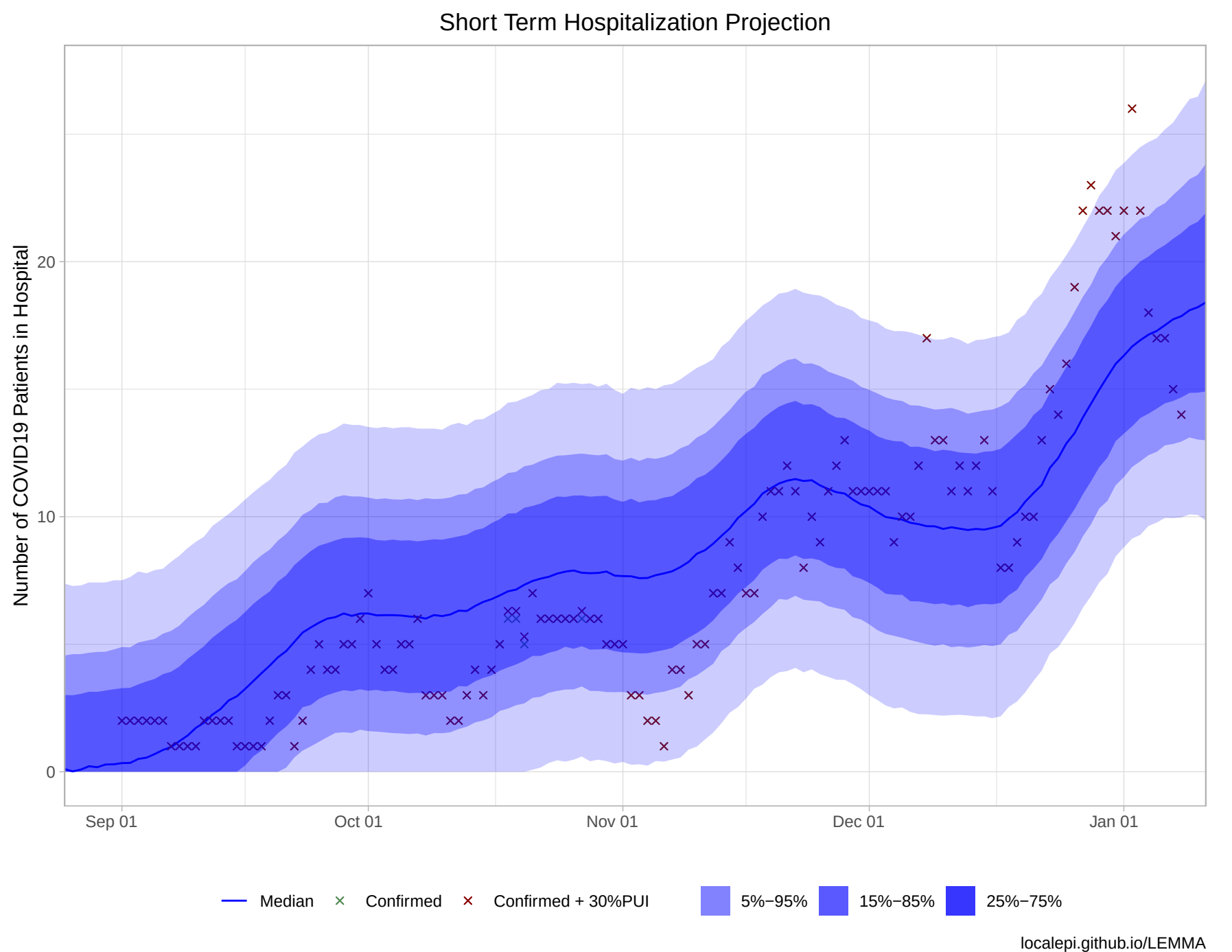
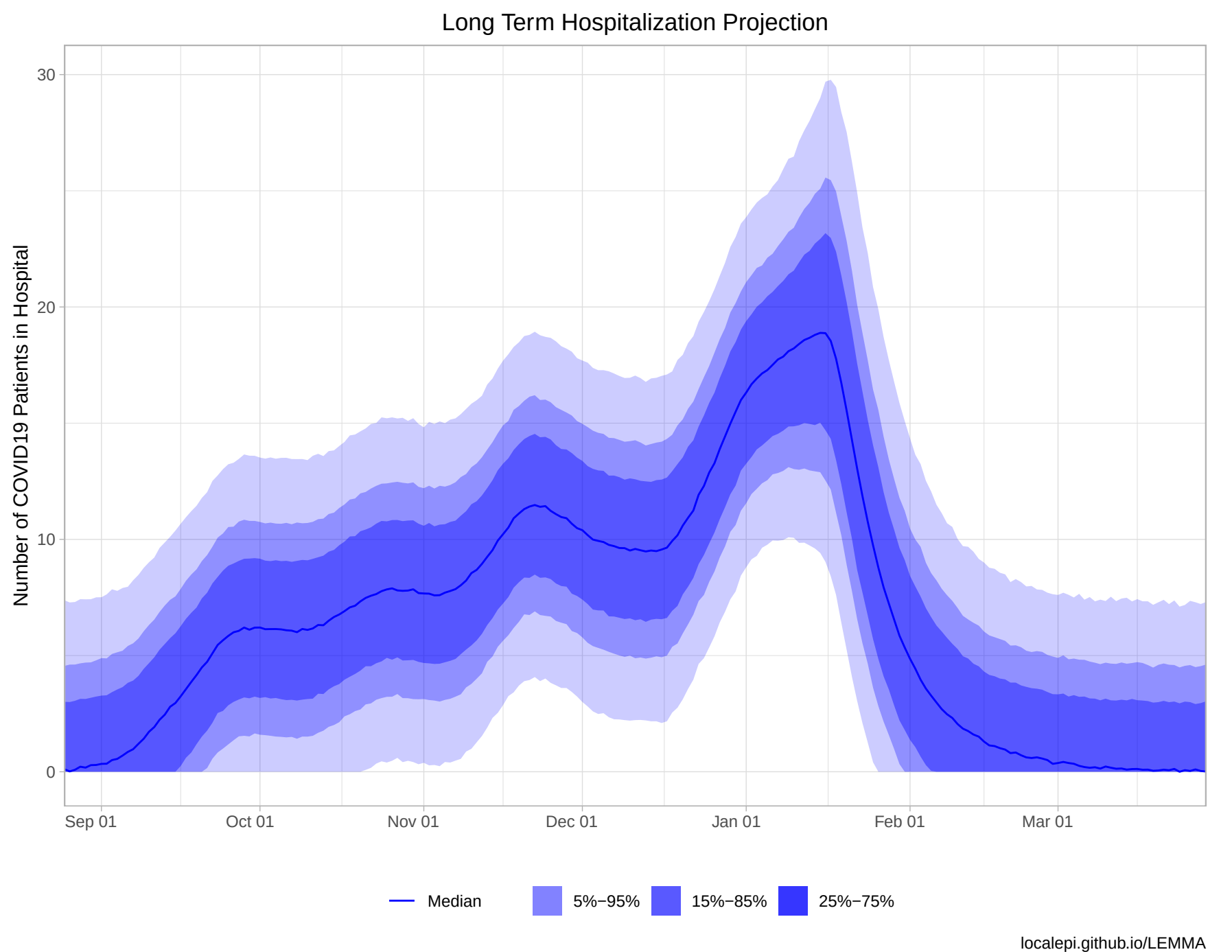
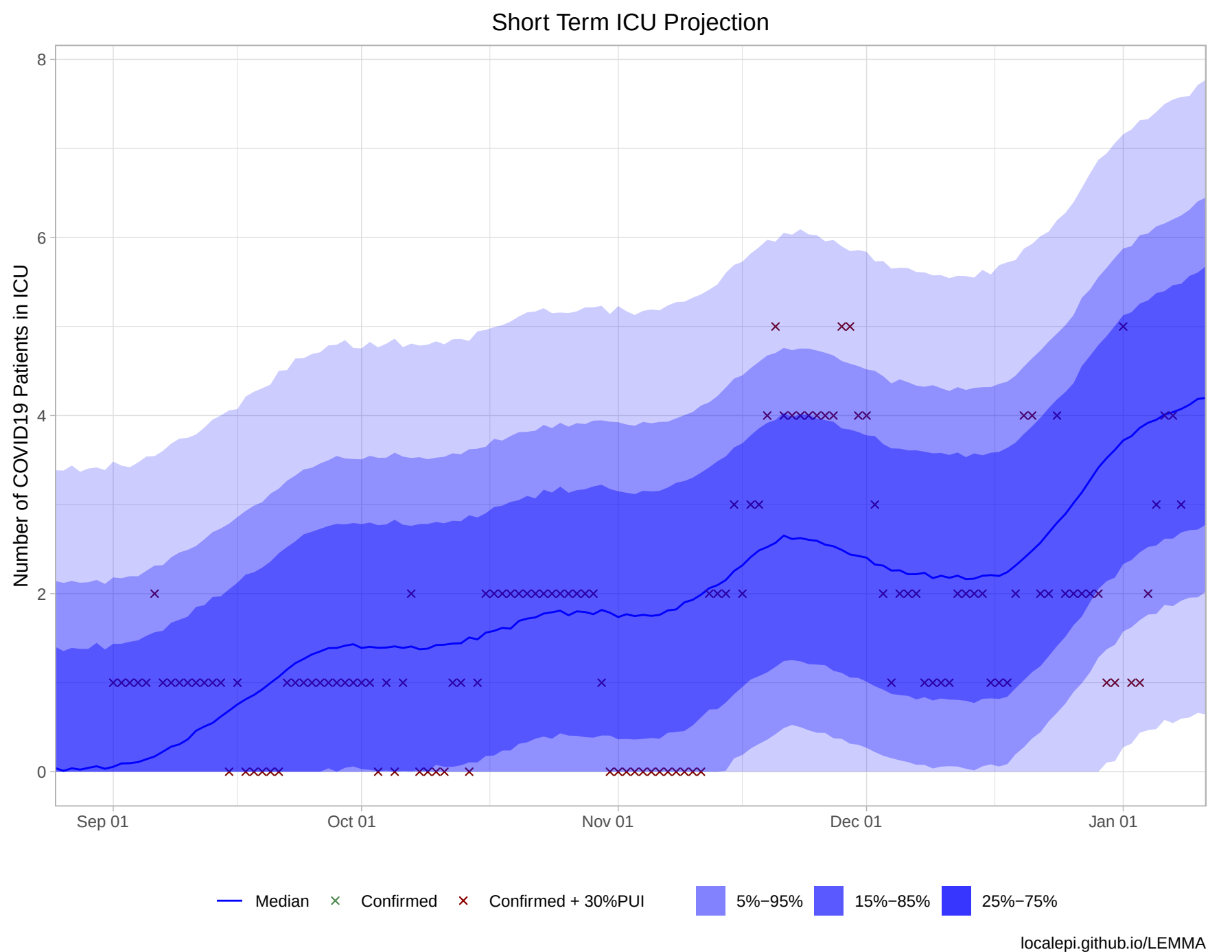
