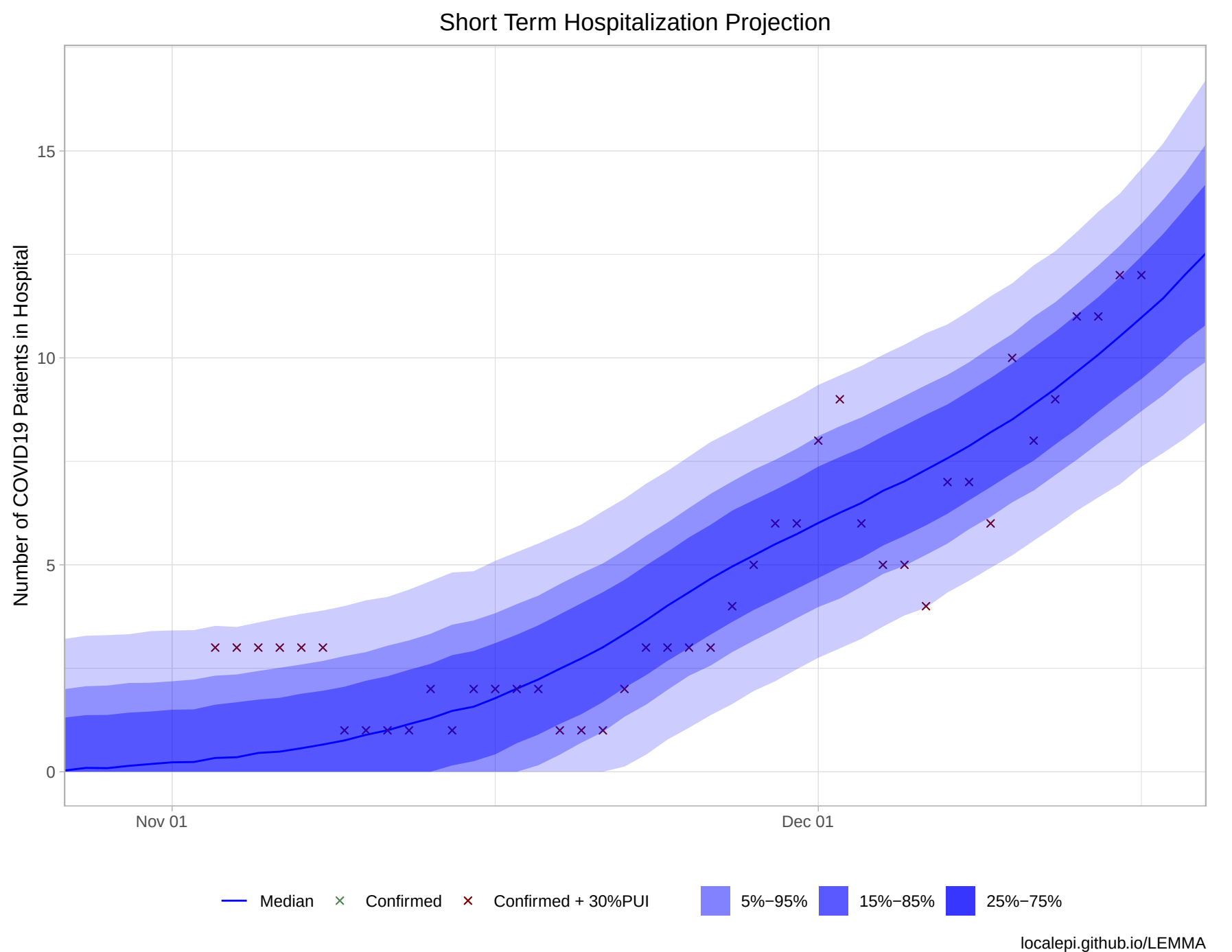
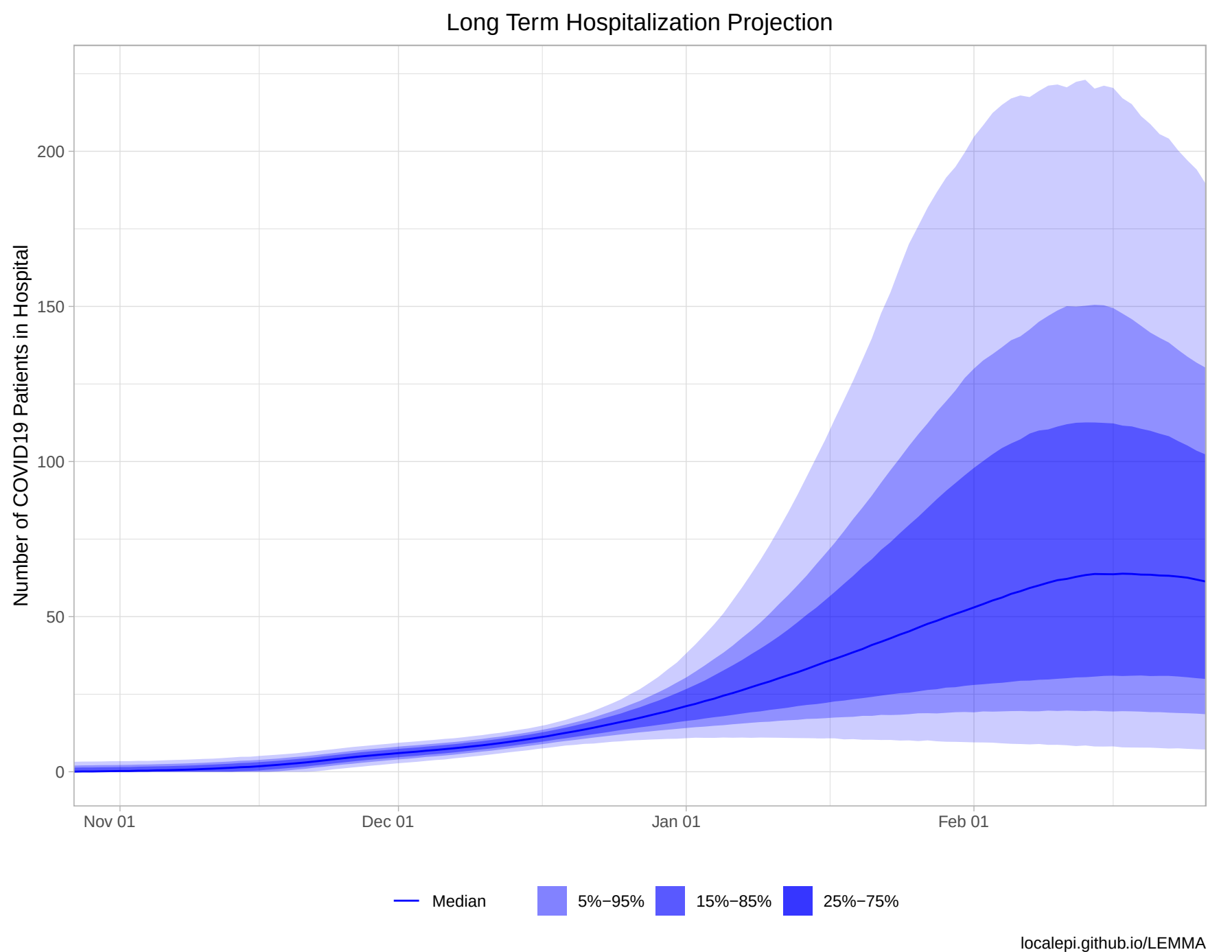
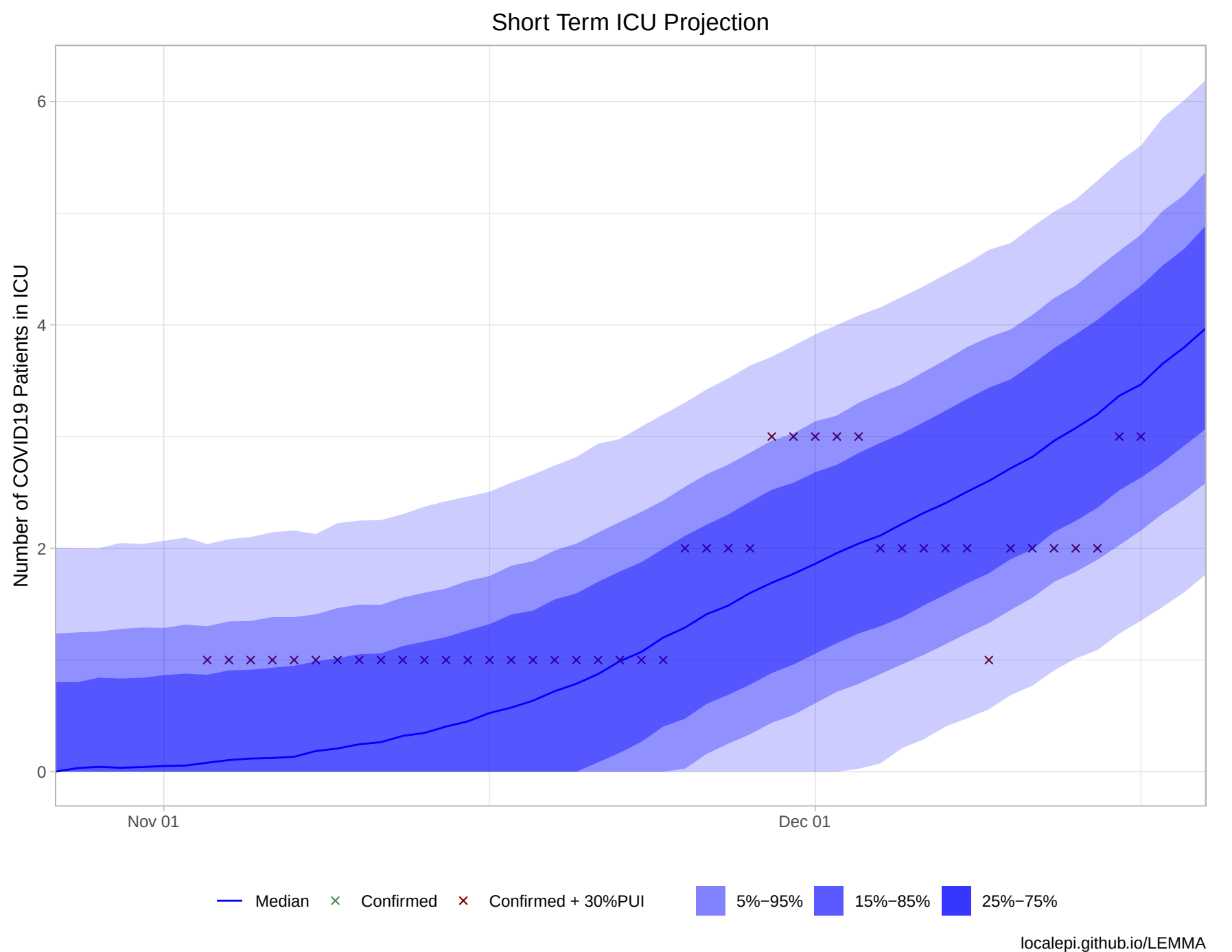
