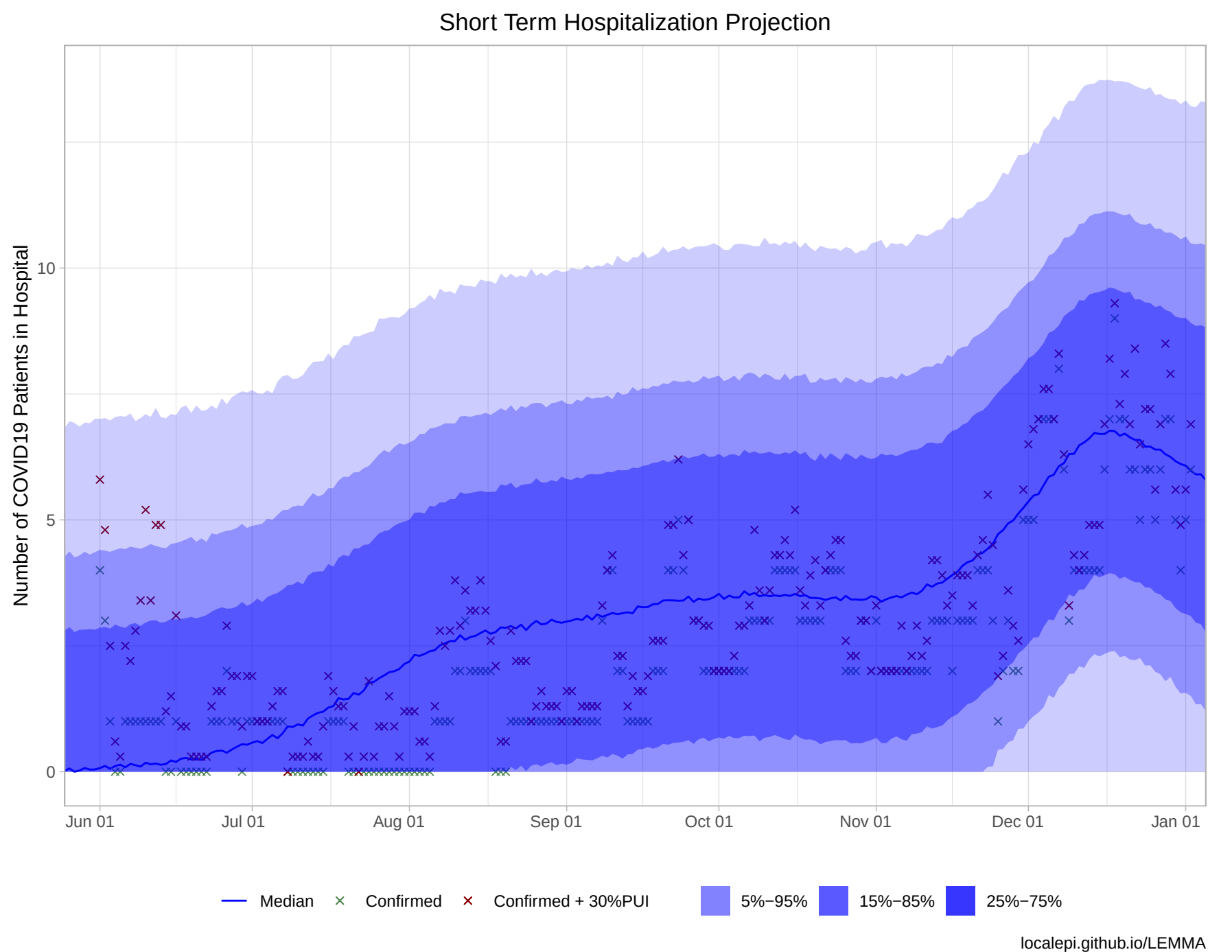
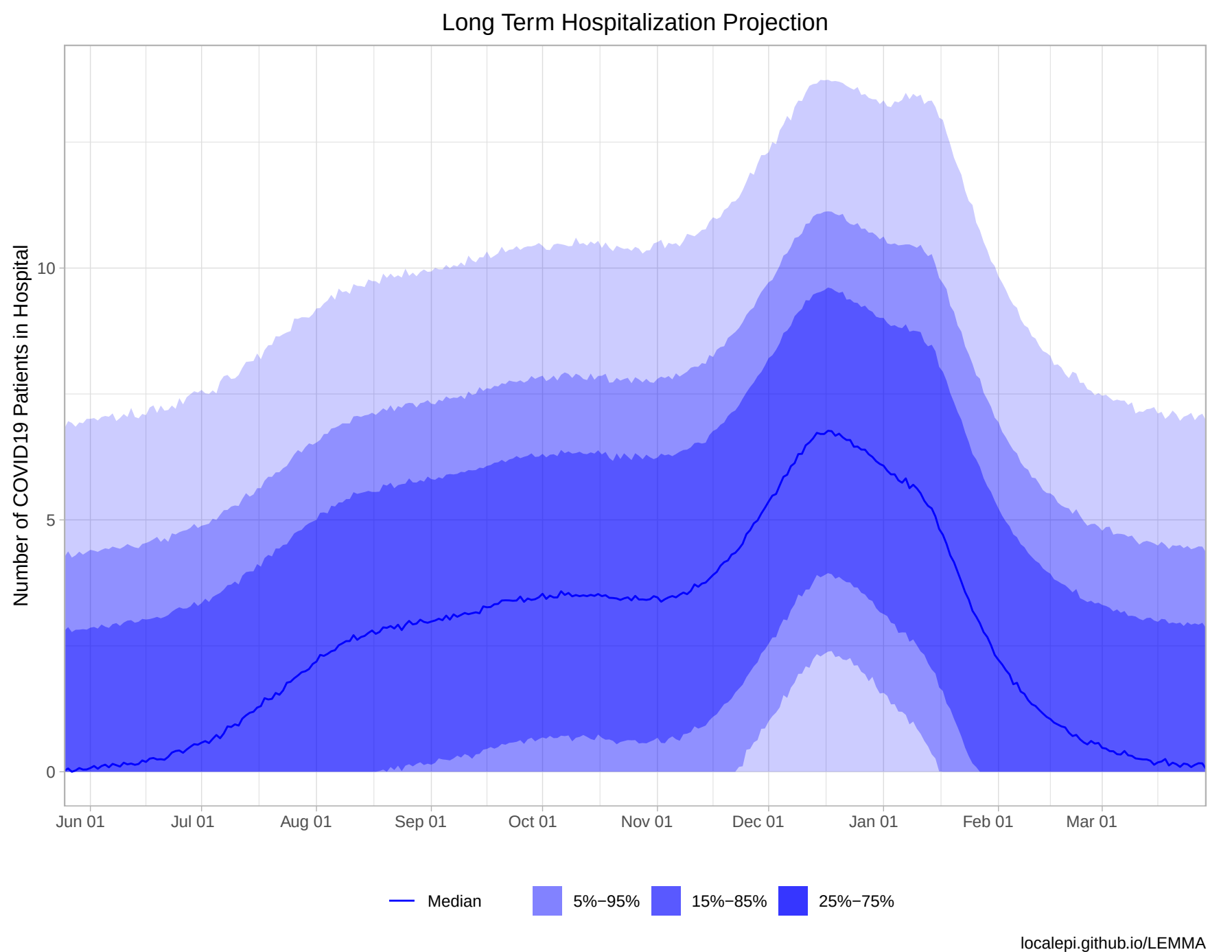
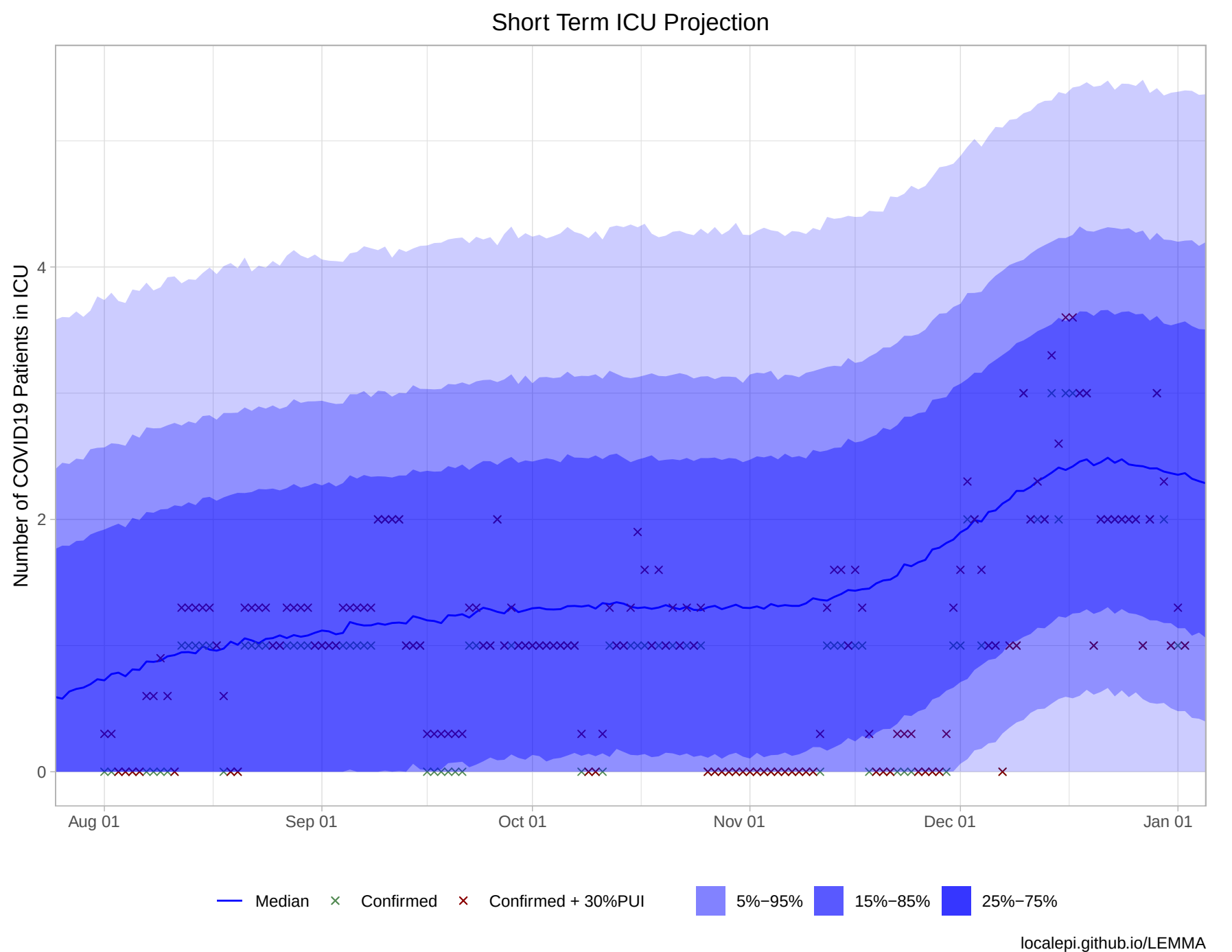