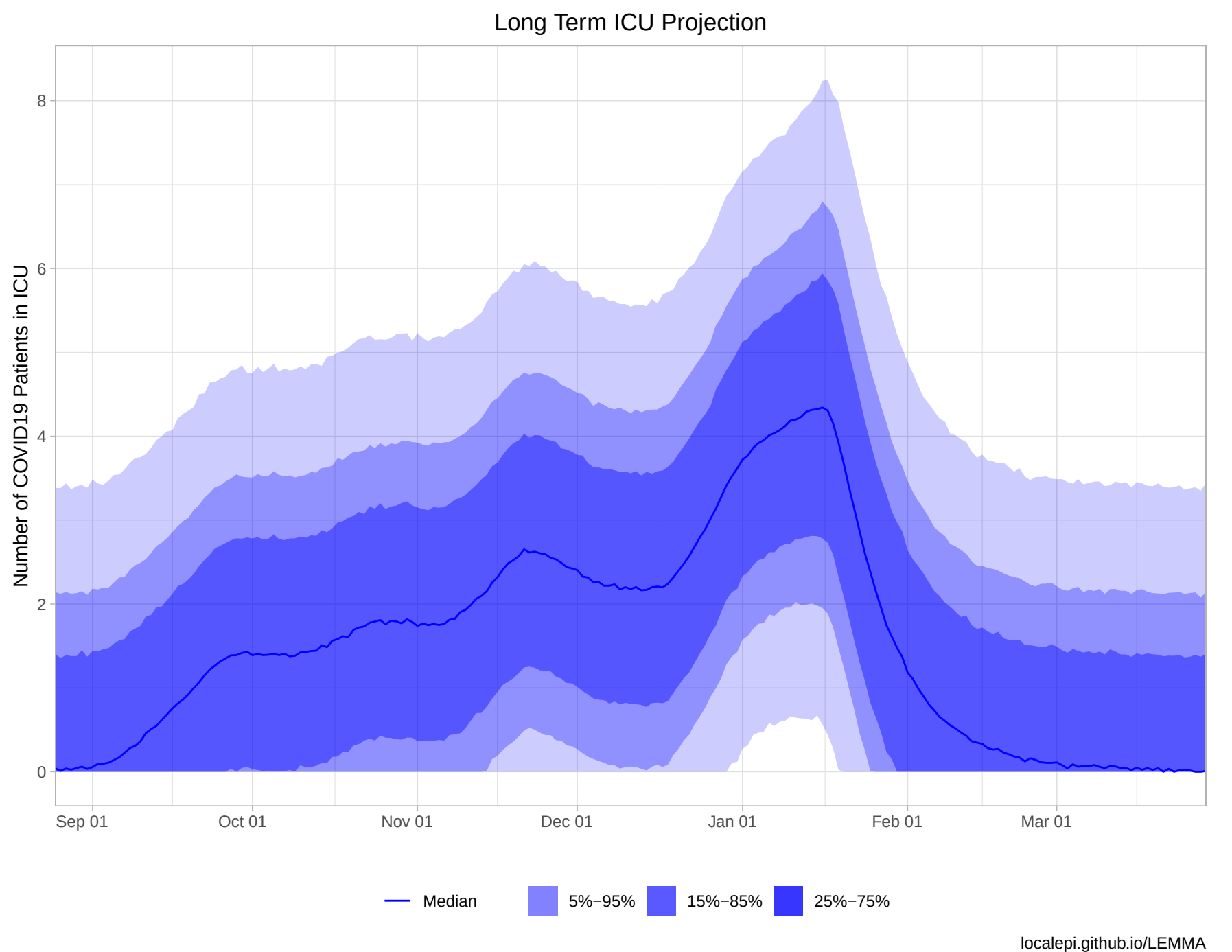
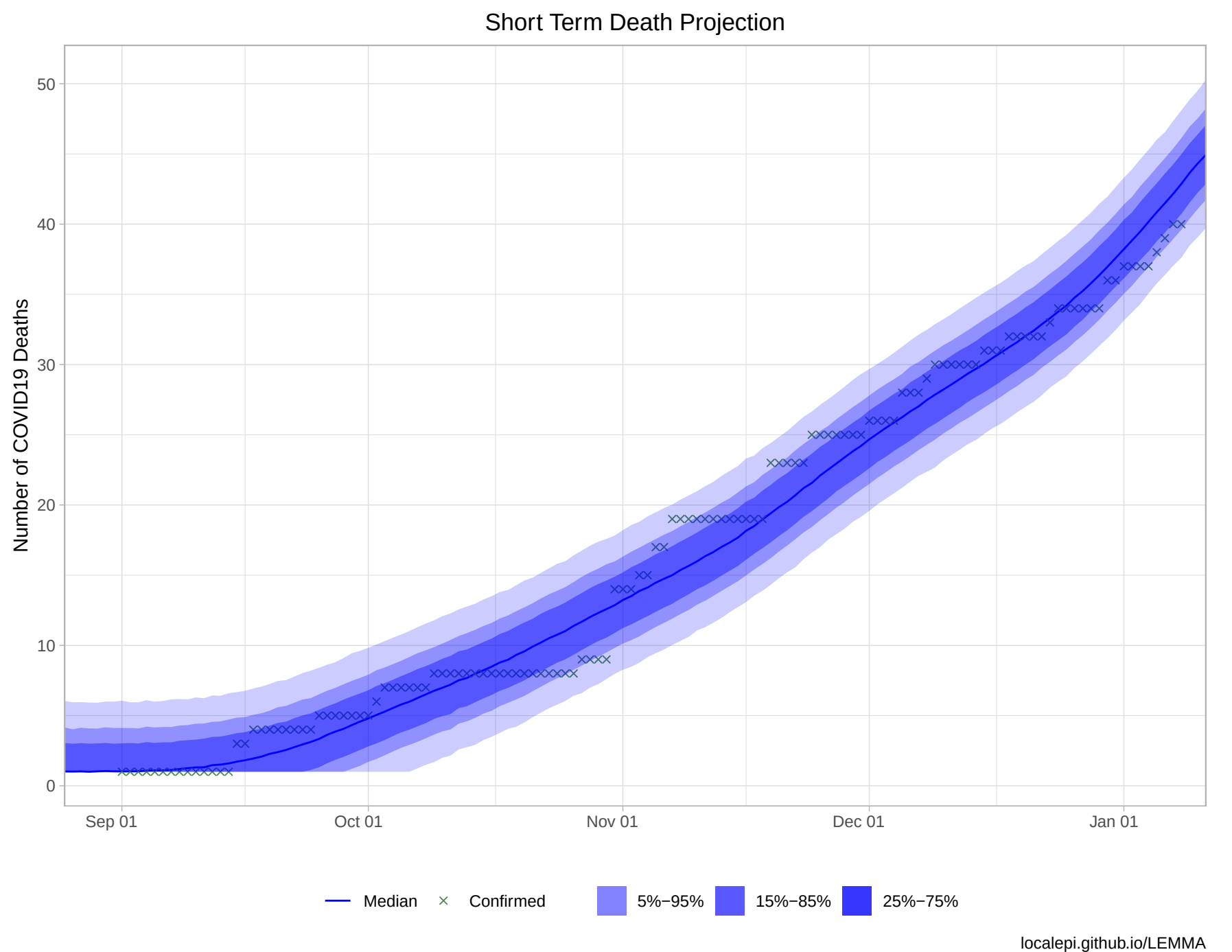
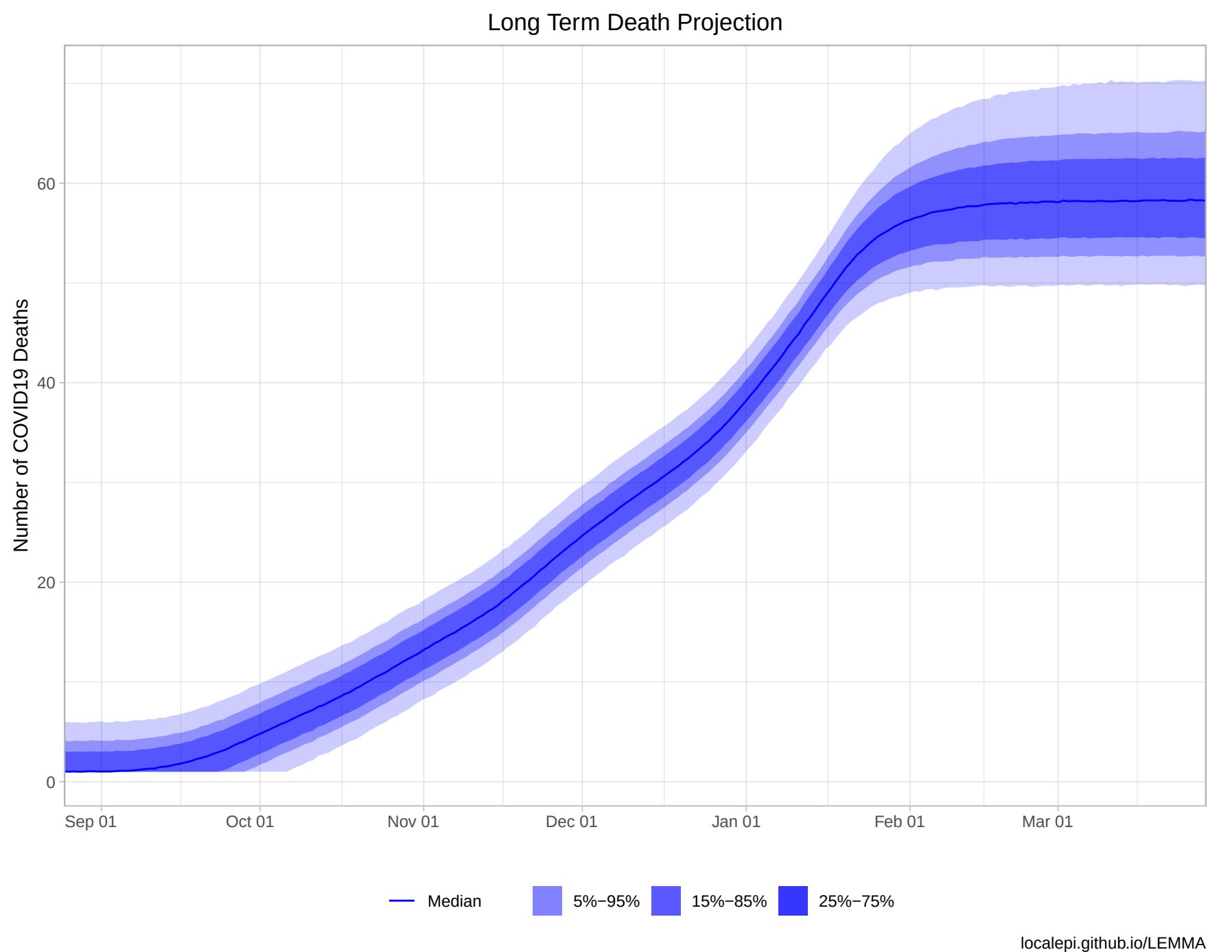

