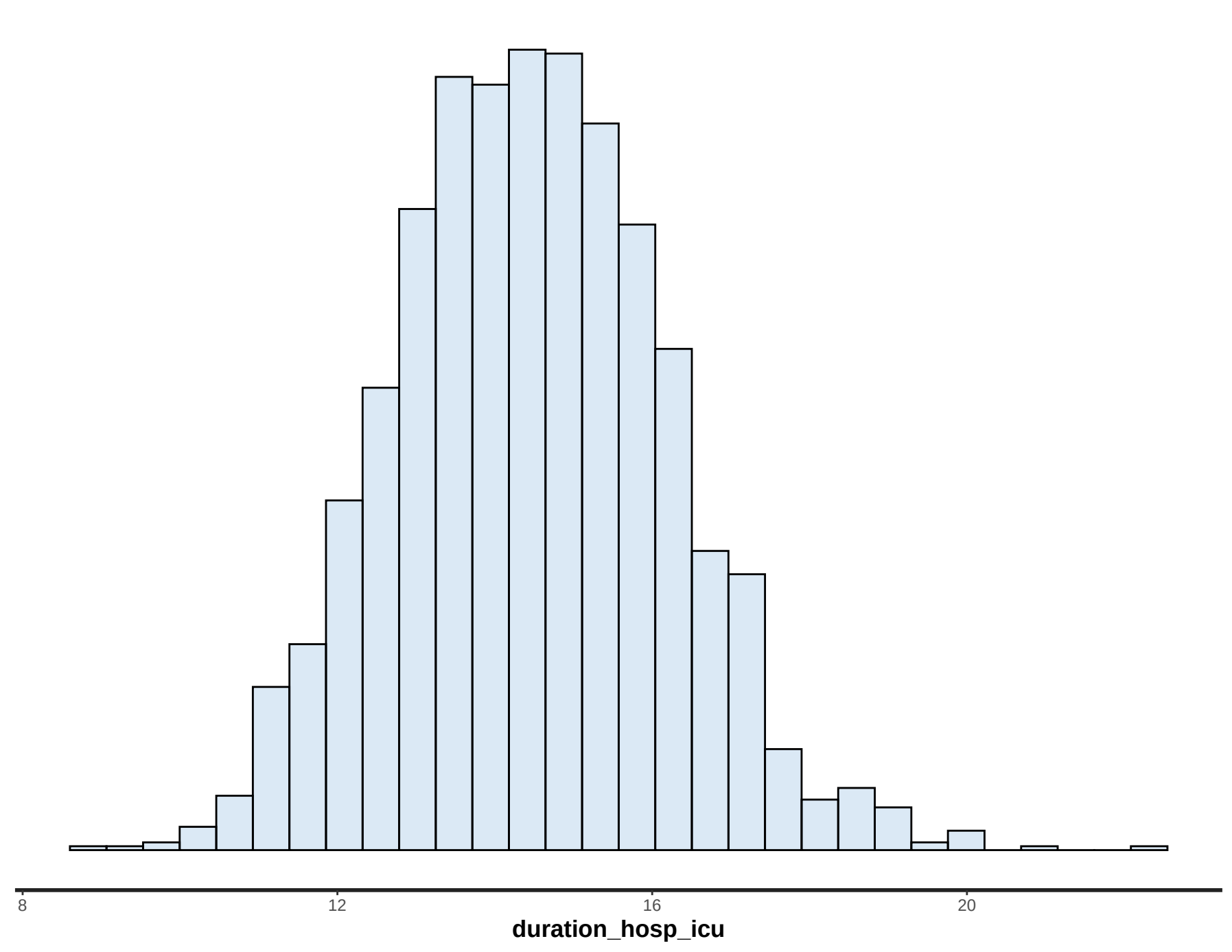

1.0
1.5
2.0
2.5
r0

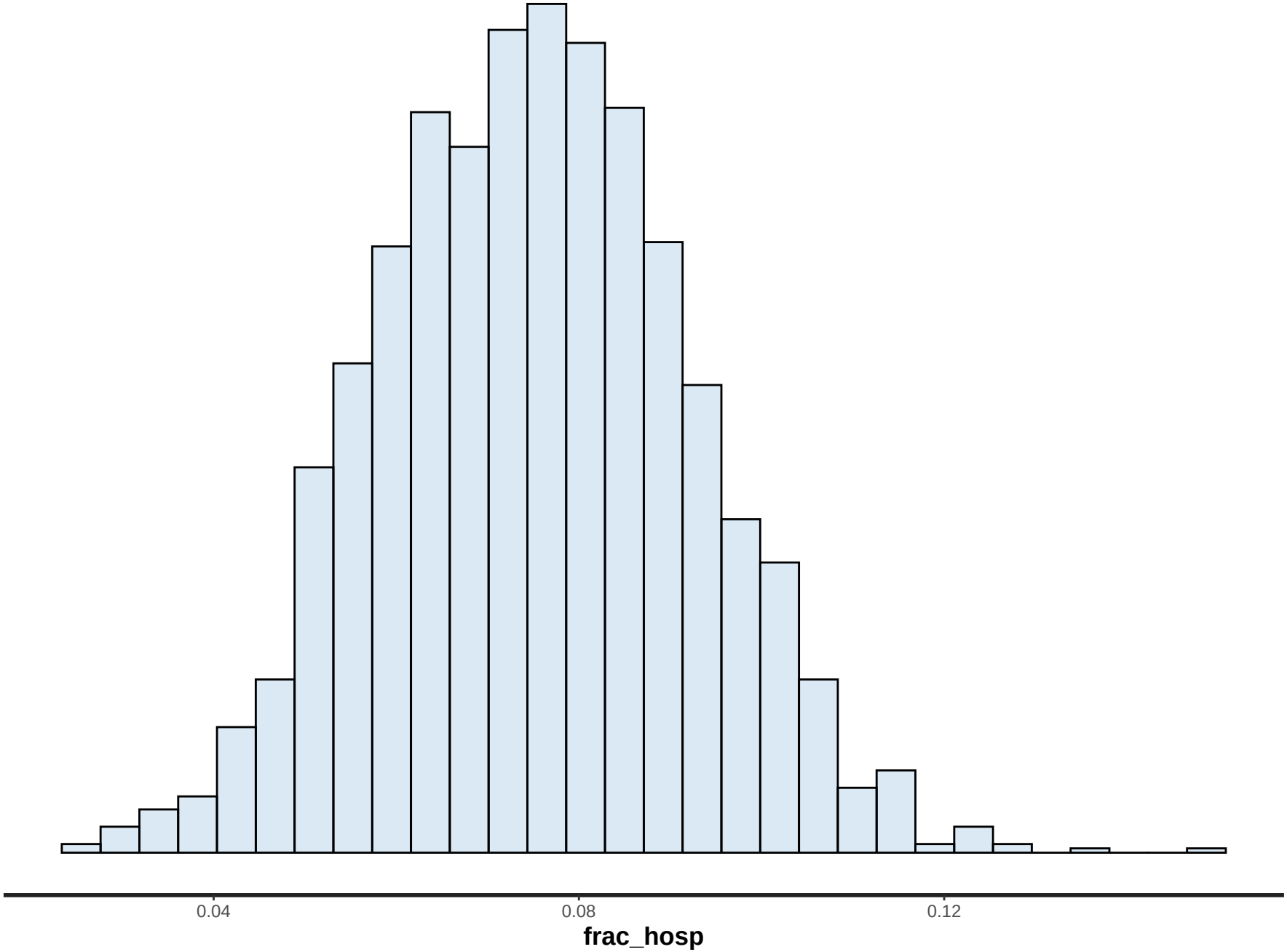

1
2
3
4
5
duration_latent