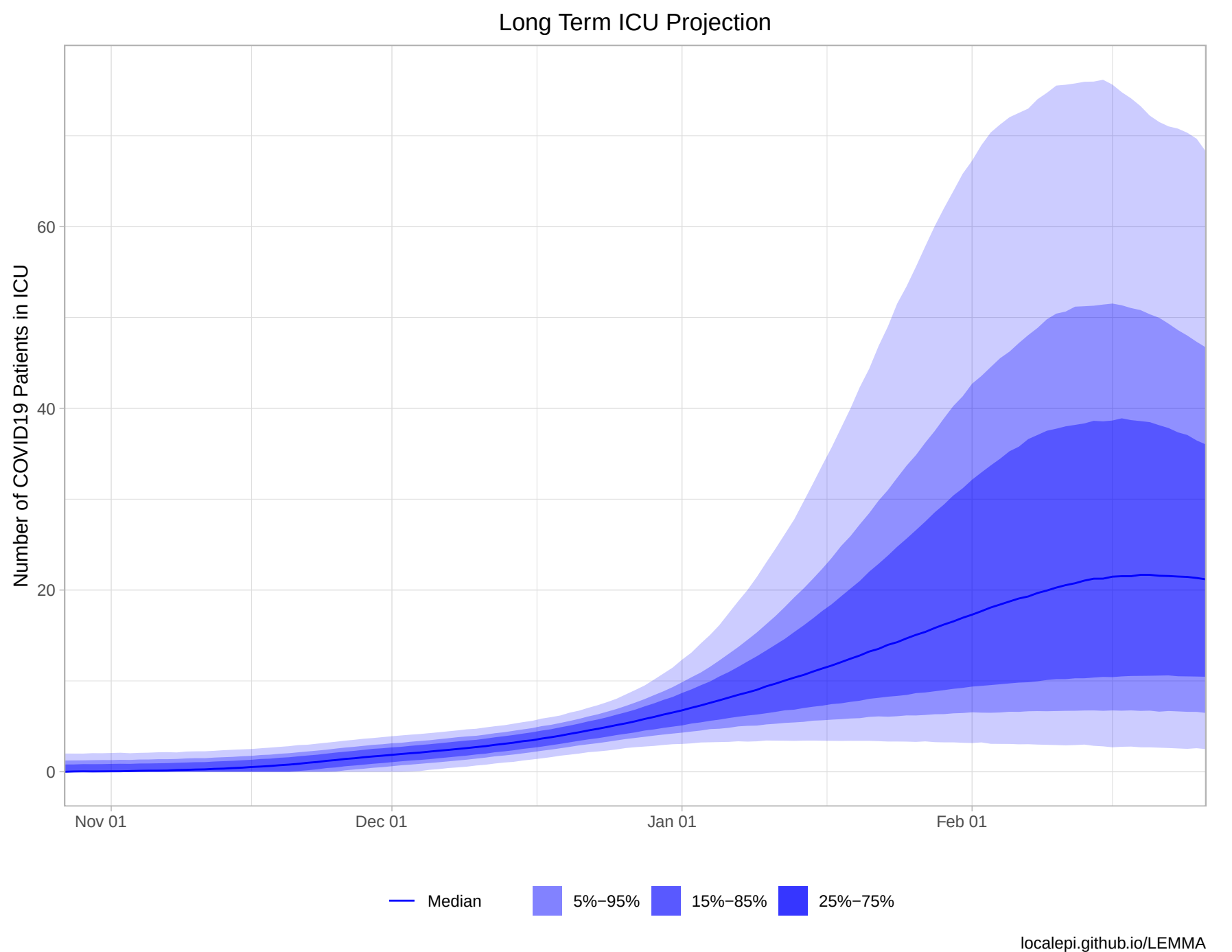
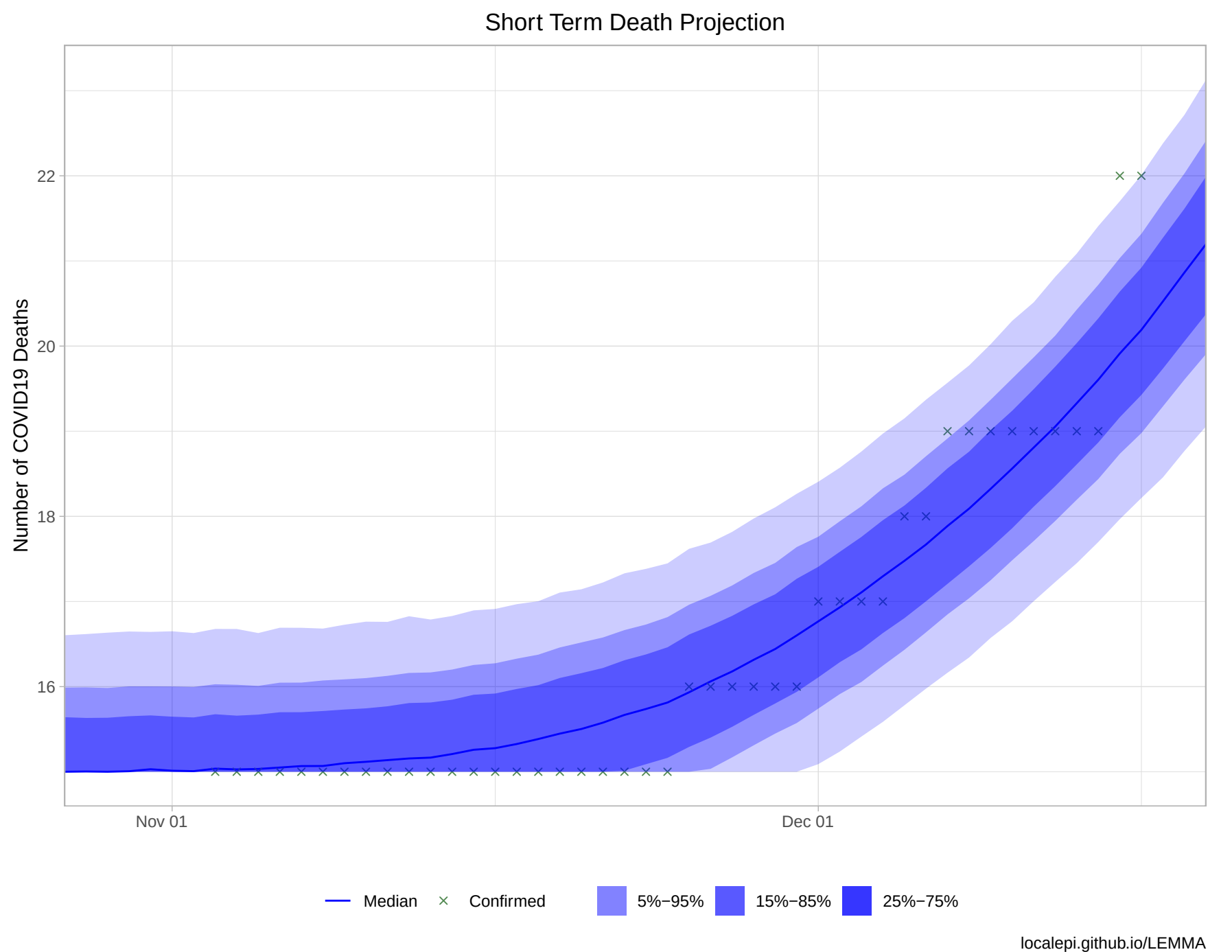
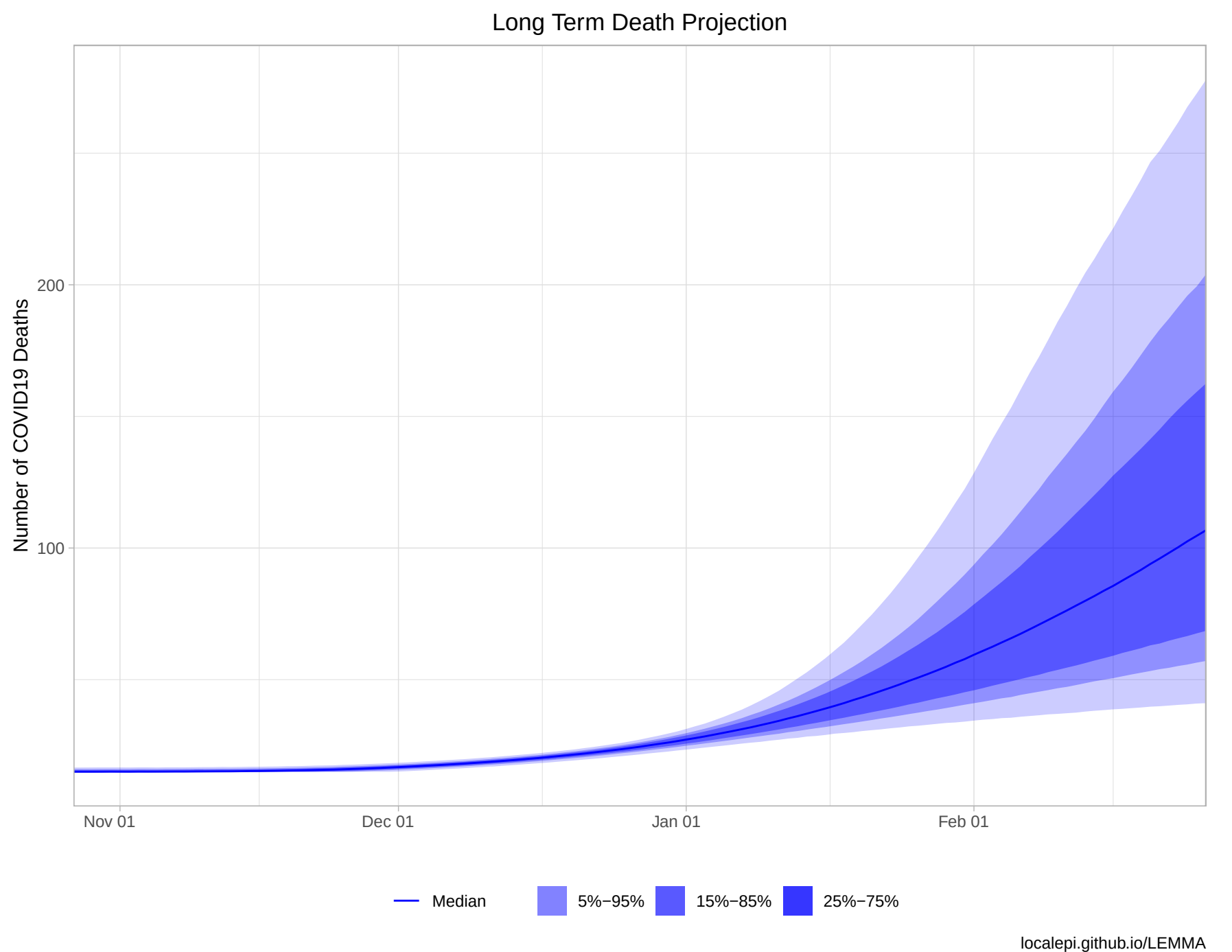