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
10
20
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

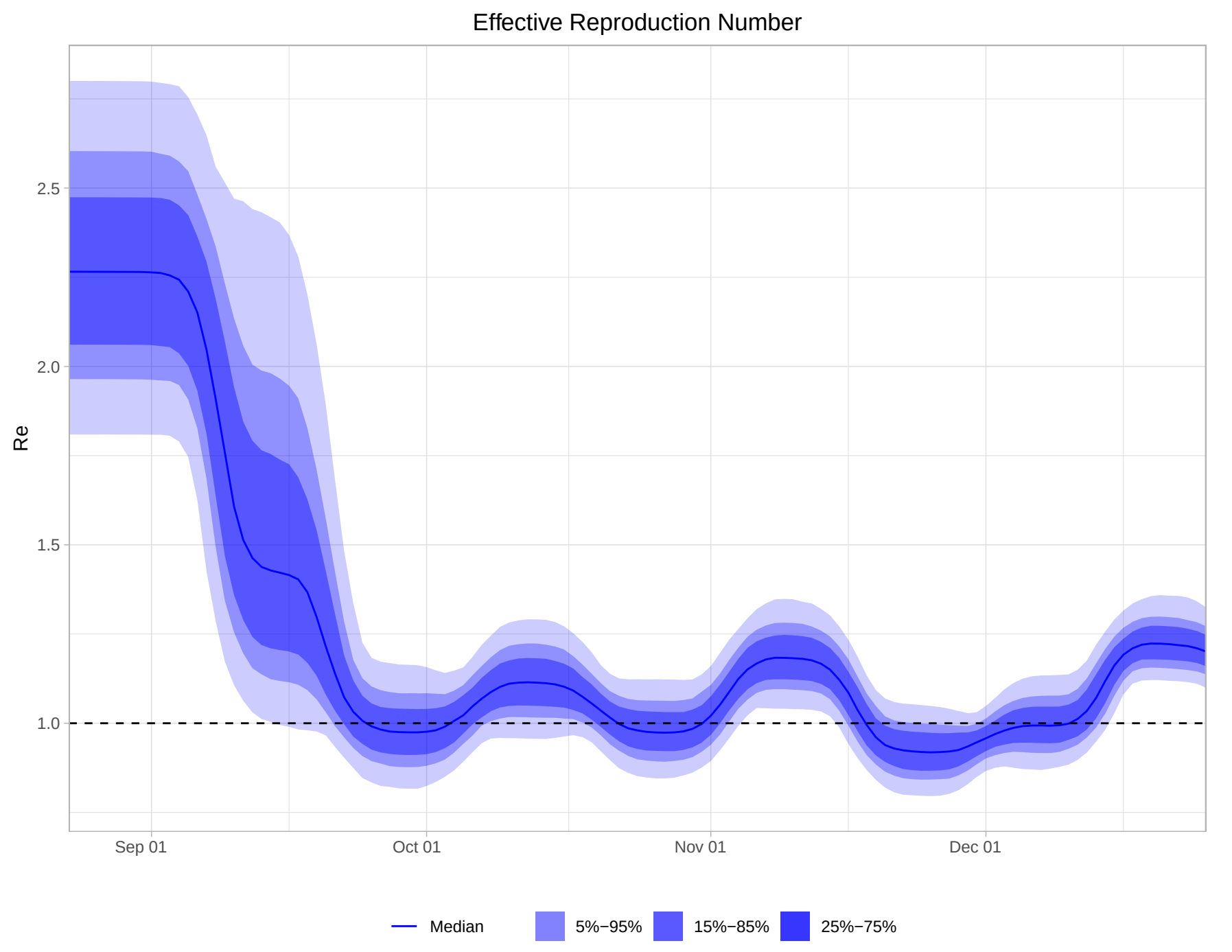

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
30
20
10
0
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


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

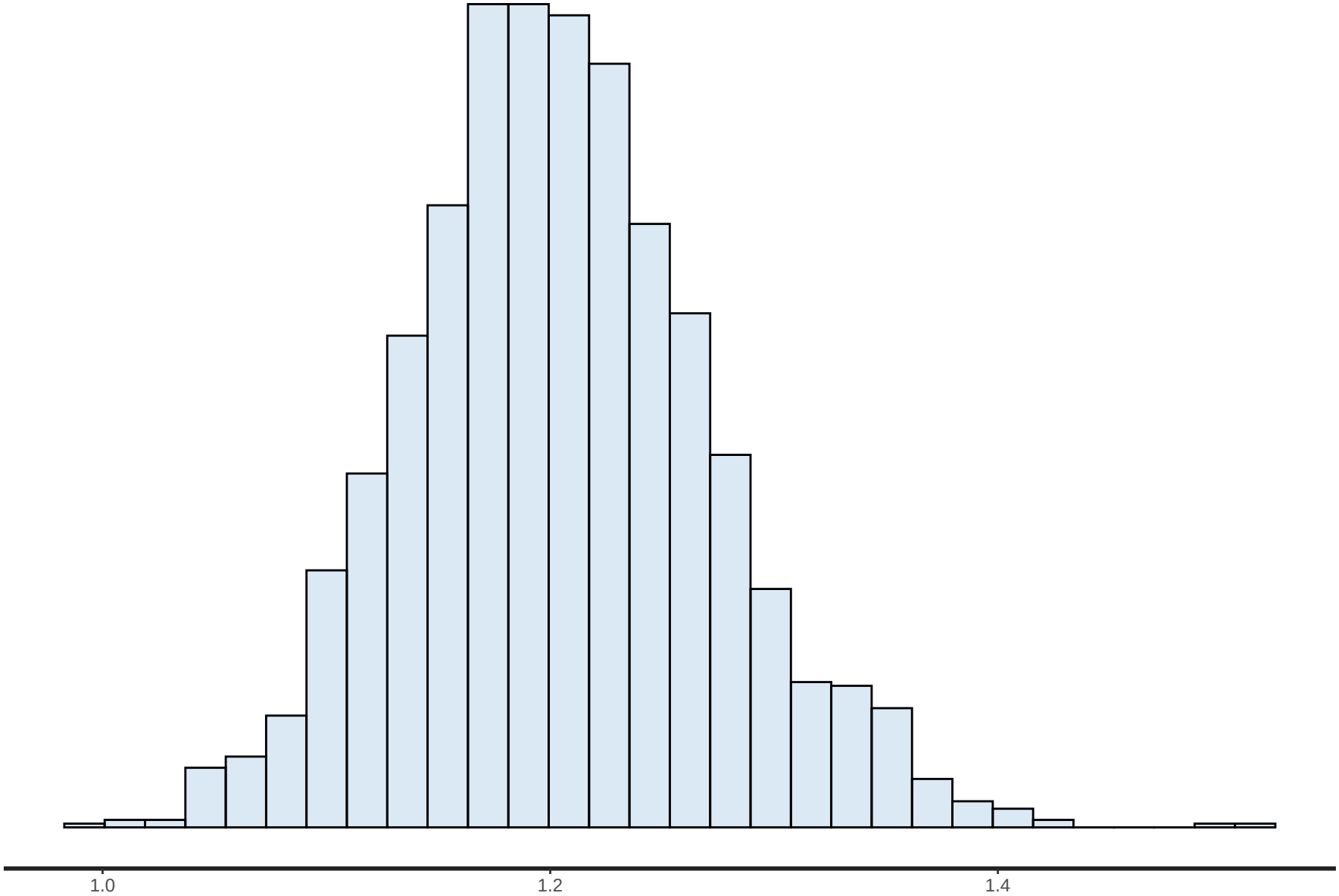

Short Term Death Projection
Number of COVID19 Deaths
0
10
20
30
40
50
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

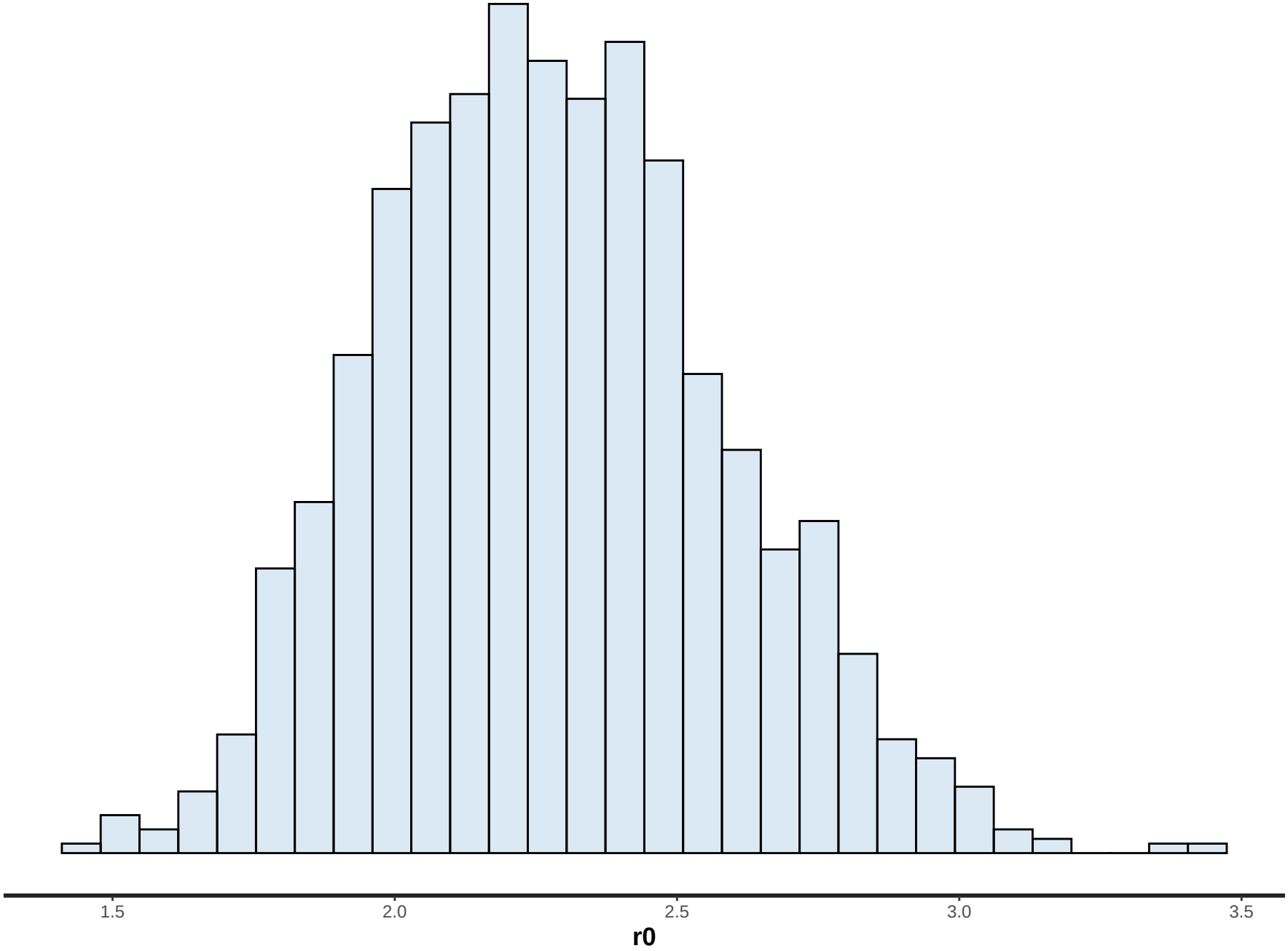

Long Term Death Projection
Number of COVID19 Deaths
0
20
40
60
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

