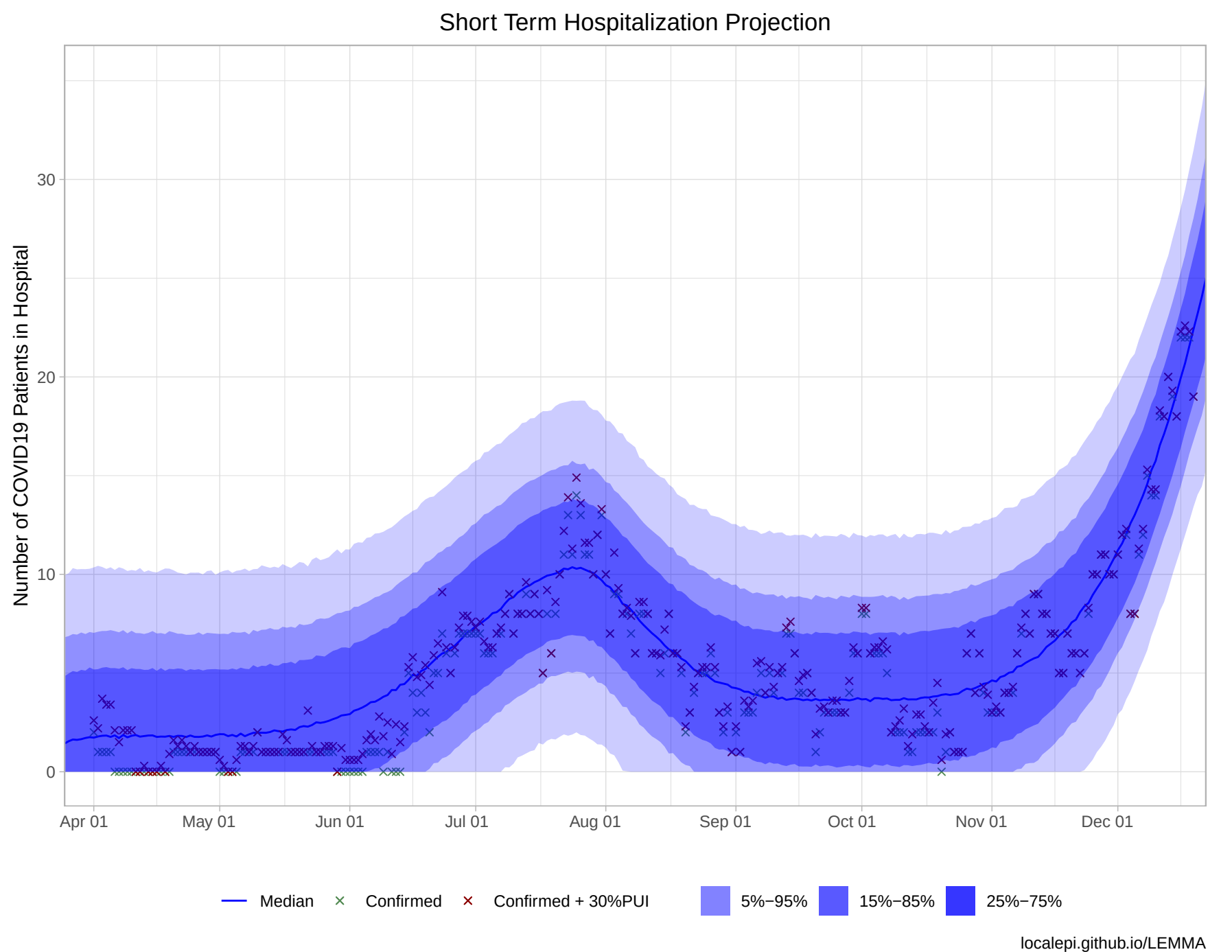
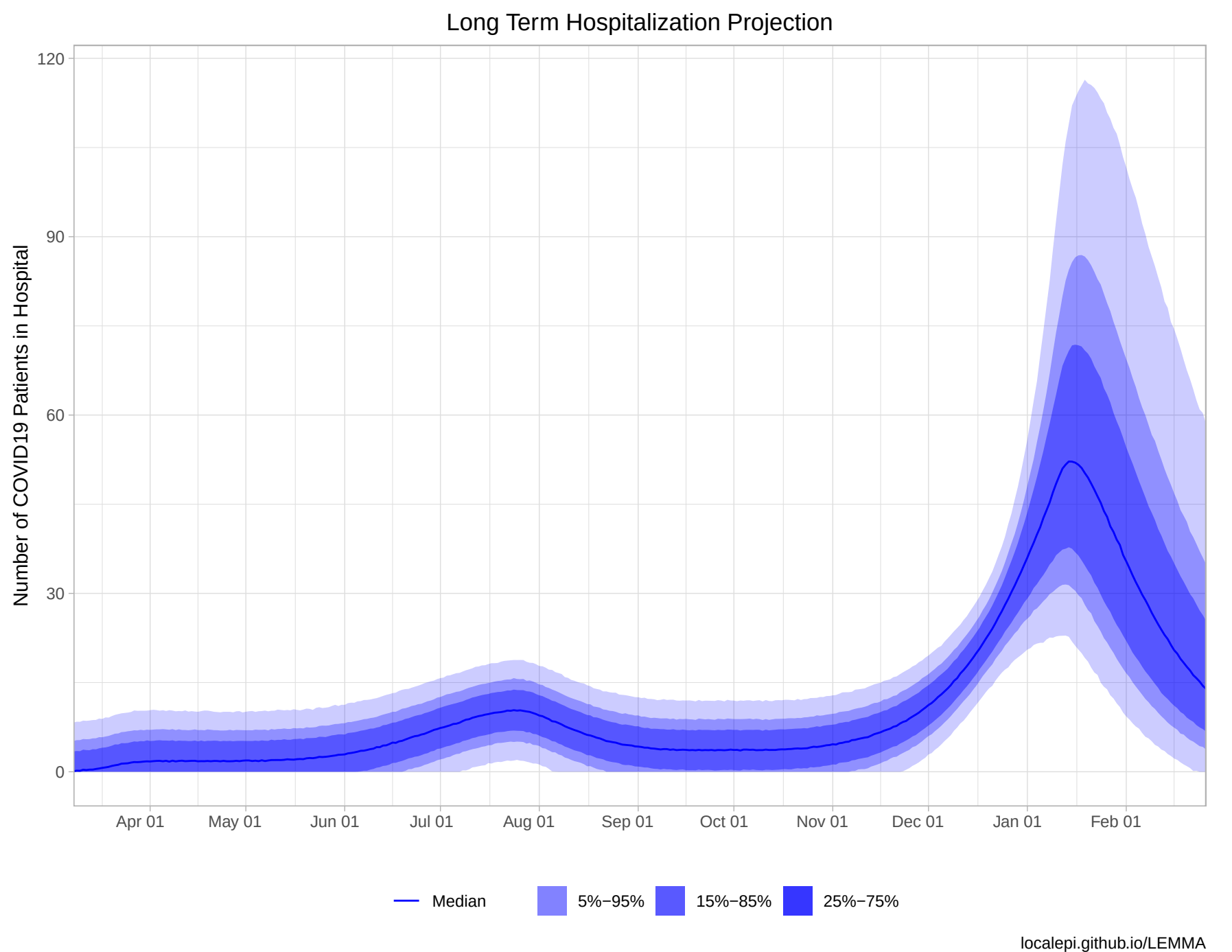
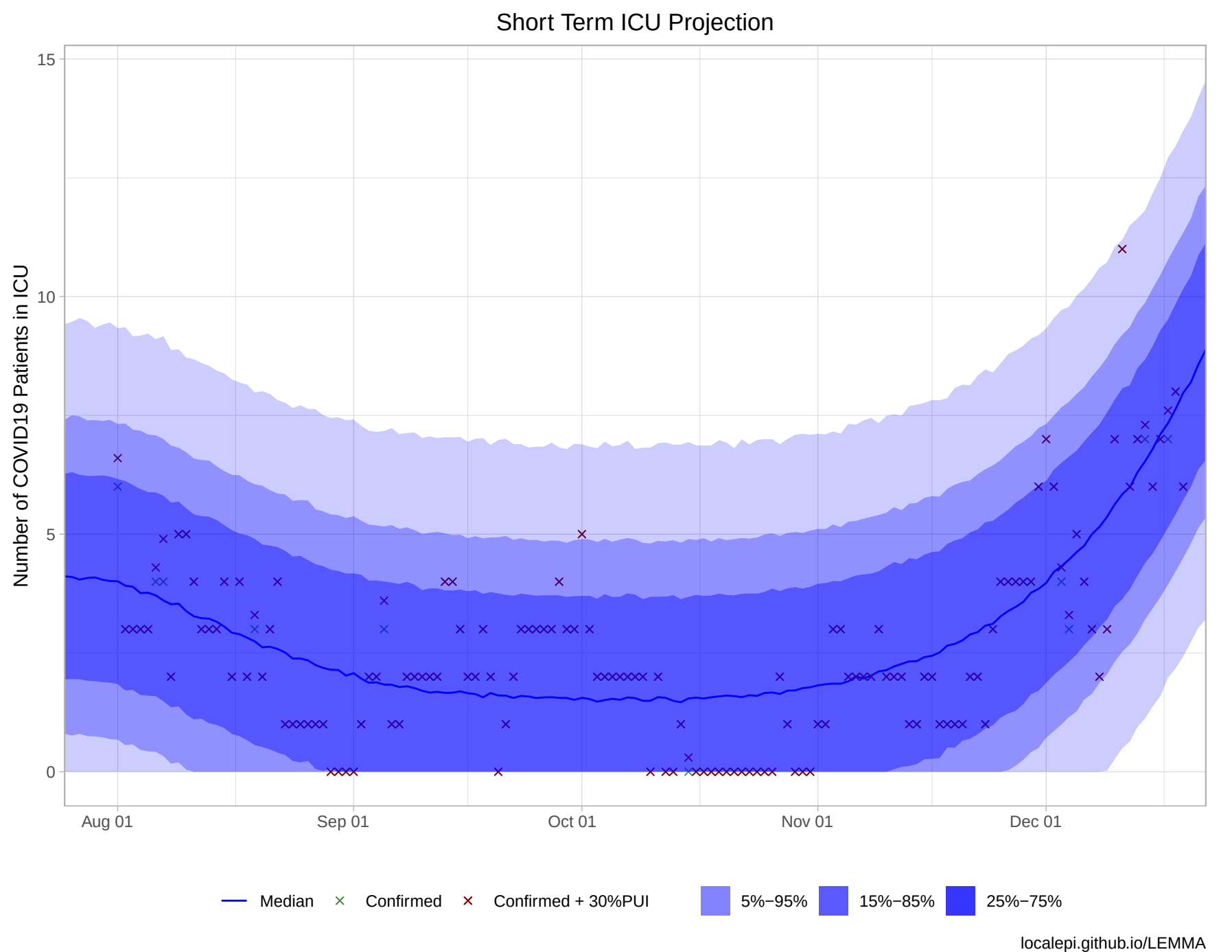