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
5
10
15
Nov 01
Dec 01
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

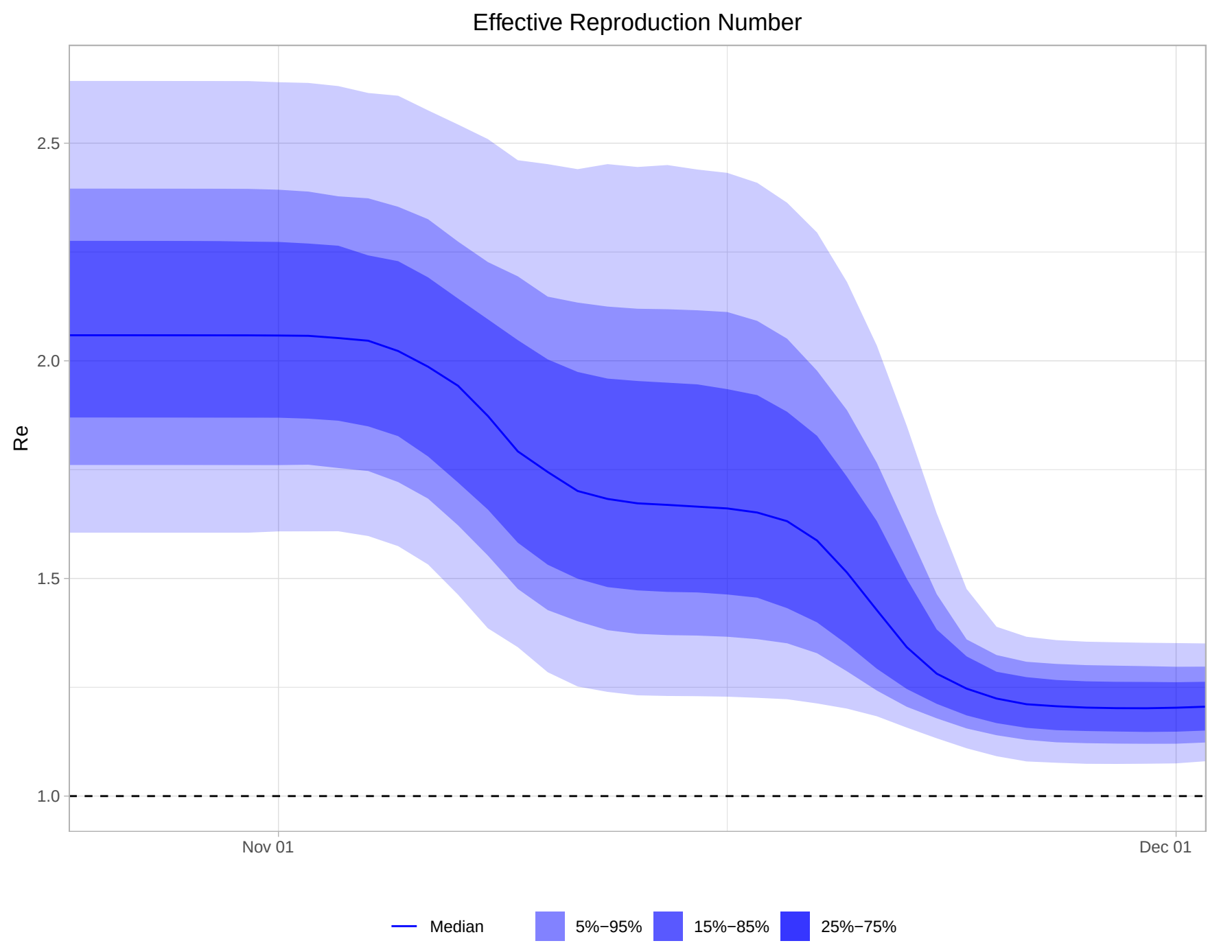

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
200
150
100
50
0
Nov 01
Dec 01
Jan 01
Feb 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


Short Term ICU Projection
Number of COVID19 Patients in ICU
0
2
4
6
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
0
20
40
60
Nov 01
Dec 01
Jan 01
Feb 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

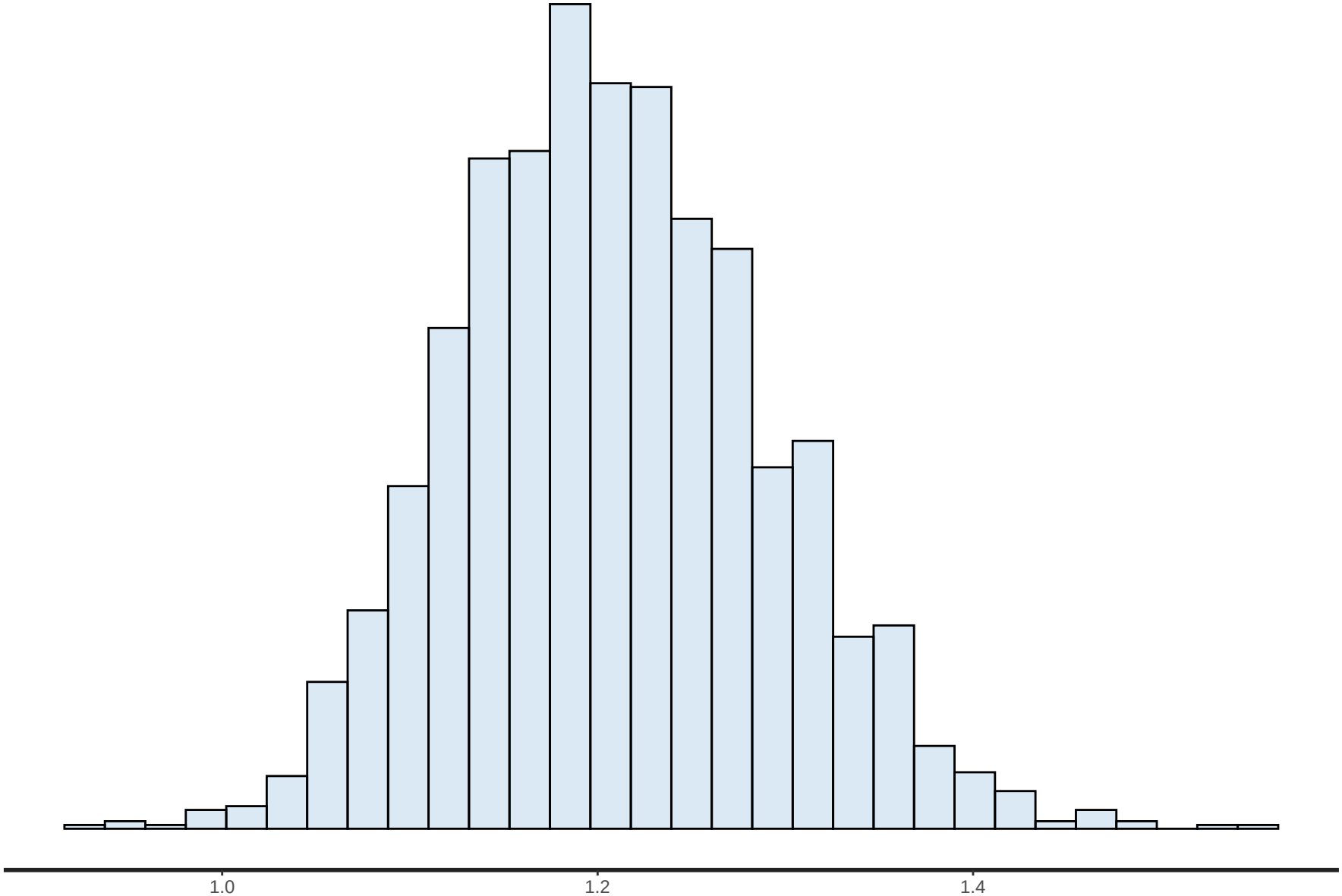

Short Term Death Projection
Number of COVID19 Deaths
22
20
18
16
Nov 01
Dec 01
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

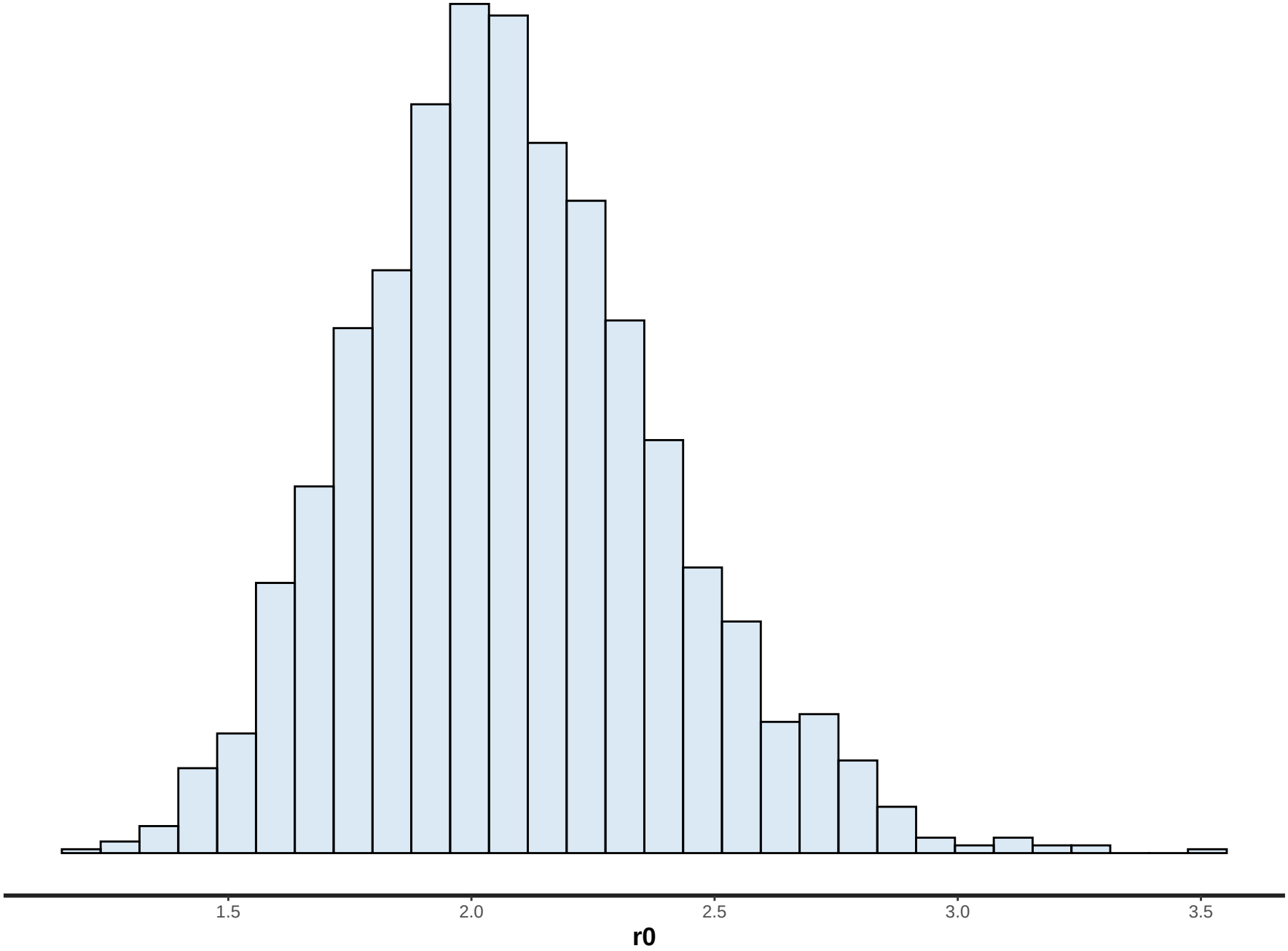

Long Term Death Projection
Number of COVID19 Deaths
200
100
Nov 01
Dec 01
Jan 01
Feb 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

