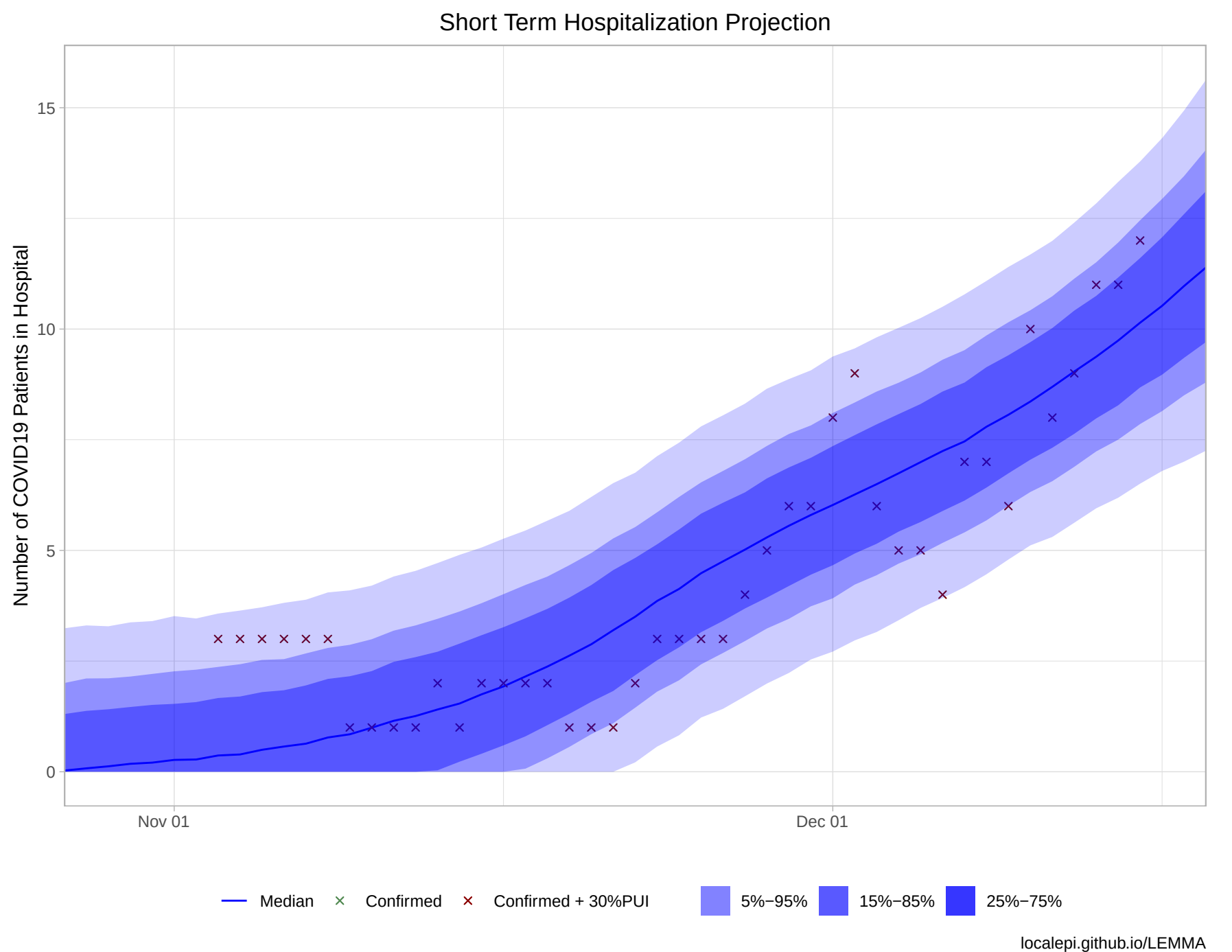
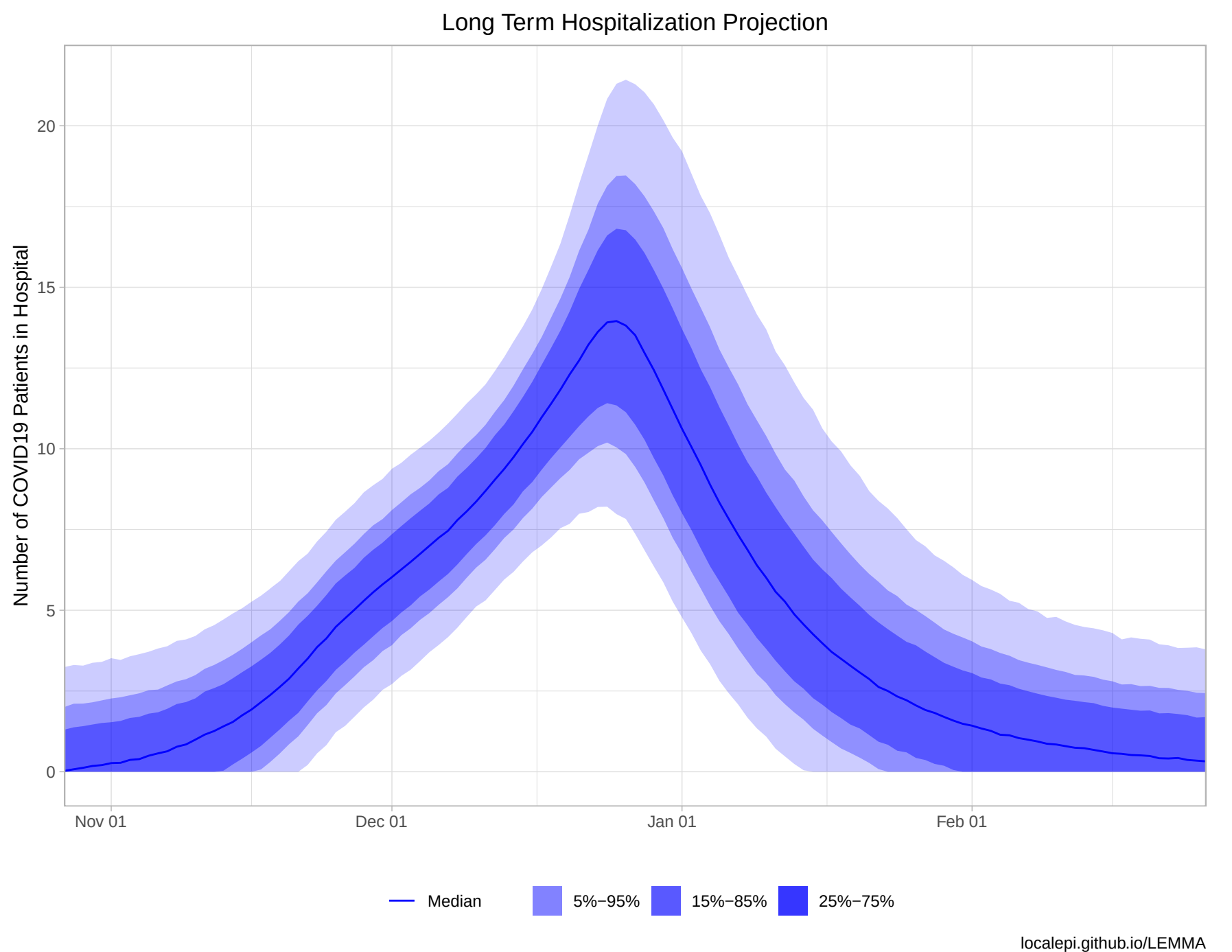
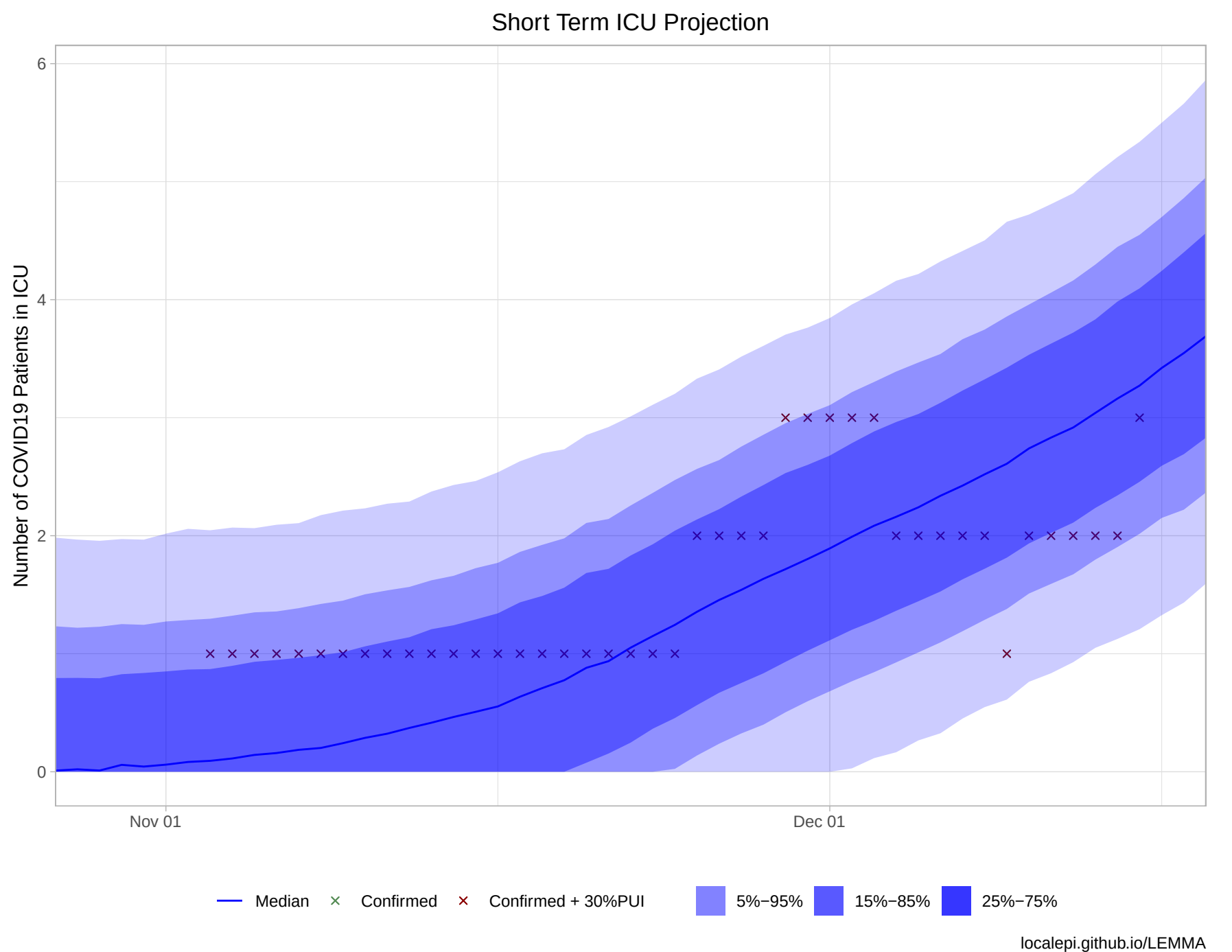