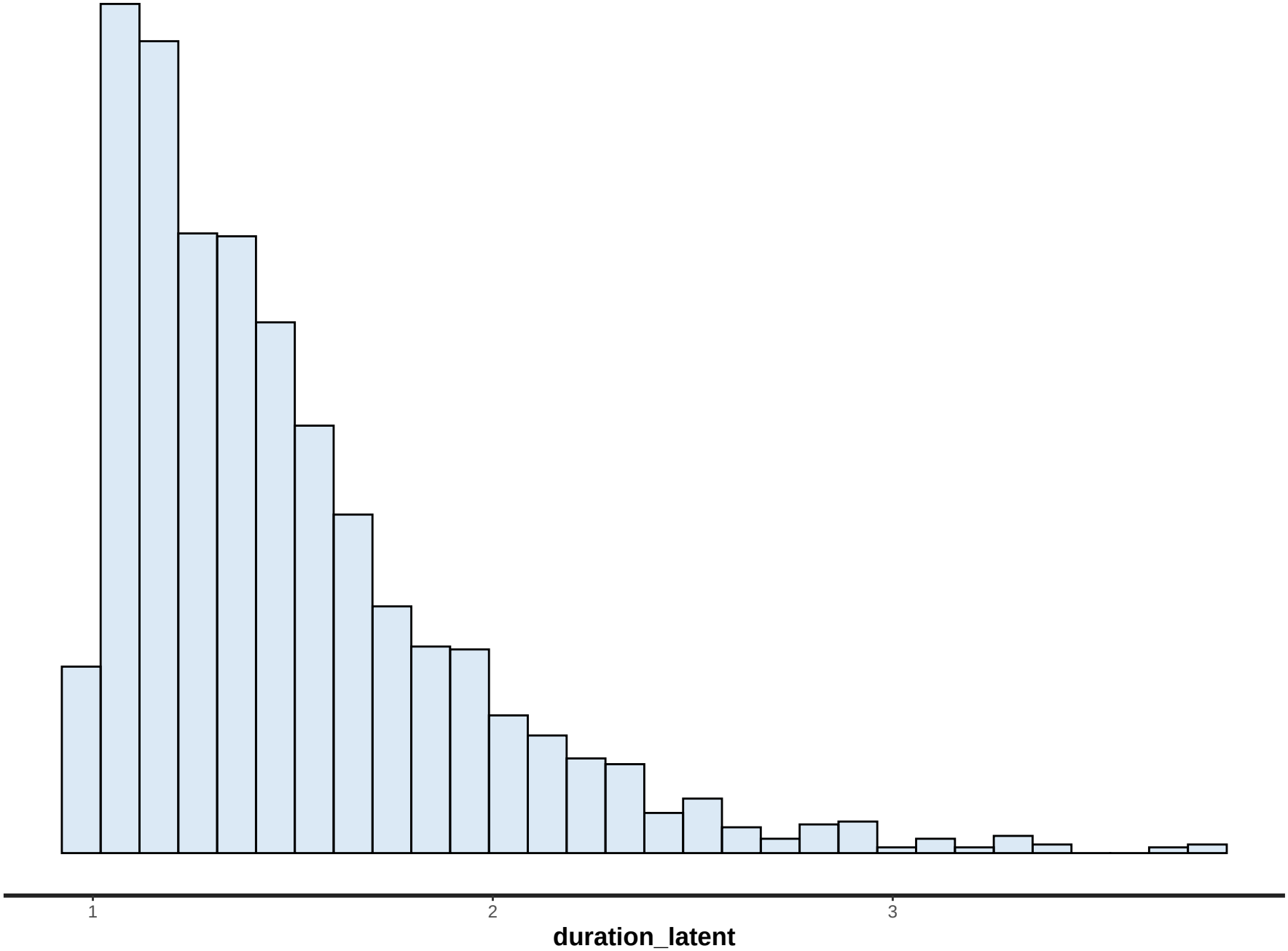

Effective Reproduction Number
Re
2.5
2.0
1.5
1.0
Sep 01
Oct 01
Nov 01
Dec 01
Median
5%−95%
15%−85%
25%−75%