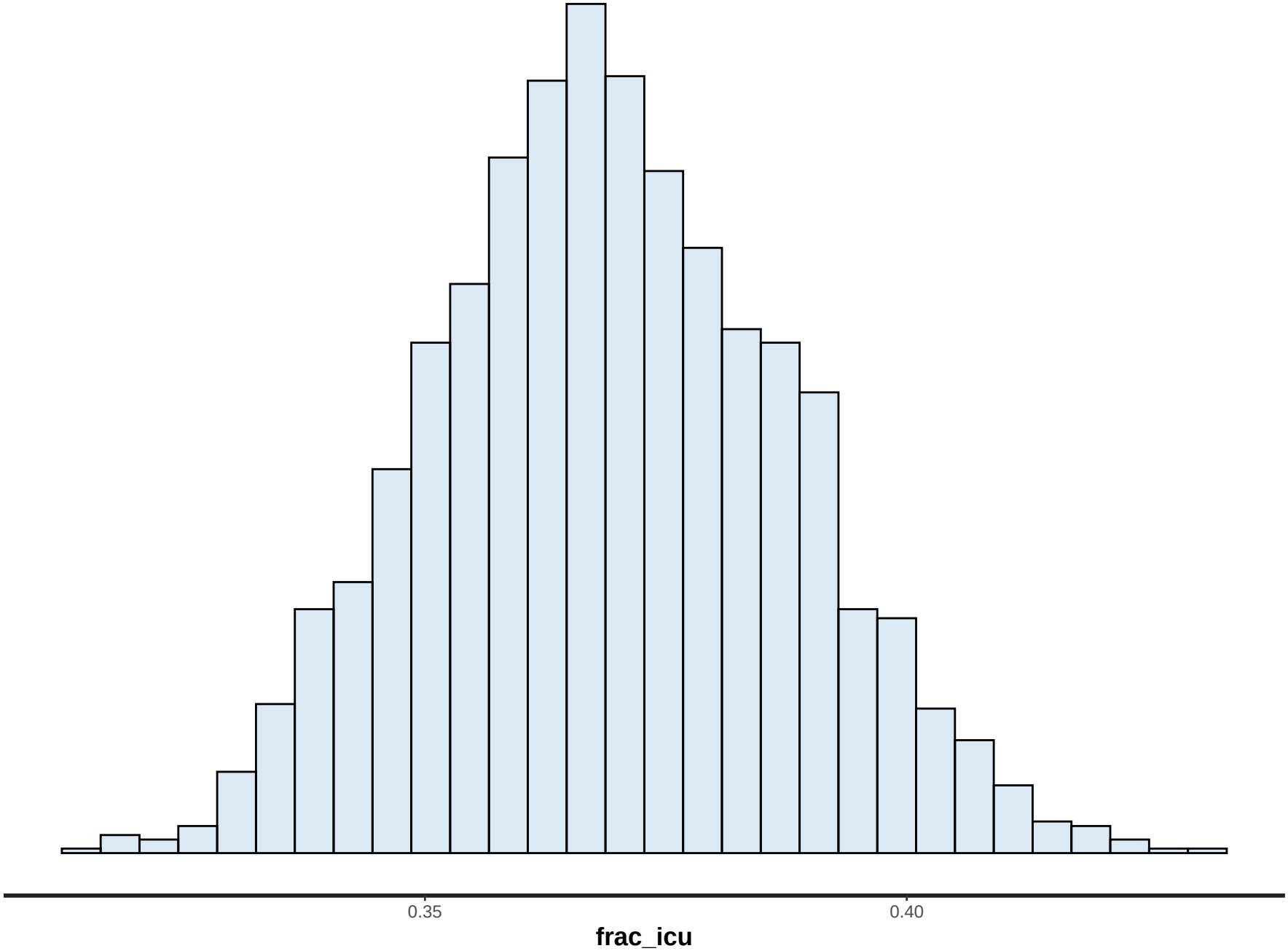

2
4
6
duration_rec_mild

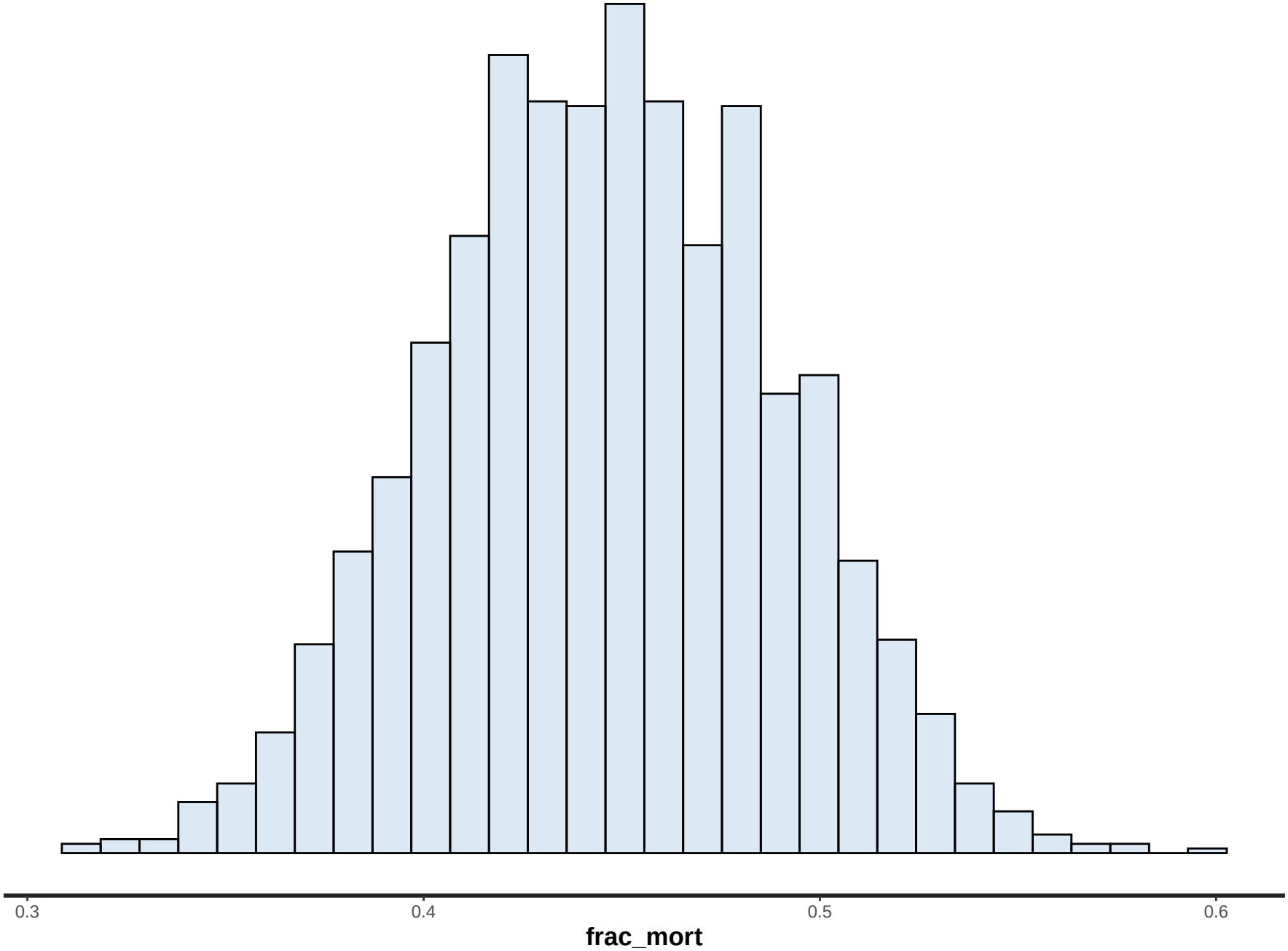

2.5
5.0
7.5
10.0