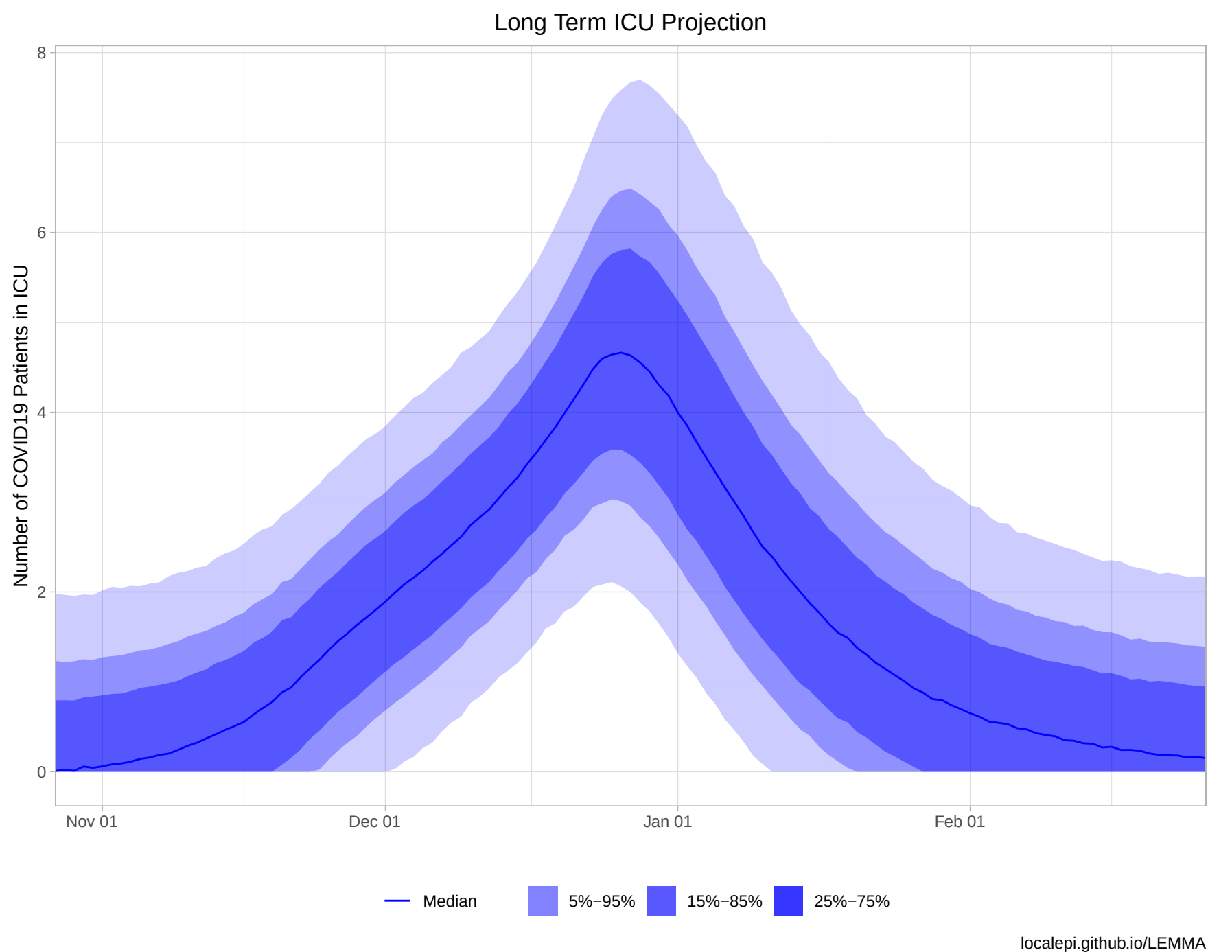
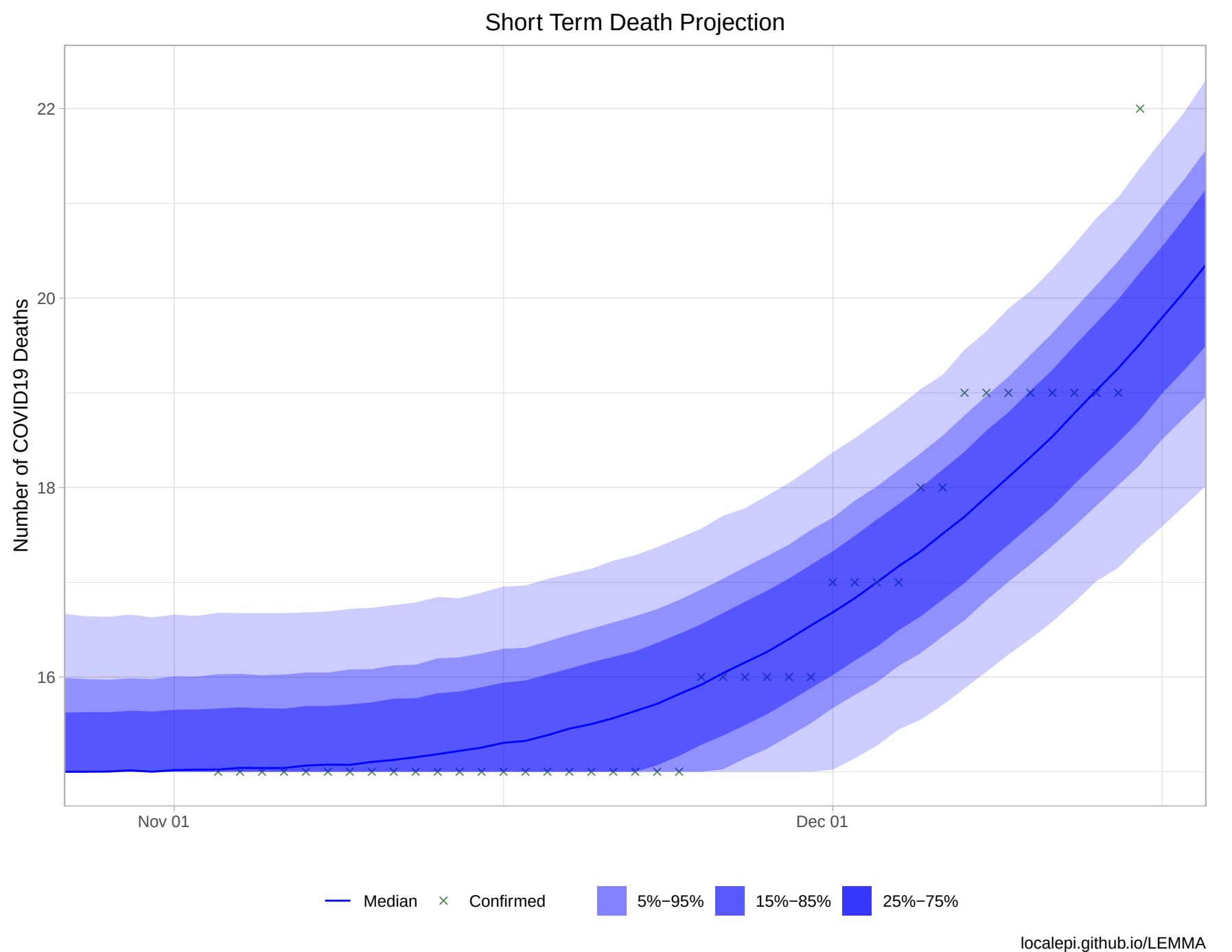
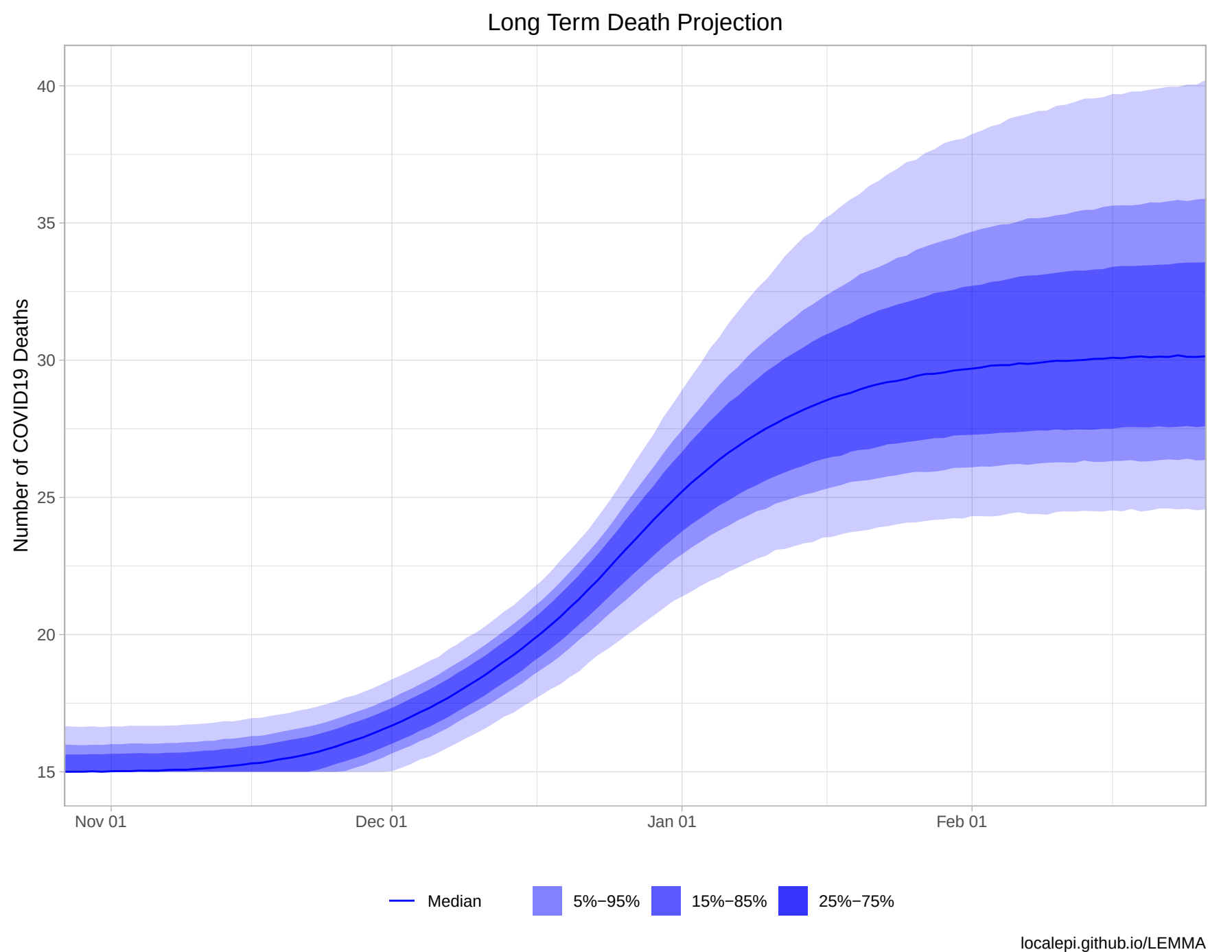