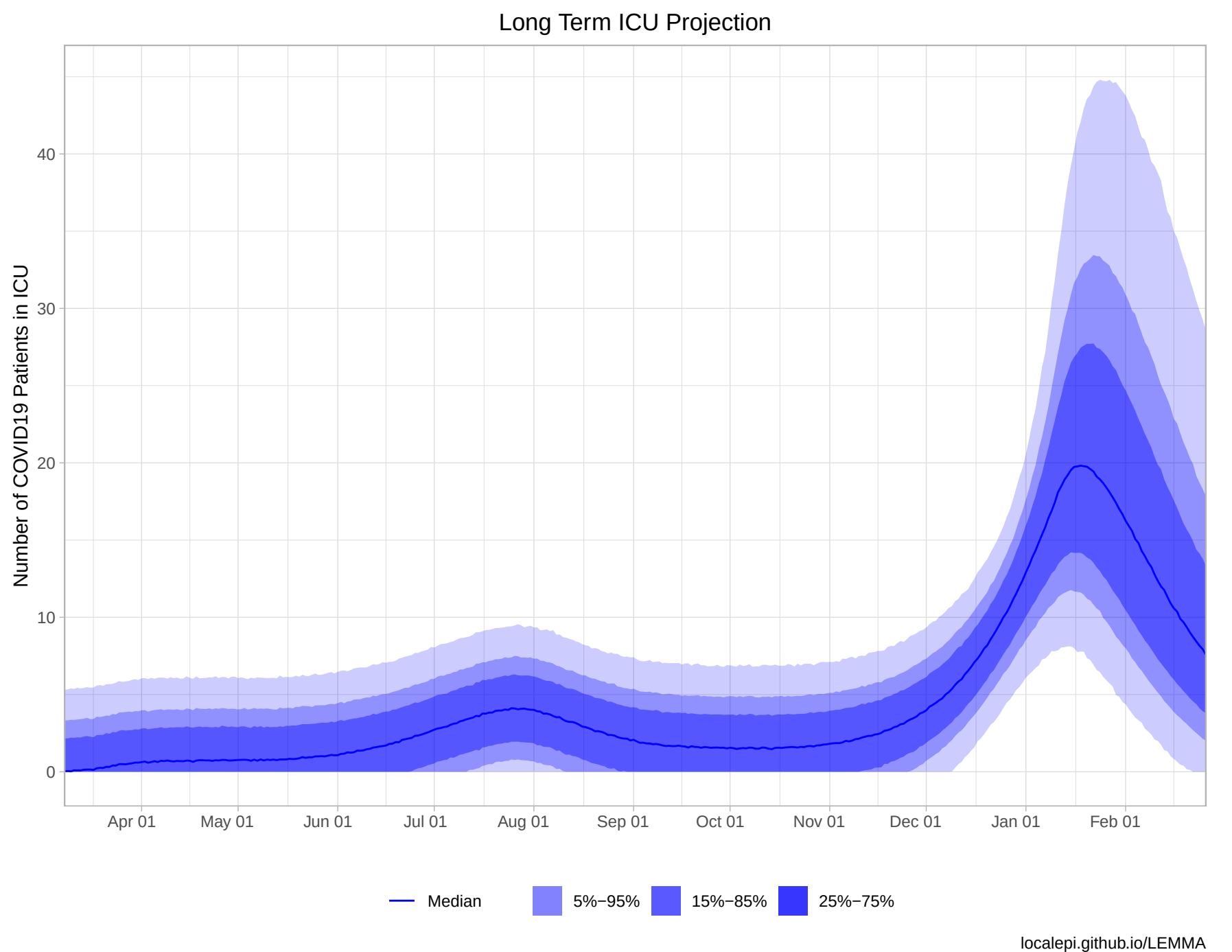
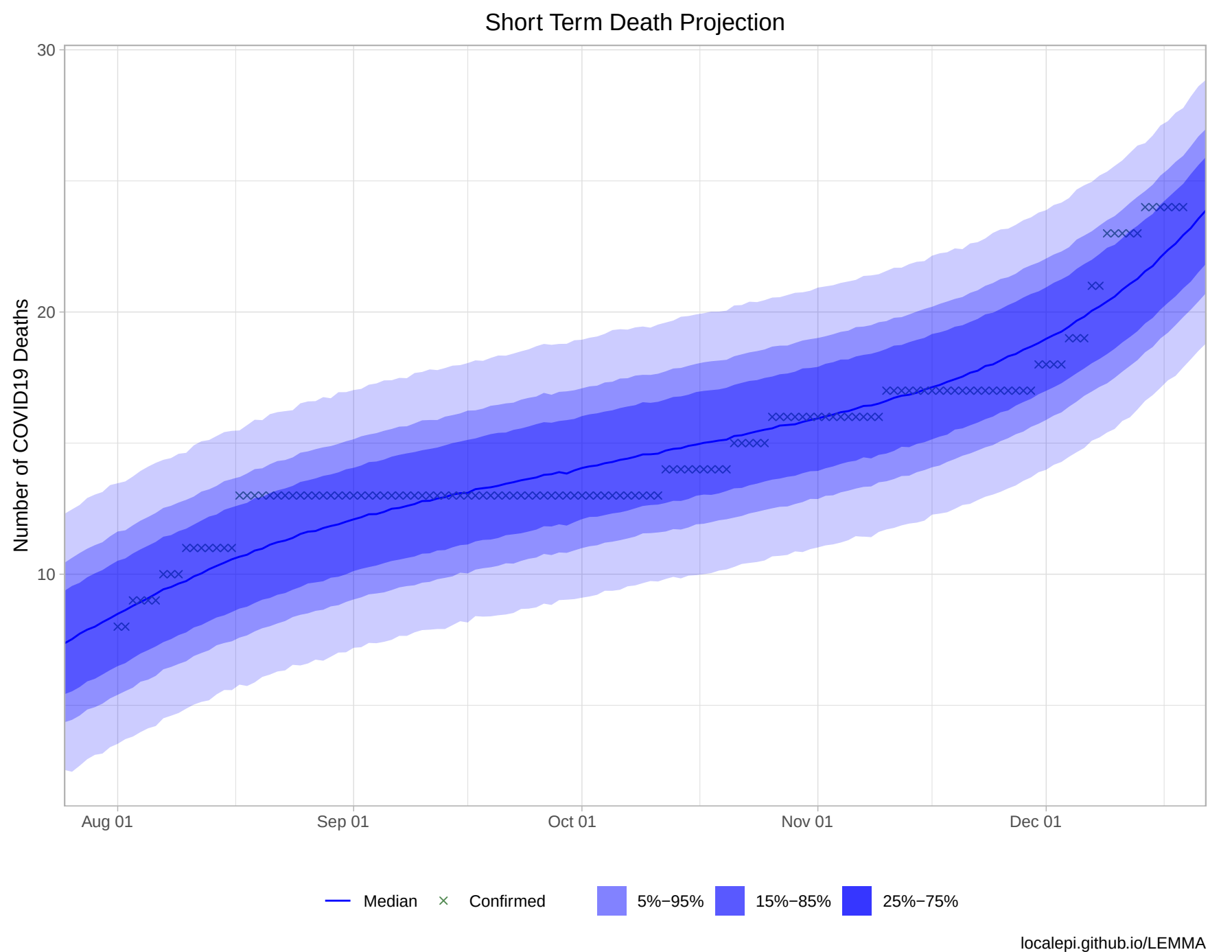
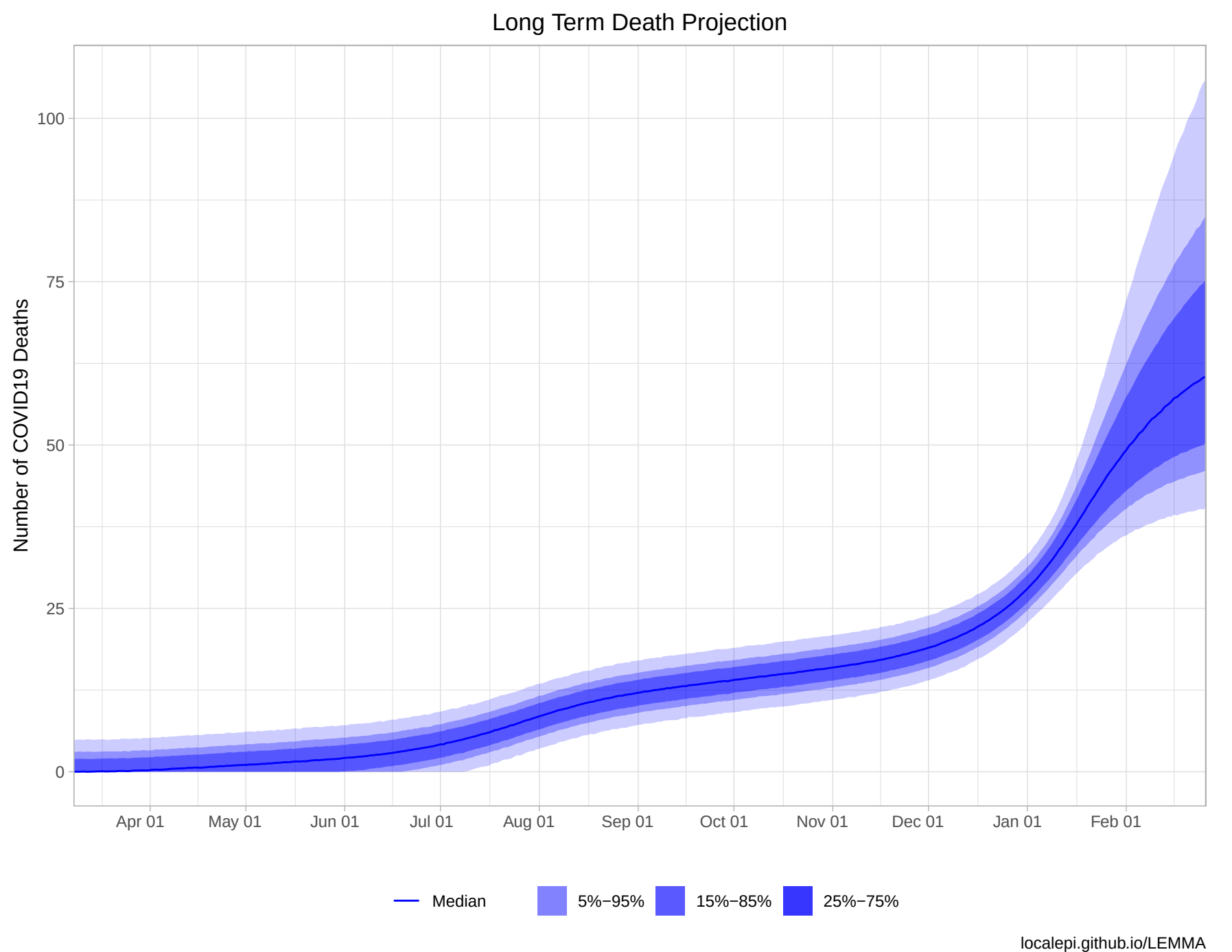