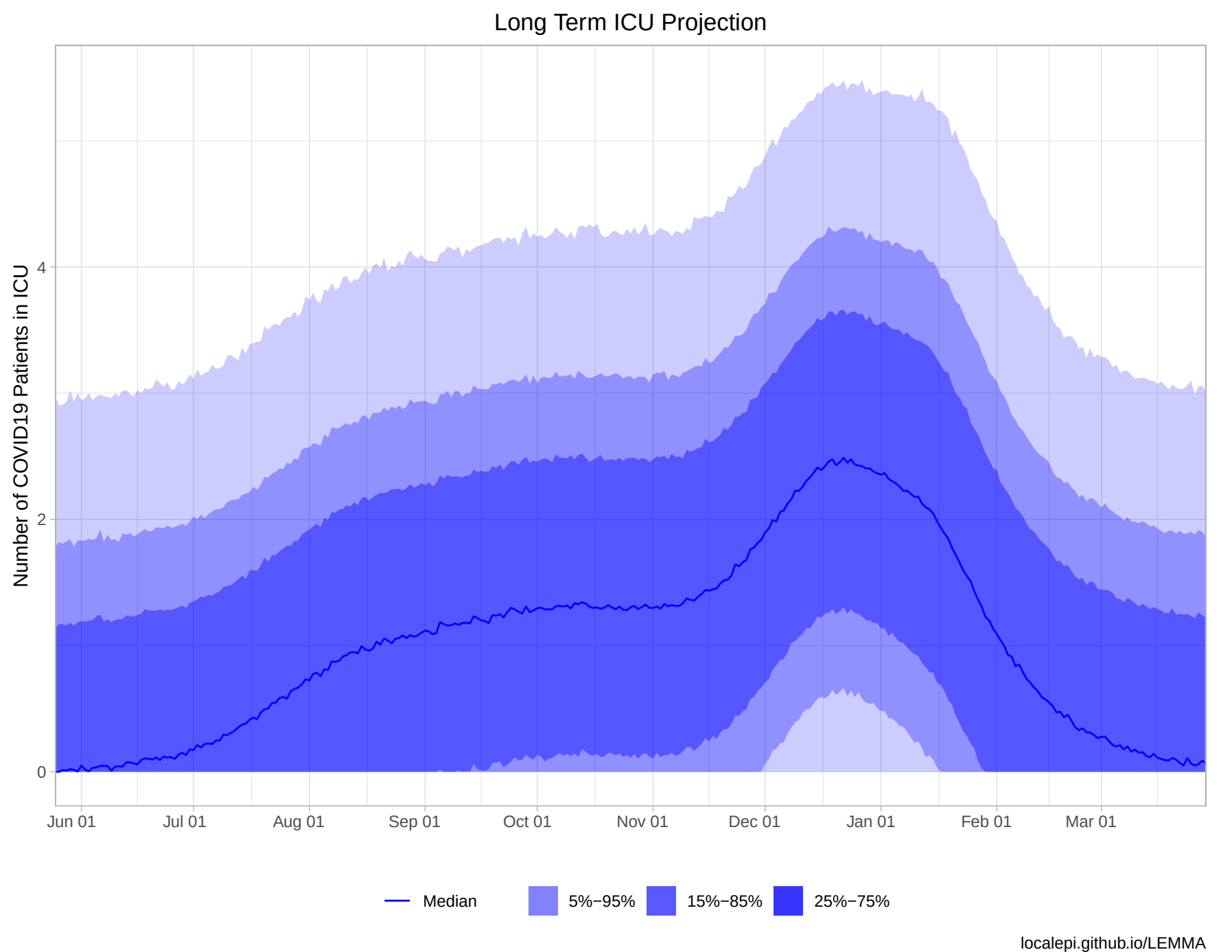
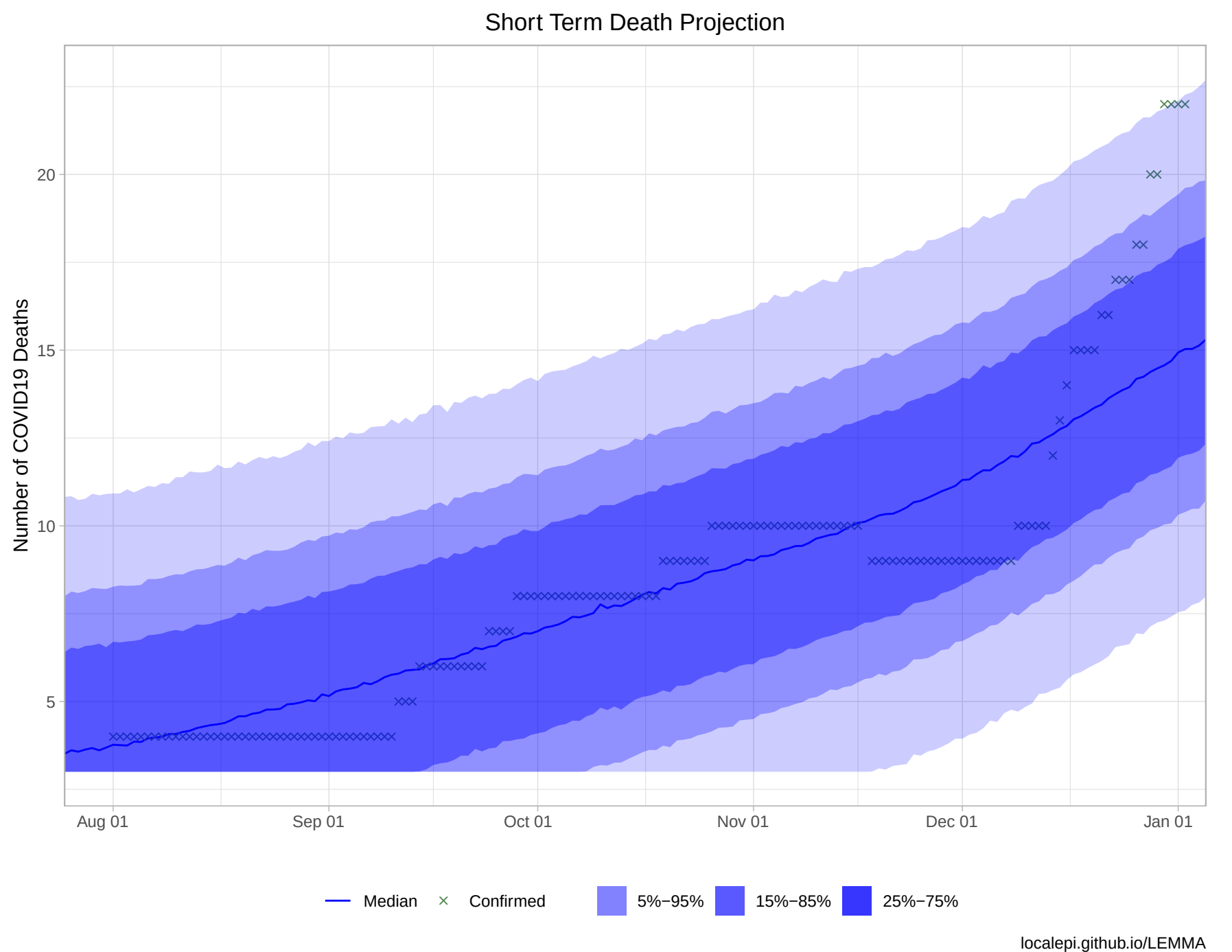
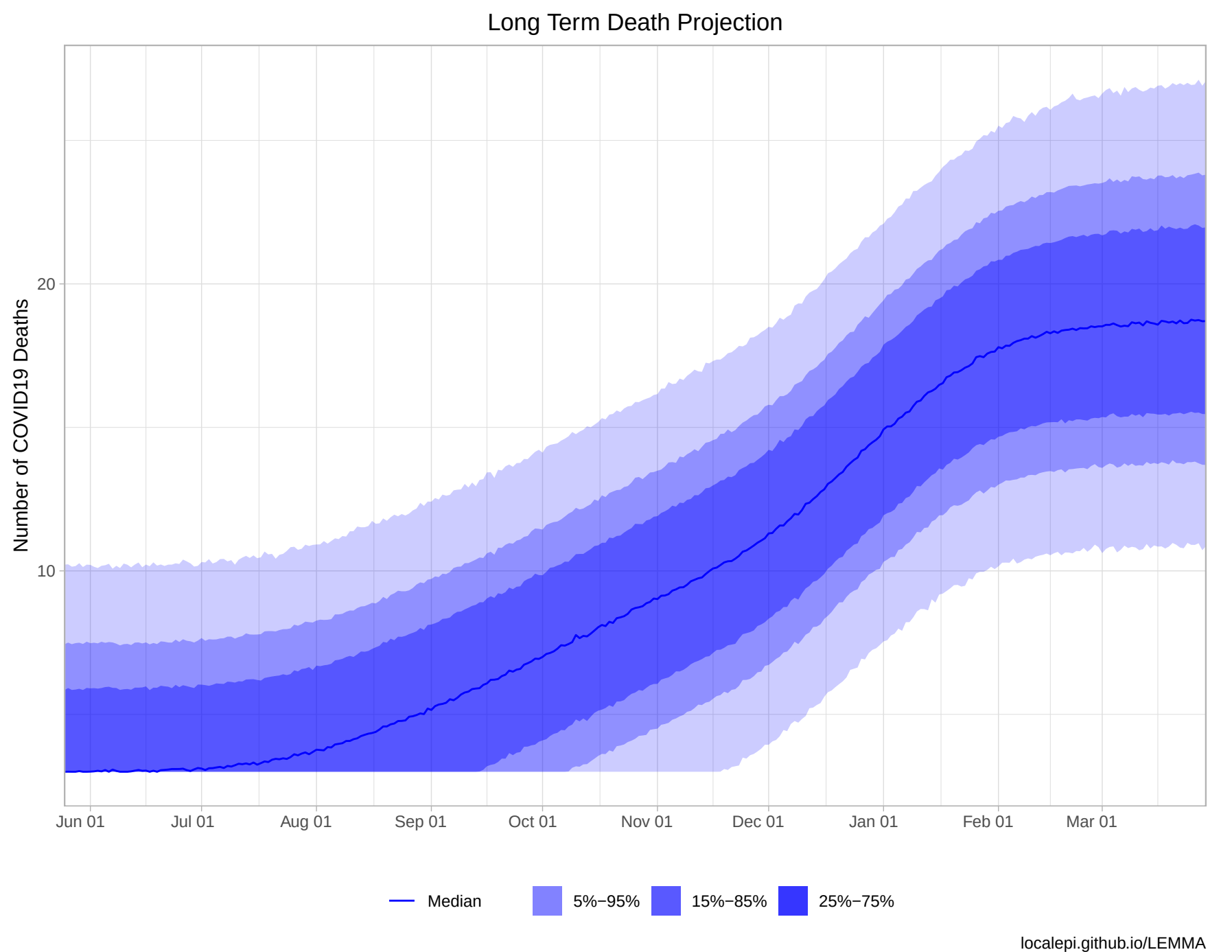