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
15
10
5
0
Nov 01
Dec 01
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

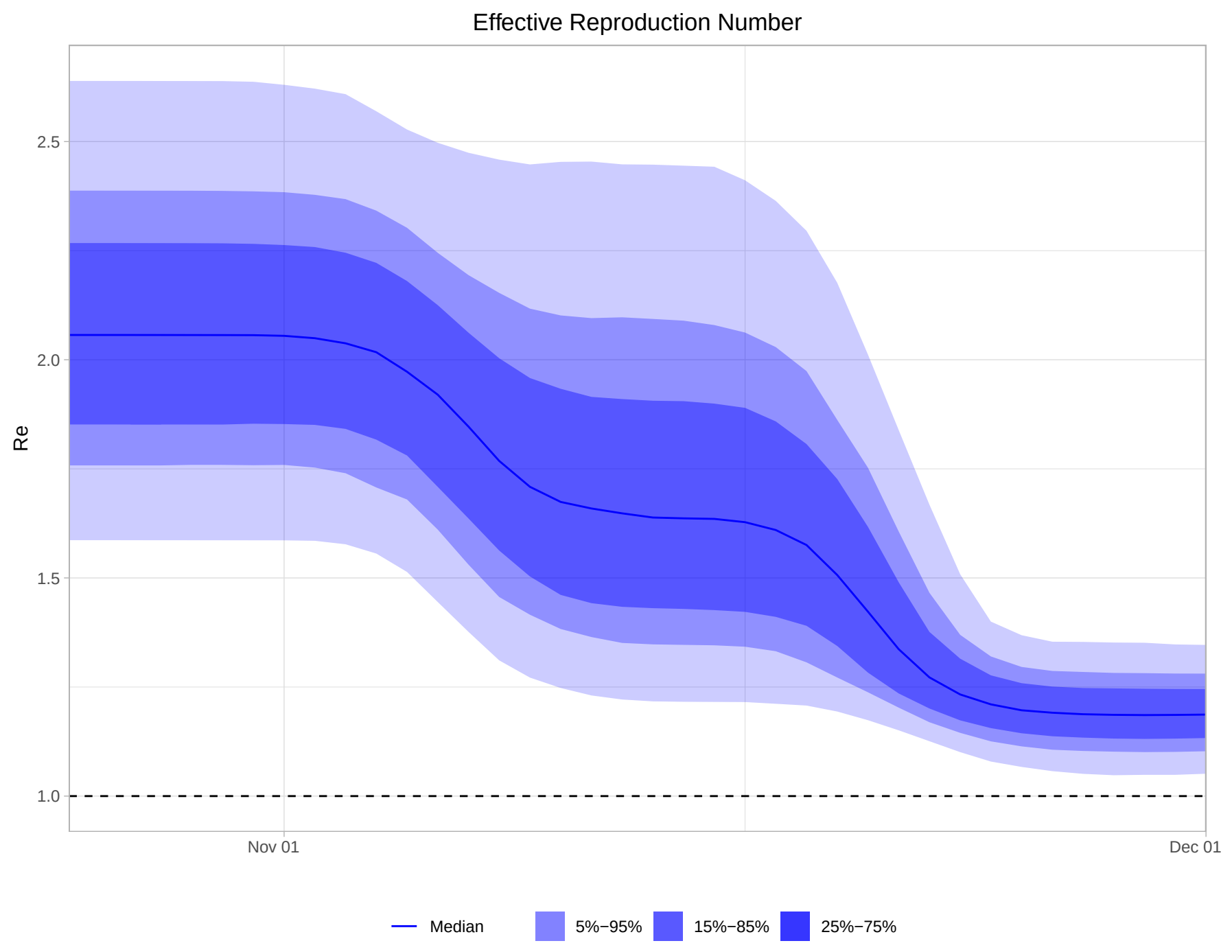

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
20
15
10
5
0
Nov 01
Dec 01
Jan 01
Feb 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


Short Term ICU Projection
Number of COVID19 Patients in ICU
6
4
2
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
8
6
4
2
0
Nov 01
Dec 01
Jan 01
Feb 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

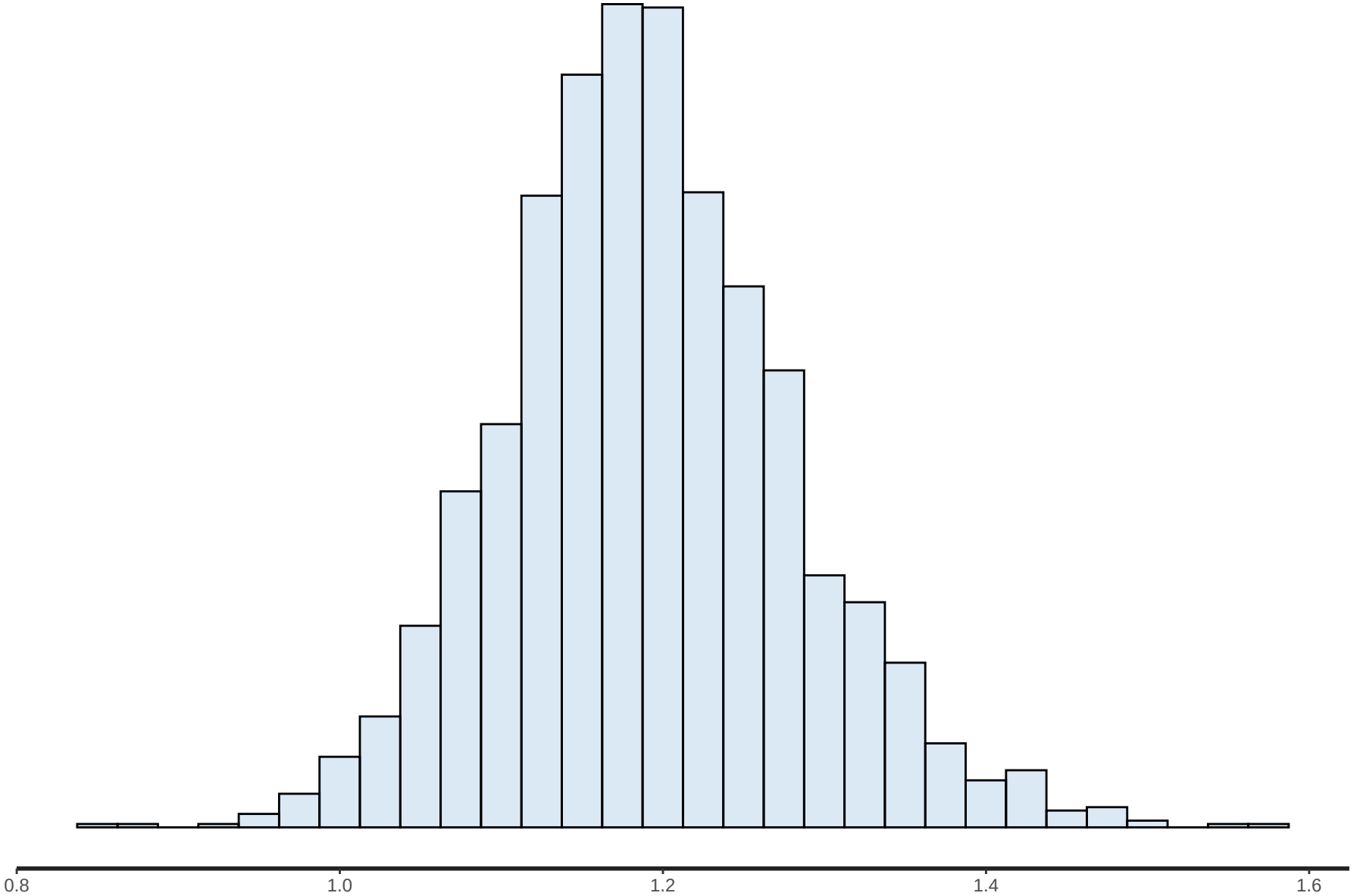

Short Term Death Projection
Number of COVID19 Deaths
22
20
18
16
Nov 01
Dec 01
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