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
10
20
30
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

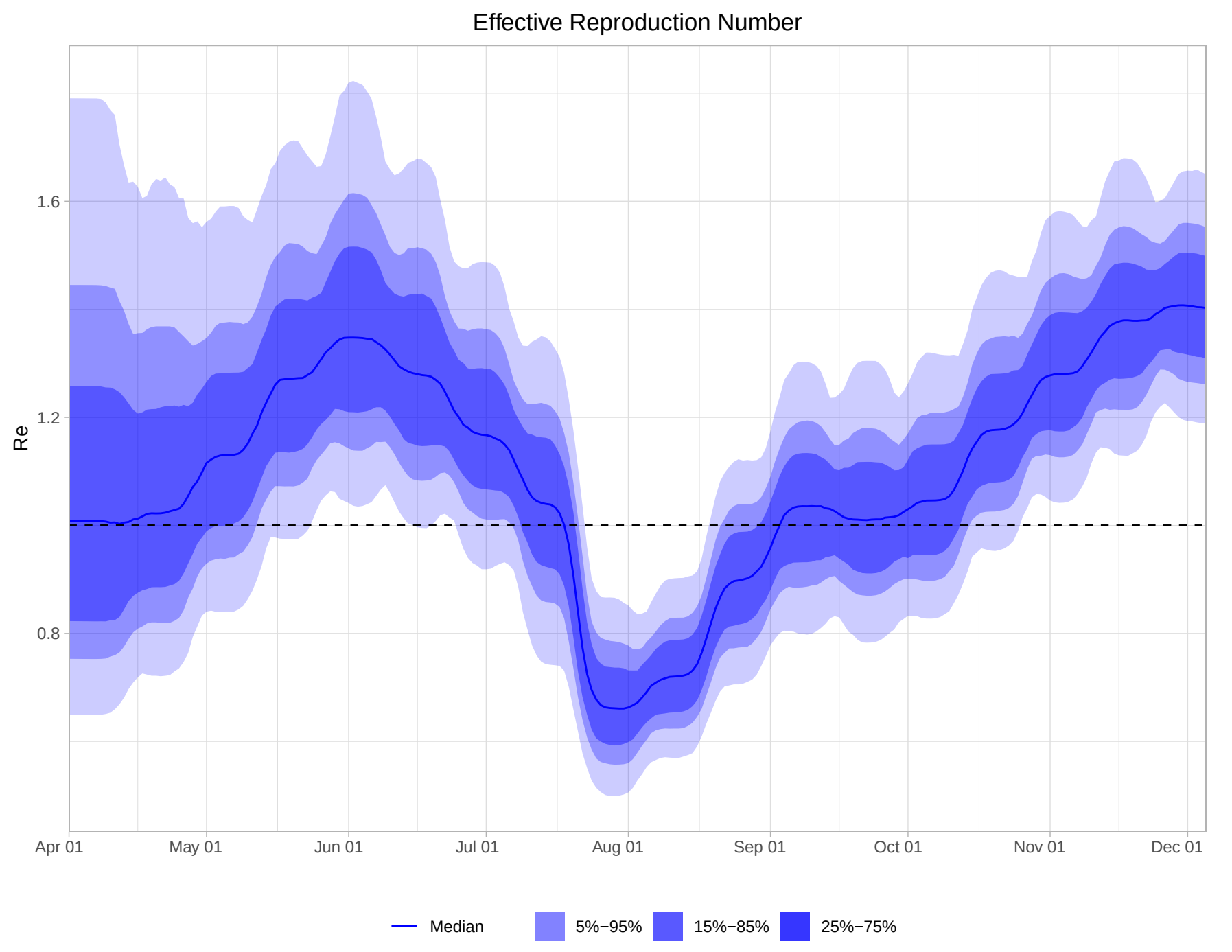

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
120
90
60
30
0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


Short Term ICU Projection
Number of COVID19 Patients in ICU
15
10
5
0
Aug 01
Sep 01
Oct 01
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
10
20
30
40
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

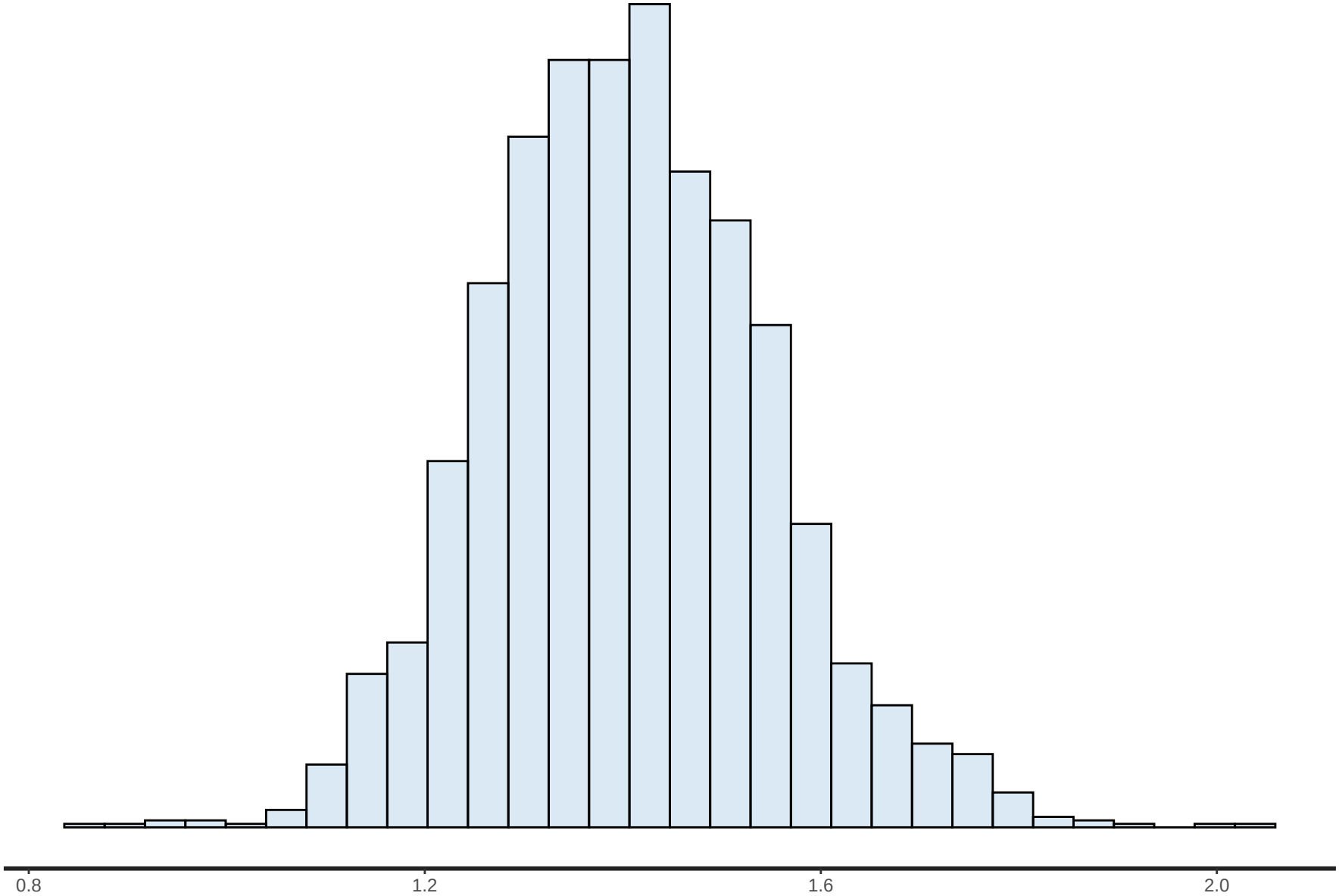

Short Term Death Projection
Number of COVID19 Deaths
30
20
10
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