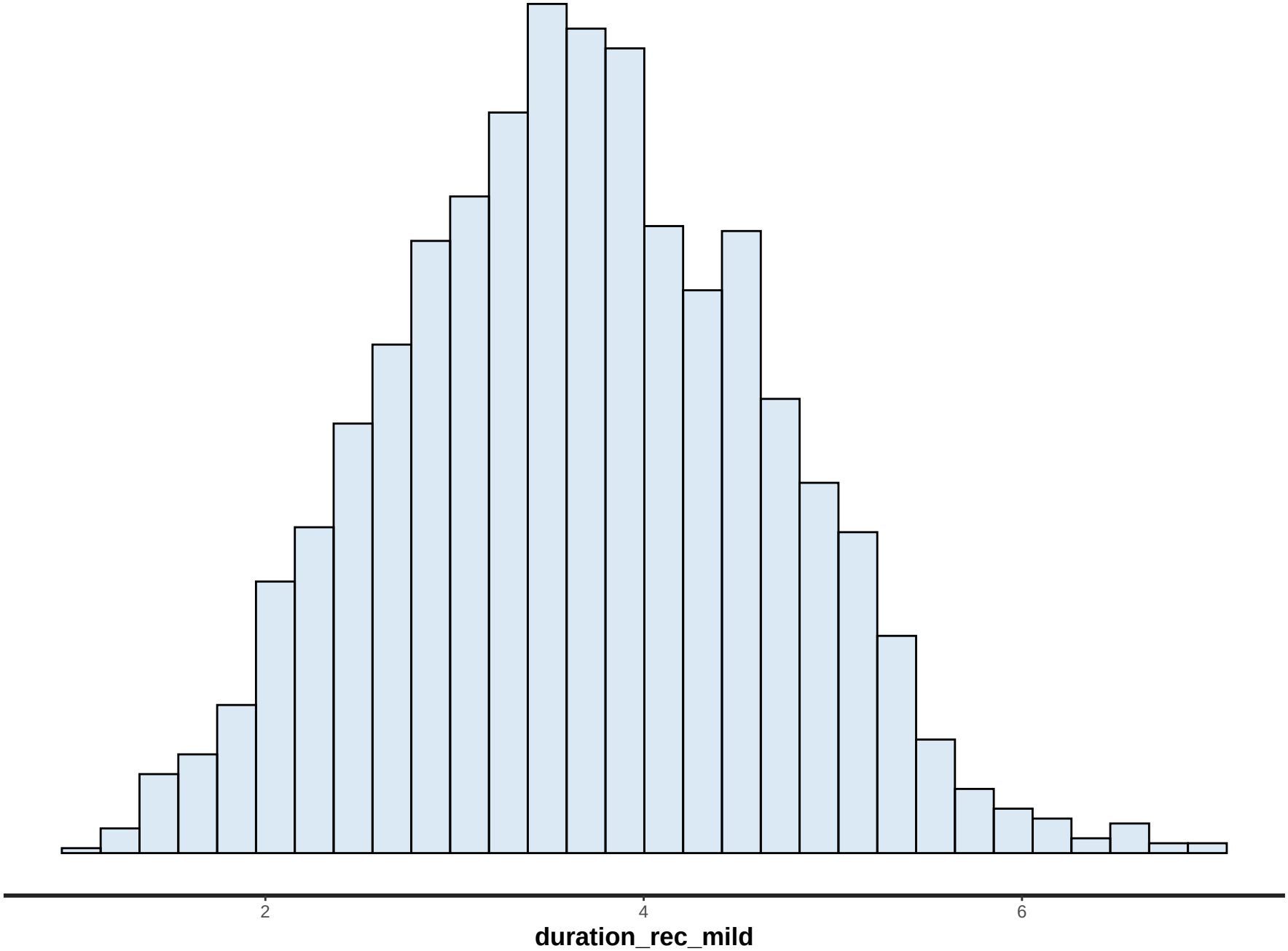
Rt as of 2020−12−25

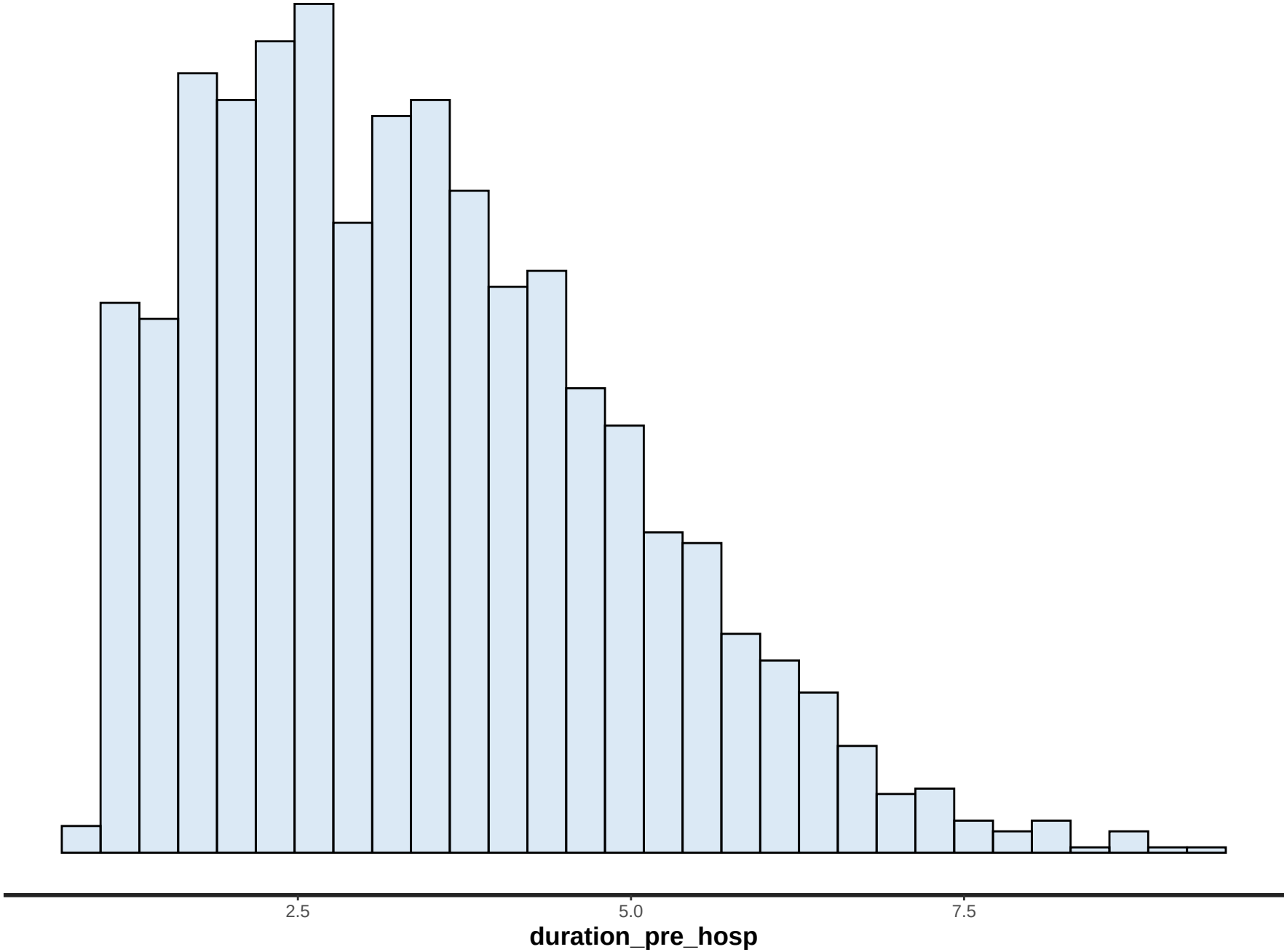
5%	10%	25%	50%	75%	90%	95%
1.10	1.12	1.16	1.20	1.25	1.29	1.33