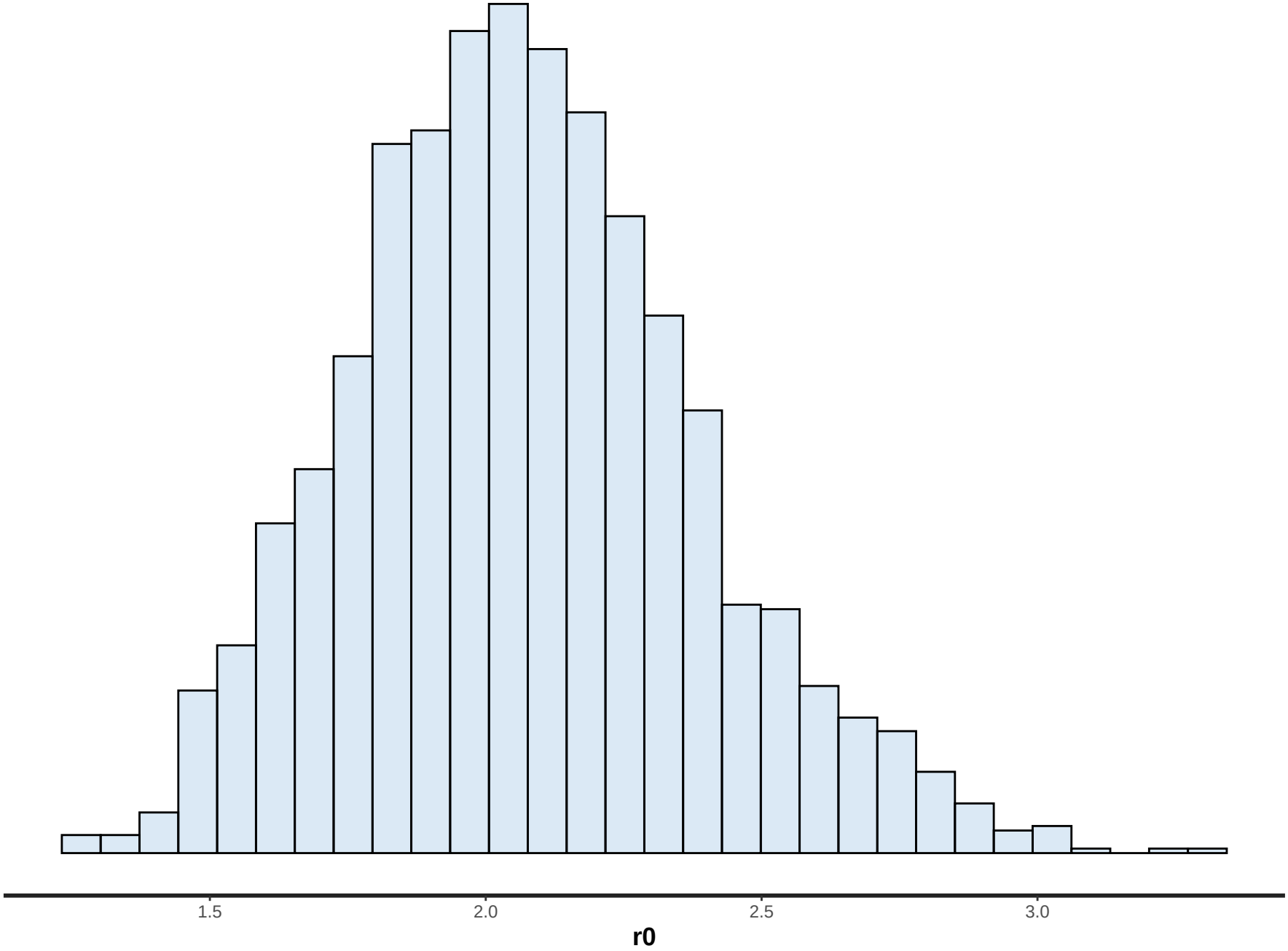

Long Term Death Projection
Number of COVID19 Deaths
40
35
30
25
20
15
Nov 01
Dec 01
Jan 01
Feb 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

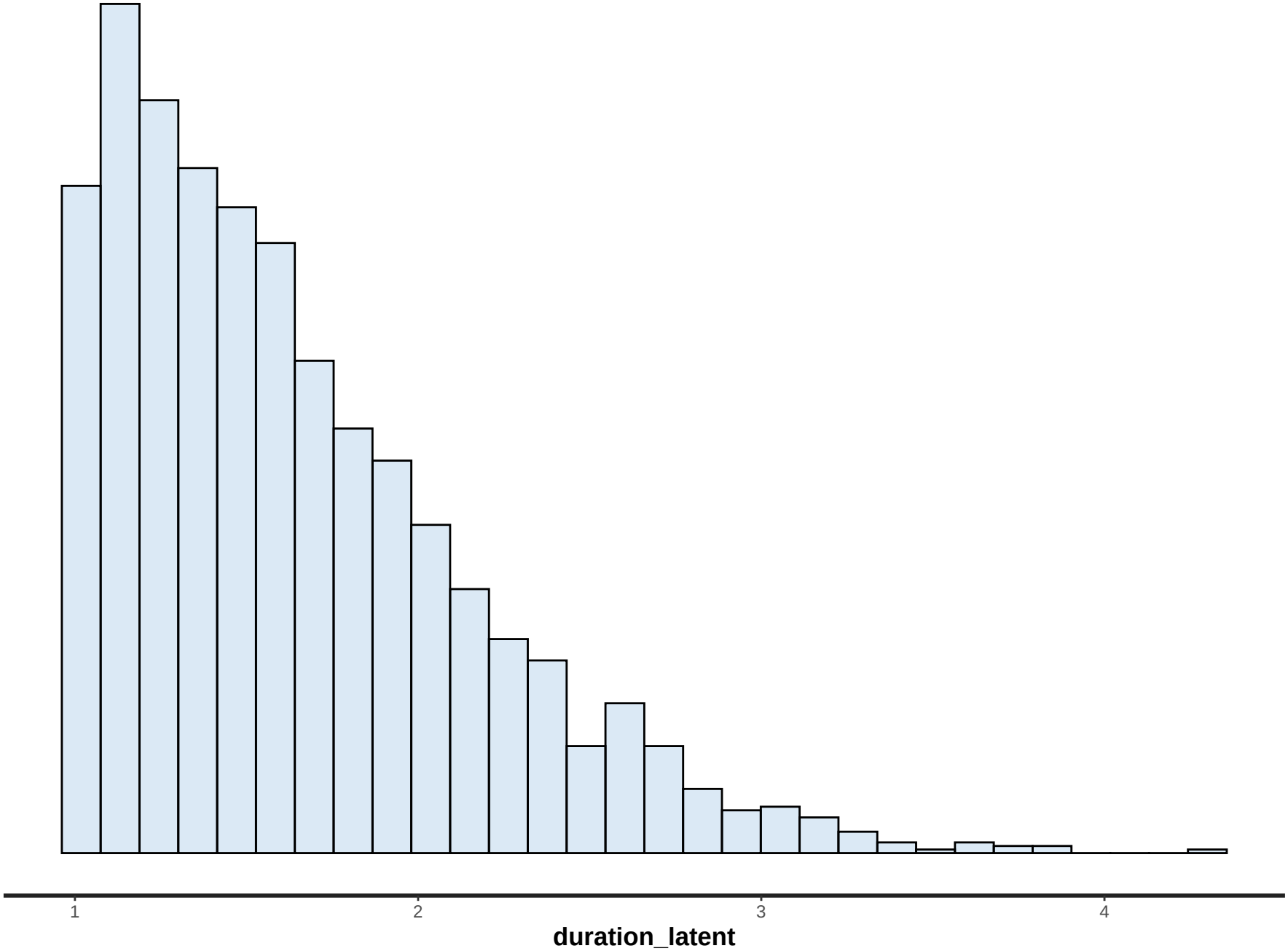

Effective Reproduction Number
Re
2.5
2.0
1.5
1.0
Nov 01
Dec 01
Median
5%−95%
15%−85%
25%−75%