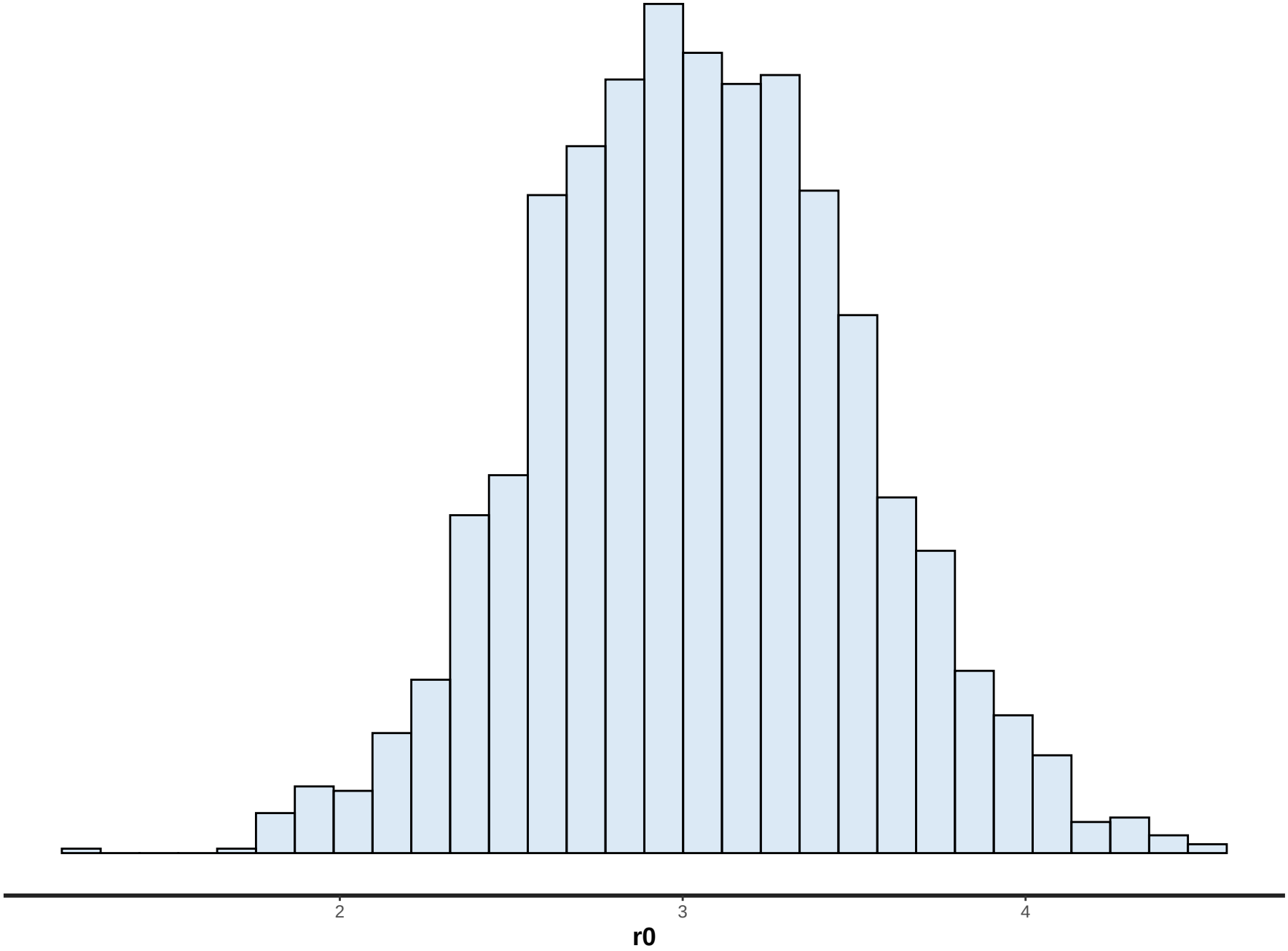

Long Term Death Projection
Number of COVID19 Deaths
100
75
50
25
0
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

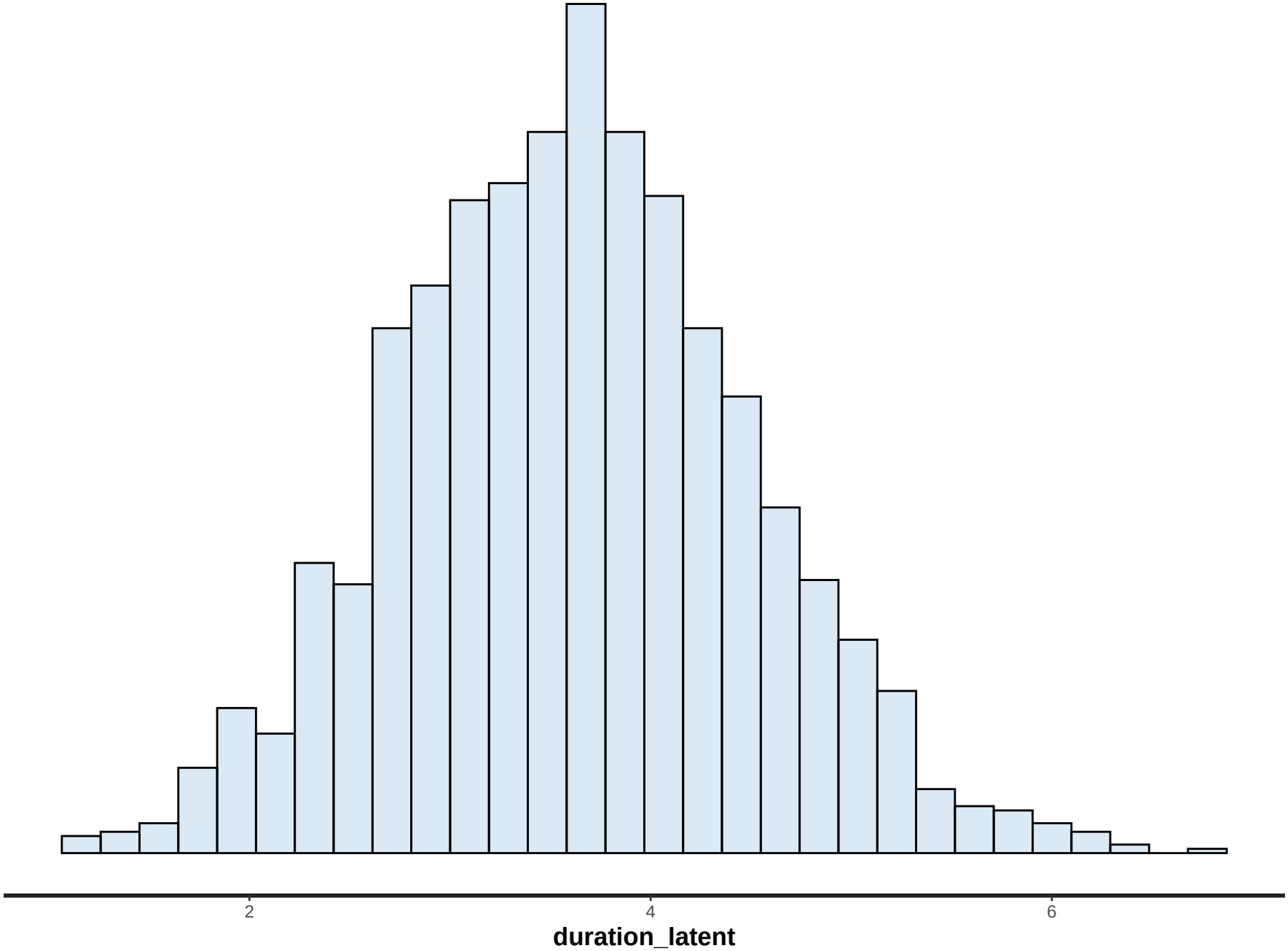

Effective Reproduction Number
Re
1.6
1.2
0.8
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
5%−95%
15%−85%
25%−75%