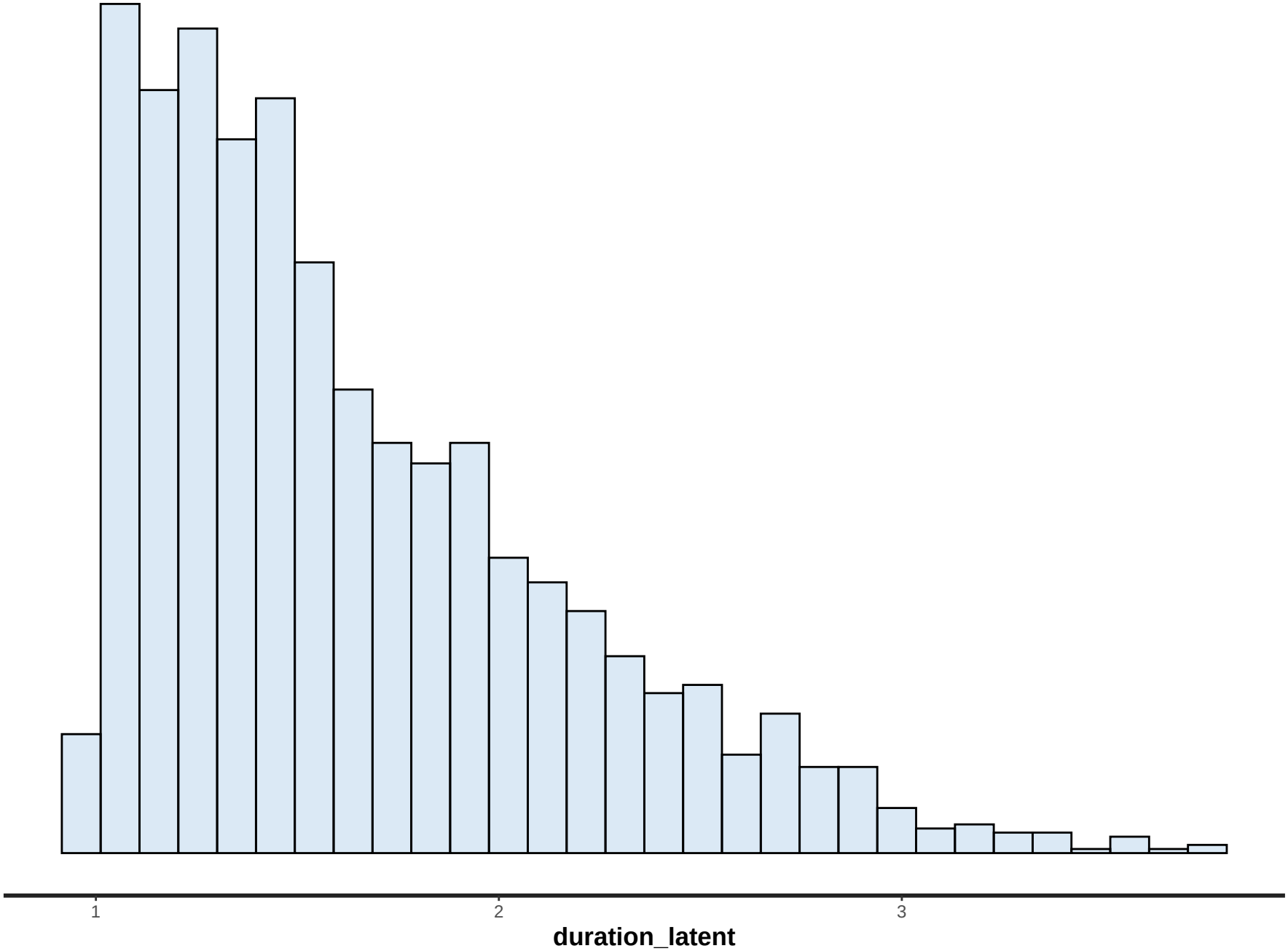

Effective Reproduction Number
Re
2.5
2.0
1.5
1.0
Nov 01
Dec 01
Median
5%−95%
15%−85%
25%−75%

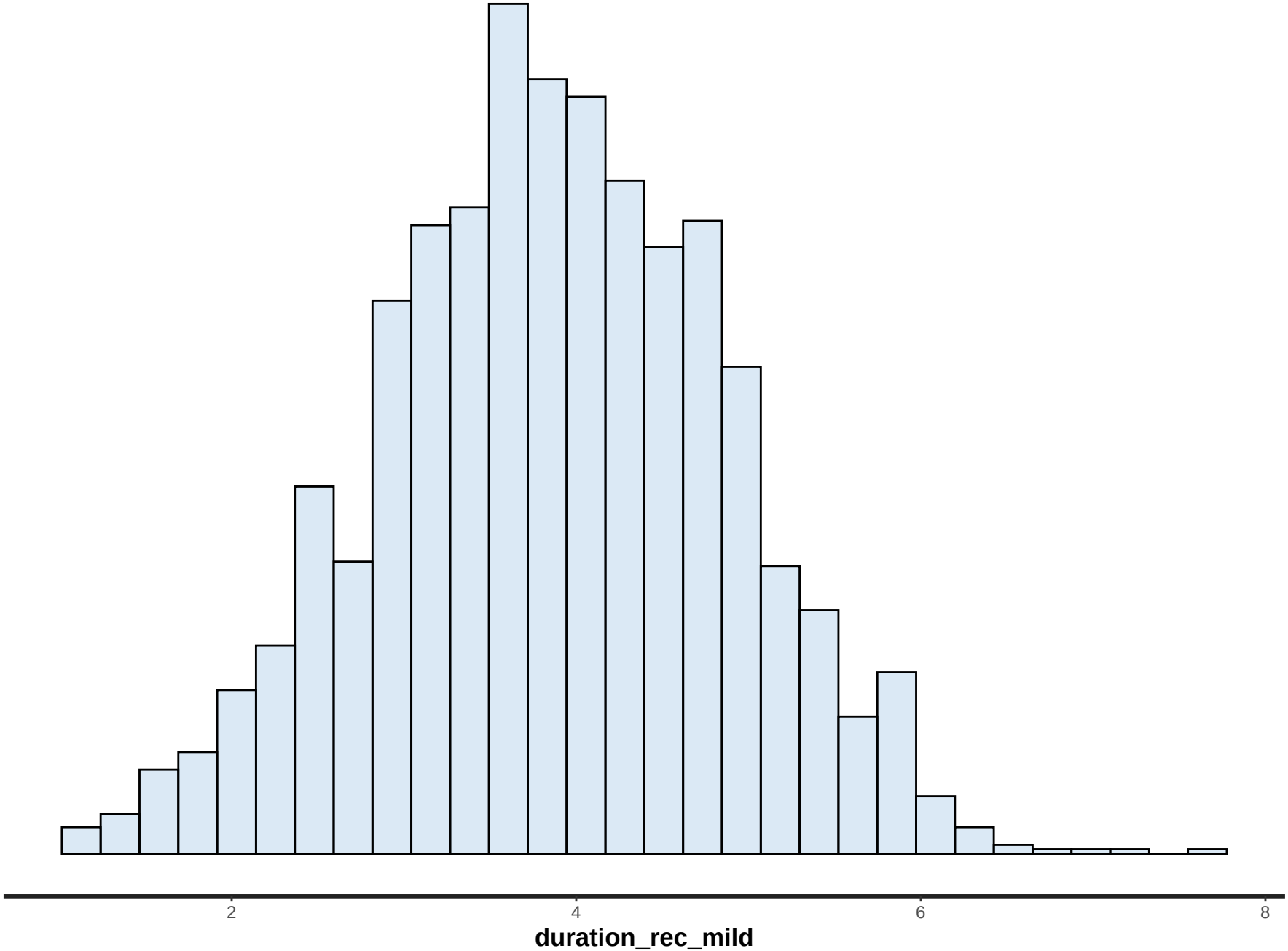
Rt as of 2020−12−02

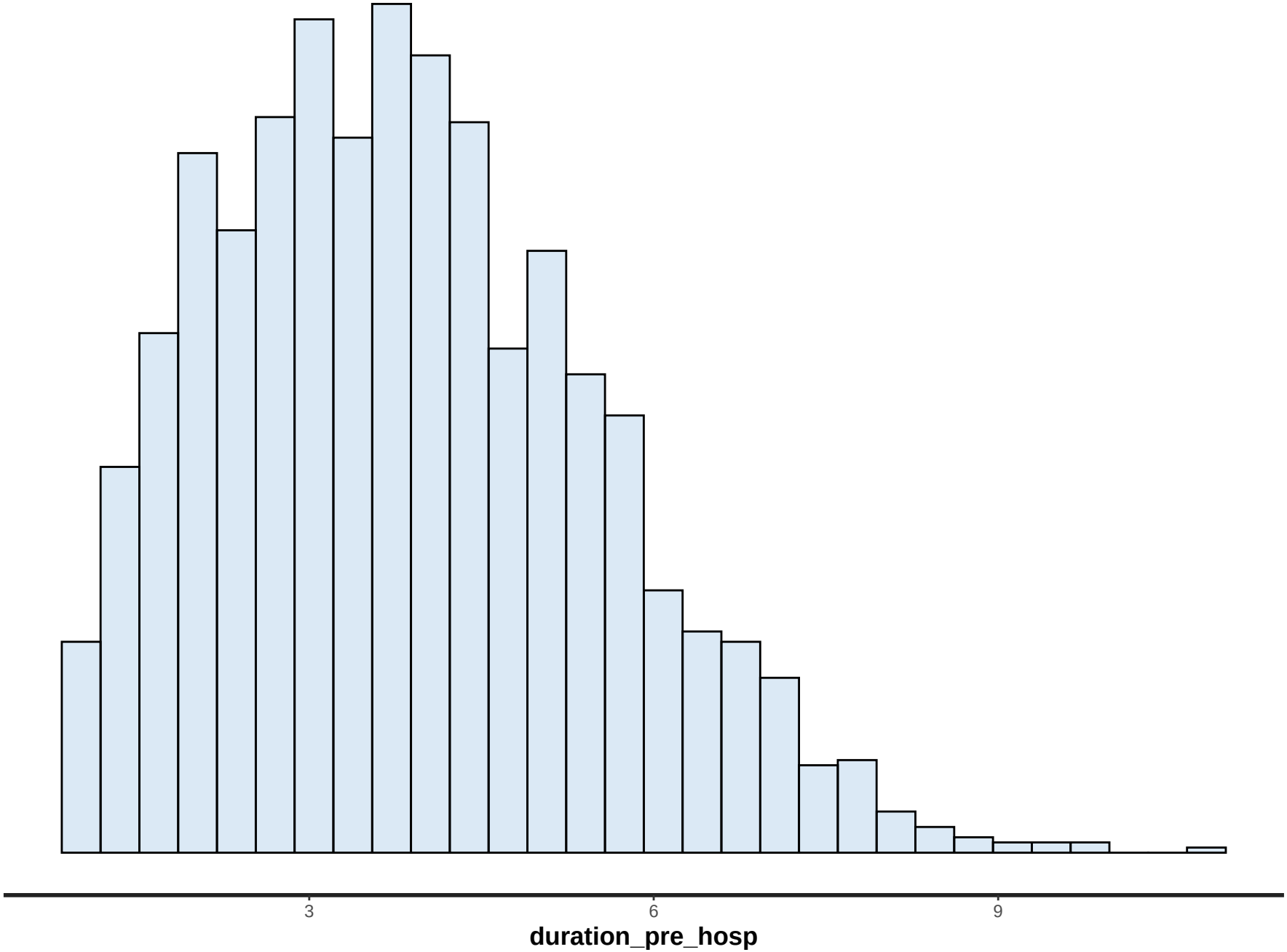
5%	10%	25%	50%	75%	90%	95%
1.08	1.11	1.15	1.21	1.26	1.32	1.35