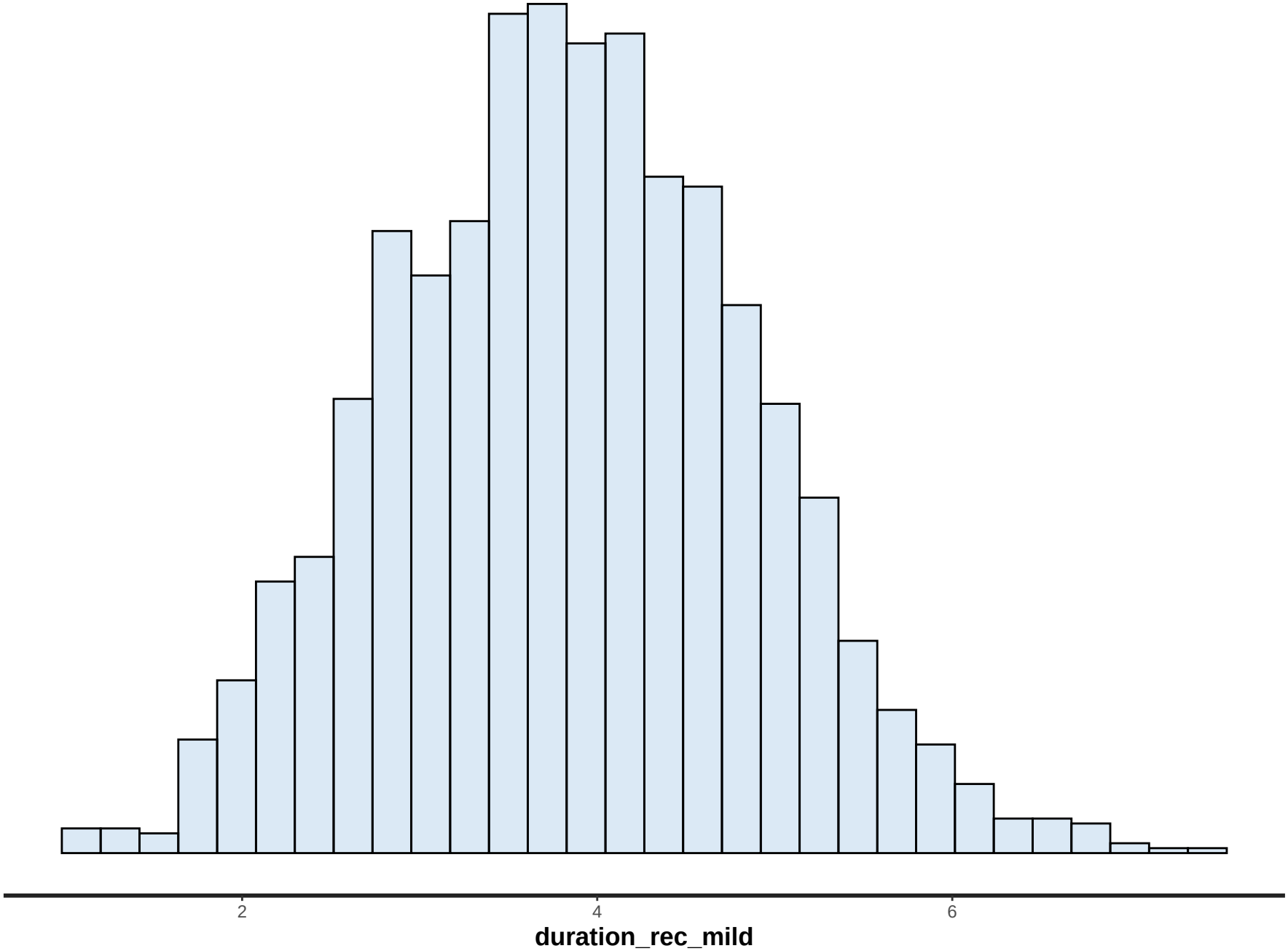
Rt as of 2020−12−01

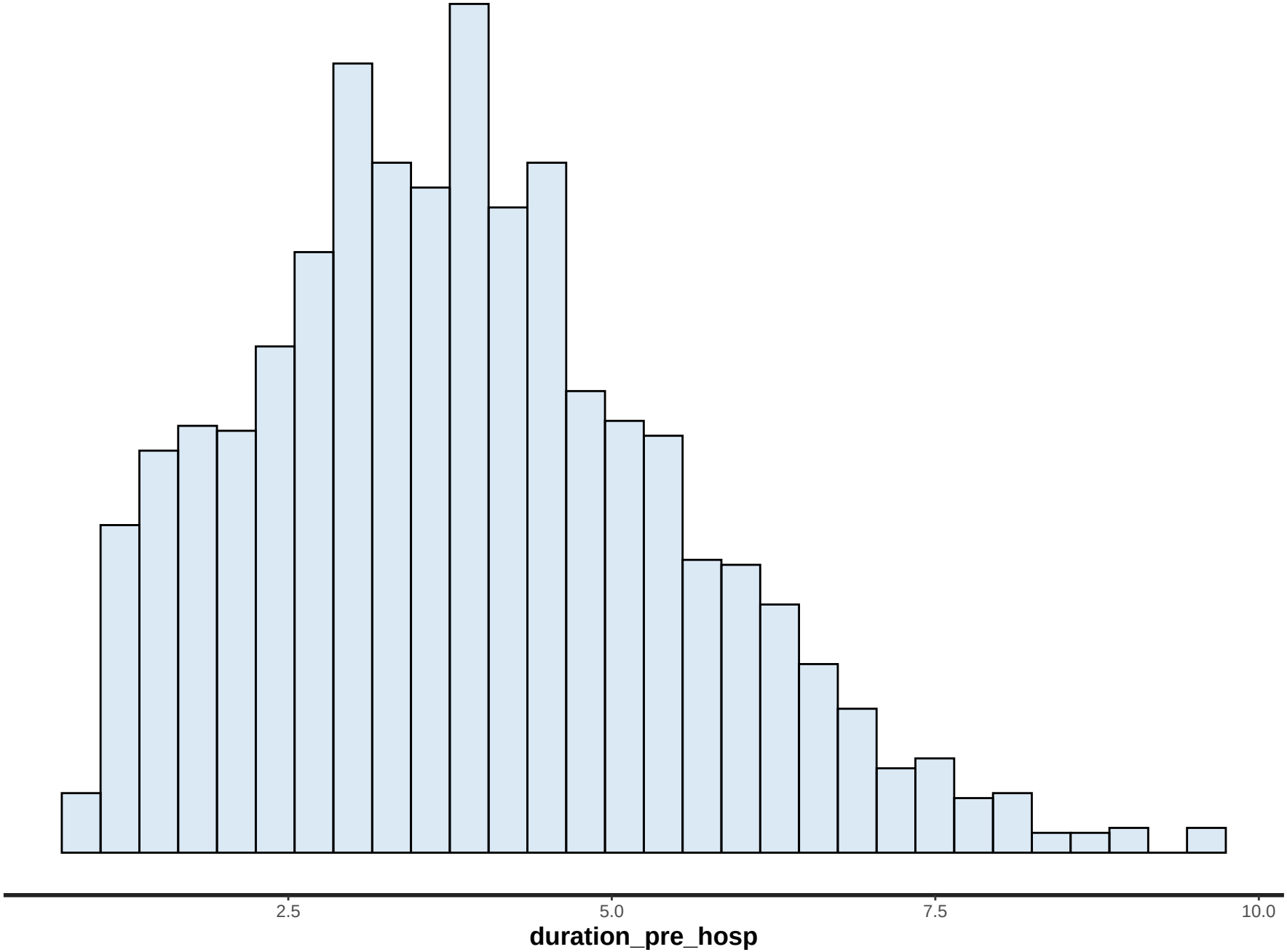
5%	10%	25%	50%	75%	90%	95%
1.05	1.08	1.13	1.19	1.25	1.31	1.35