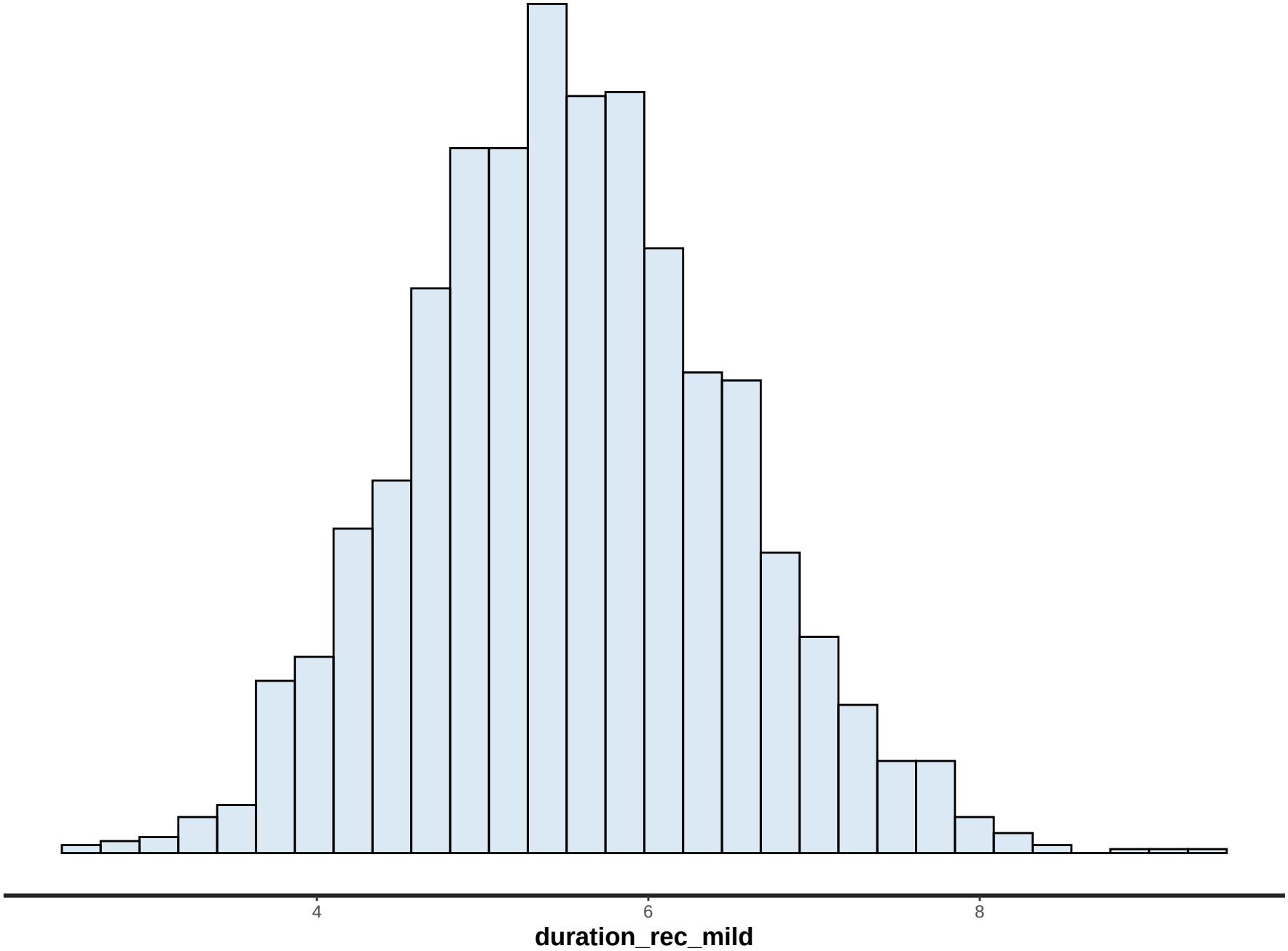
# Rt as of 2020−12−05

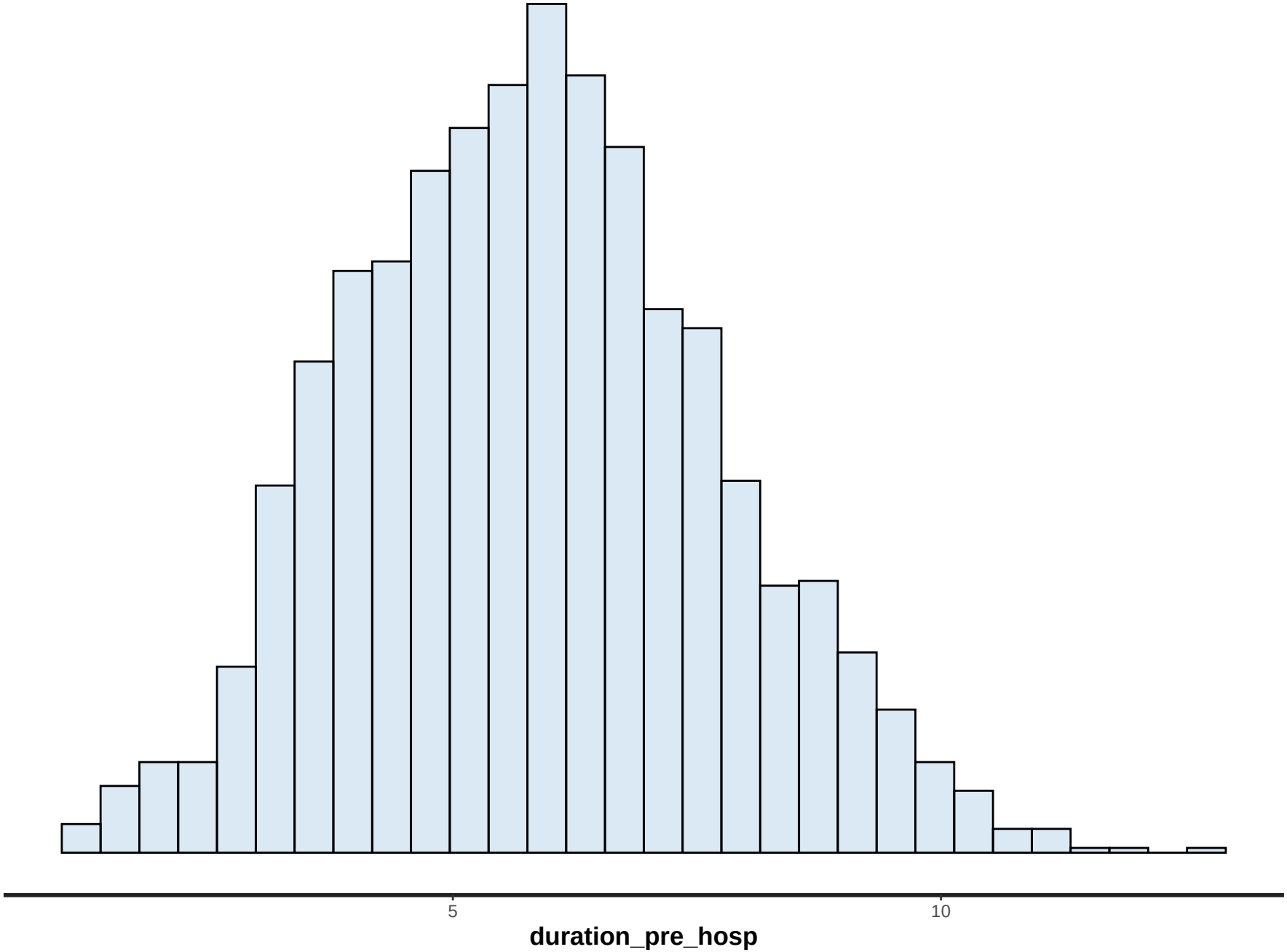
| 5% | 10% | 25% | 50% | 75% | 90% | 95% |
|---|---|---|---|---|---|---|
| 1.19 | 1.24 | 1.31 | 1.40 | 1.50 | 1.58 | 1.65 |