1.5
2.0
2.5
3.0
3.5
r0


1
2
3
duration_latent


2
4
6
duration_rec_mild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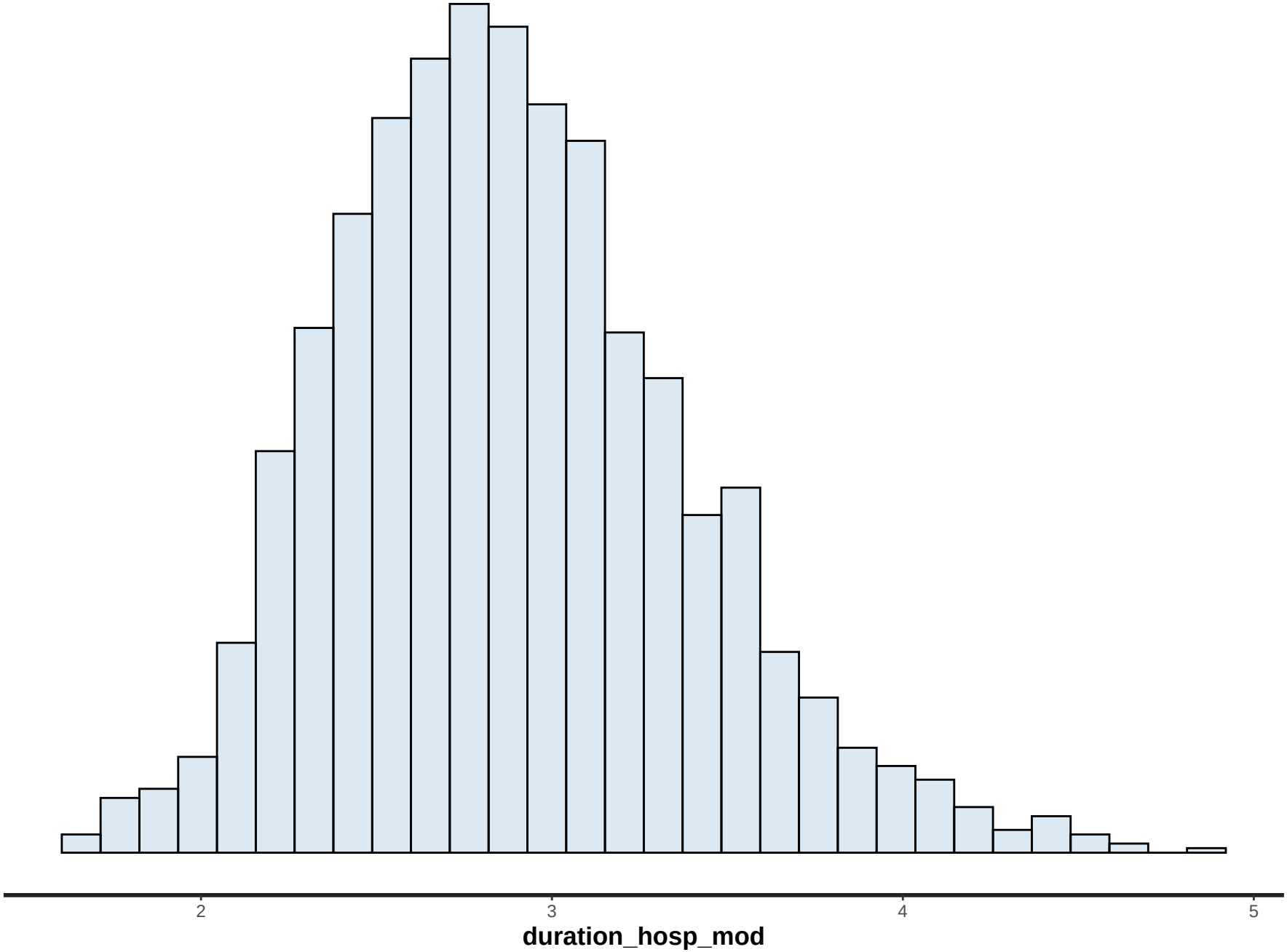
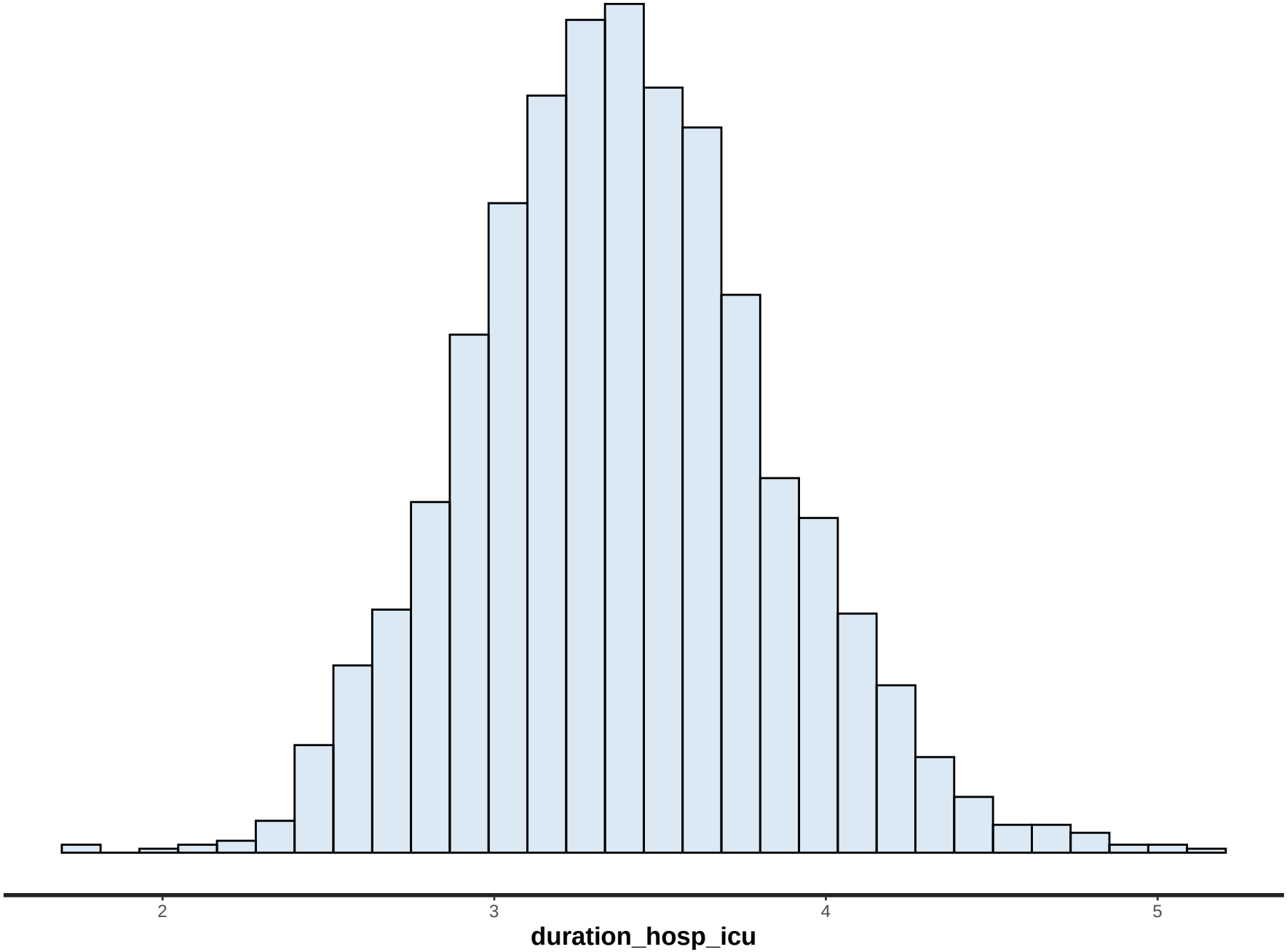
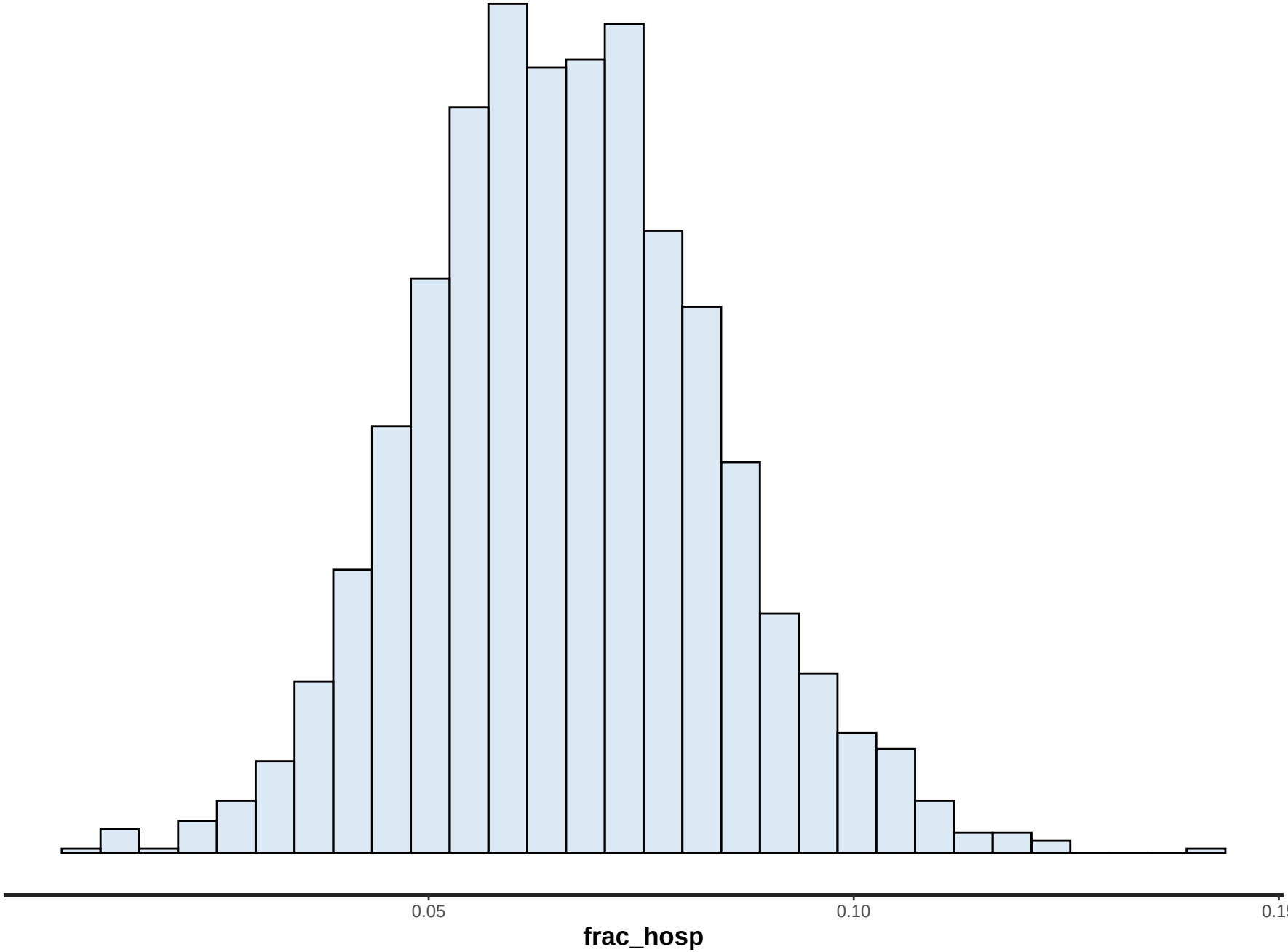
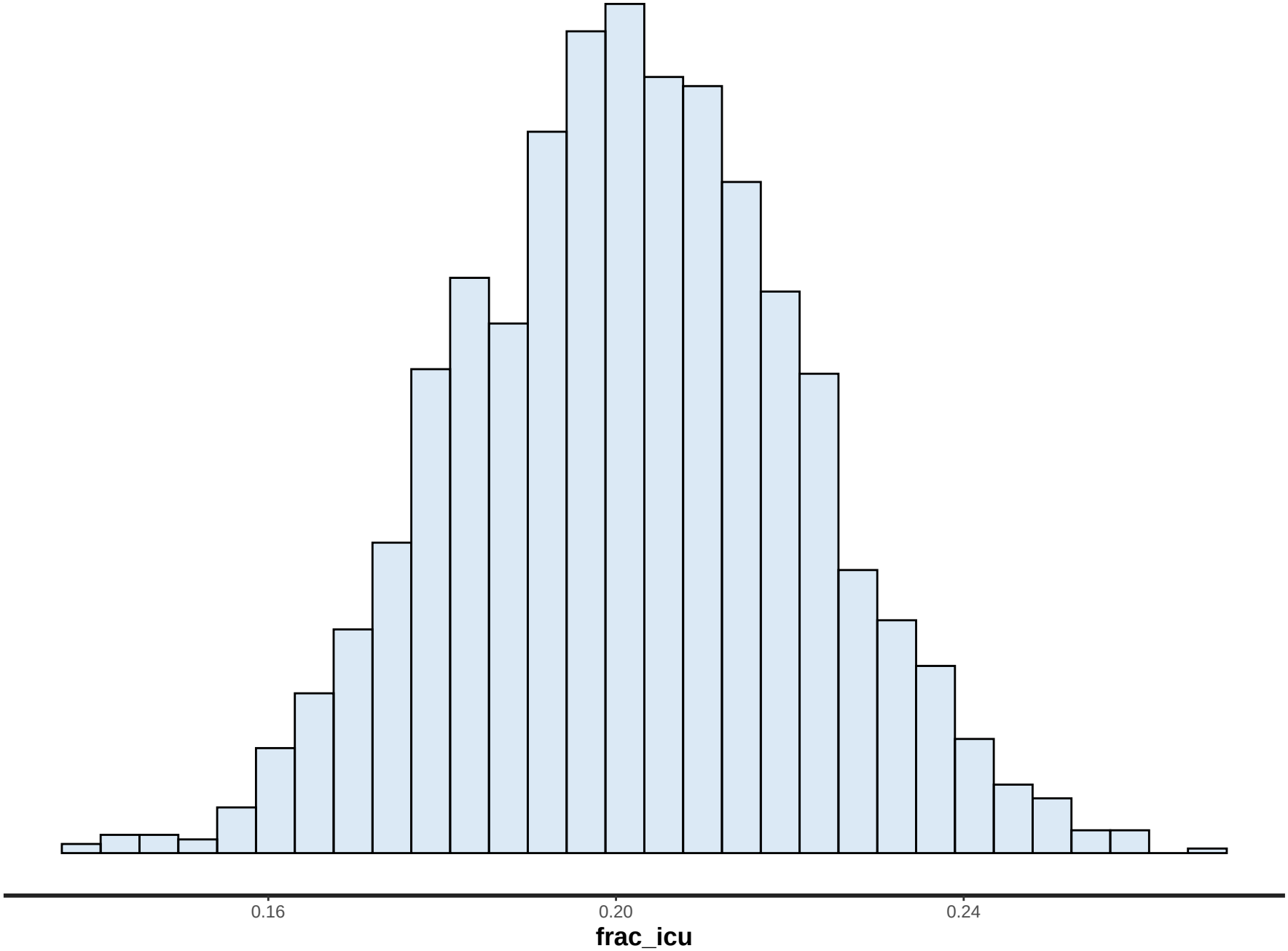
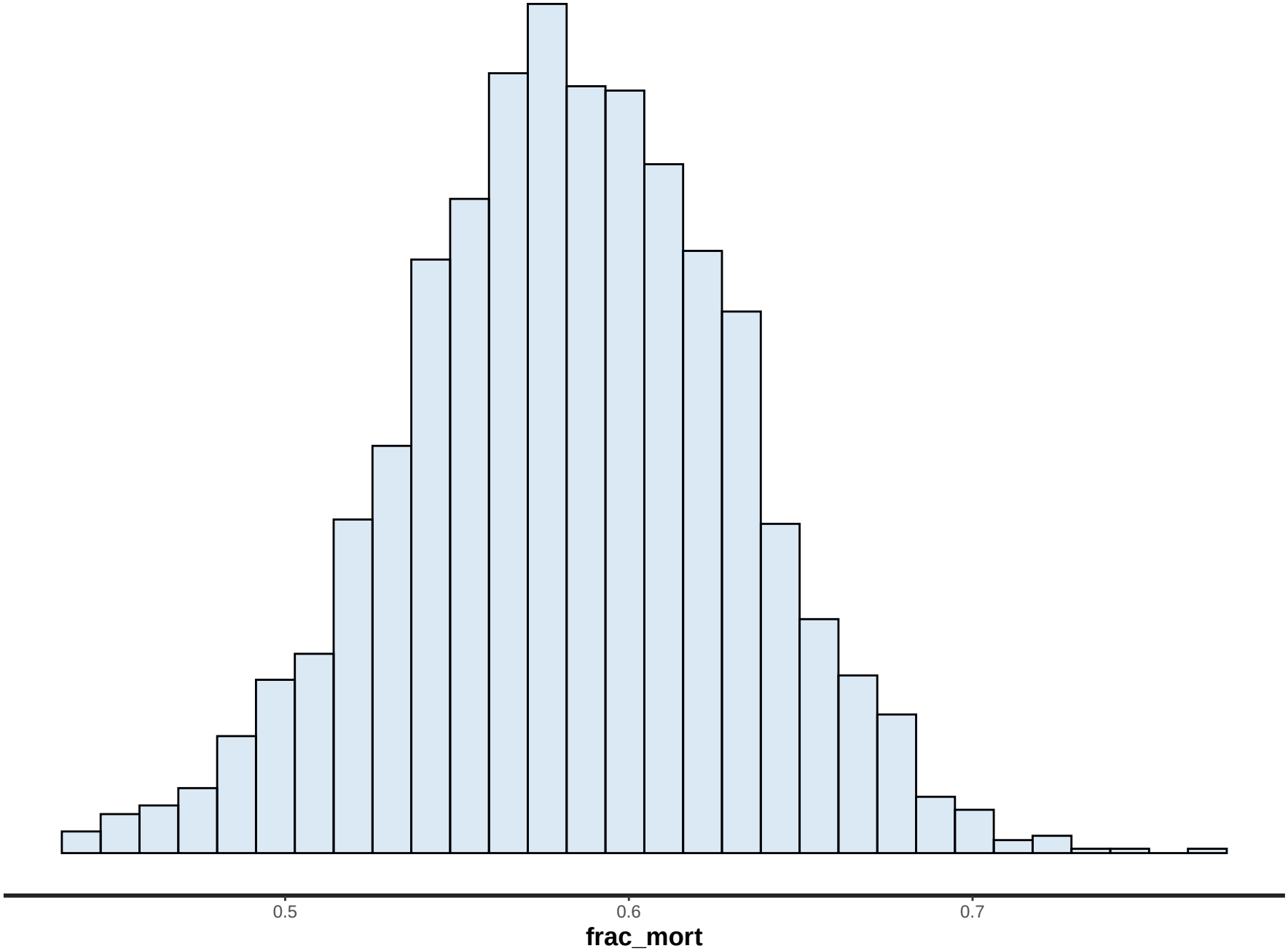
5.0
7.5
duration_pre_hosp