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
5
10
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

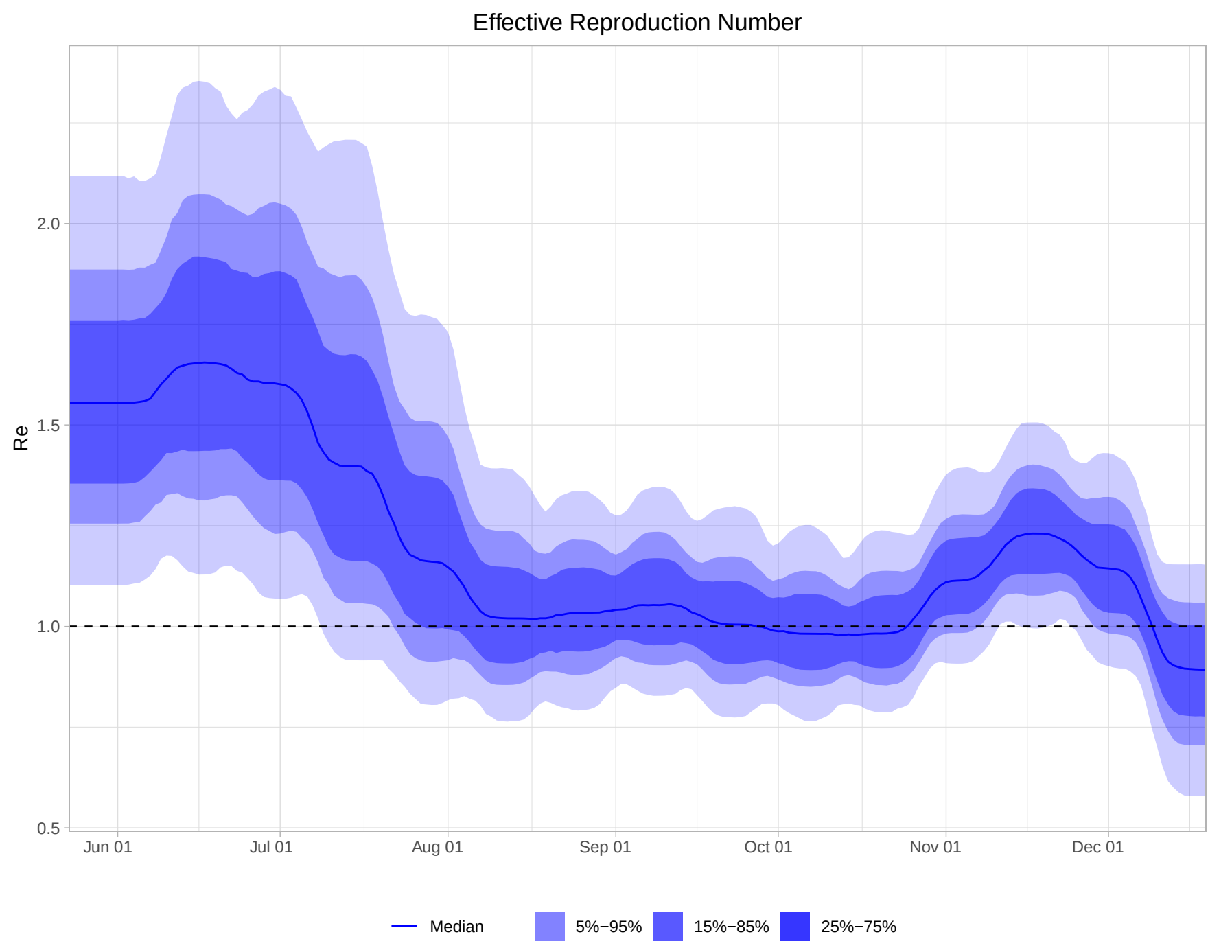

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
5
10
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


Short Term ICU Projection
Number of COVID19 Patients in ICU
0
2
4
Aug 01
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
Jun 01
Jul 01
Aug 01
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

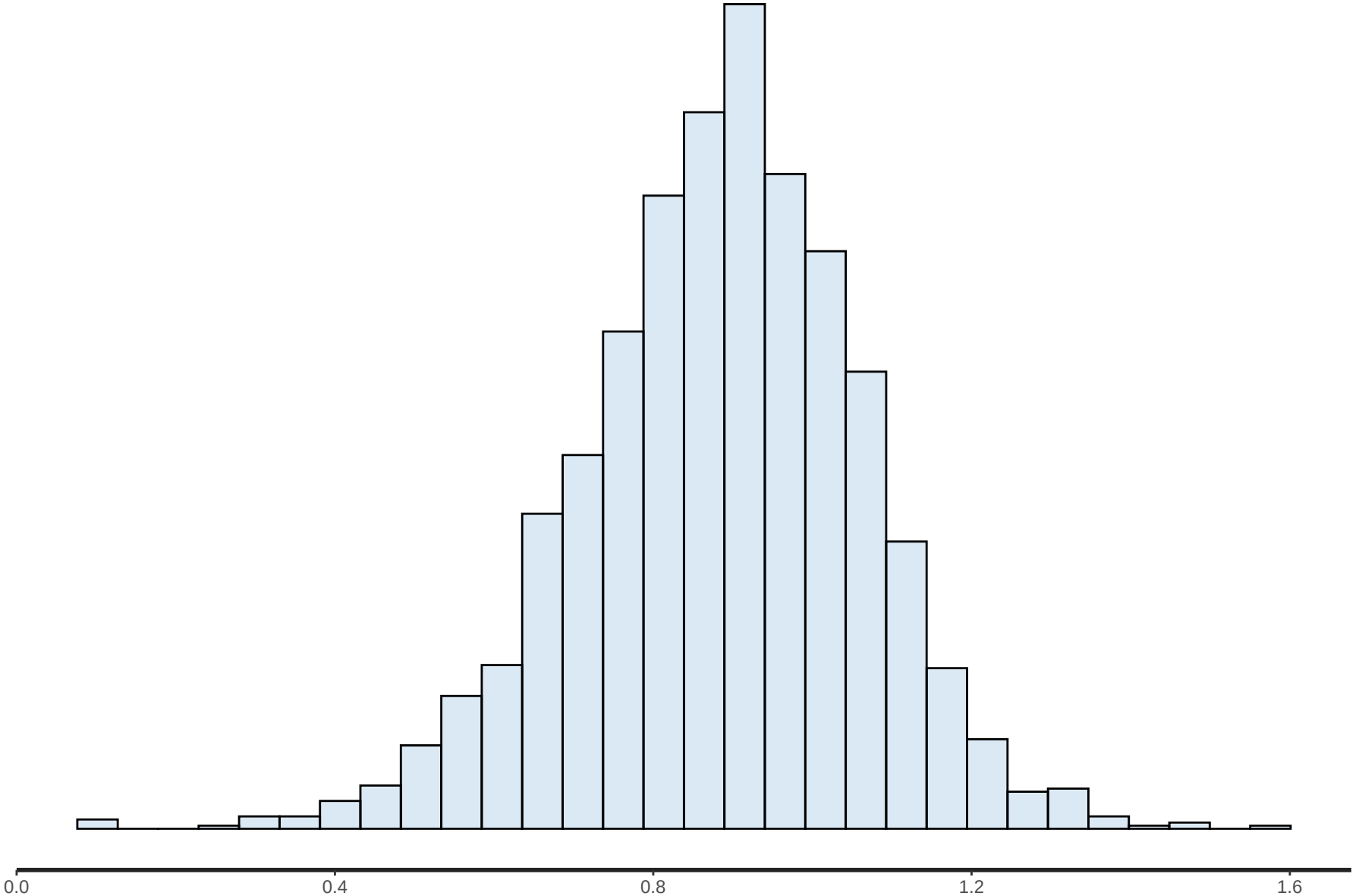

Short Term Death Projection
Number of COVID19 Deaths
20
15
10
5
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