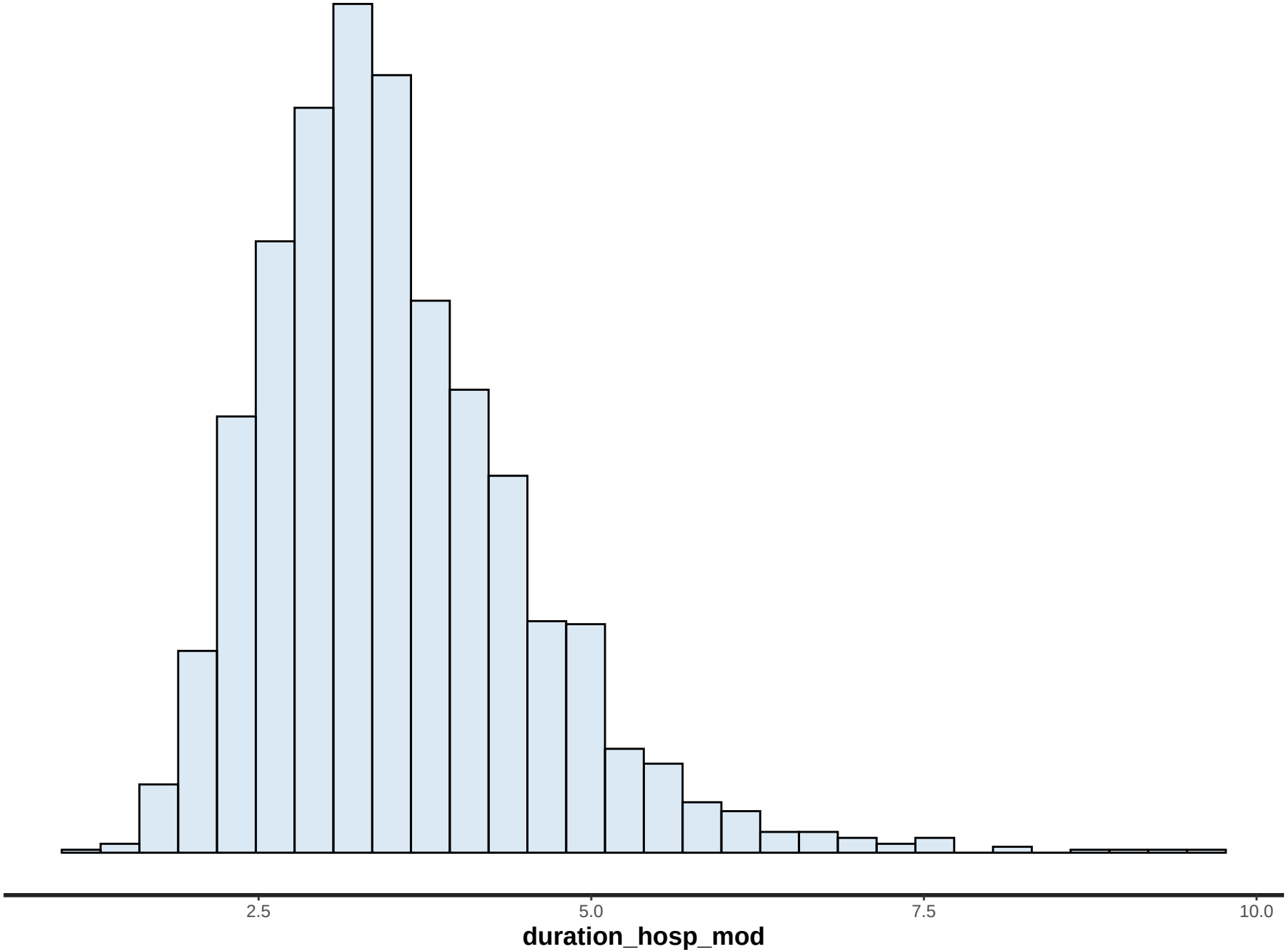


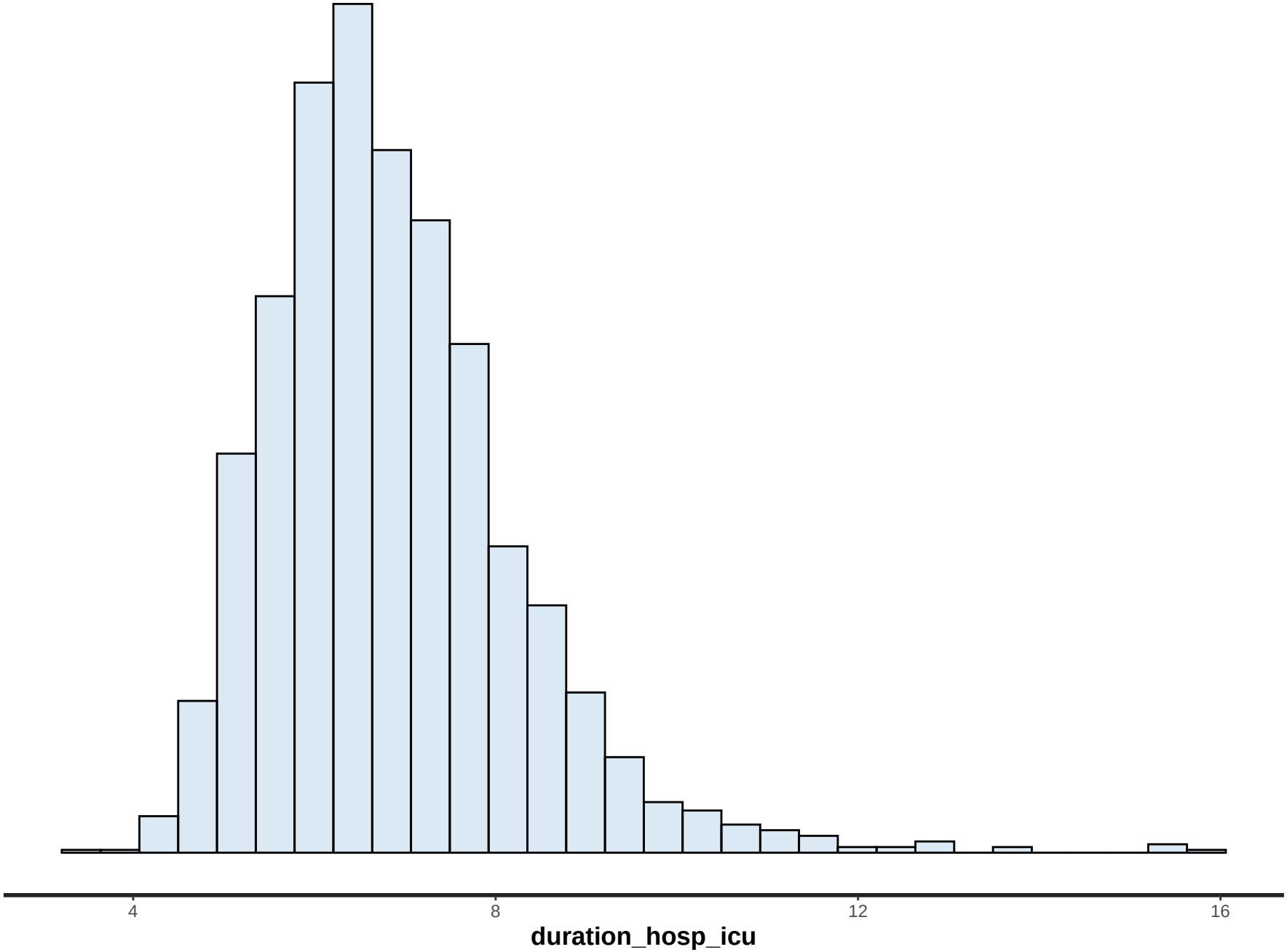

1.5
2.0
2.5
3.0
3.5
r0

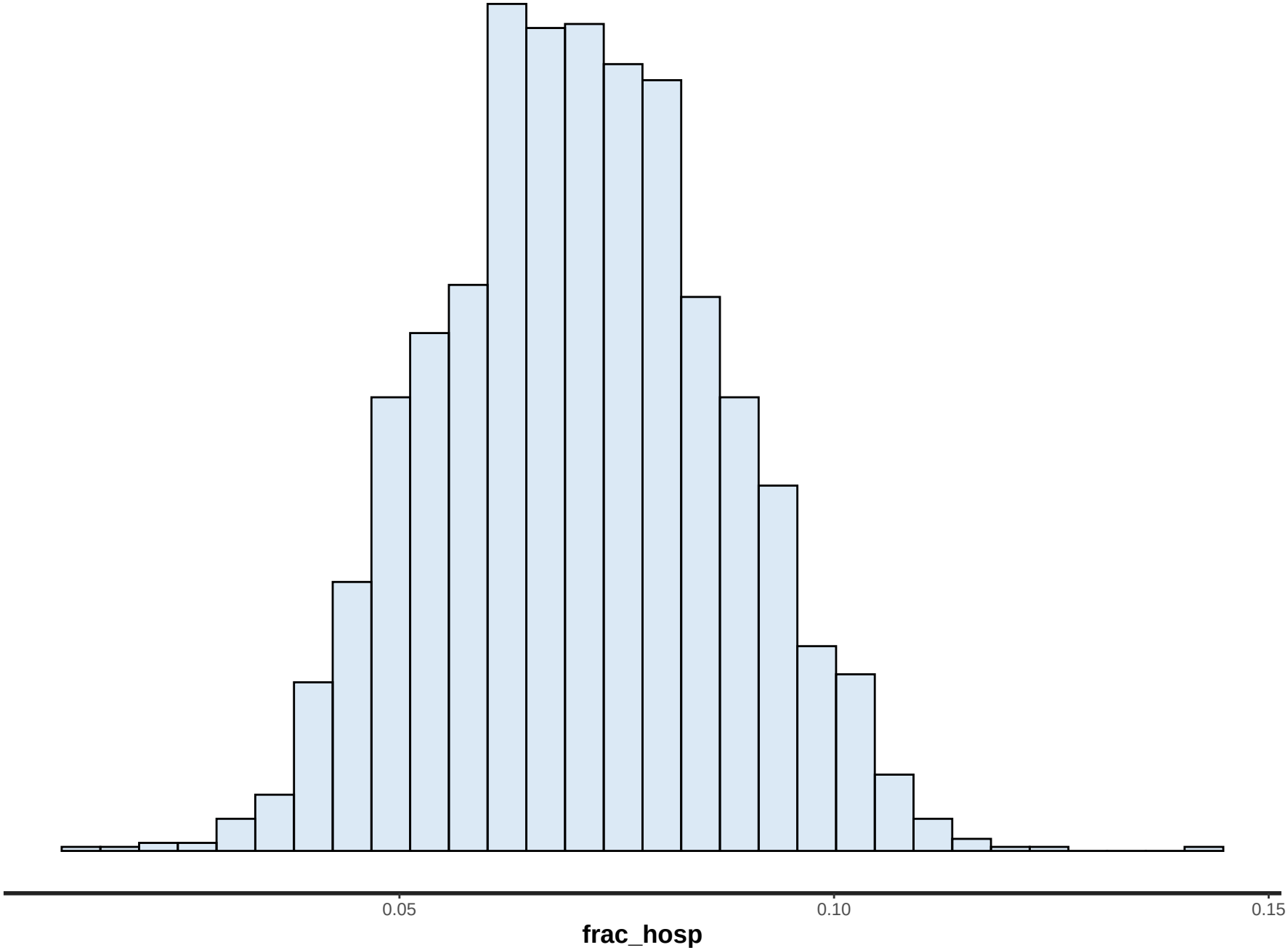

1
2
3
duration_latent

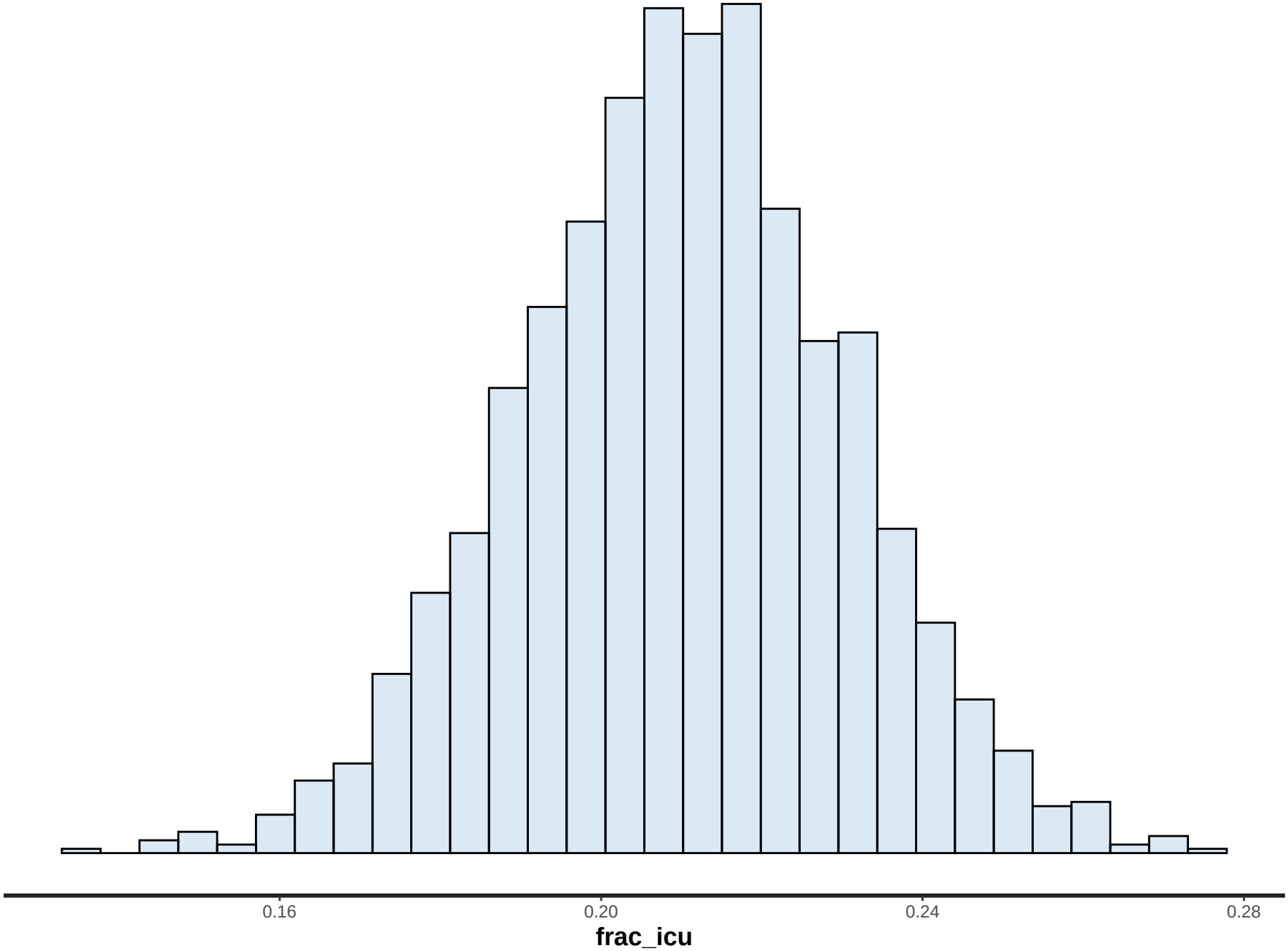

2
4
6
8
duration_rec_mild