duration_pre_hosp

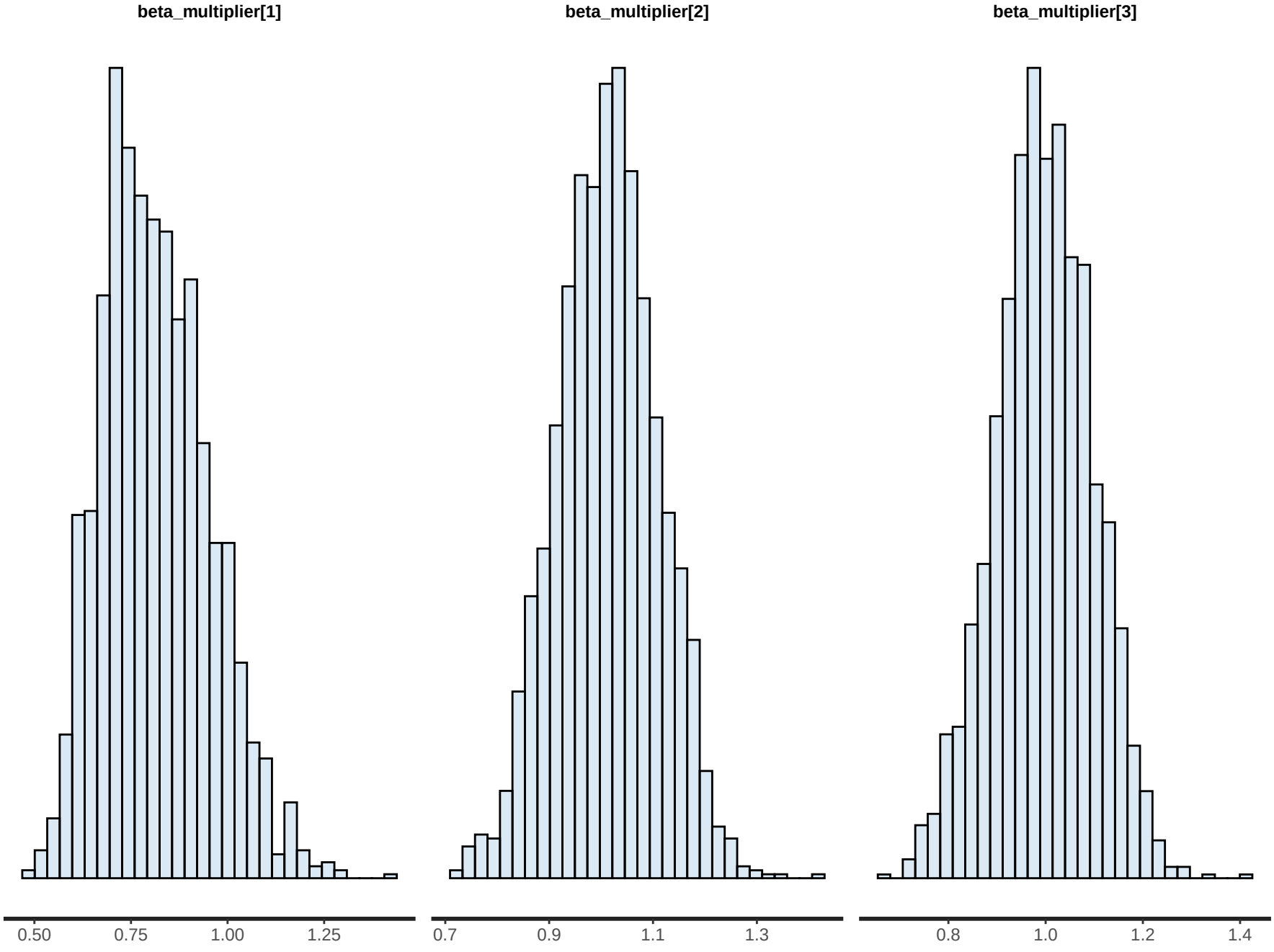

5.0
7.5
10.0
12.5
15.0
duration_hosp_mod

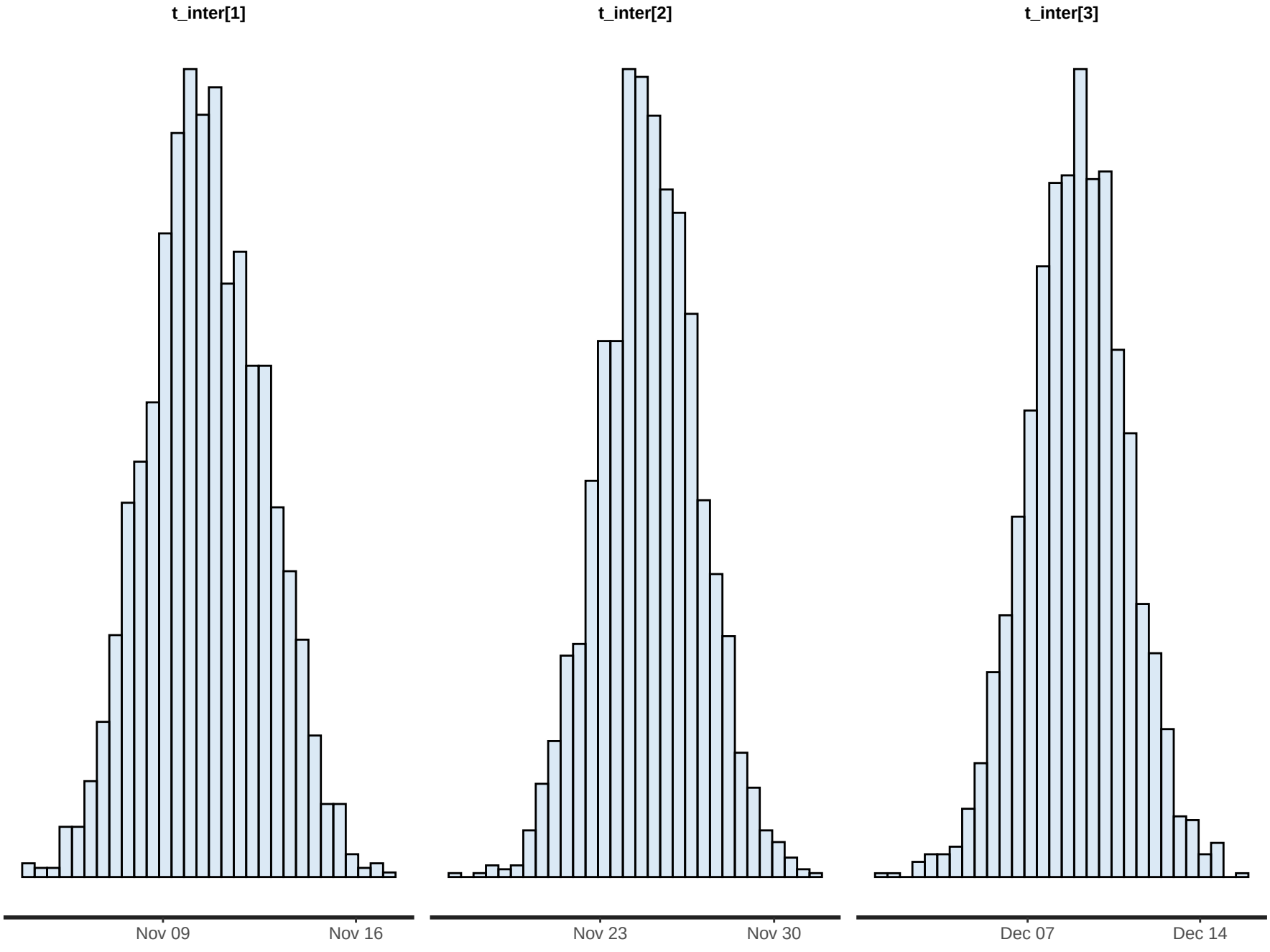