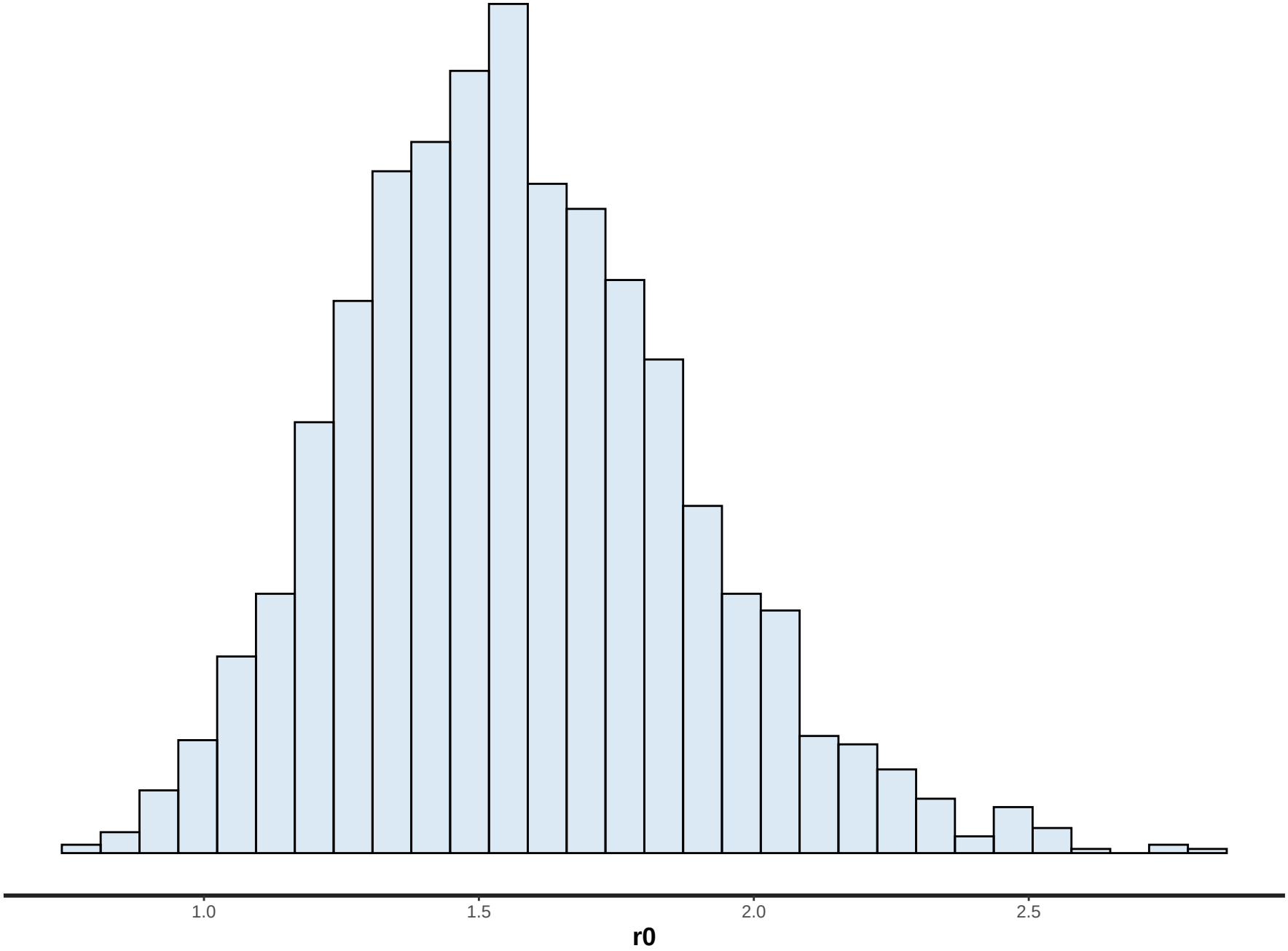

Long Term Death Projection
Number of COVID19 Deaths
20
10
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

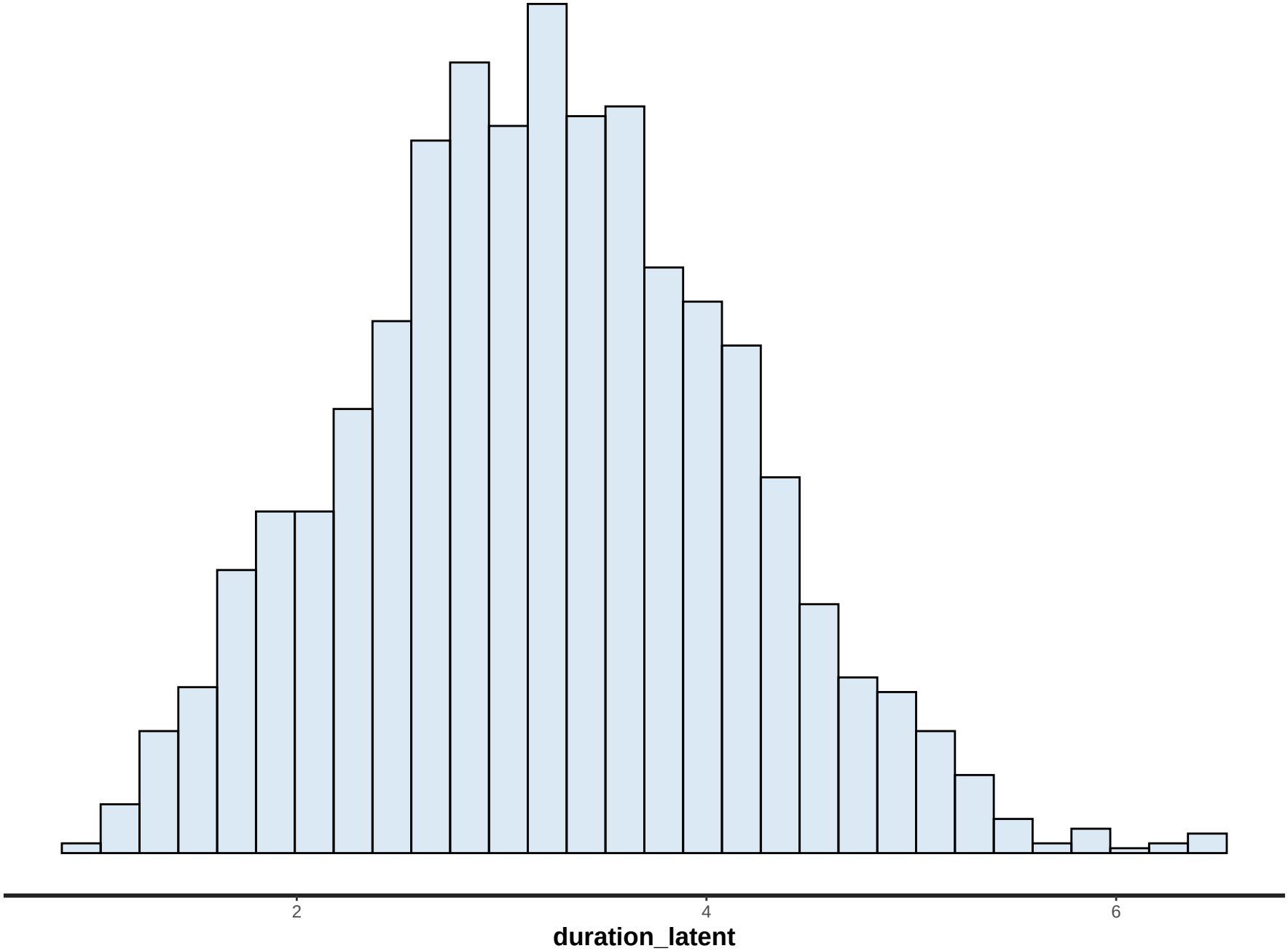

Effective Reproduction Number
Re
2.0
1.5
1.0
0.5
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
5%−95%
15%−85%
25%−75%