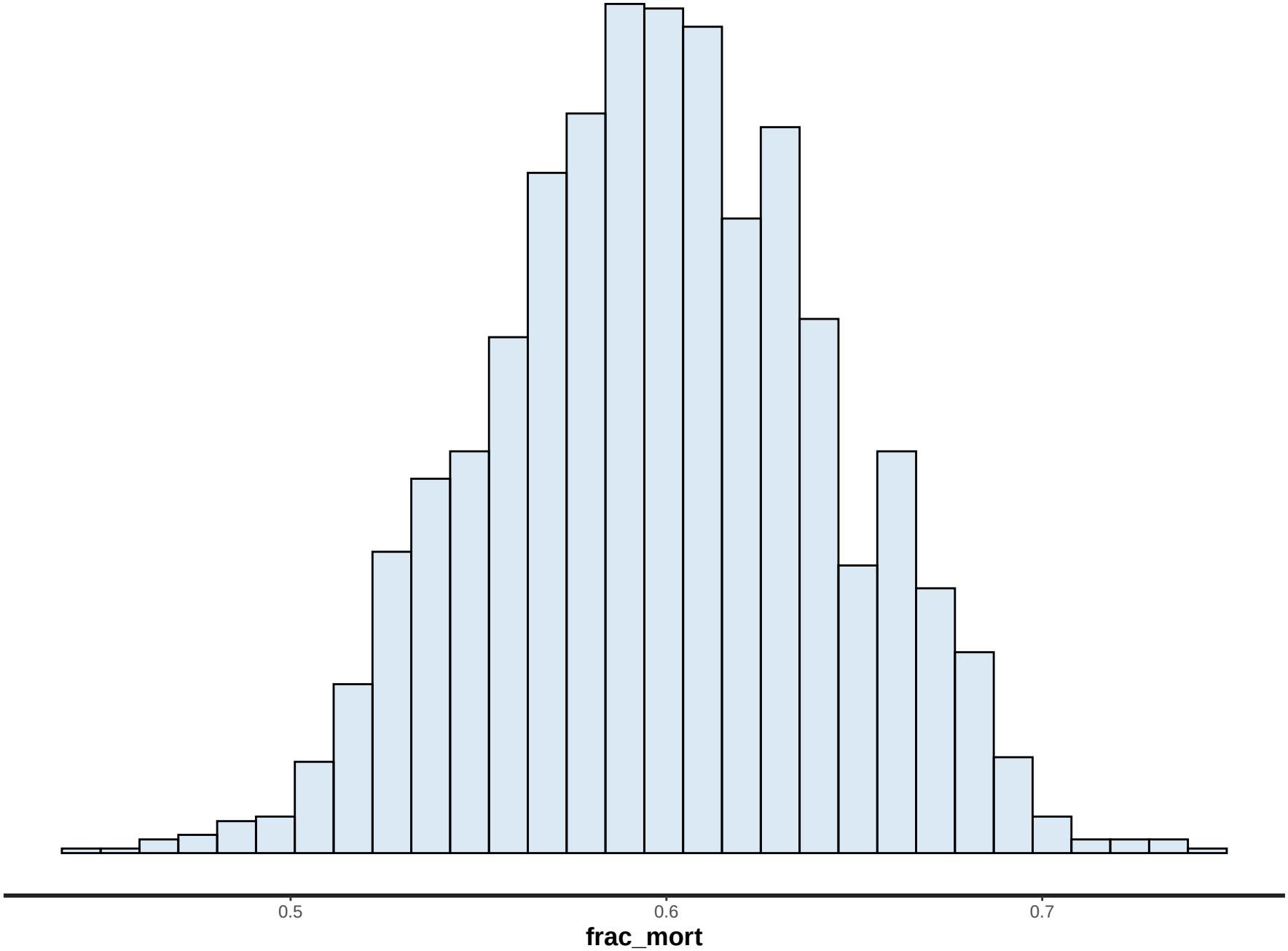

3
6
9
duration_pre_hosp

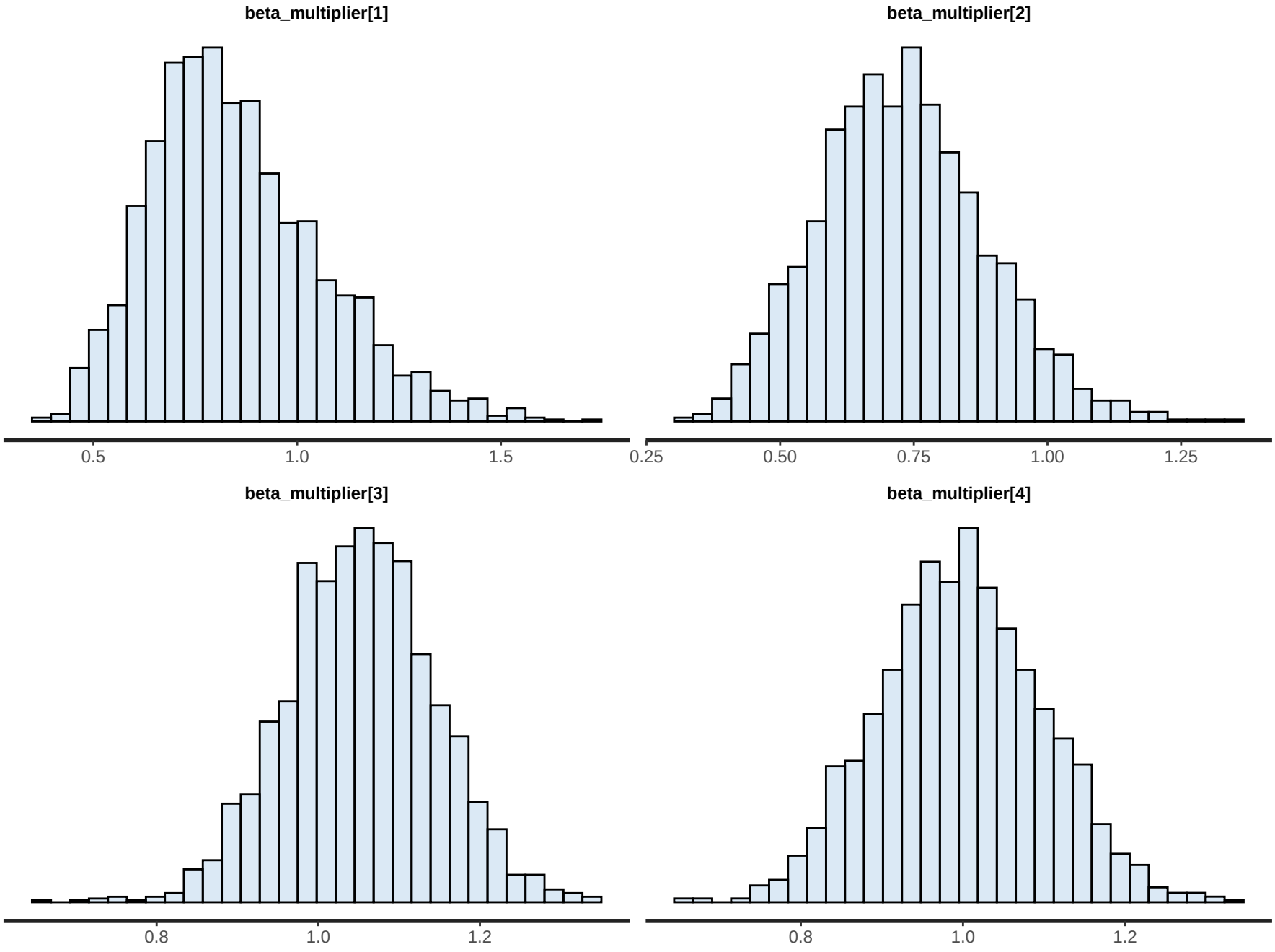

2.5
5.0
7.5
10.0
duration_hosp_mod

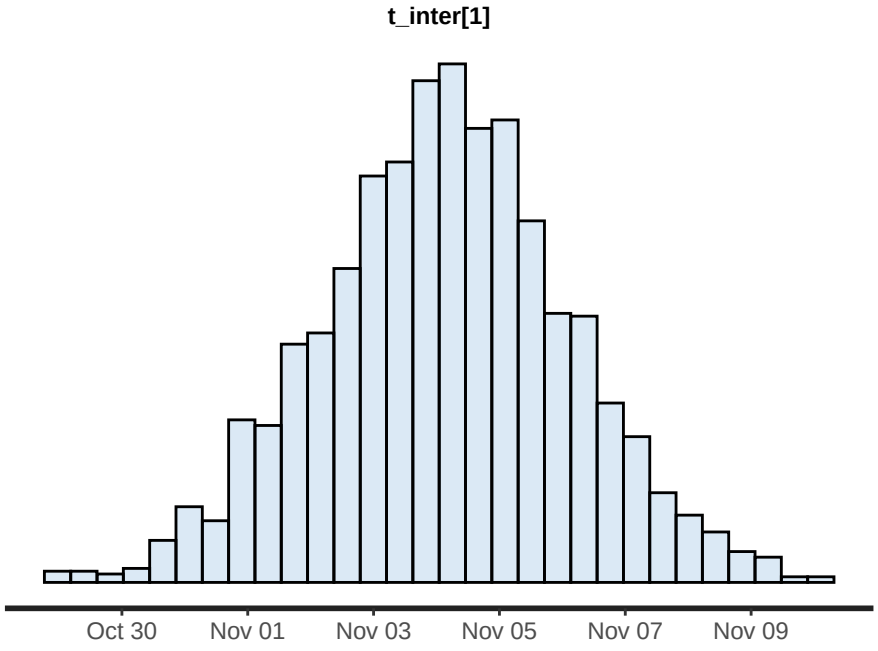

4
8
12
16
duration_hosp_icu

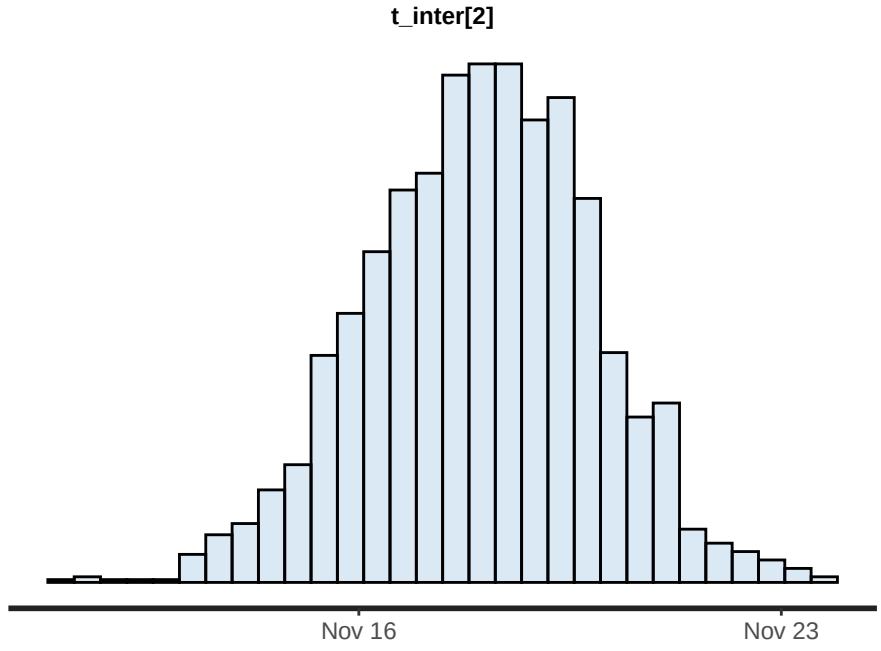