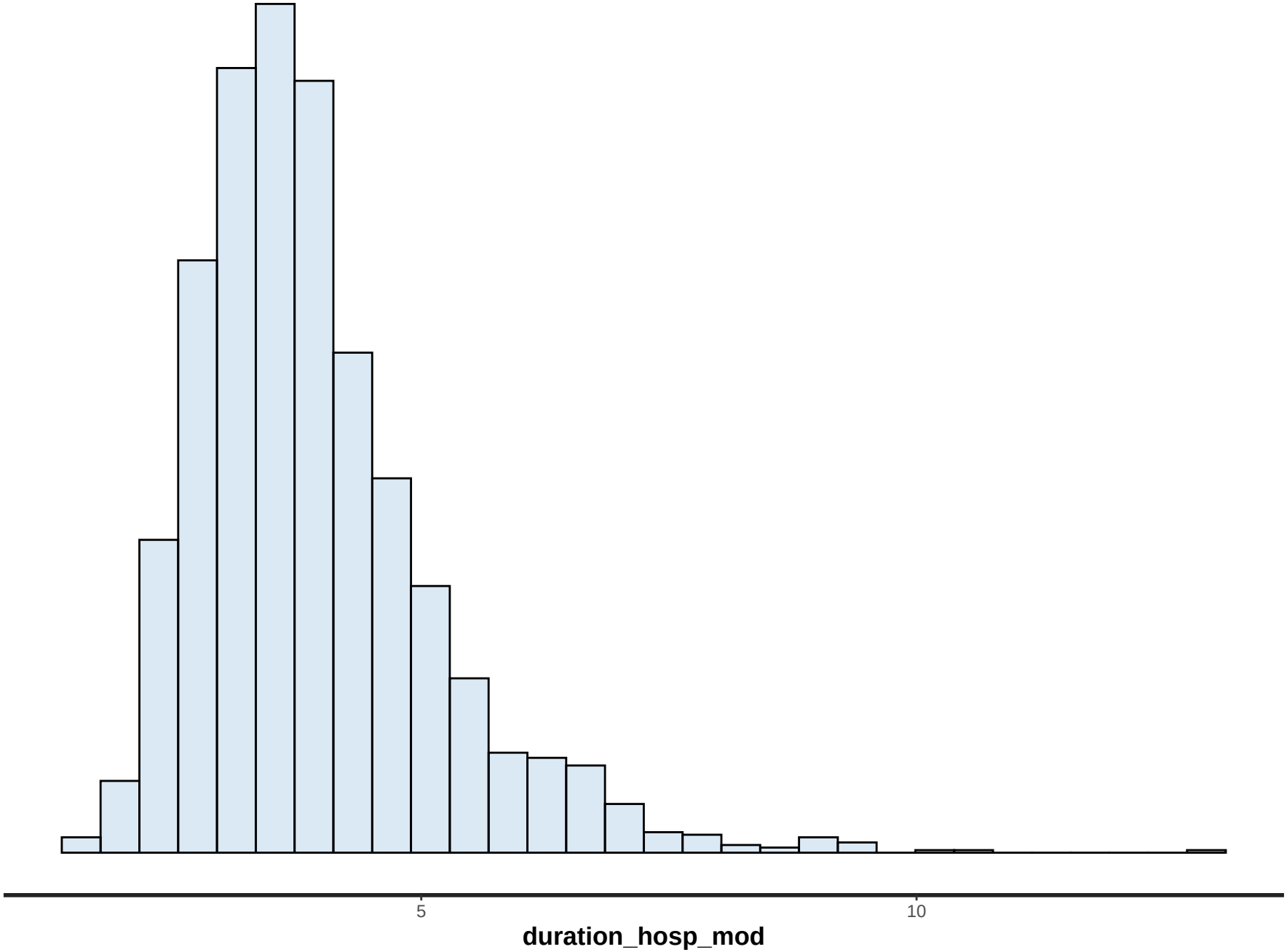


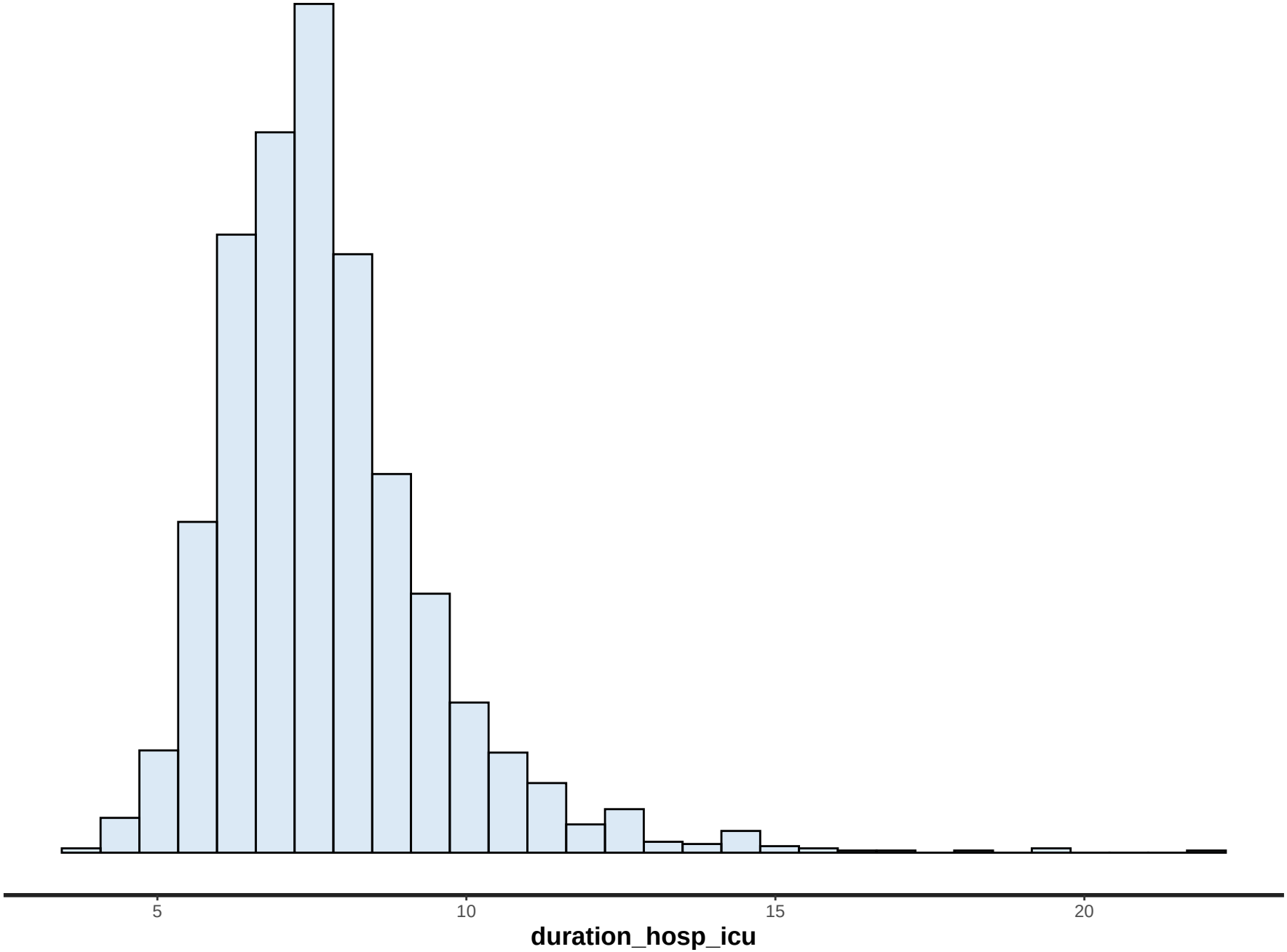

1.5
2.0
2.5
3.0
r0

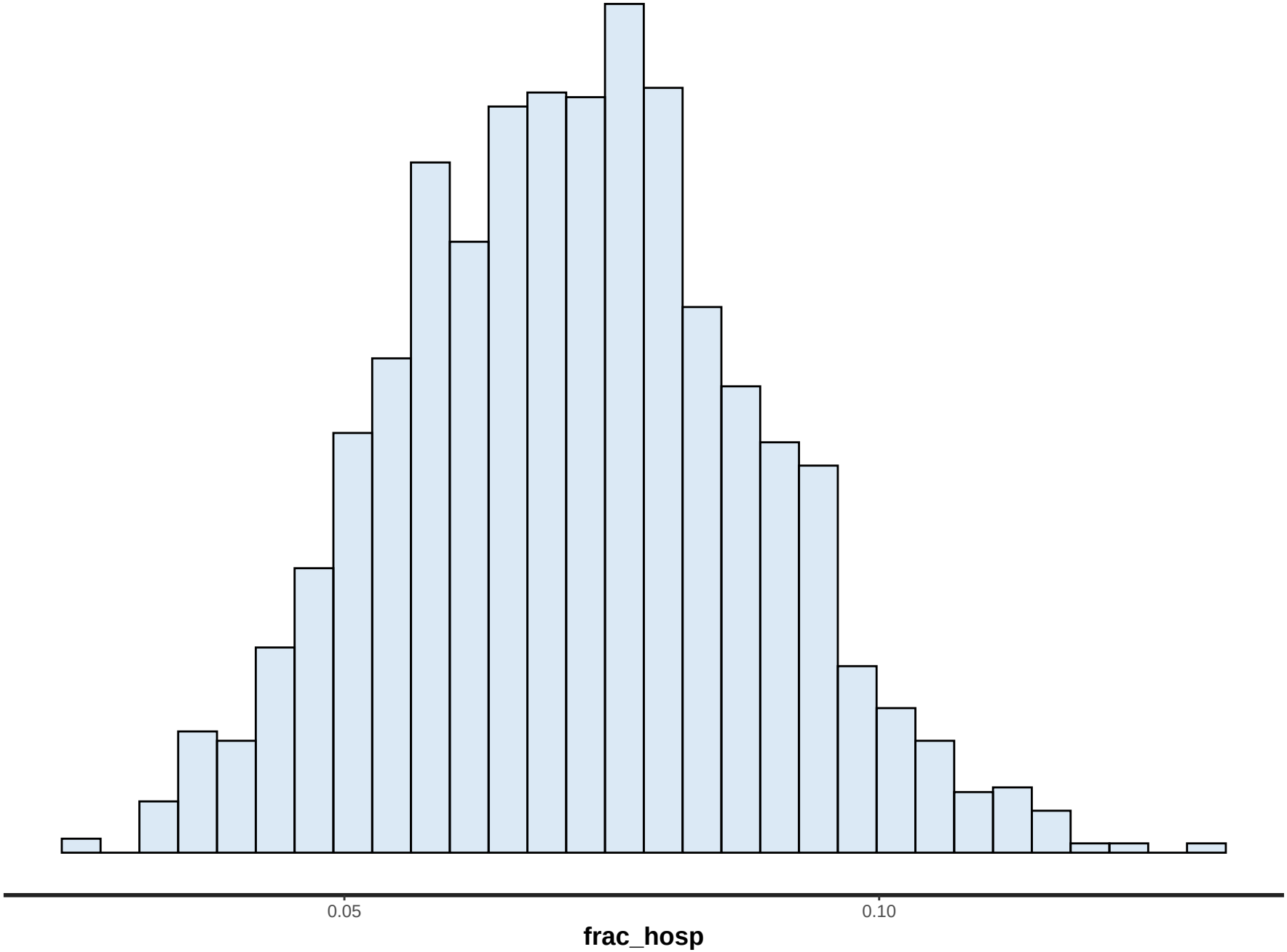

1
2
3
4
duration_latent

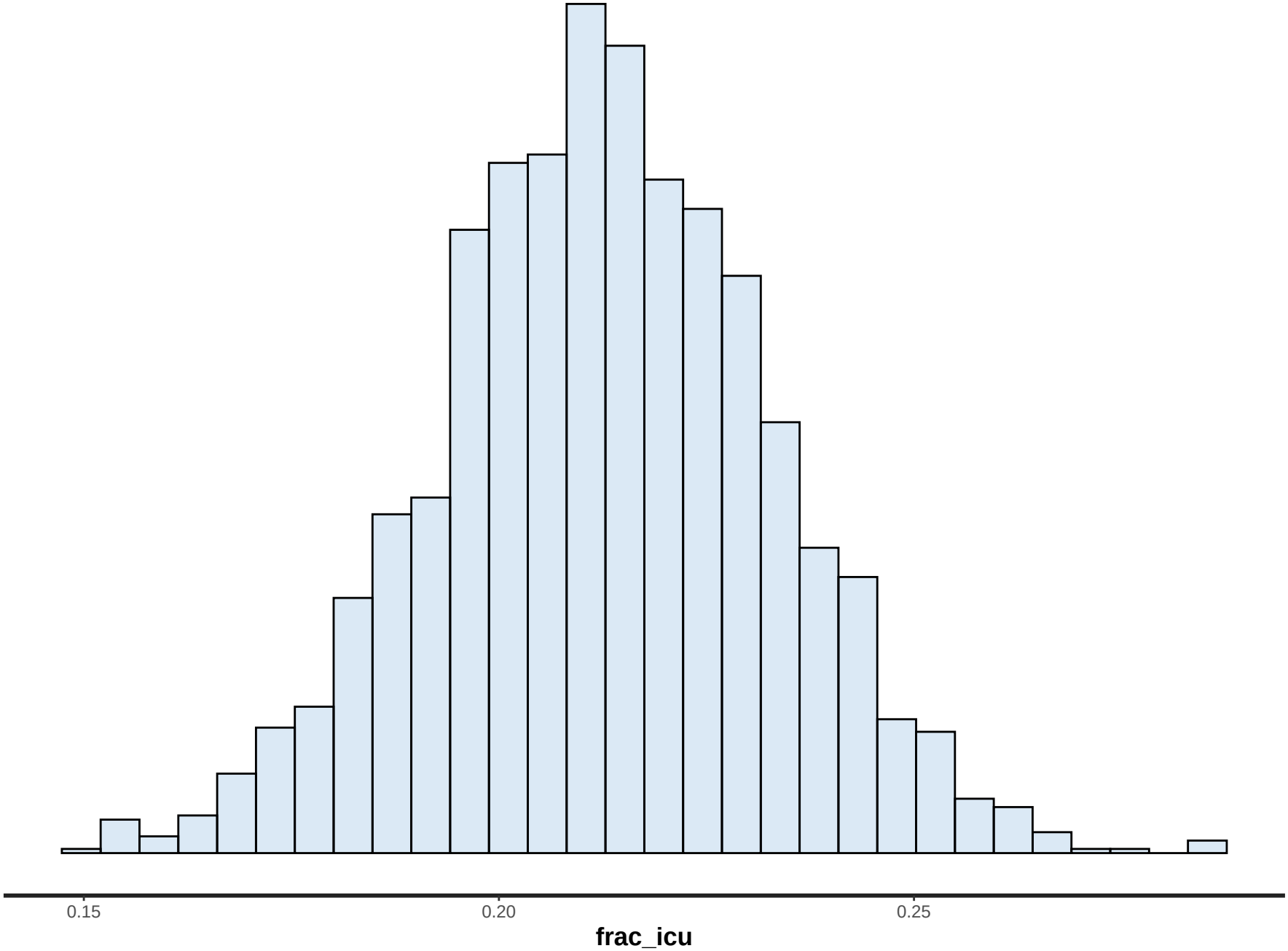

2
4
6
duration_rec_mild

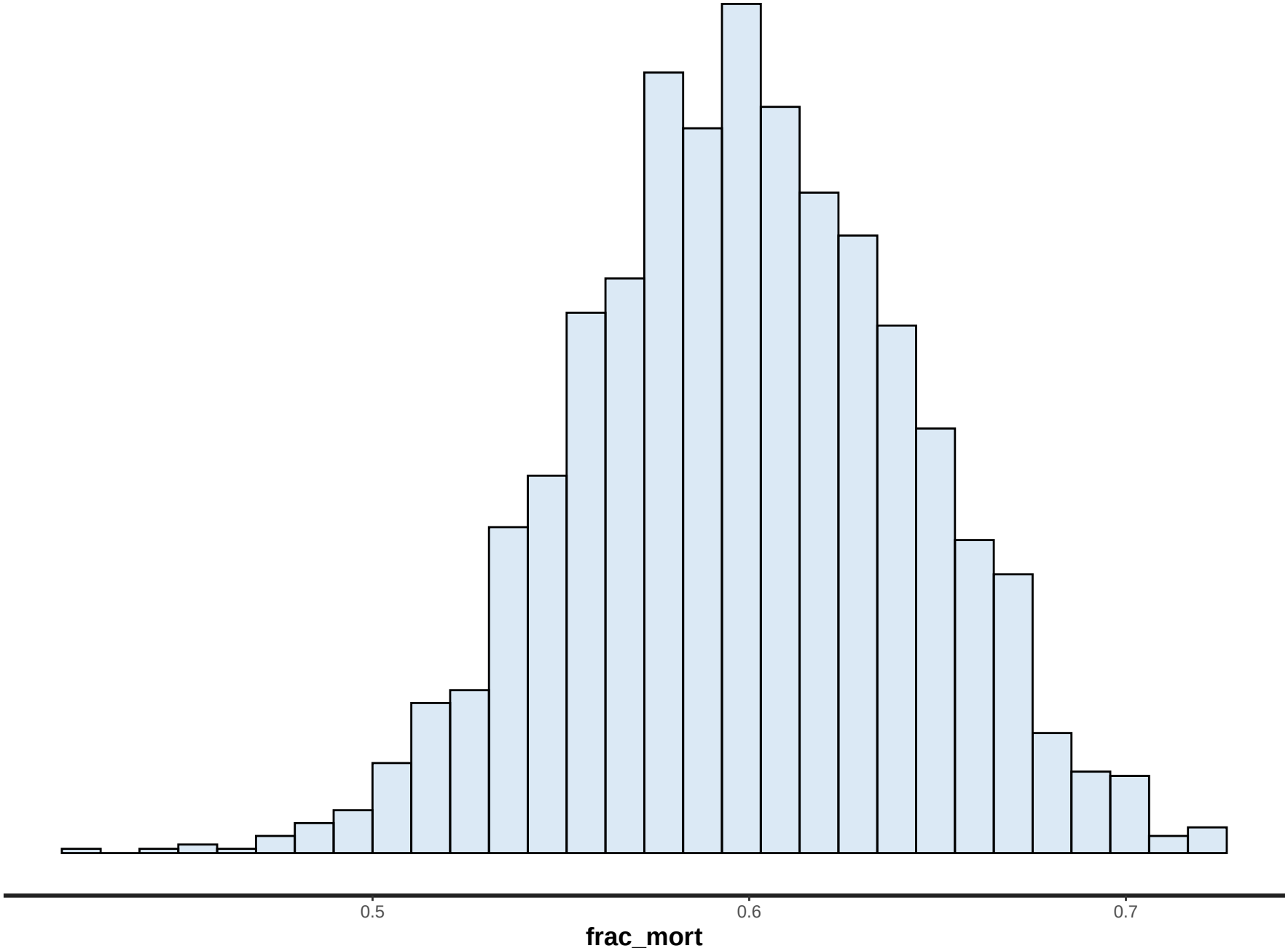

2.5
5.0
7.5
10.0
duration_pre_hosp

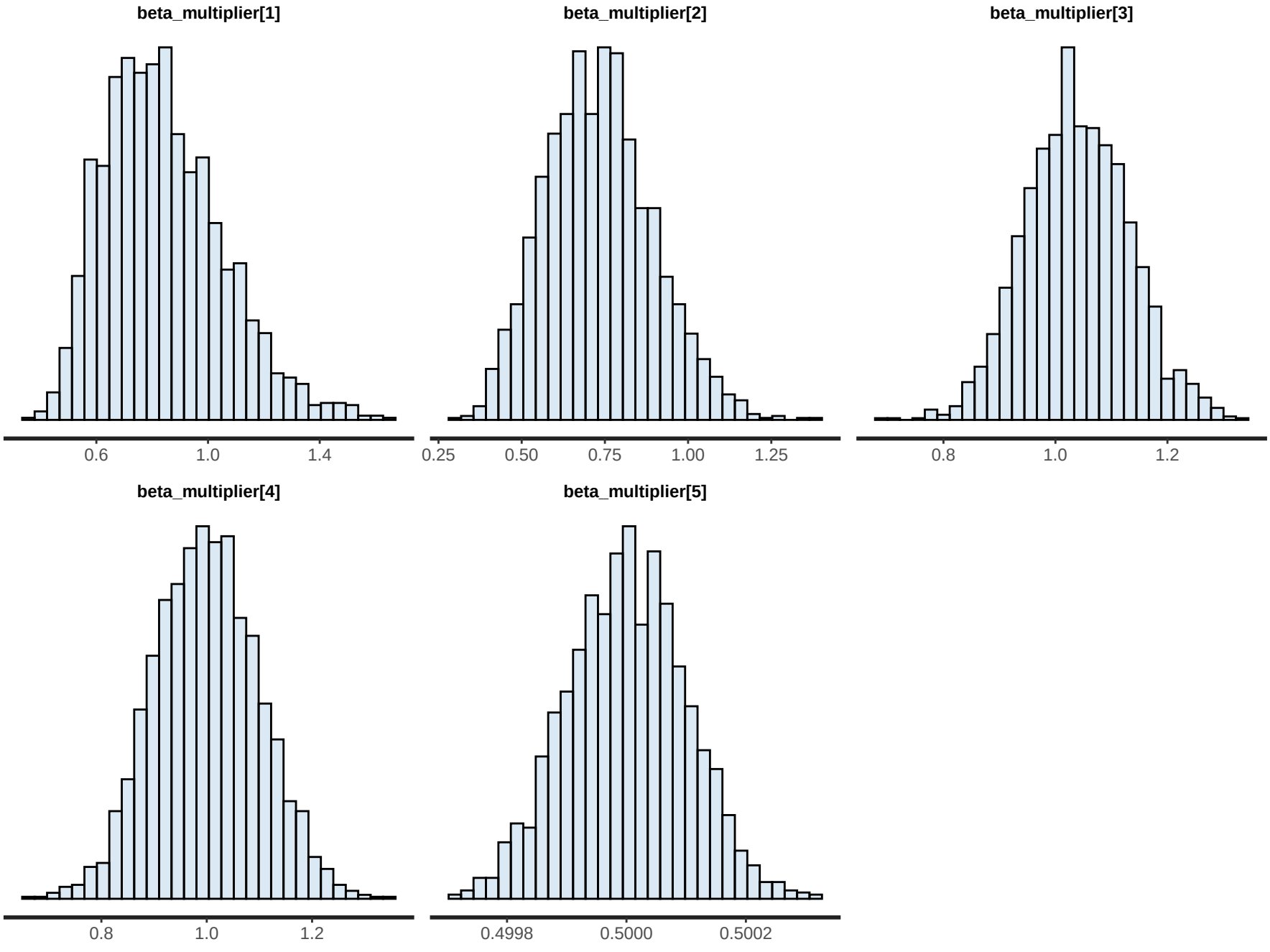