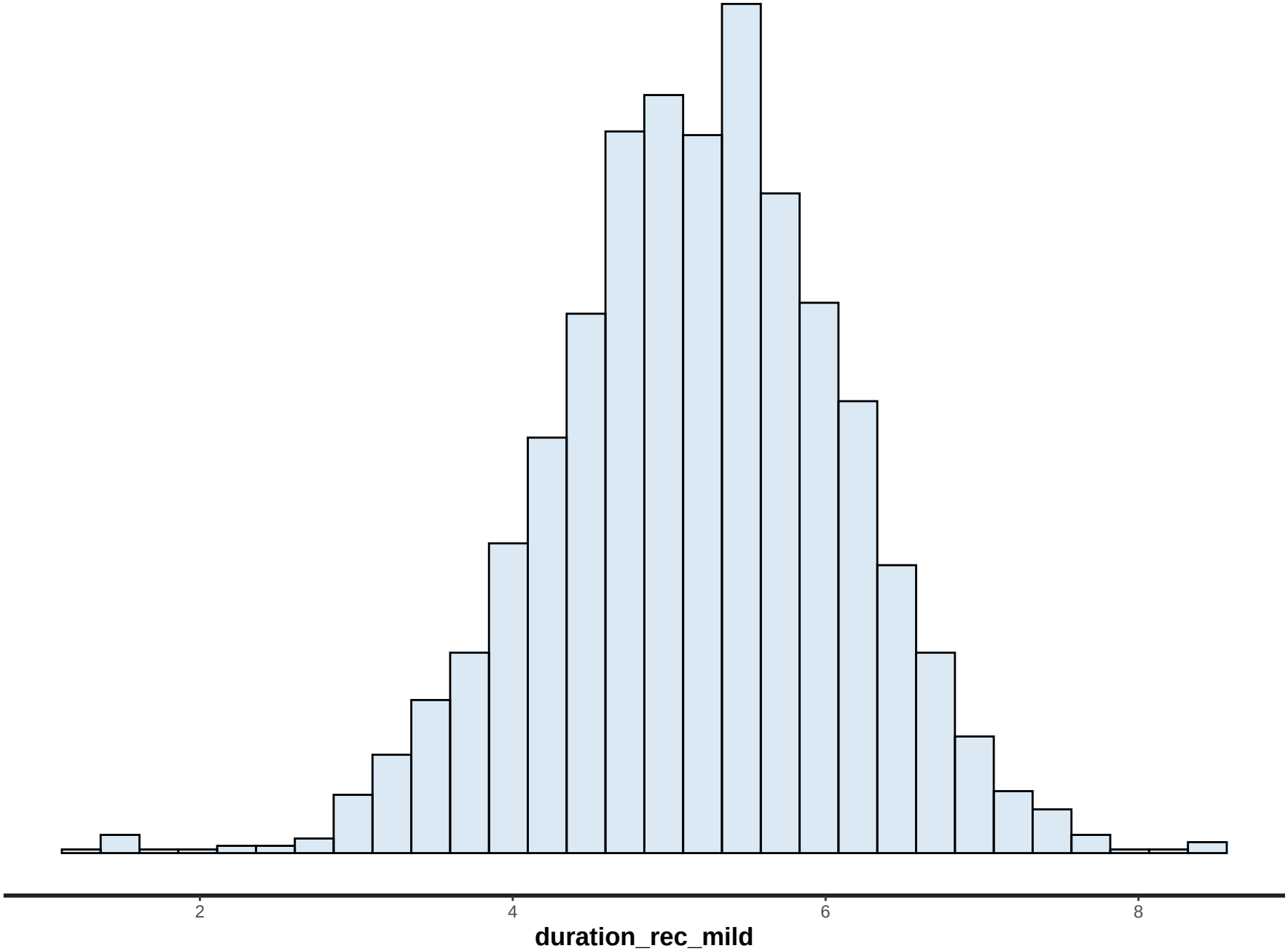
Rt as of 2020−12−19

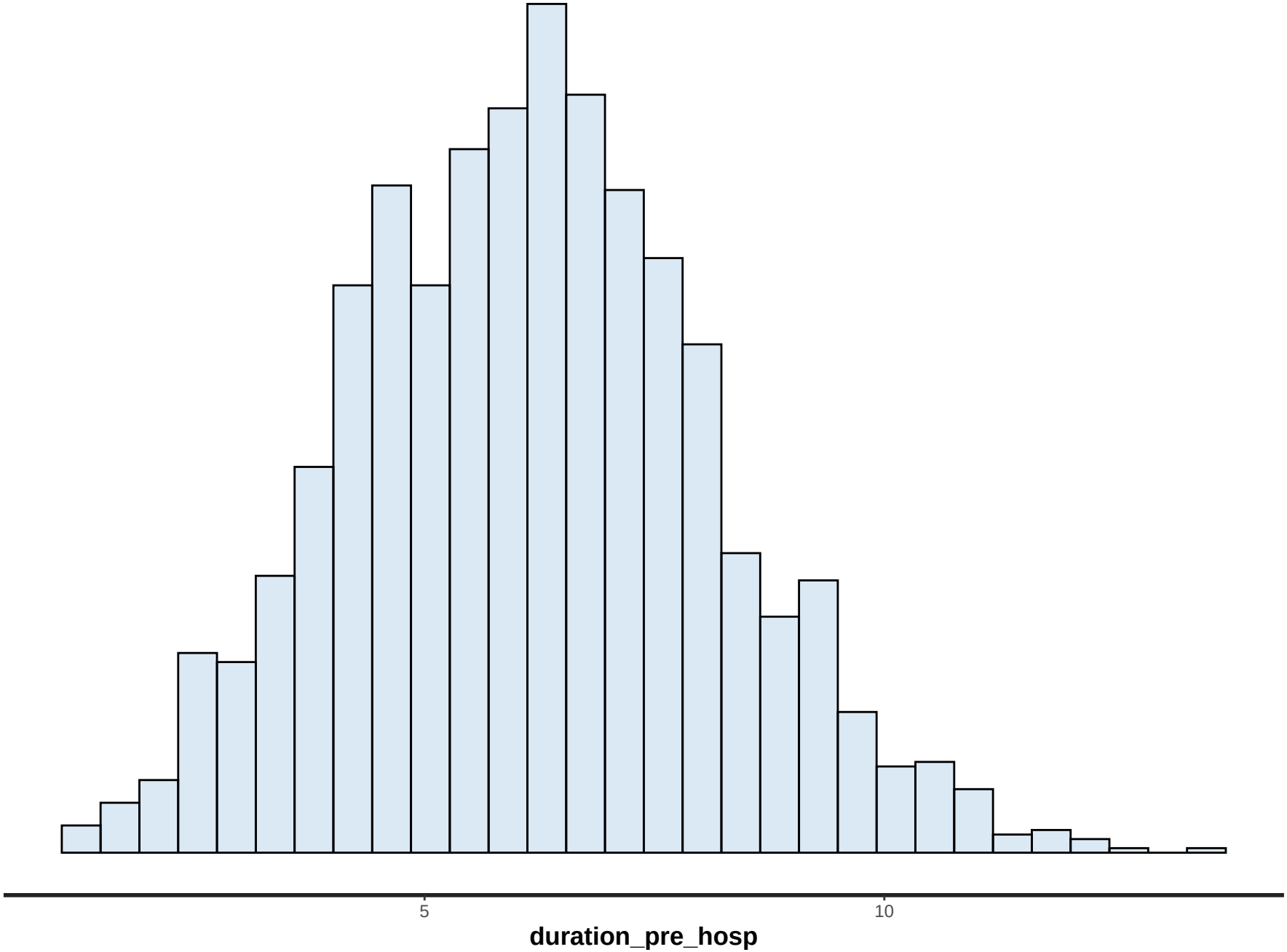
5%	10%	25%	50%	75%	90%	95%
0.58	0.66	0.78	0.89	1.00	1.10	1.15