2
3
4
5
duration_hosp_mod


2
3
4
5
duration_hosp_icu


0.05
0.10
0.15
frac_hosp


0.16
0.20
0.24
frac_icu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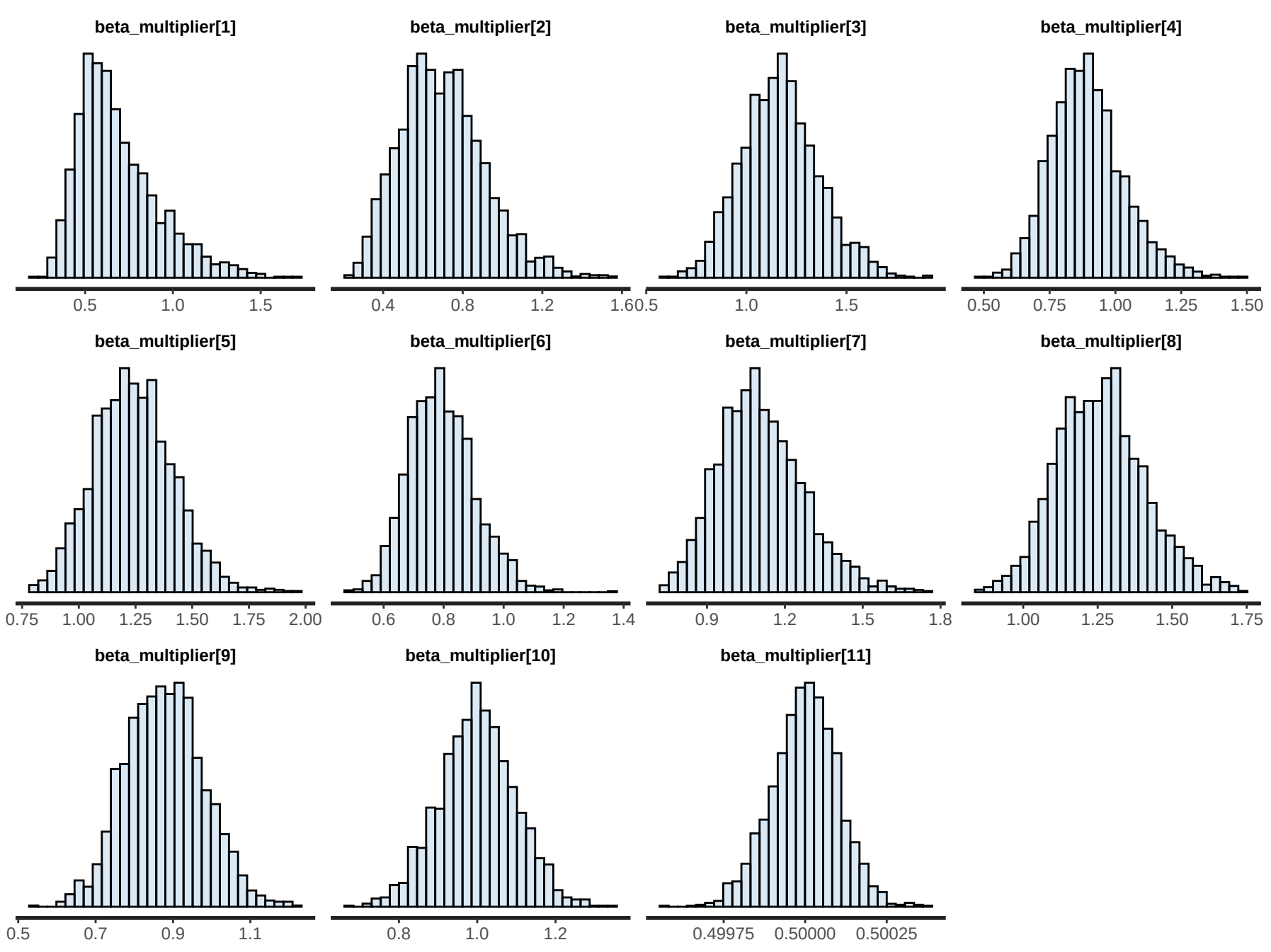
0.6
0.7
frac_mort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1.0
1.5
beta_multiplier[2]
0.4
0.8
1.2
1.6
beta_multiplier[3]
0.5
1.0
1.5
beta_multiplier[4]
0.50
0.75
1.00
1.25
1.50
beta_multiplier[5]
0.75
1.00
1.25
1.50
1.75
2.00
beta_multiplier[6]
0.6
0.8
1.0
1.2
1.4
beta_multiplier[7]
0.9
1.2
1.5
1.8
beta_multiplier[8]
1.00
1.25
1.50
1.75
beta_multiplier[9]
0.5
0.7
0.9
1.1
beta_multiplier[10]
0.8
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1.2
beta_multiplier[11]
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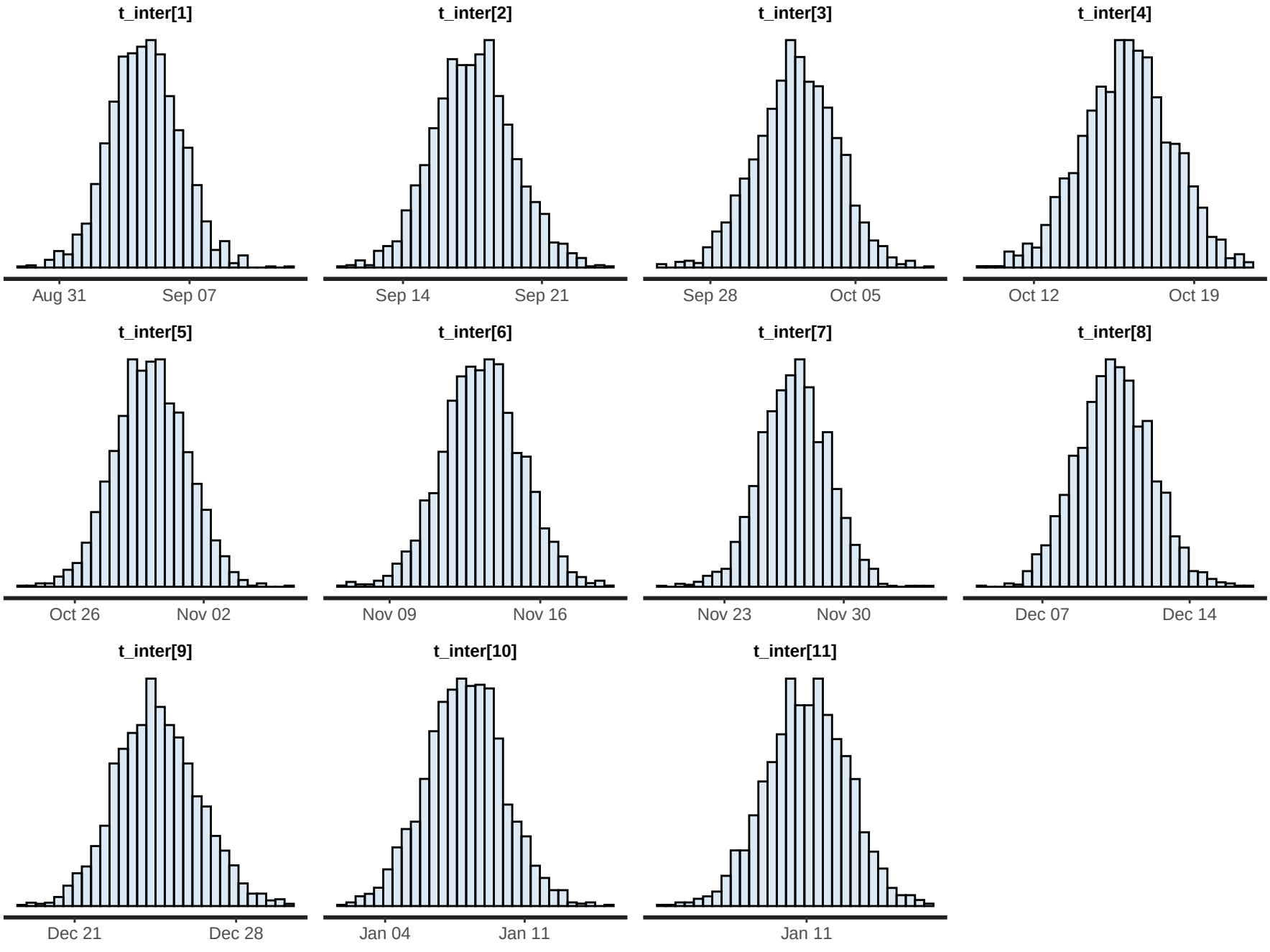
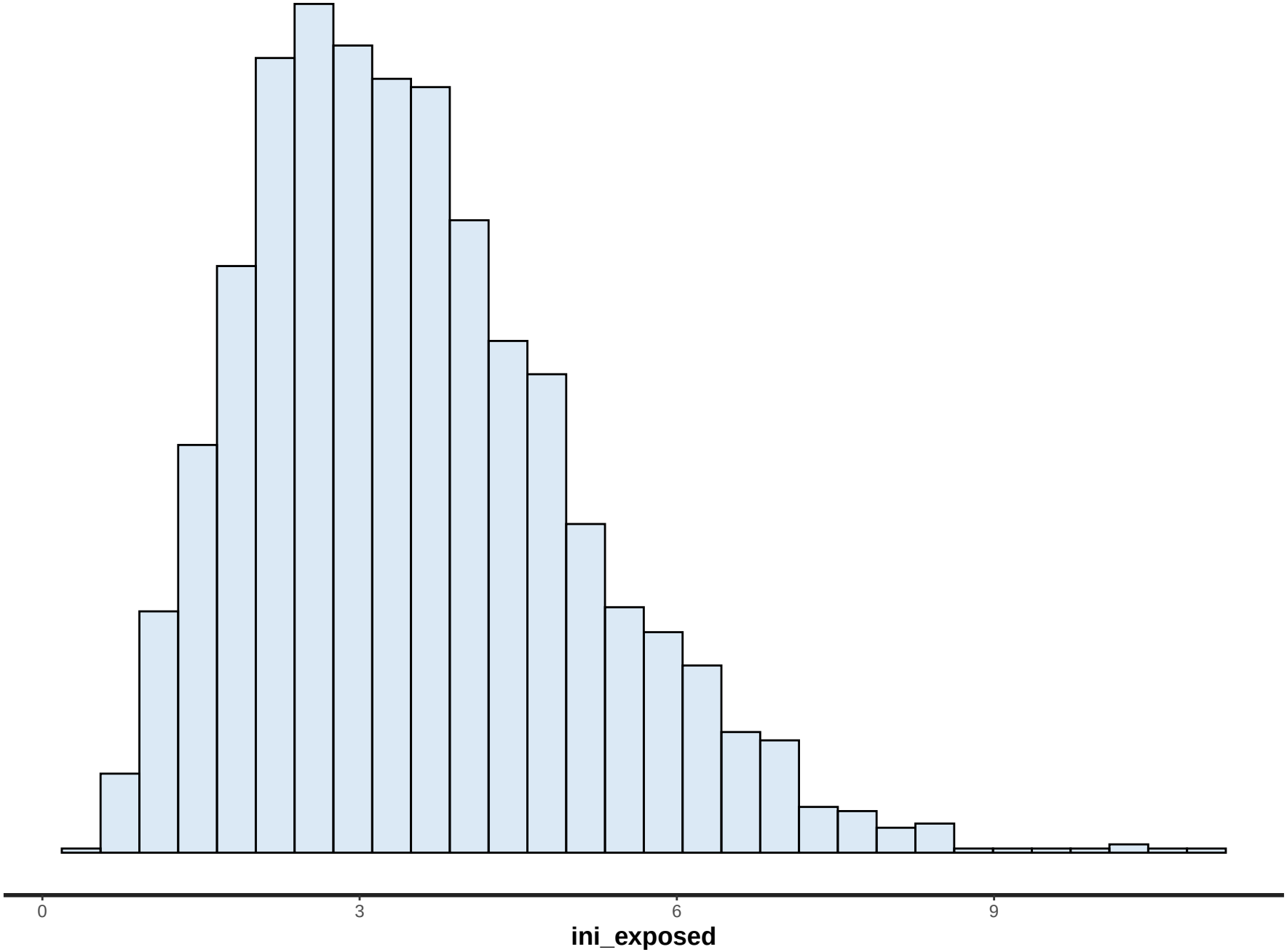
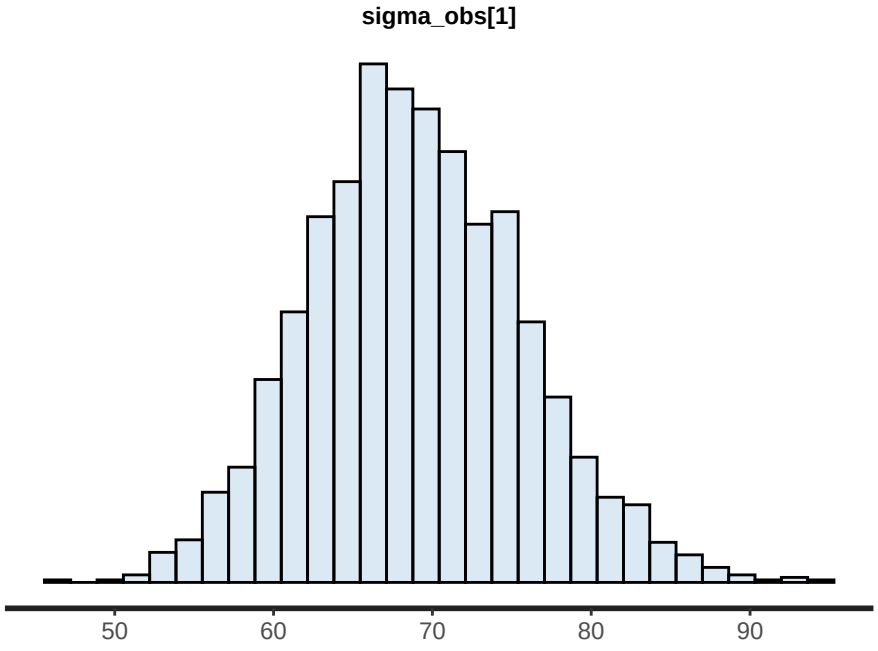
0.50000
0.50025