8
12
16
20
duration_hosp_icu

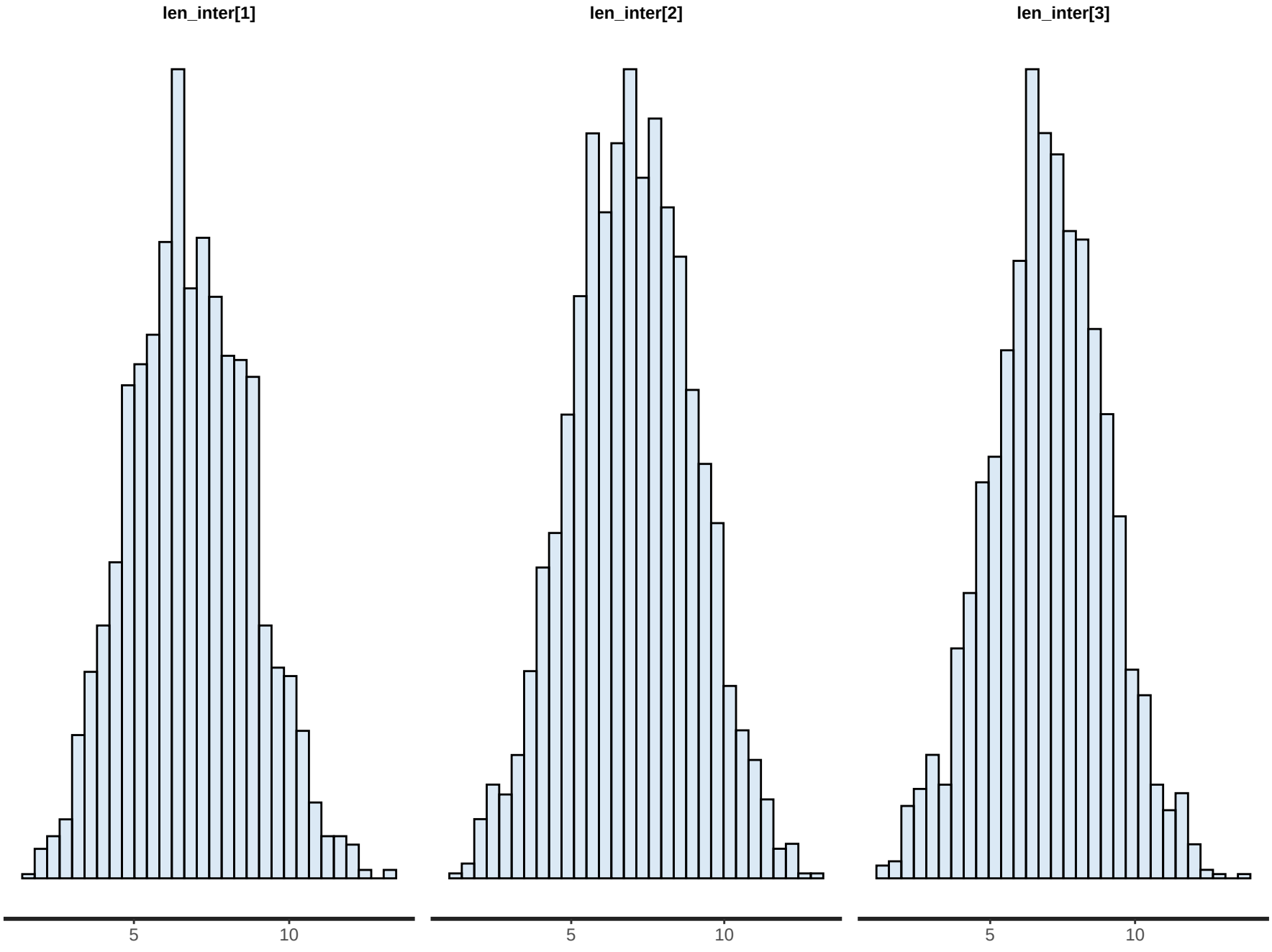

0.04
0.08
0.12
frac_hosp

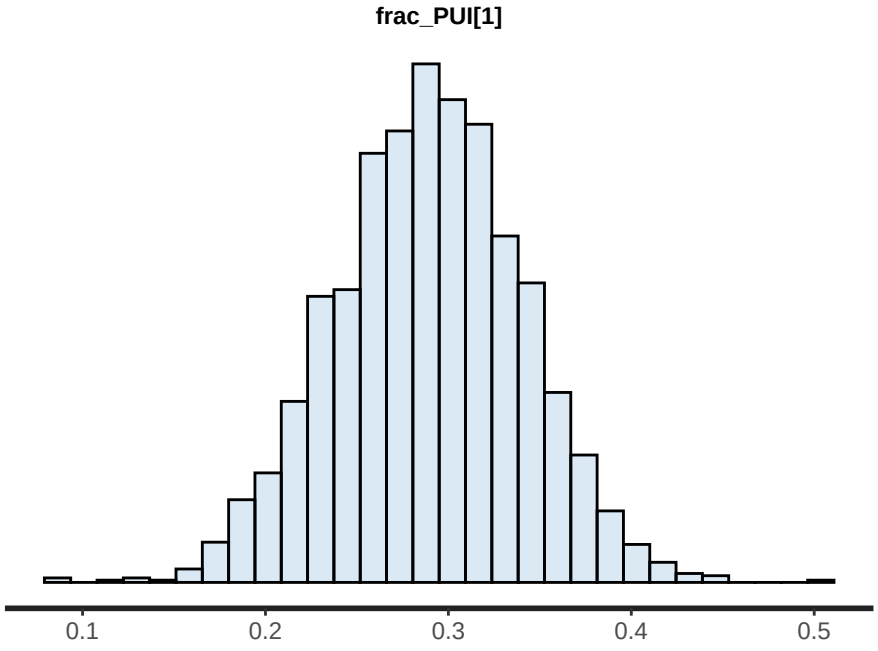