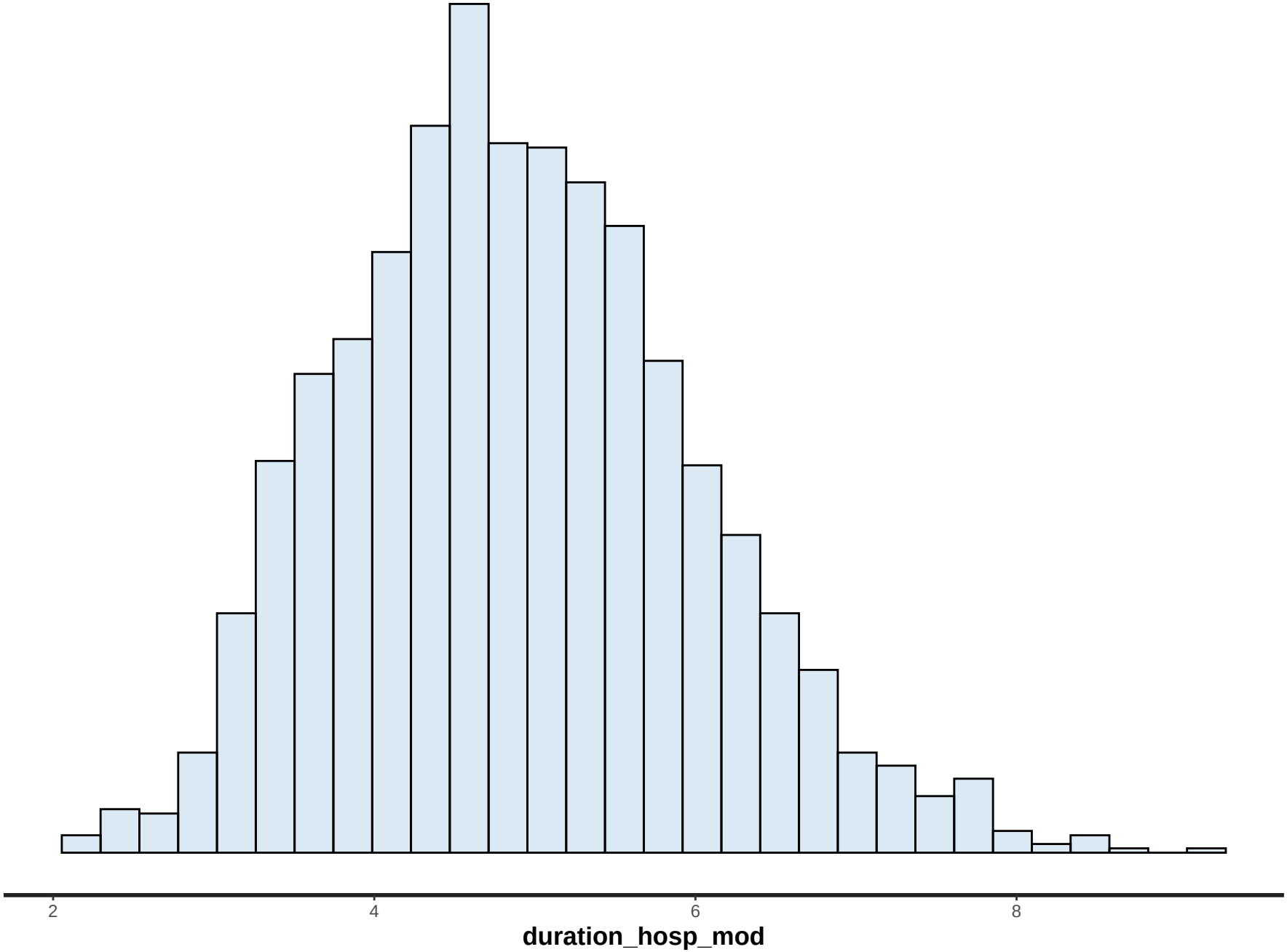


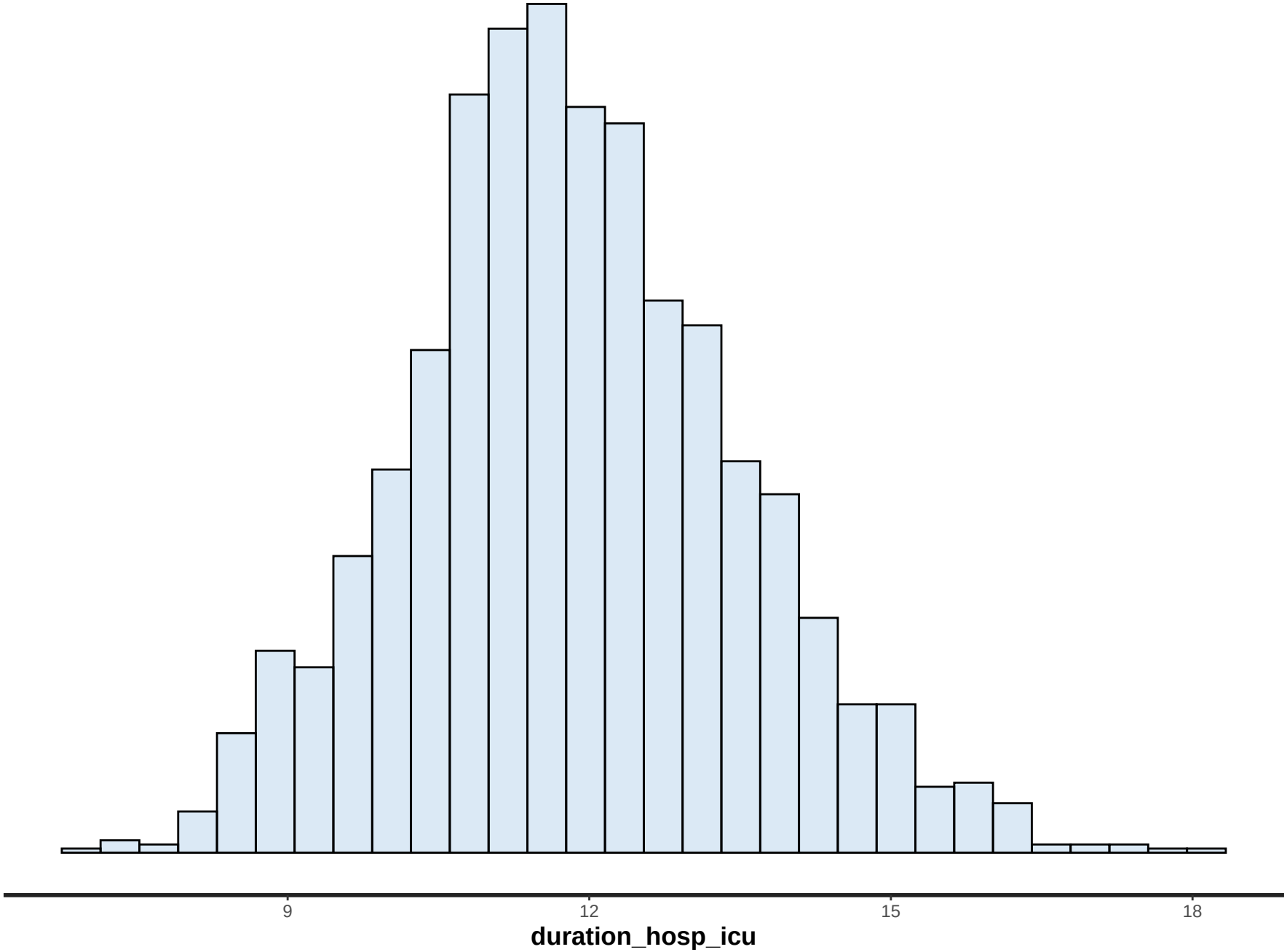

1.0
1.5
2.0
2.5
r0

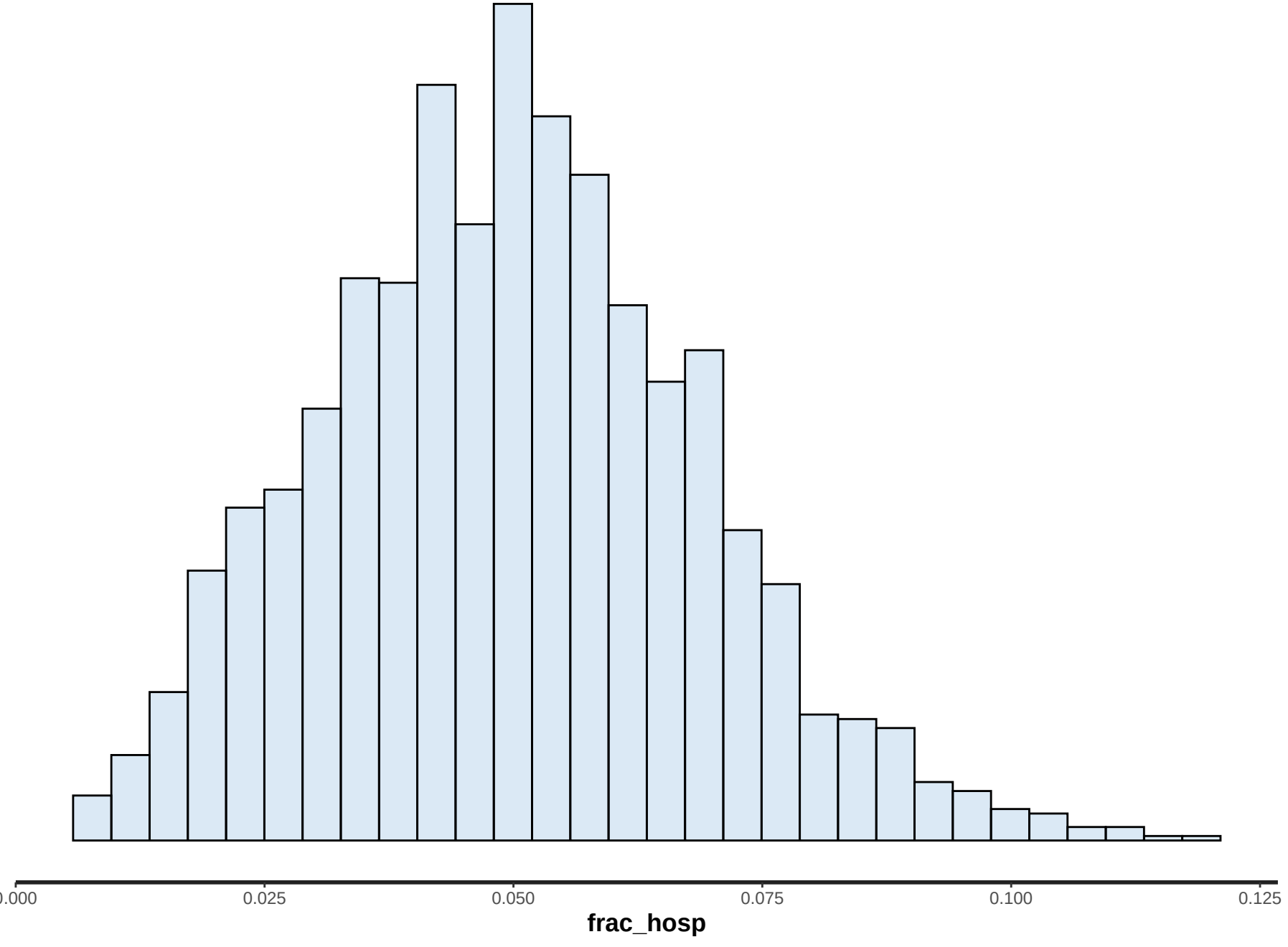

2
4
6
duration_latent


2
4
6
8
duration_rec_mild


5
10
duration_pre_hosp


2
4
6
8
duration_hosp_mod