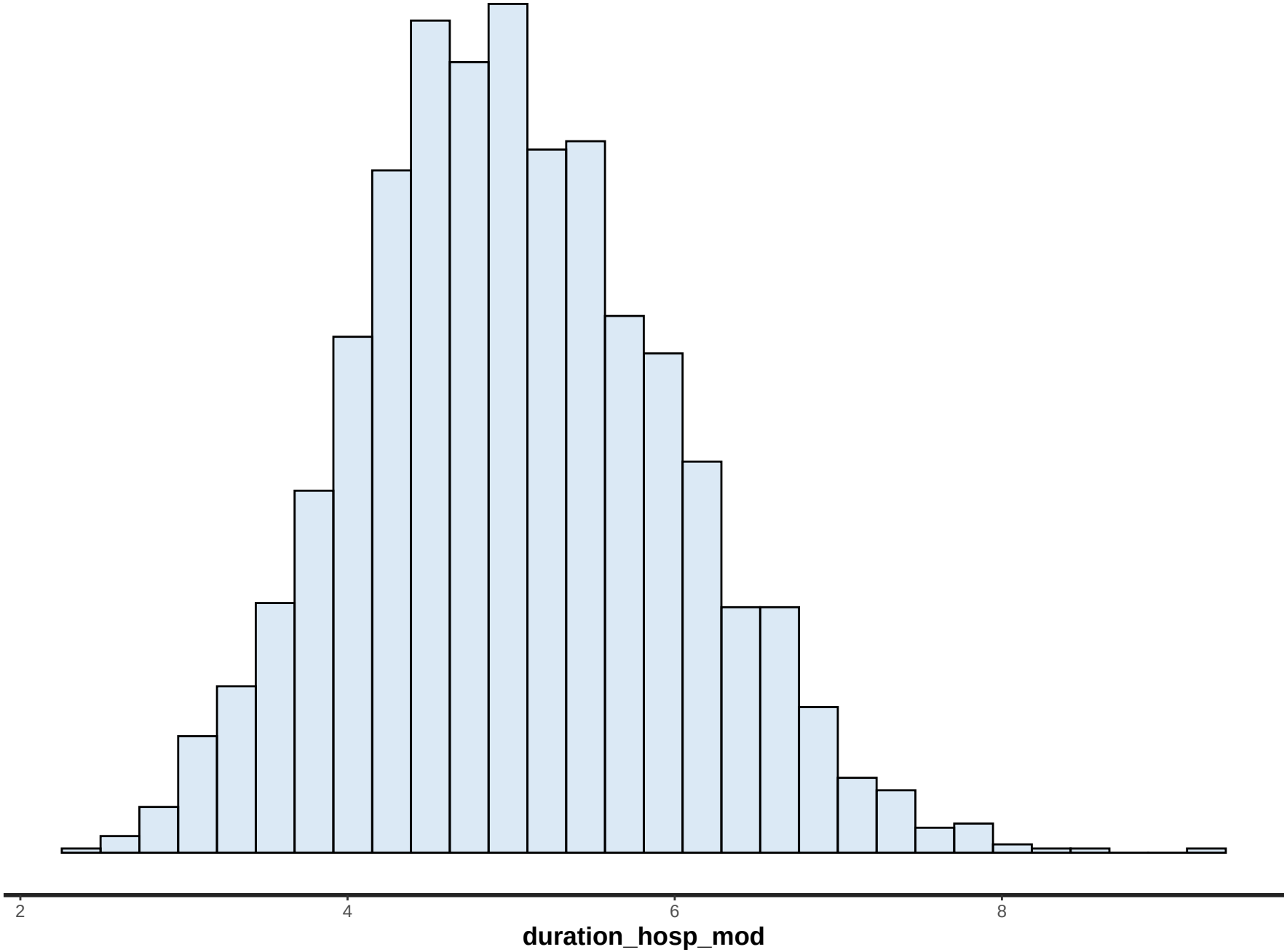


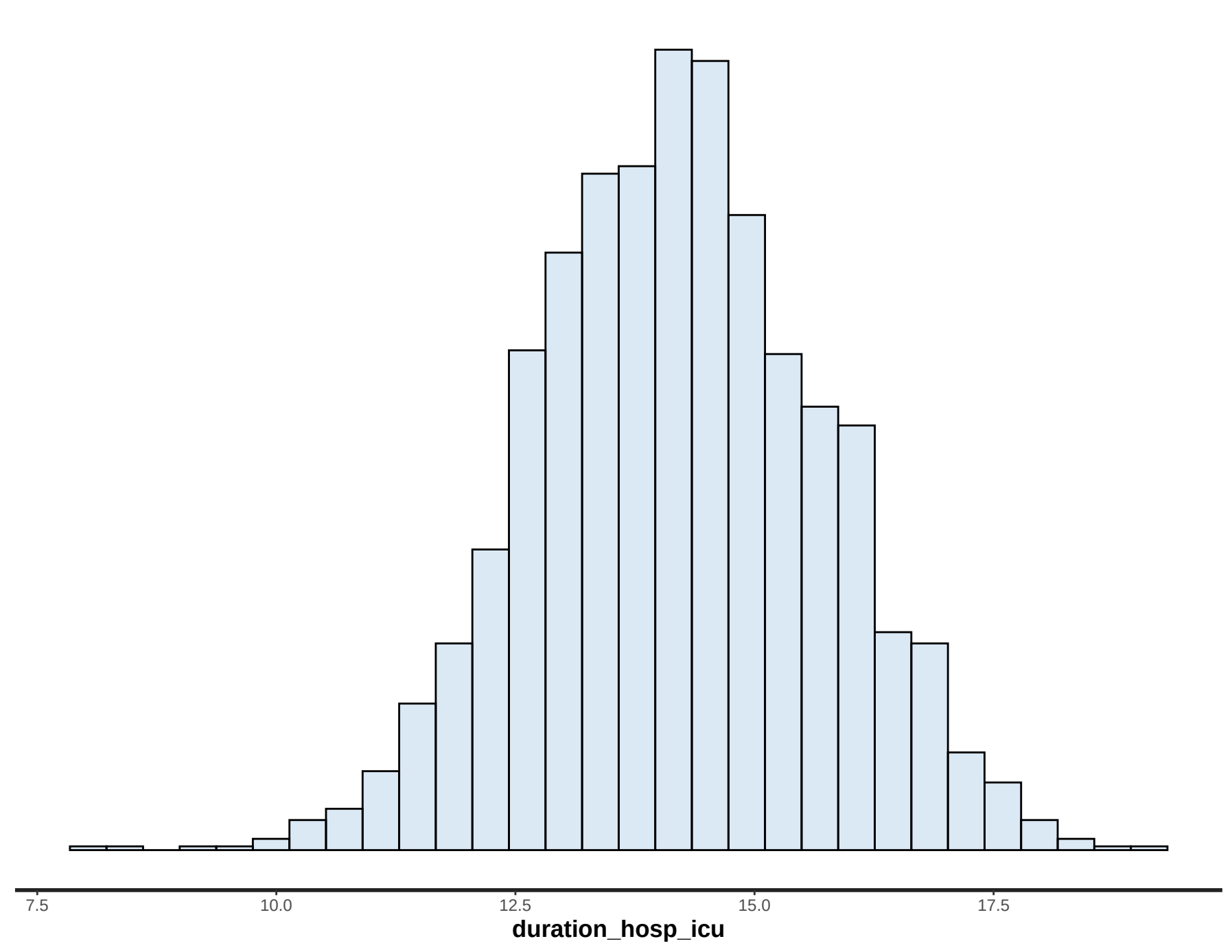

2
3
4
r0

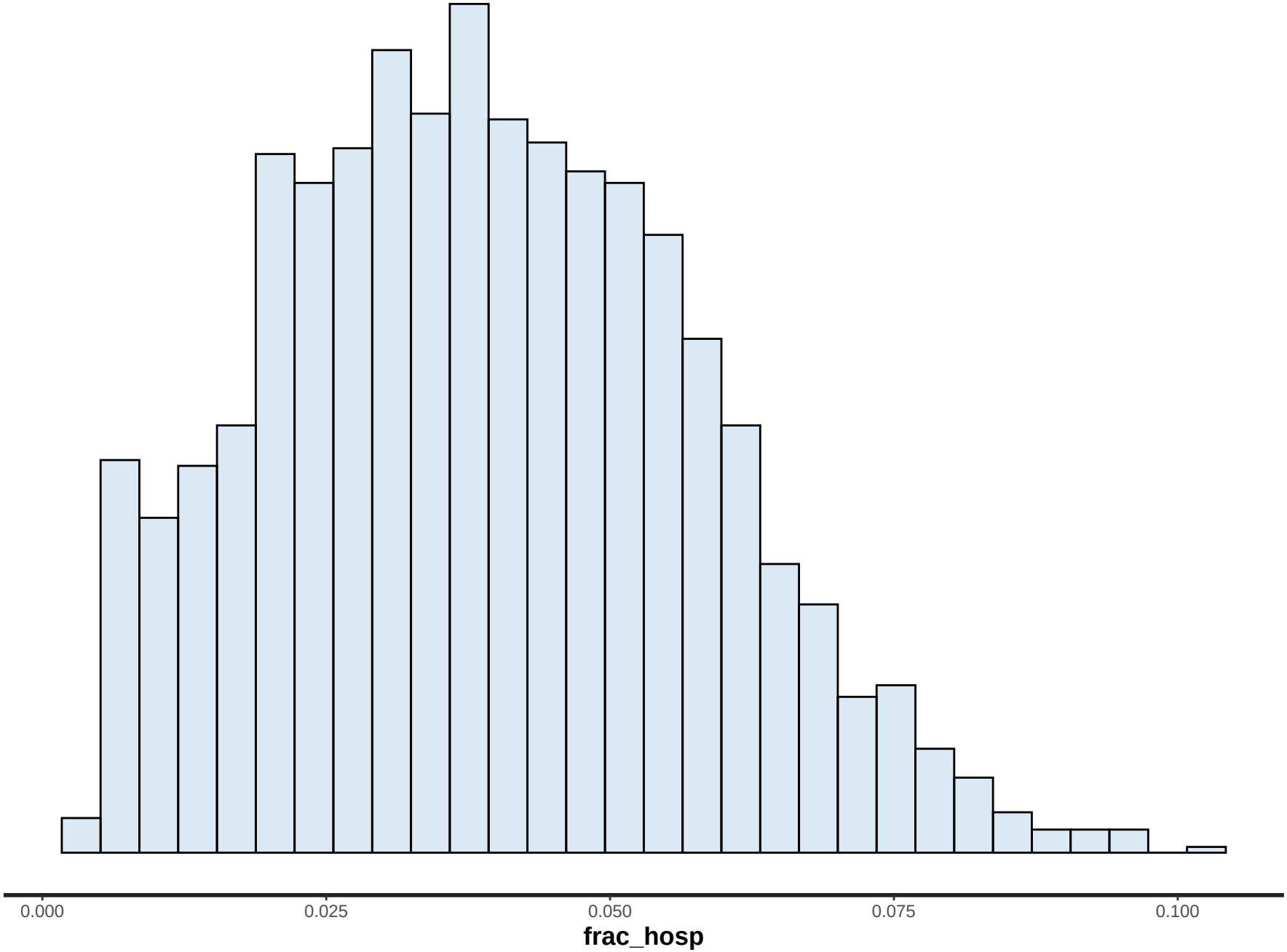

2
4
6
duration_latent

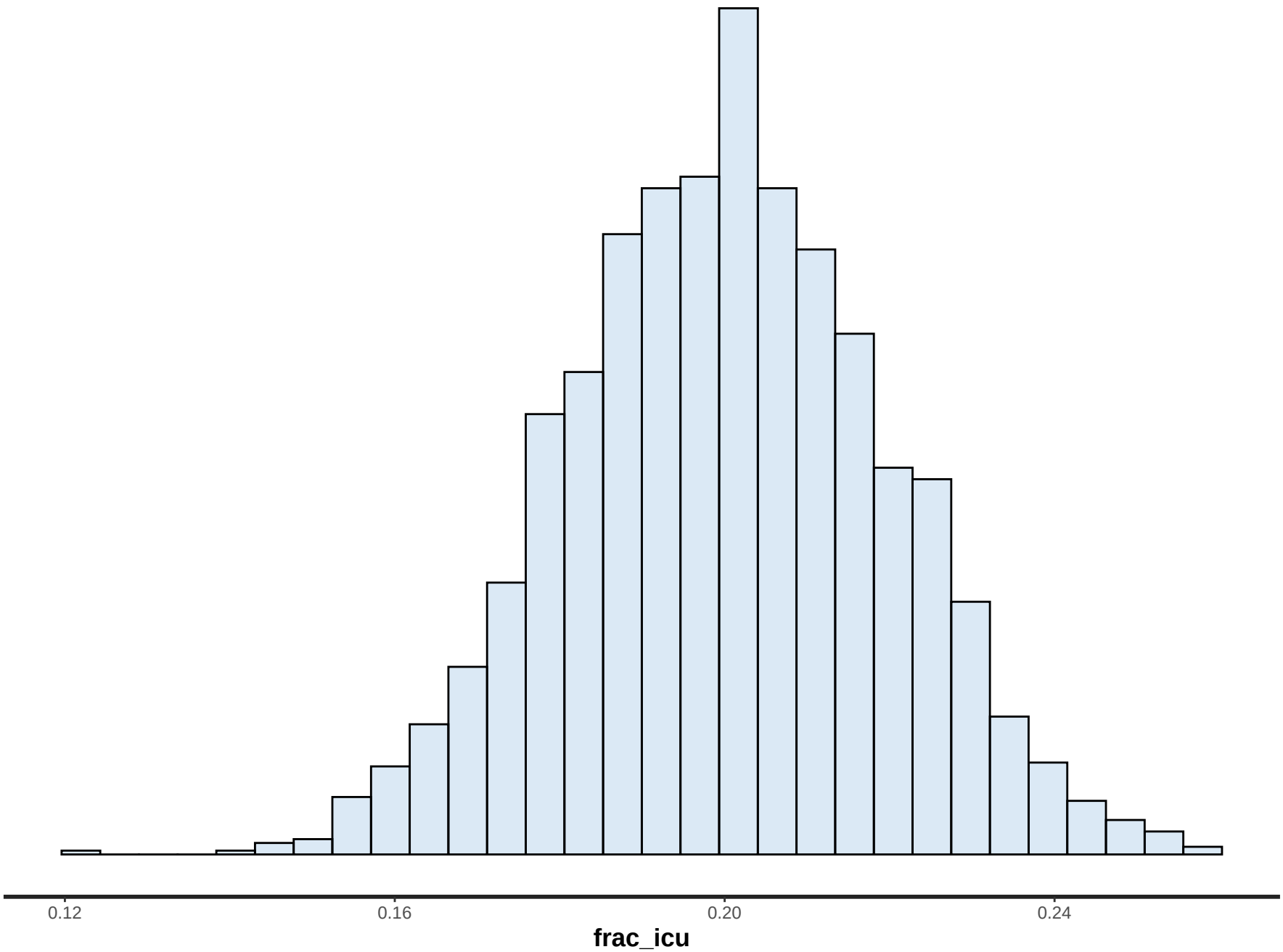

4
6
8
duration_rec_mild

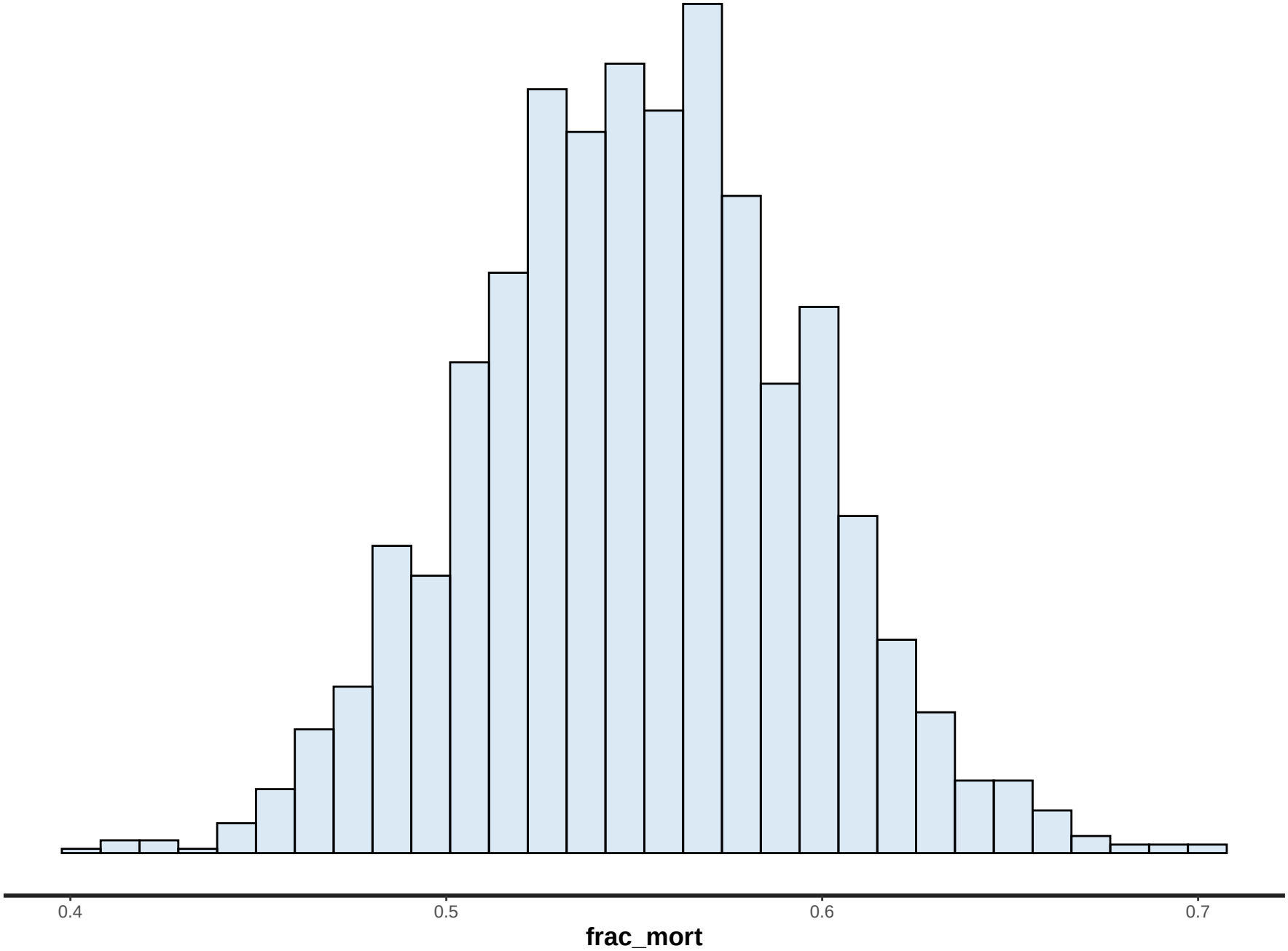

5
10
duration_pre_hosp

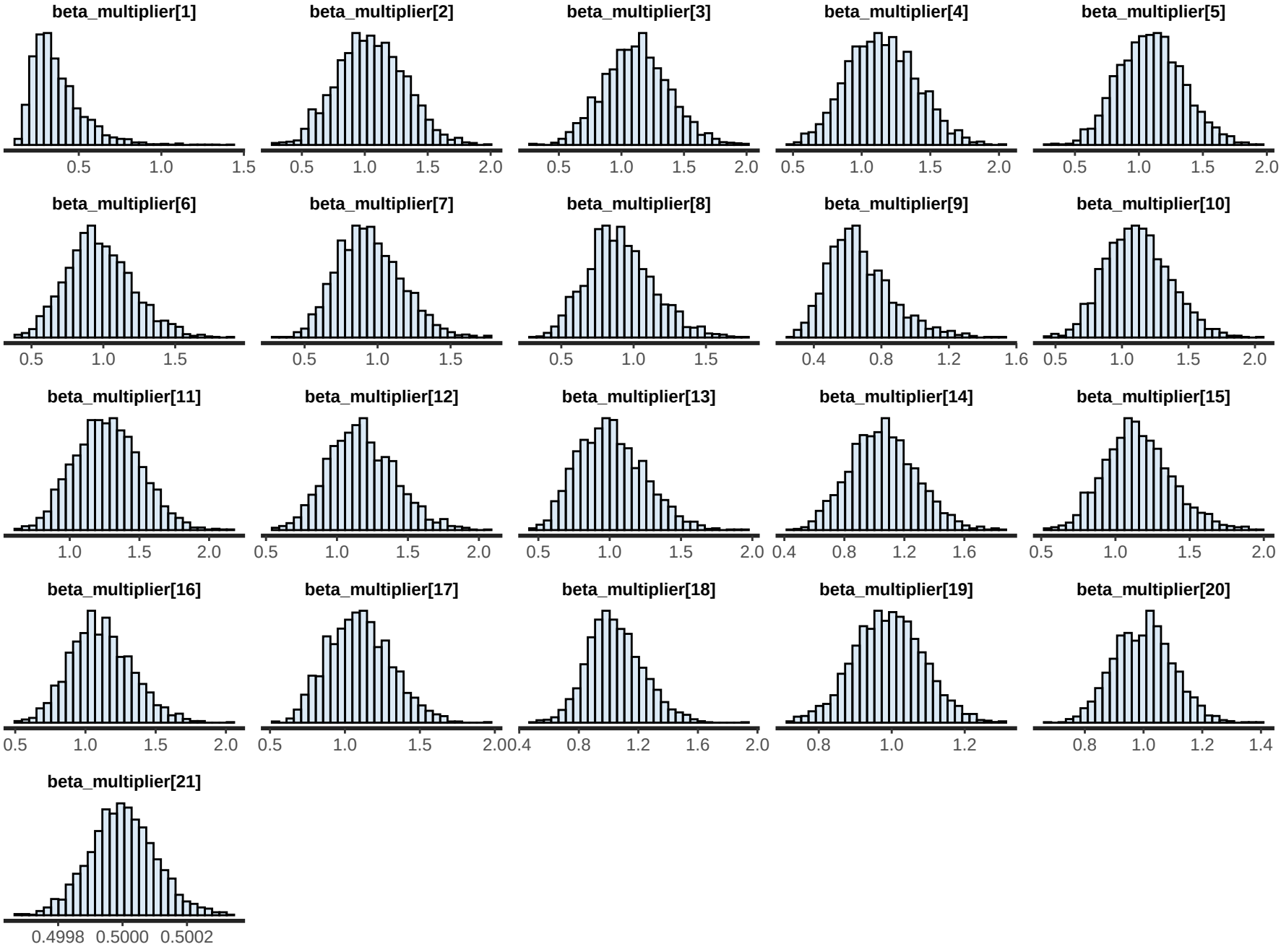

2
4
6
8
duration_hosp_mod


7.5
10.0
12.5
15.0
17.5
duration_hosp_icu


0.000
0.025
0.050
0.075
0.100
frac_hosp


0.12
0.16
0.20
0.24
frac_icu


0.4
0.5
0.6
0.7
frac_mort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beta_multiplier[2]
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beta_multiplier[4]
0.5 1.0 1.5 2.0
beta_multiplier[5]
0.5 1.0 1.5 2.0
beta_multiplier[6]
0.5 1.0 1.5
beta_multiplier[7]
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beta_multiplier[8]
0.5 1.0 1.5
beta_multiplier[9]
0.4 0.8 1.2 1.6
beta_multiplier[10]
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beta_multiplier[11]