t_inter[1]
Aug 31
Sep 07
t_inter[2]
Sep 14
Sep 21
t_inter[3]
Sep 28
Oct 05
t_inter[4]
Oct 12
Oct 19
t_inter[5]
Oct 26
Nov 02
t_inter[6]
Nov 09
Nov 16
t_inter[7]
Nov 23
Nov 30
t_inter[8]
Dec 07
Dec 14
t_inter[9]
Dec 21
Dec 28
t_inter[10]
Jan 04
Jan 11
t_inter[11]
Jan 11


0
3
6
9
ini_exposed


sigma_obs[1]
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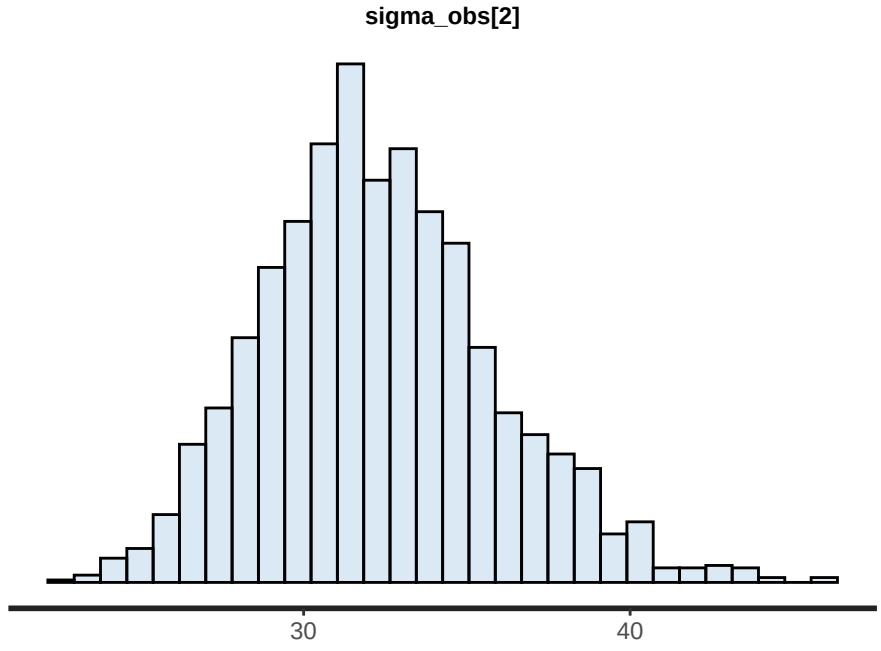
60
70
80
90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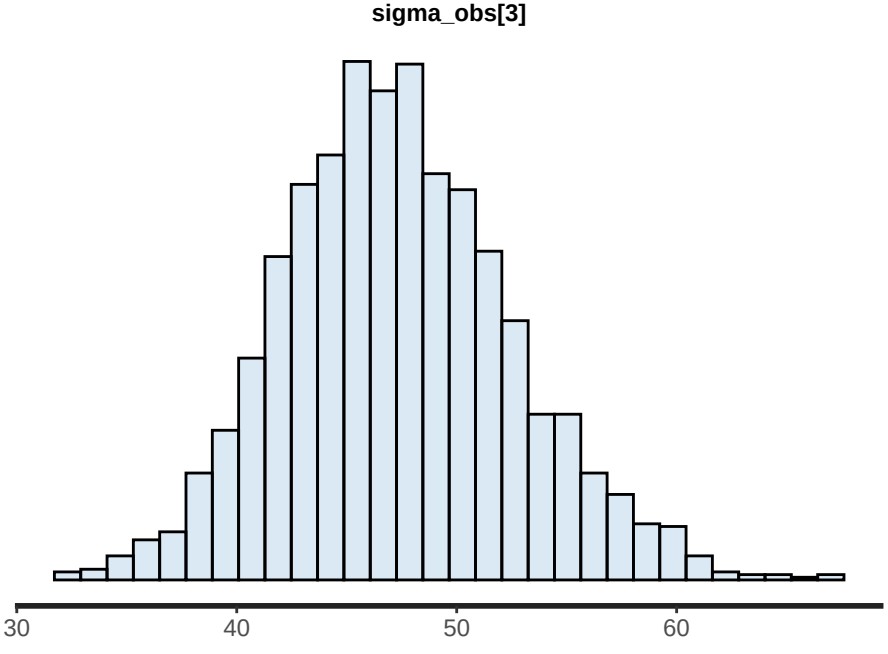
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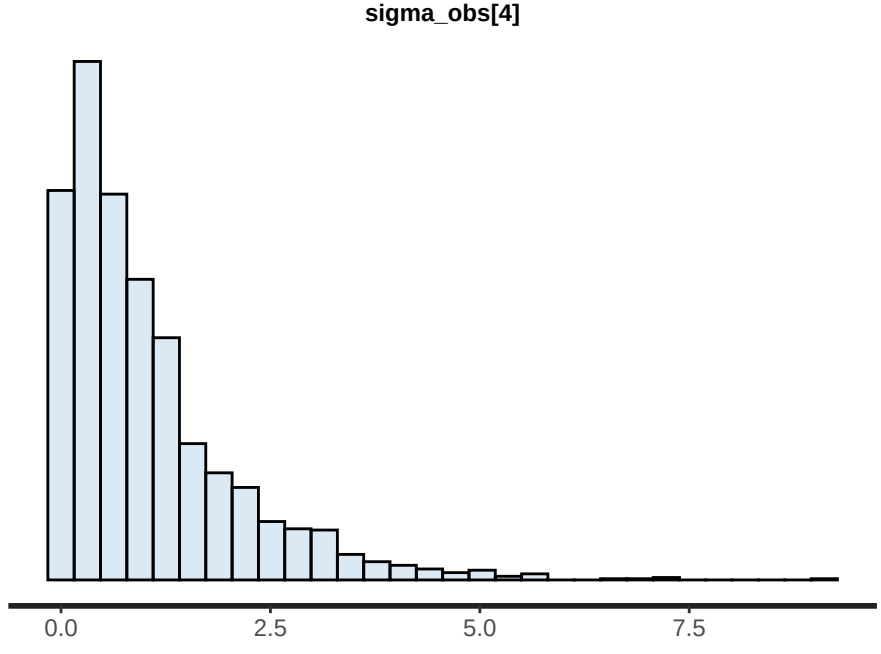
40
50
60


sigma_obs[4]
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2.5
5.0
7.5