9
12
15
18
duration_hosp_icu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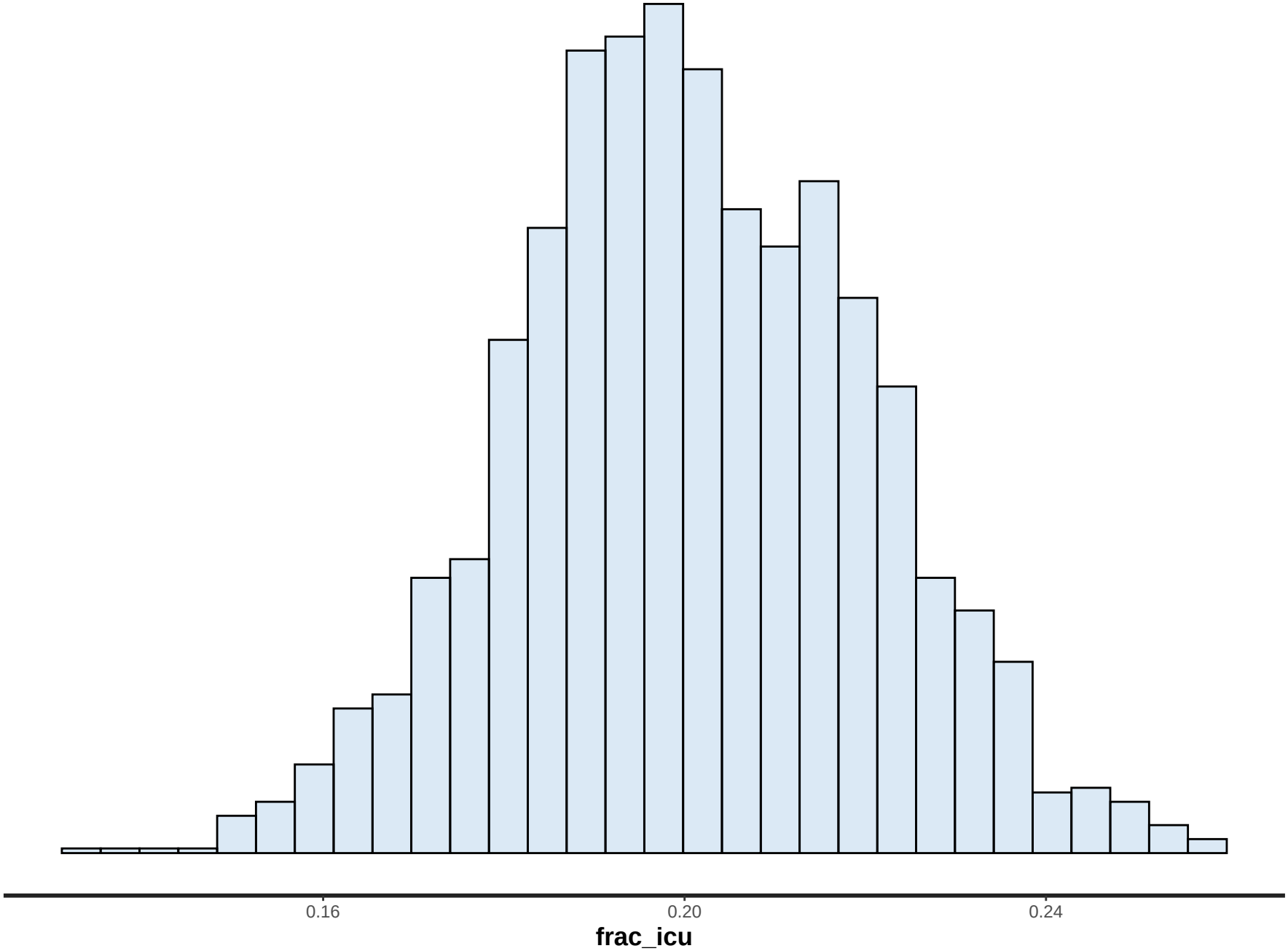
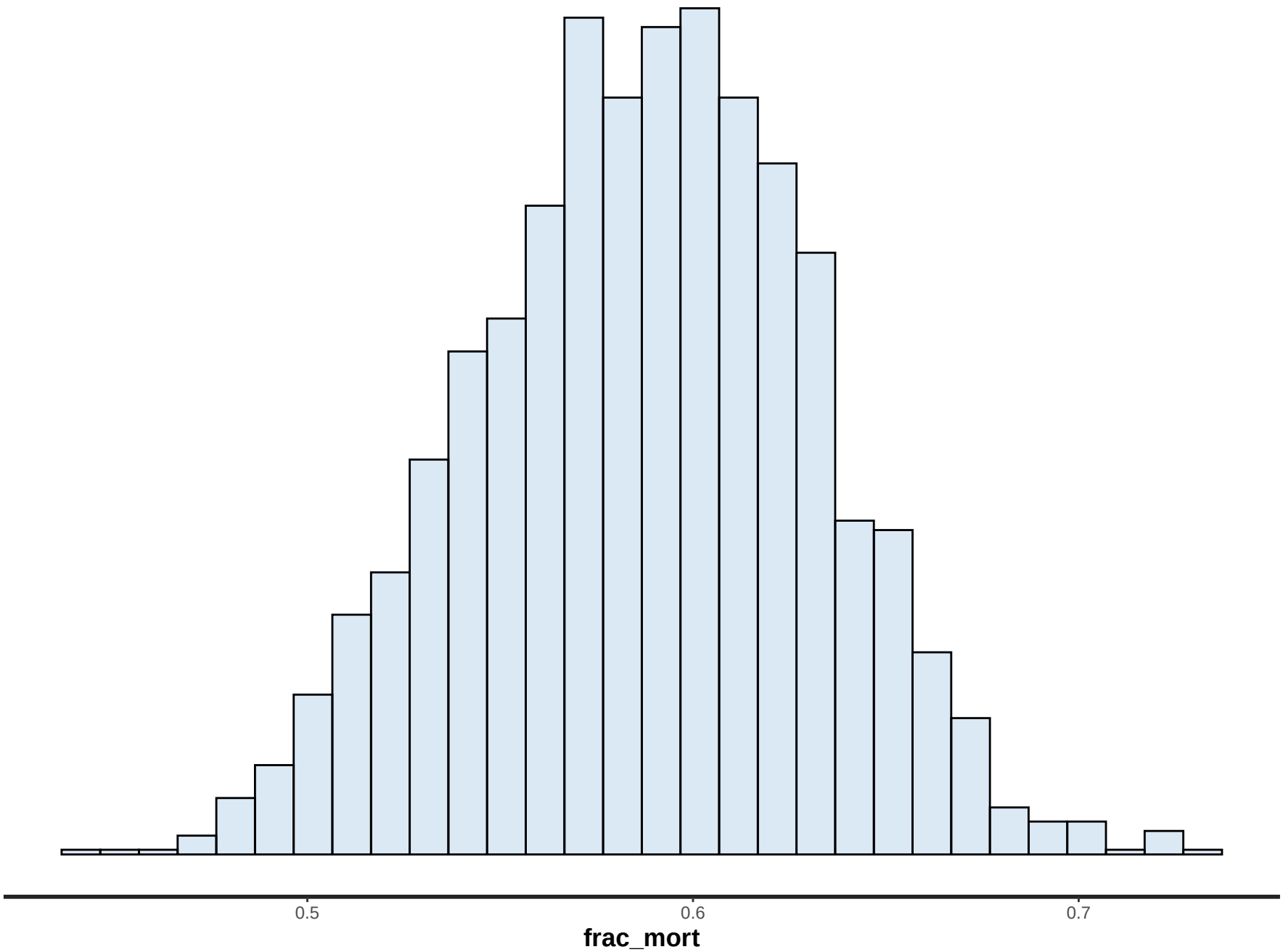
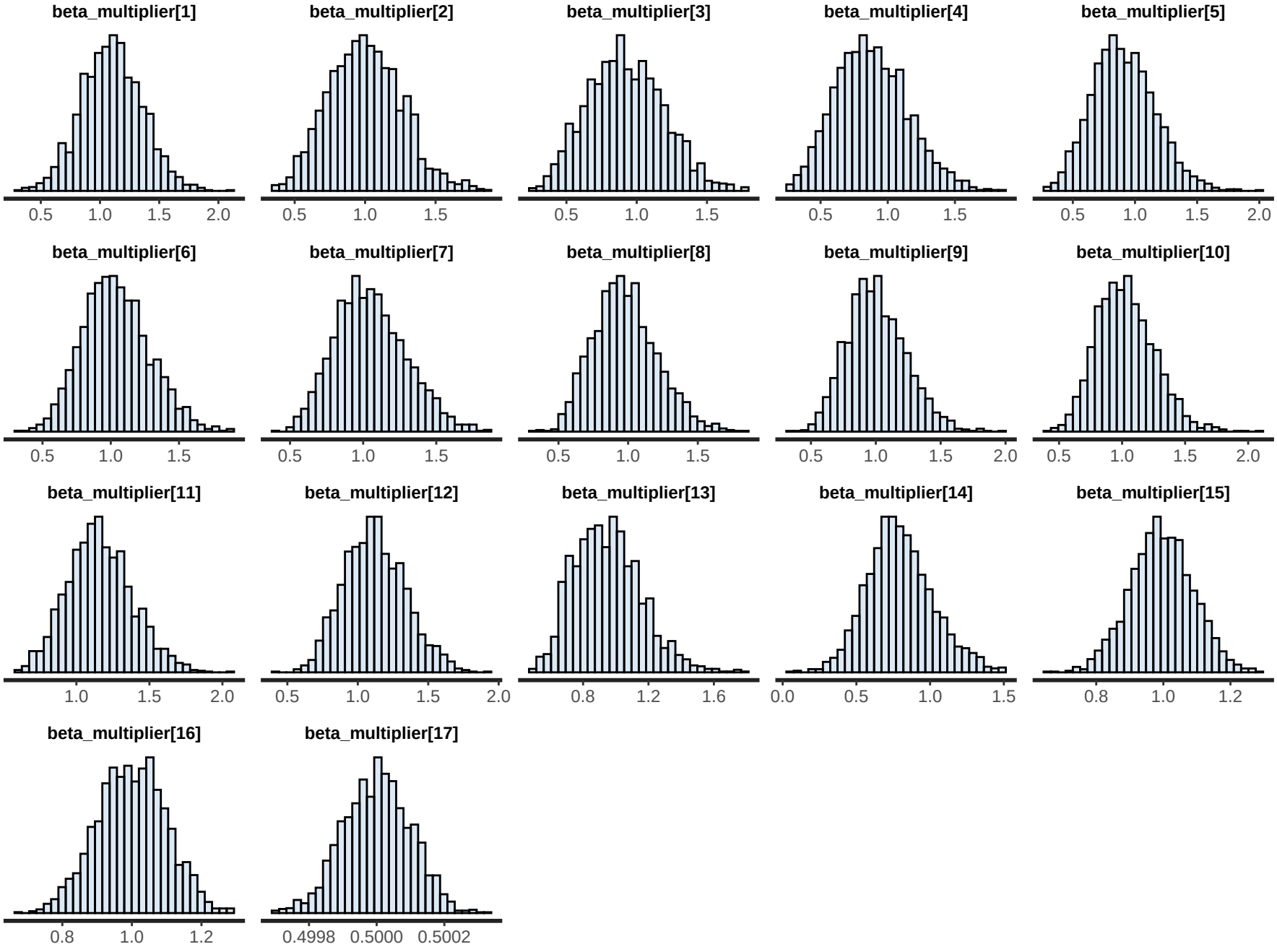
0.025
0.050
0.075
0.100
0.125
frac_hosp