0.05
0.10
0.15
frac_hosp

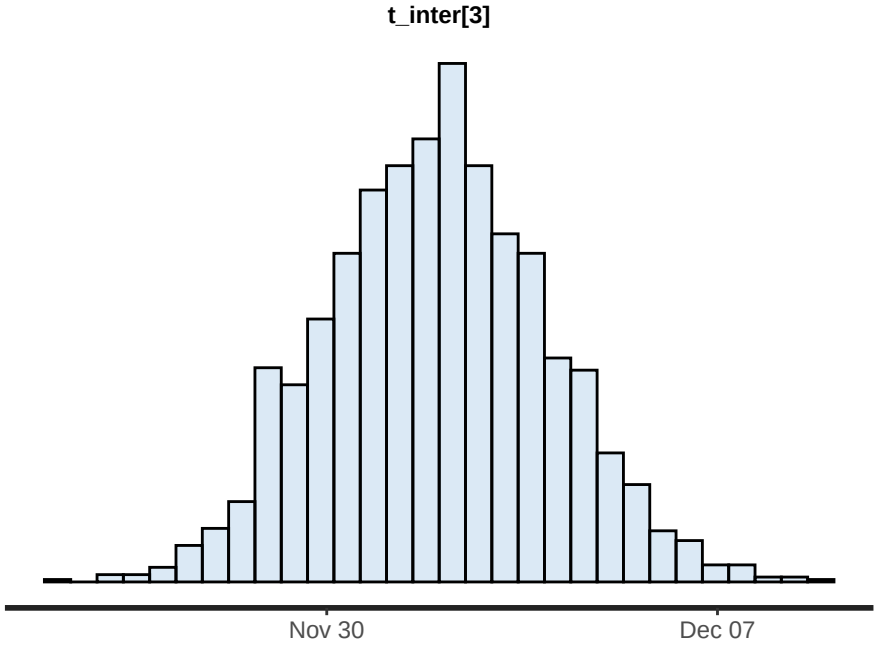

0.16
0.20
0.24
0.28
frac_icu

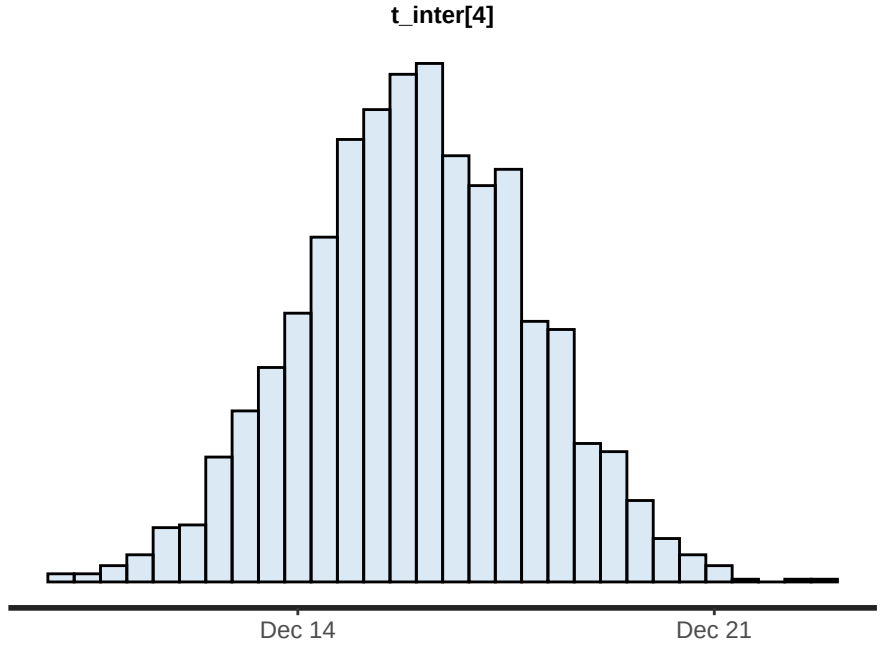

0.5
0.6
0.7
frac_mort


beta_multiplier[1]
0.5
1.0
1.5
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