1.0 1.5 2.0
beta_multiplier[12]
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beta_multiplier[13]
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beta_multiplier[14]
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beta_multiplier[15]
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beta_multiplier[16]
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beta_multiplier[17]
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beta_multiplier[18]
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beta_multiplier[19]
0.8 1.0 1.2
beta_multiplier[20]
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beta_multiplier[21]
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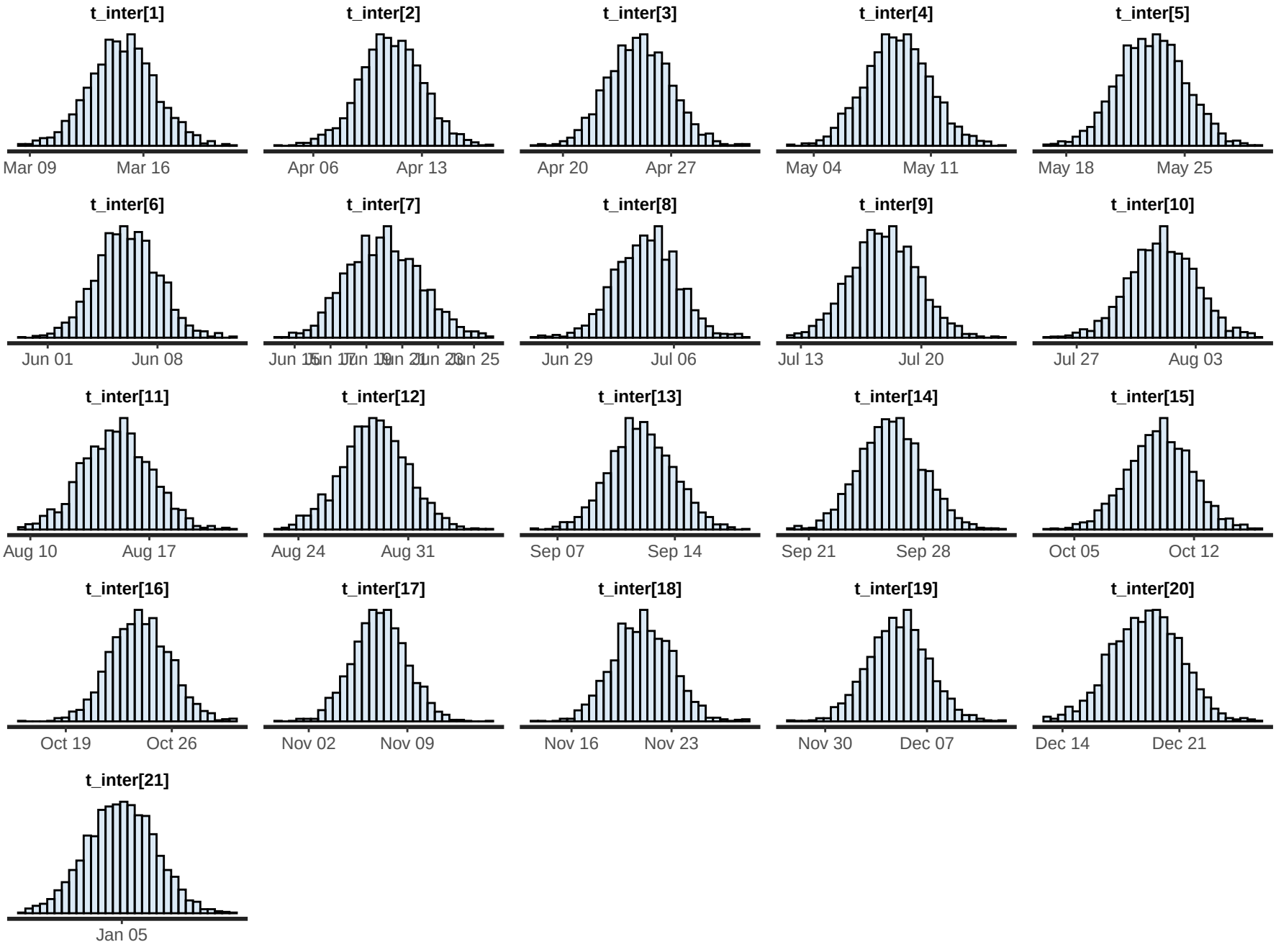
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Apr 20
Apr 27
t_inter[4]
May 04
May 11
t_inter[5]
May 18
May 25
t_inter[6]
Jun 01
Jun 08