0.35
0.40
frac_icu

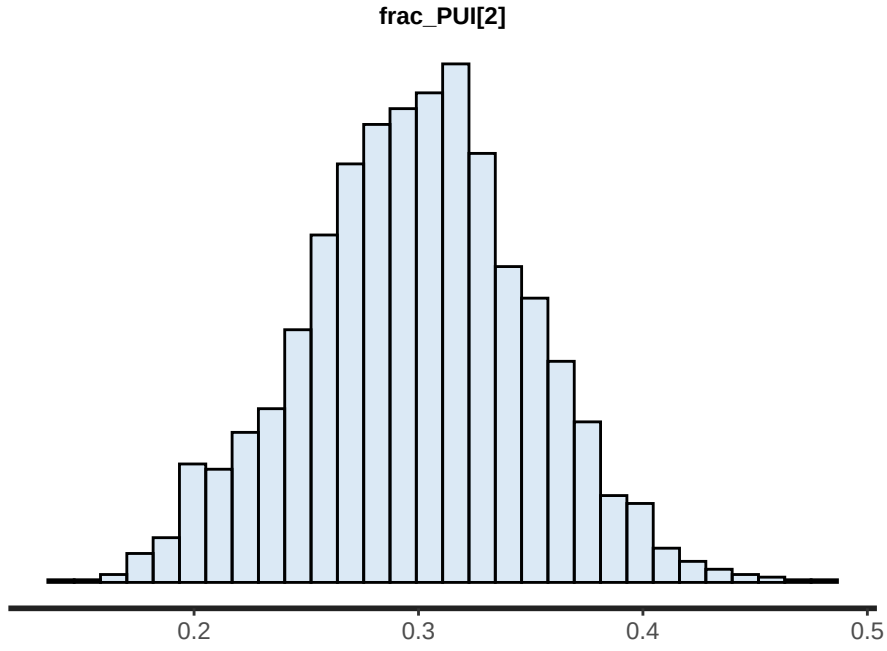

0.3
0.4
0.5
0.6
frac_mort

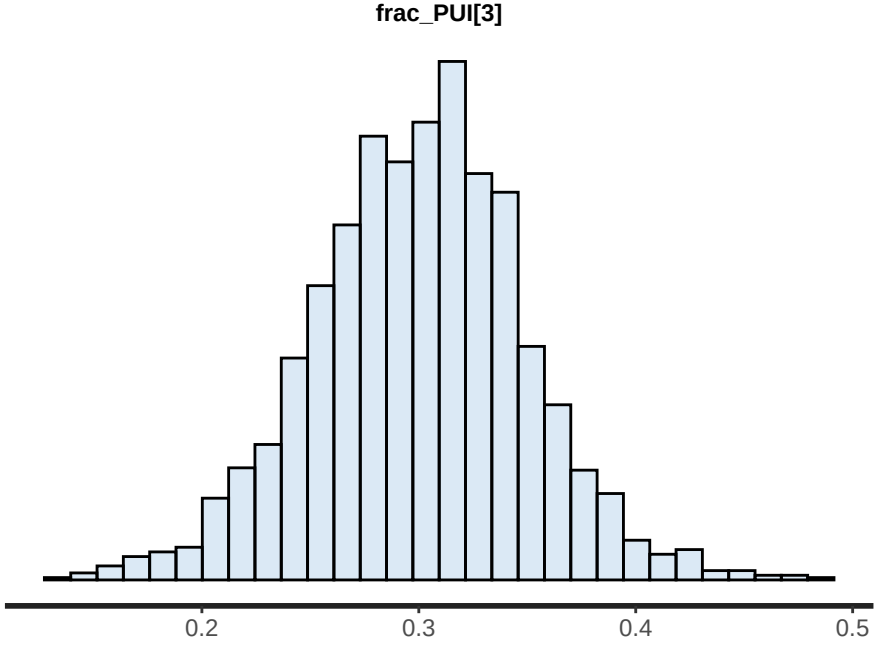

beta_multiplier[1]
beta_multiplier[2]
beta_multiplier[3]
0.50
0.75
1.00
1.25
0.7
0.9
1.1
1.3
0.8
1.0
1.2
1.4