t_inter[1]
Oct 30
Nov 01
Nov 03
Nov 05
Nov 07
Nov 09


t_inter[2]
Nov 16
Nov 23


t_inter[3]
Nov 30
Dec 07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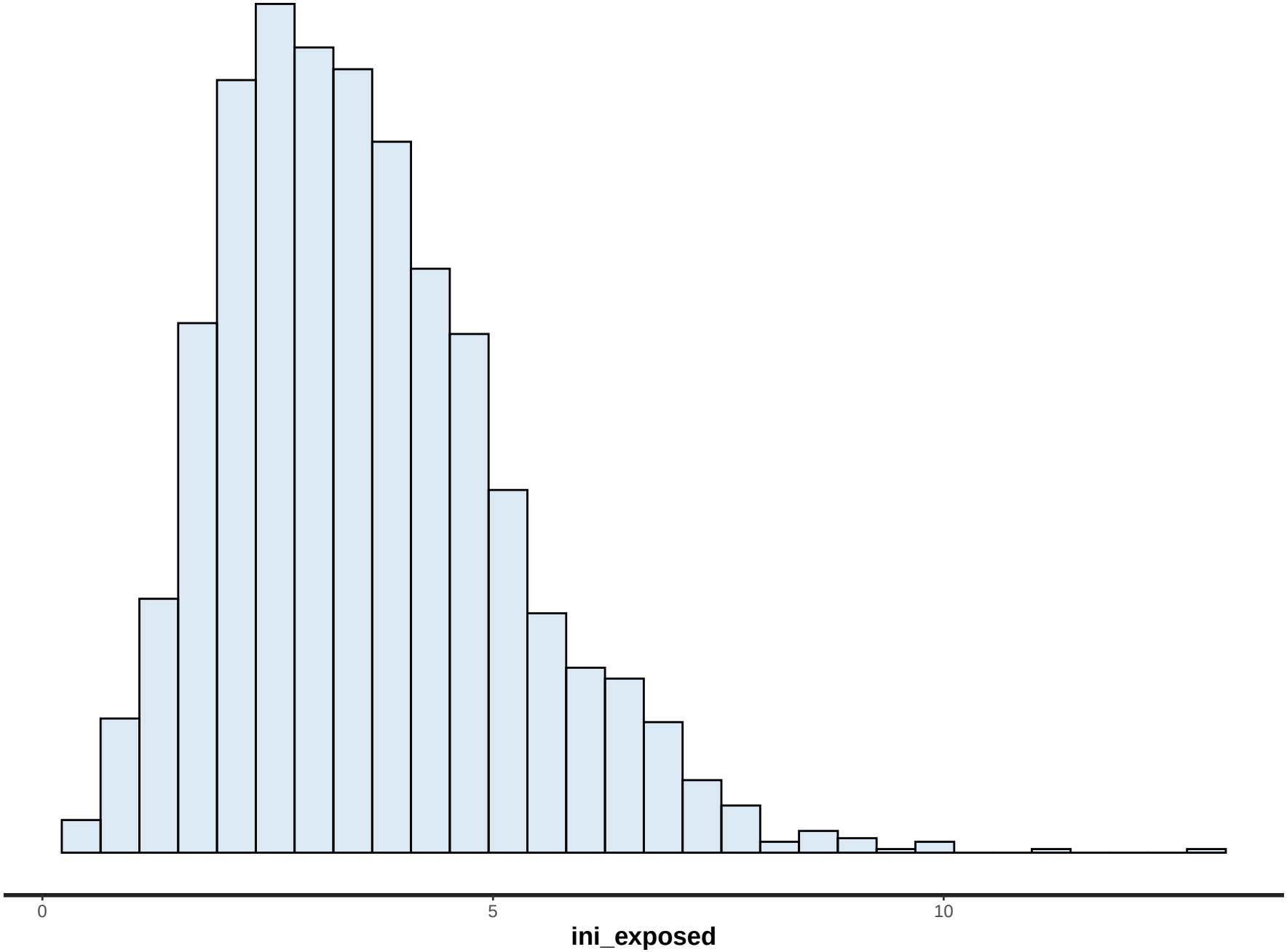
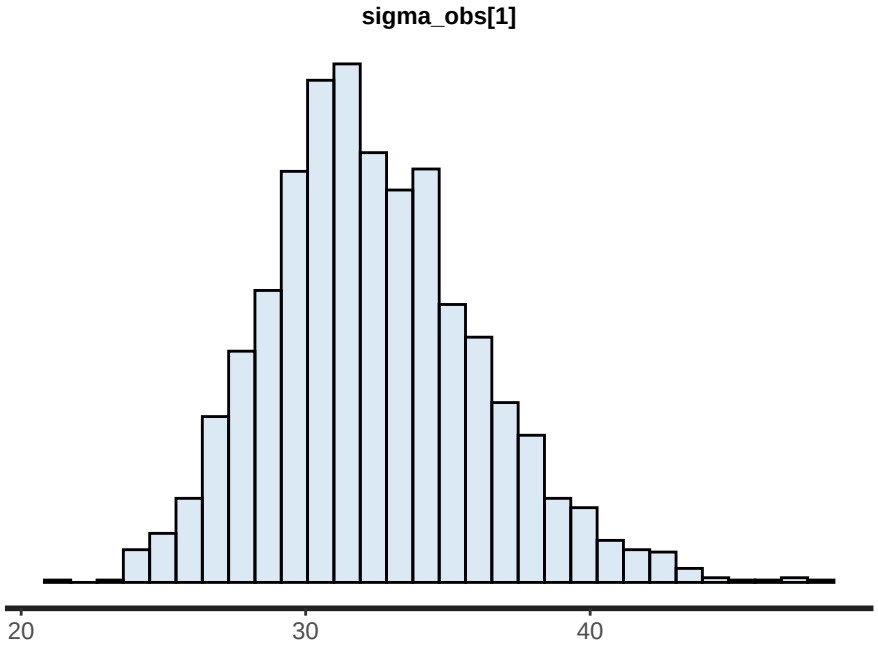
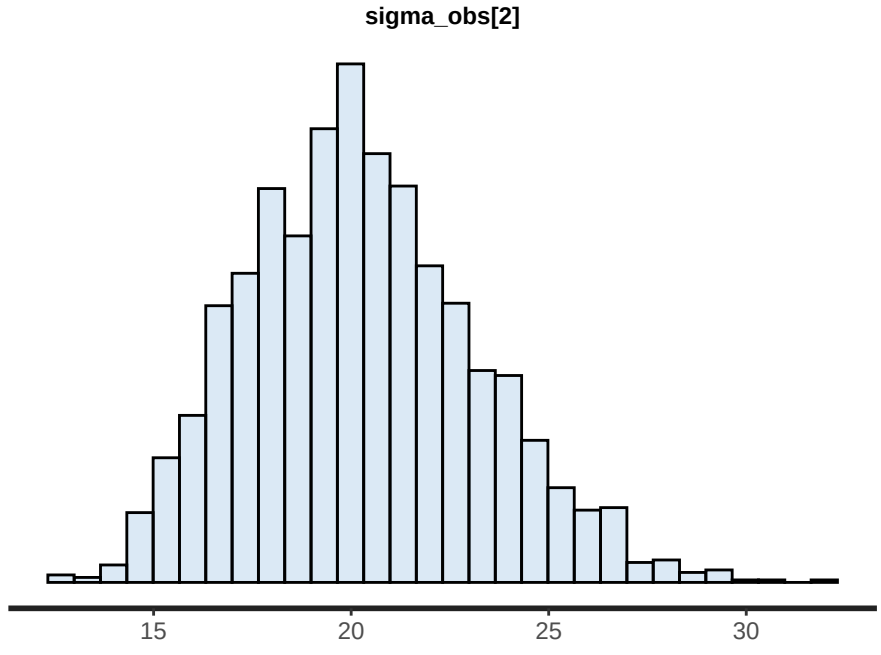
Dec 14
Dec 21


0
5
10
ini_exposed


sigma_obs[1]
20
30
40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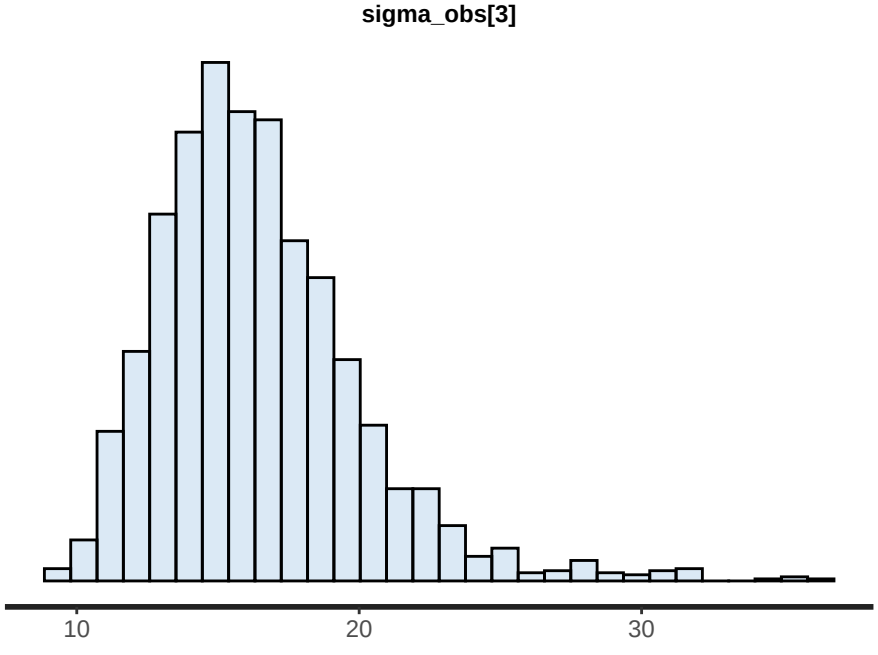
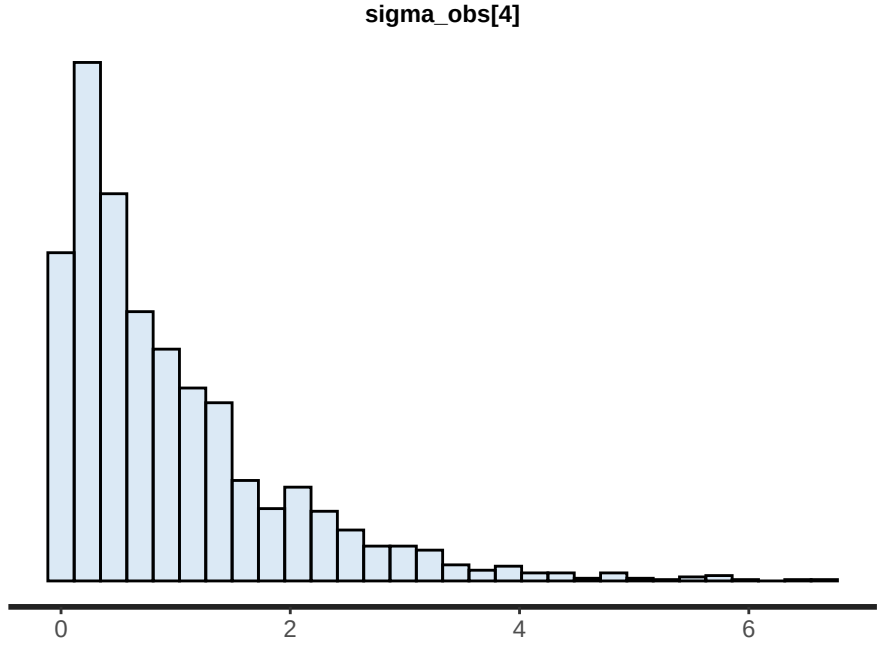
15
20
25
30


sigma_obs[3]
10
20
30


sigma_obs[4]
0
2
4
6