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Jun 15
Jun 17
Jun 19
Jun 21
Jun 23
Jun 25
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Jun 29
Jul 06
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Jul 20
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Jul 27
Aug 03
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Aug 10
Aug 17
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Aug 24
Aug 31
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Nov 02
Nov 09
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Nov 16
Nov 23
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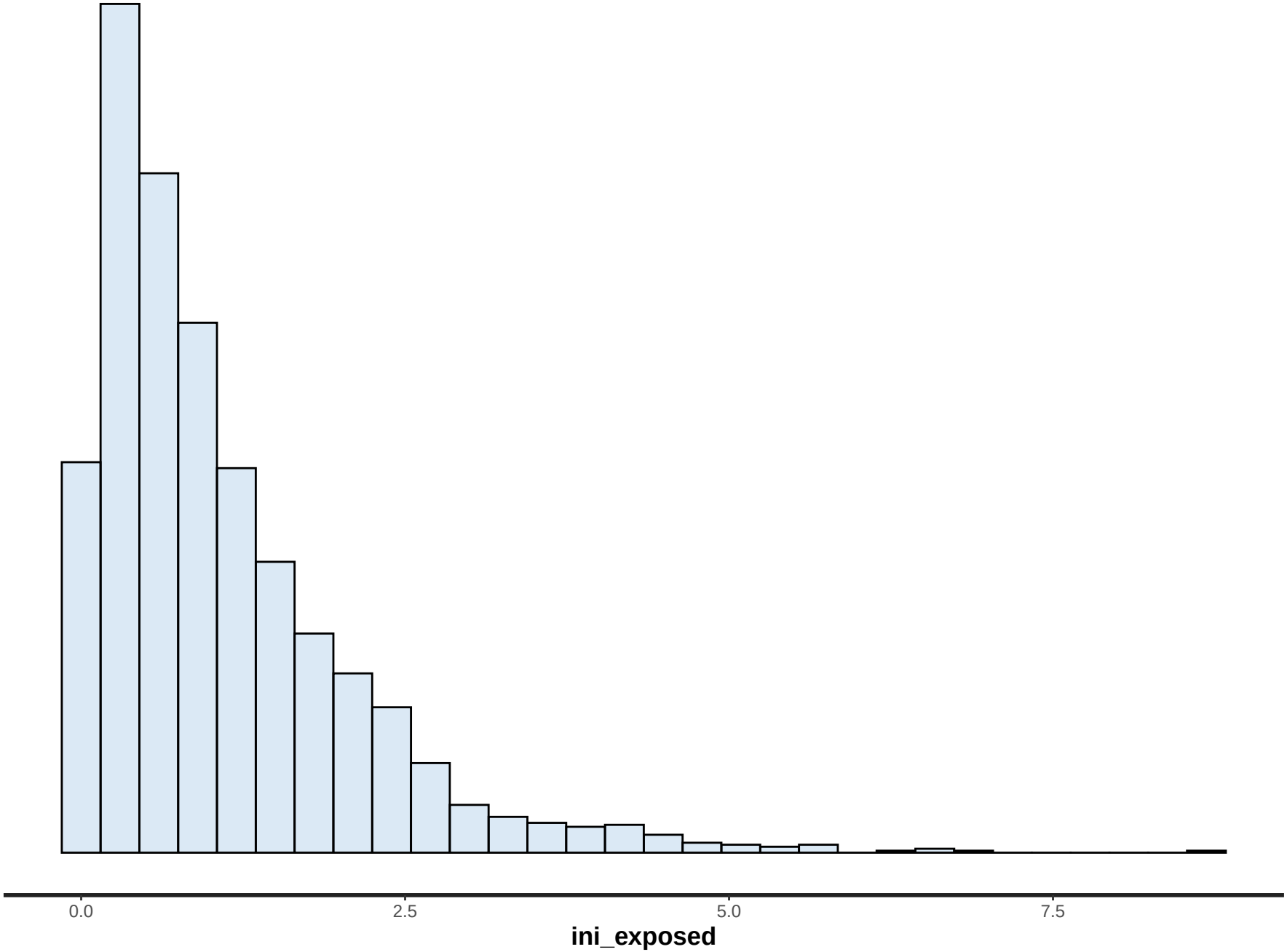
Nov 30
Dec 07
t_inter[20]
Dec 14
Dec 21
t_inter[21]
Jan 05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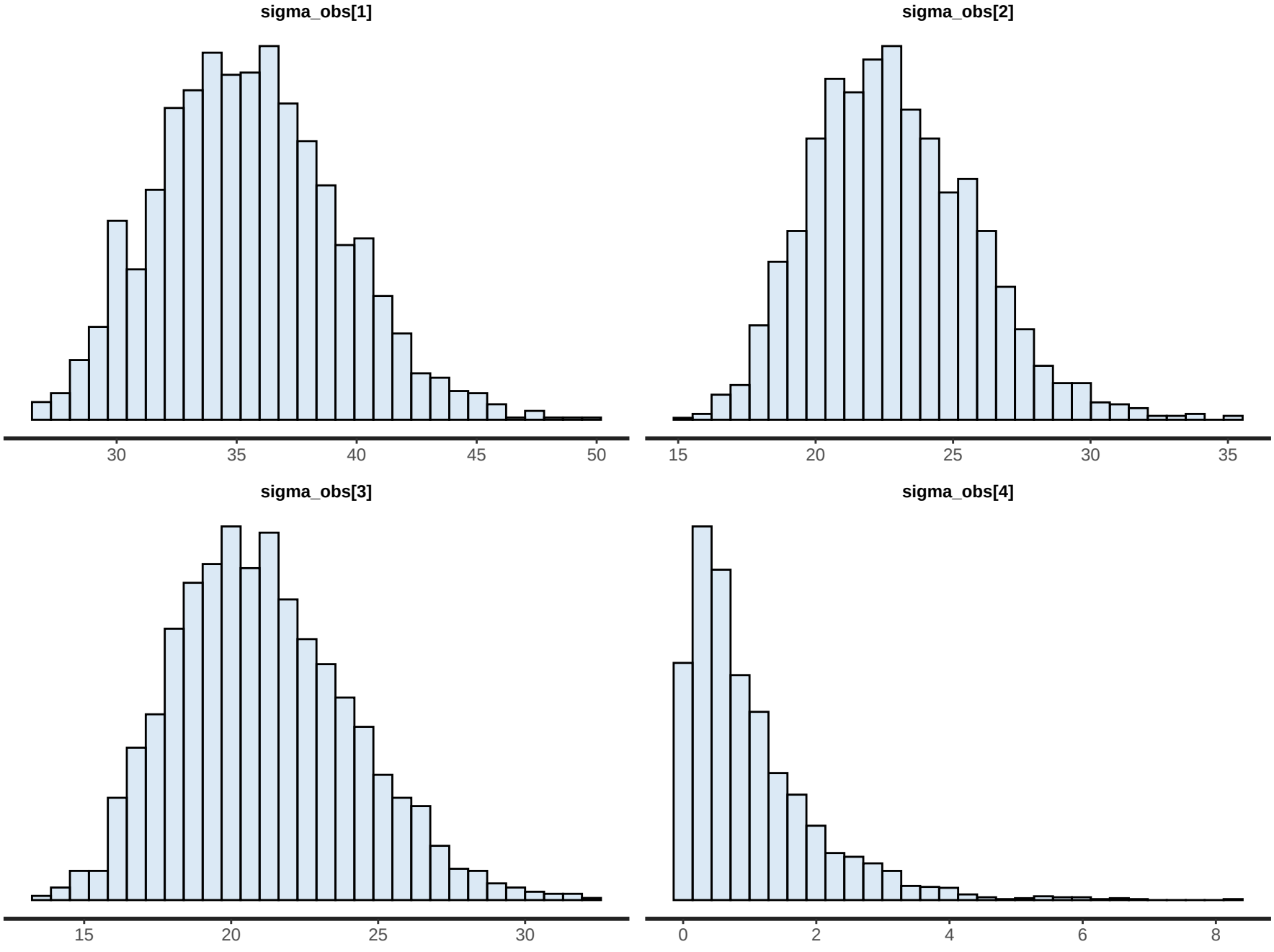
2.5
5.0
7.5
ini_exposed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30
sigma_obs[4]
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4
6
8