5
10
duration_hosp_mod

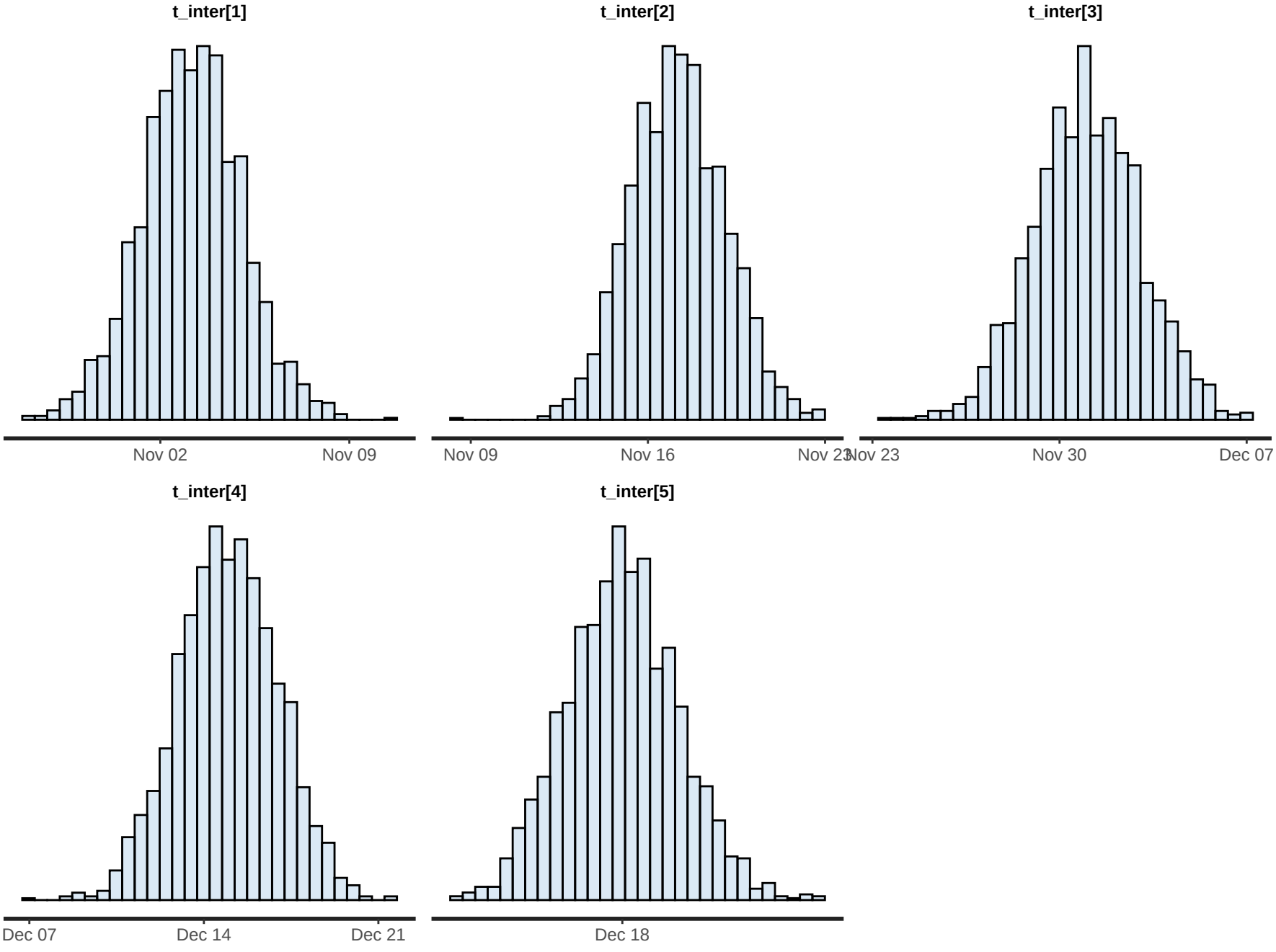

5
10
15
20
duration_hosp_icu

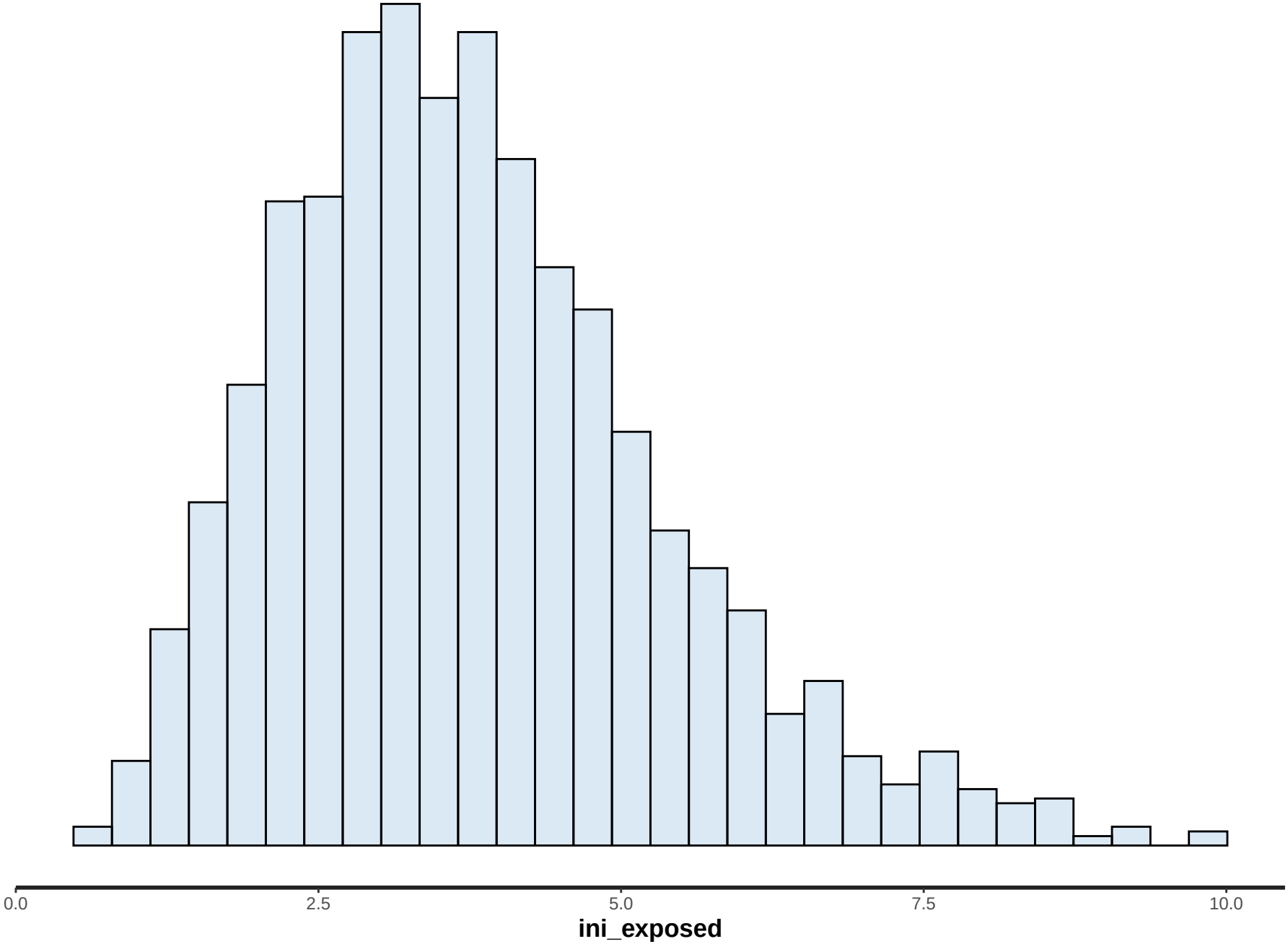

0.05
0.10
frac_hosp

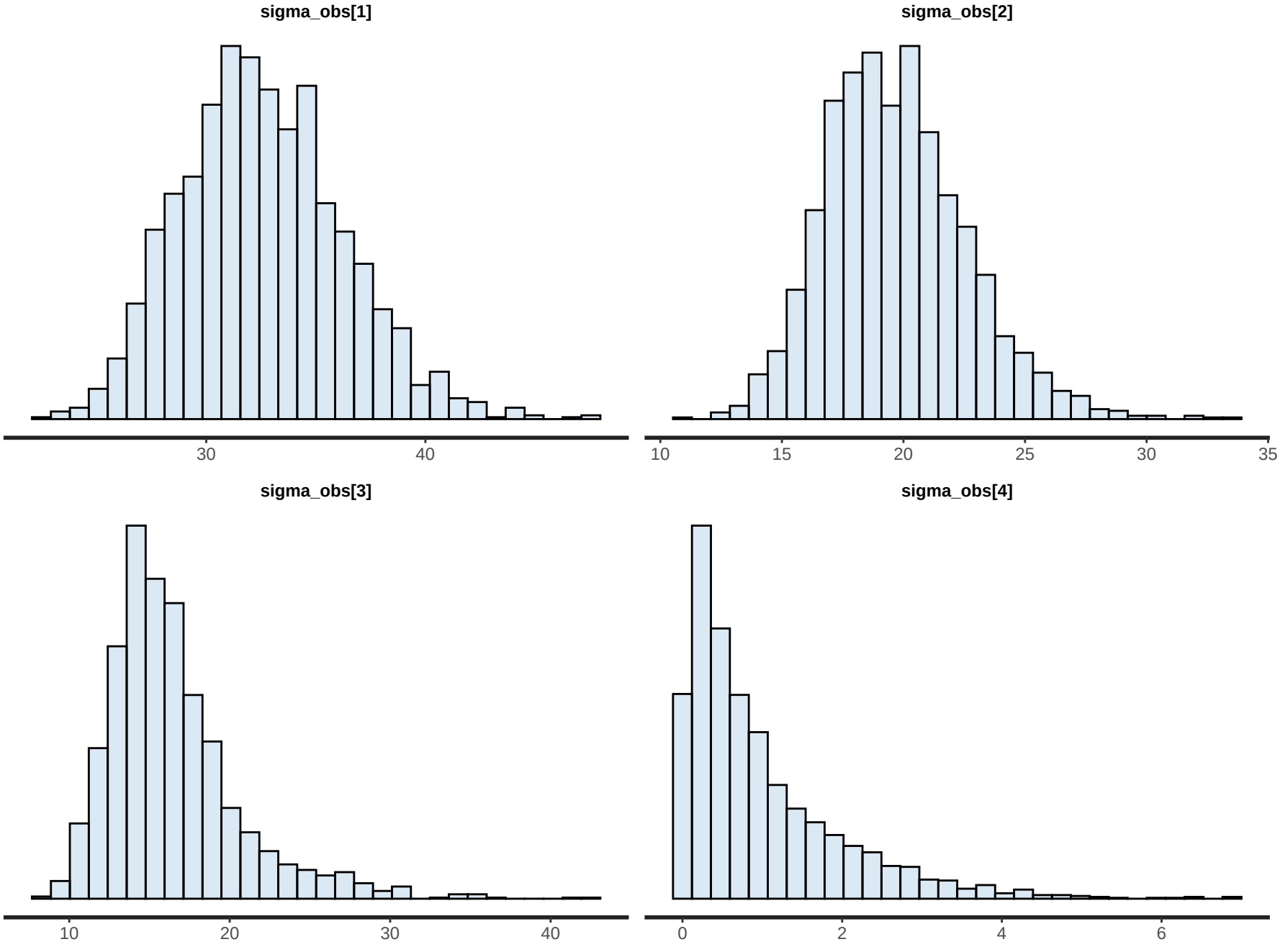

0.15
0.20
0.25
frac_icu


0.5
0.6
0.7
frac_mort


beta_multiplier[1]
0.6
1.0
1.4
beta_multiplier[2]
0.25
0.50
0.75
1.00
1.25
beta_multiplier[3]
0.8
1.0
1.2
beta_multiplier[4]
0.8
1.0
1.2
beta_multiplier[5]
0.4998
0.5000
0.5002


t_inter[1]
Nov 02
Nov 09
t_inter[2]
Nov 09
Nov 16
Nov 23
t_inter[3]
Nov 23
Nov 30
Dec 07
t_inter[4]
Dec 07
Dec 14
Dec 21
t_inter[5]
Dec 18


0.0
2.5
5.0
7.5
10.0
ini_exposed


sigma_obs[1]
30
40
sigma_obs[2]
10
15
20
25
30
35
sigma_obs[3]
10
20
30
40
sigma_obs[4]
0
2
4
6