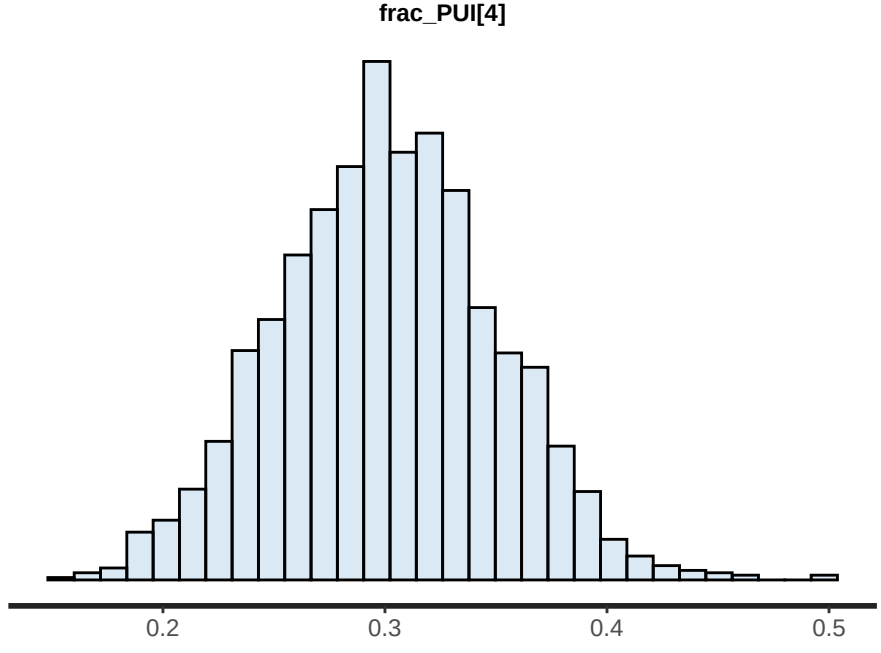

t_inter[1]
t_inter[2]
t_inter[3]
Nov 09
Nov 16
Nov 23
Nov 30
Dec 07
Dec 14

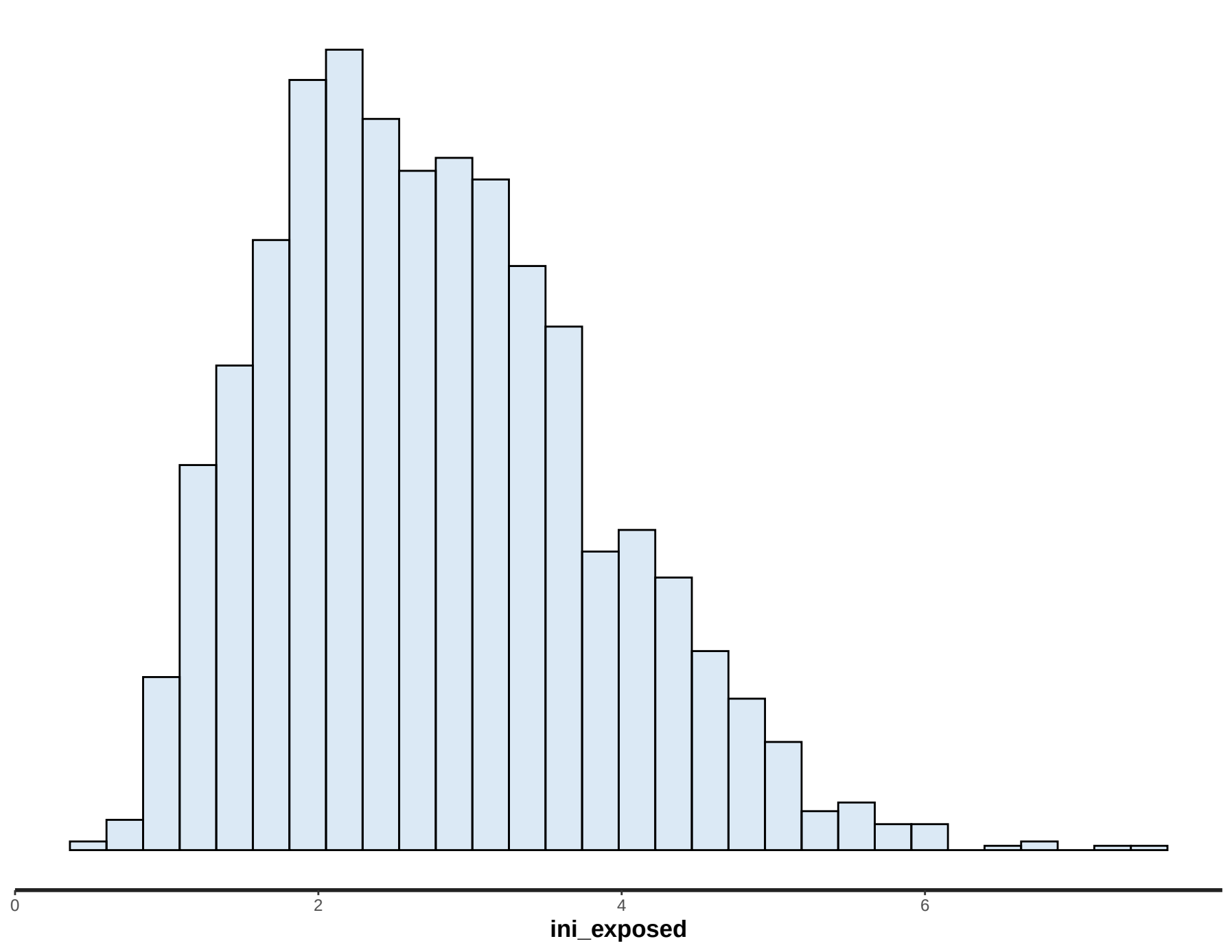

len_inter[1]
len_inter[2]
len_inter[3]
5
10
5
10
5
10

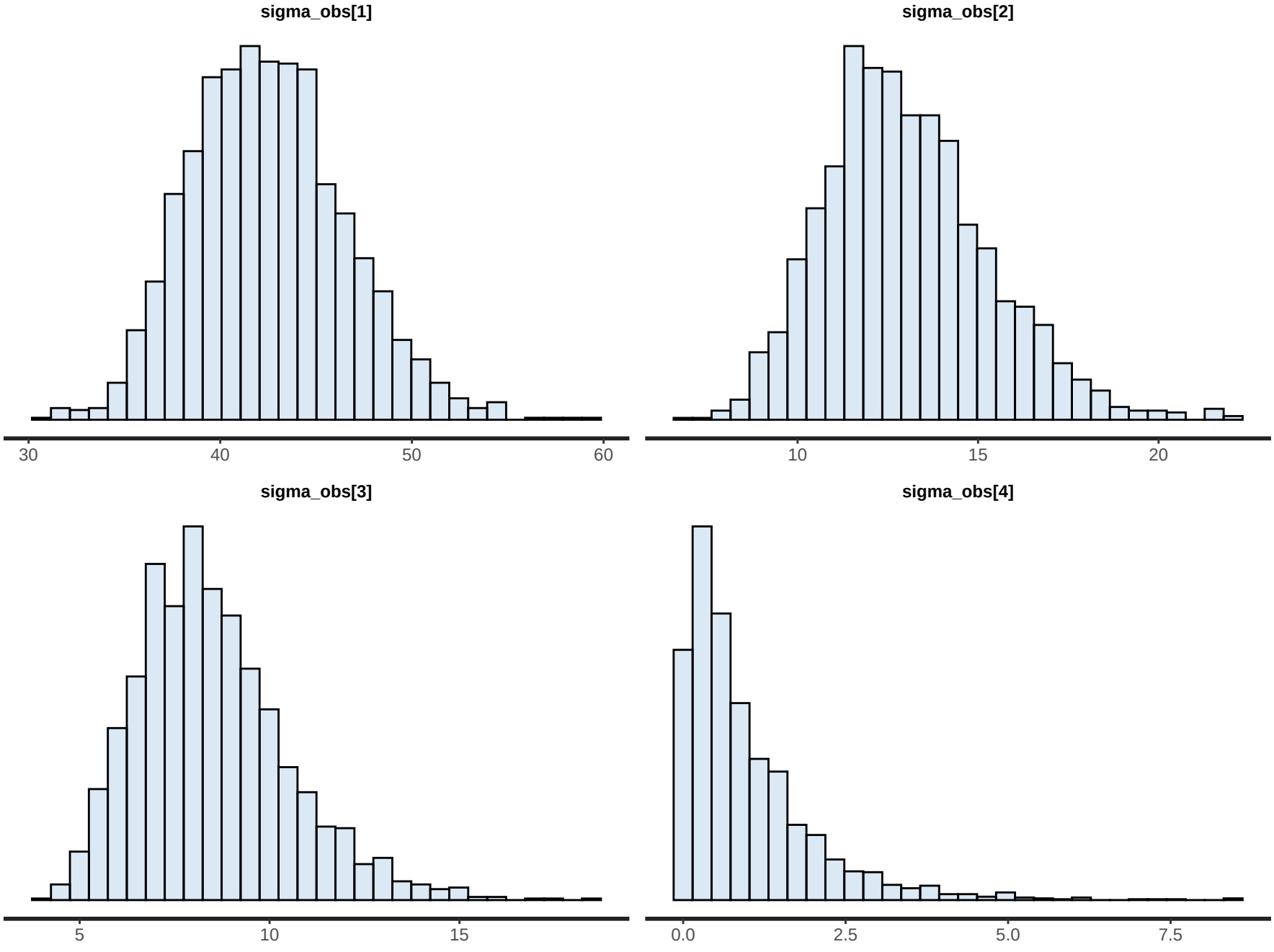

frac_PUI[1]
0.1
0.2
0.3
0.4
0.5


frac_PUI[2]
0.2
0.3
0.4
0.5


frac_PUI[3]
0.2
0.3
0.4
0.5


frac_PUI[4]
0.2
0.3
0.4
0.5


0
2
4
6
ini_exposed


sigma_obs[1]
30
40
50
60
sigma_obs[2]
10
15
20
sigma_obs[3]
5
10
15
sigma_obs[4]
0.0
2.5
5.0
7.5