0.16
0.20
0.24
frac_icu


0.5
0.6
0.7
frac_mort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0.5 1.0 1.5 2.0
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0.5 1.0 1.5
beta_multiplier[3]
0.5 1.0 1.5
beta_multiplier[4]
0.5 1.0 1.5
beta_multiplier[5]
0.5 1.0 1.5 2.0
beta_multiplier[6]
0.5 1.0 1.5
beta_multiplier[7]
0.5 1.0 1.5
beta_multiplier[8]
0.5 1.0 1.5
beta_multiplier[9]
0.5 1.0 1.5 2.0
beta_multiplier[10]
0.5 1.0 1.5 2.0
beta_multiplier[11]
1.0 1.5 2.0
beta_multiplier[12]
0.5 1.0 1.5 2.0
beta_multiplier[13]
0.8 1.2 1.6
beta_multiplier[14]
0.0 0.5 1.0 1.5
beta_multiplier[15]
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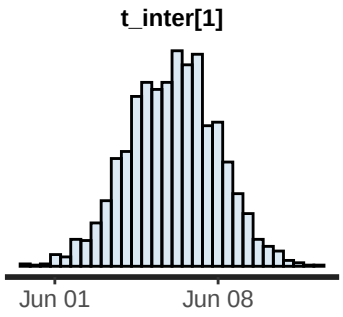
0.8 1.0 1.2
beta_multiplier[17]
0.4998 0.5000 0.5002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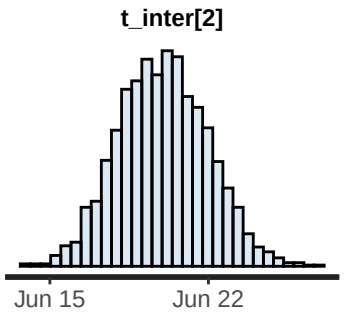
Jun 01
Jun 08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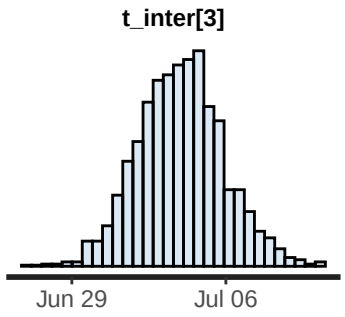
Jun 15
Jun 22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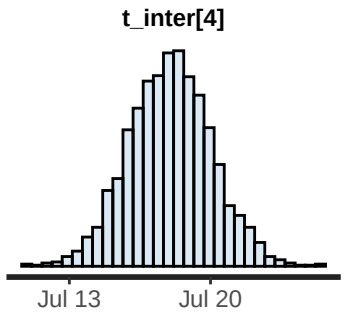
Jun 29
Jul 06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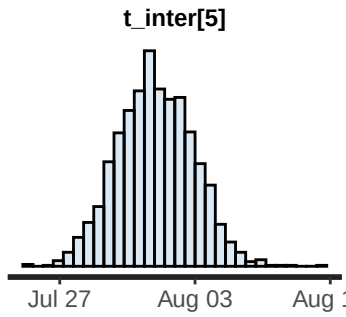
Jul 13
Jul 20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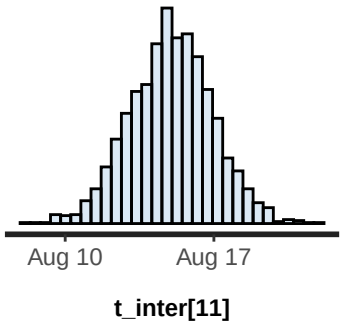
Jul 27
Aug 03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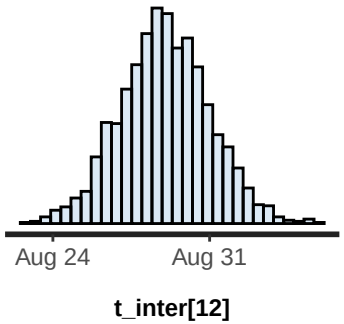
Aug 10
Aug 17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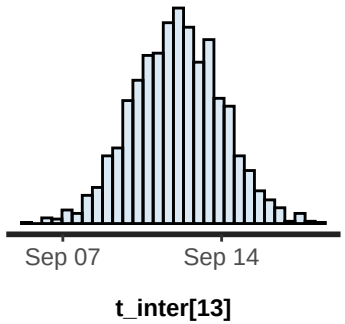
Aug 31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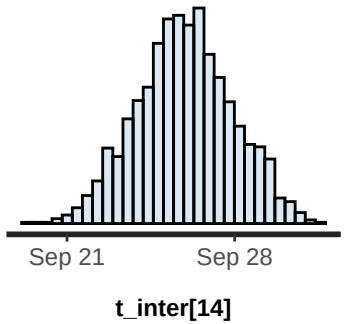
Sep 07
Sep 14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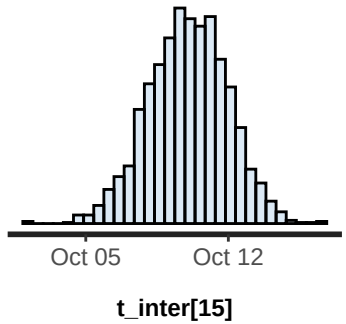
Sep 21
Sep 28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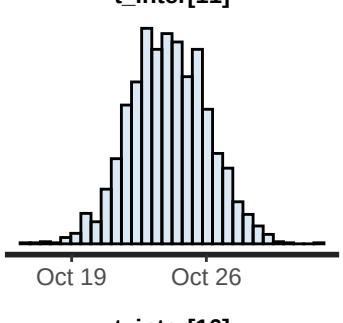
Oct 12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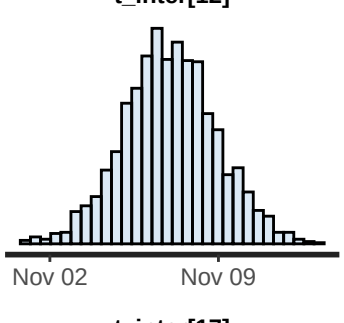
Oct 19
Oct 26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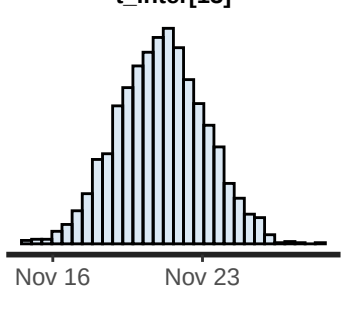
Nov 09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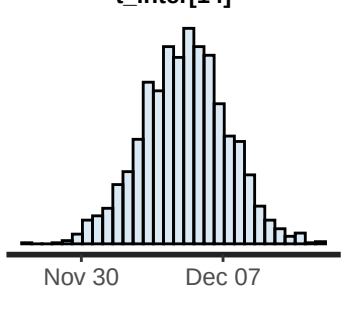
Nov 16
Nov 23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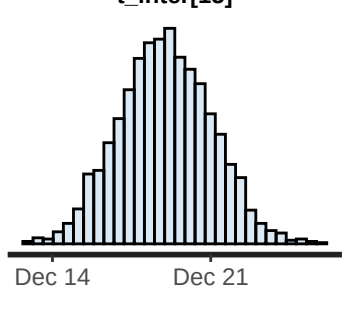
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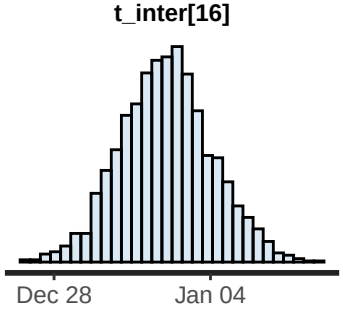
Dec 14
Dec 21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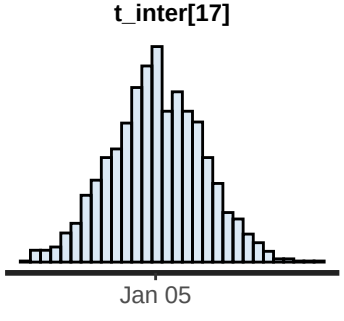
Dec 28
Jan 04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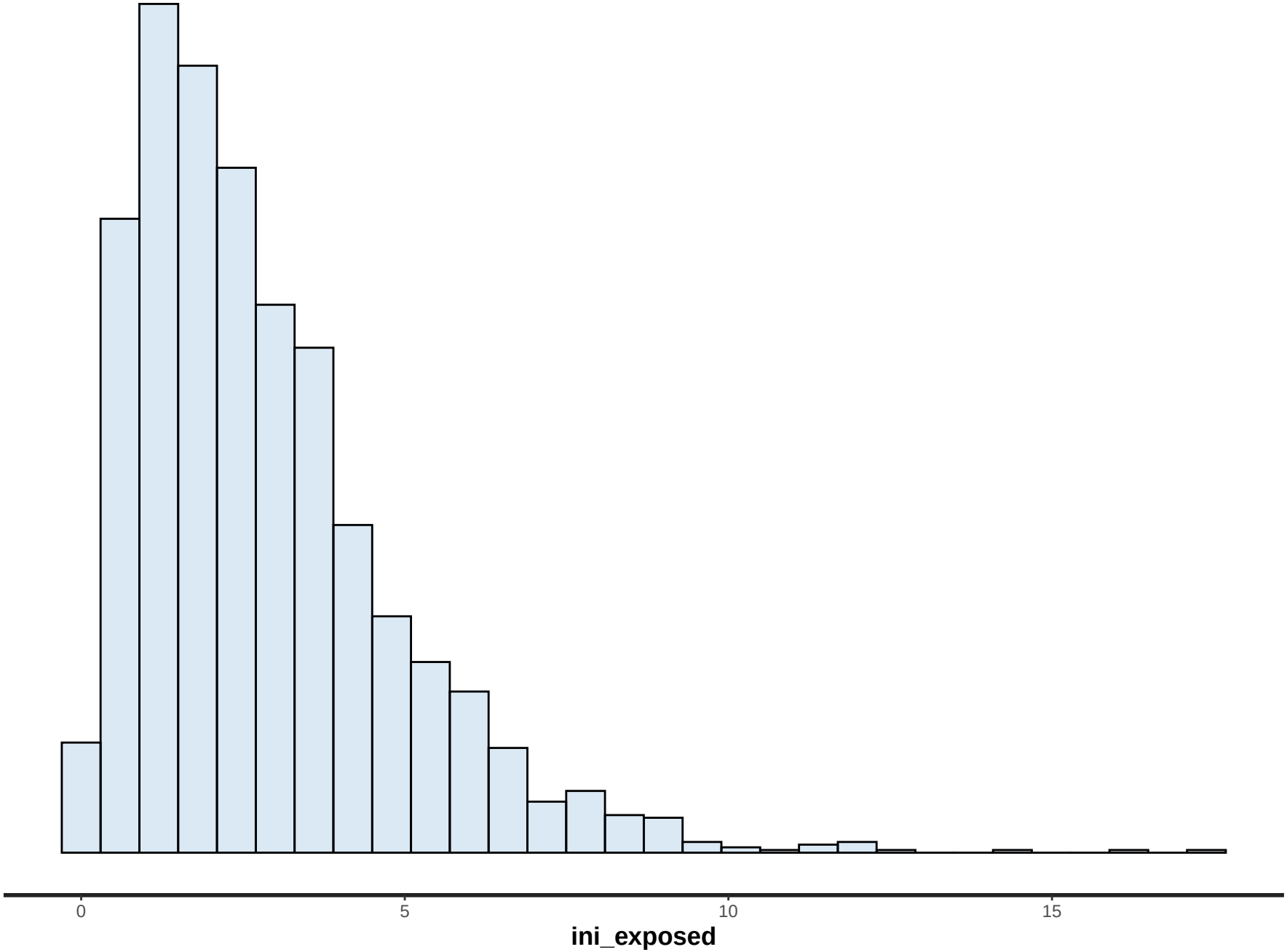
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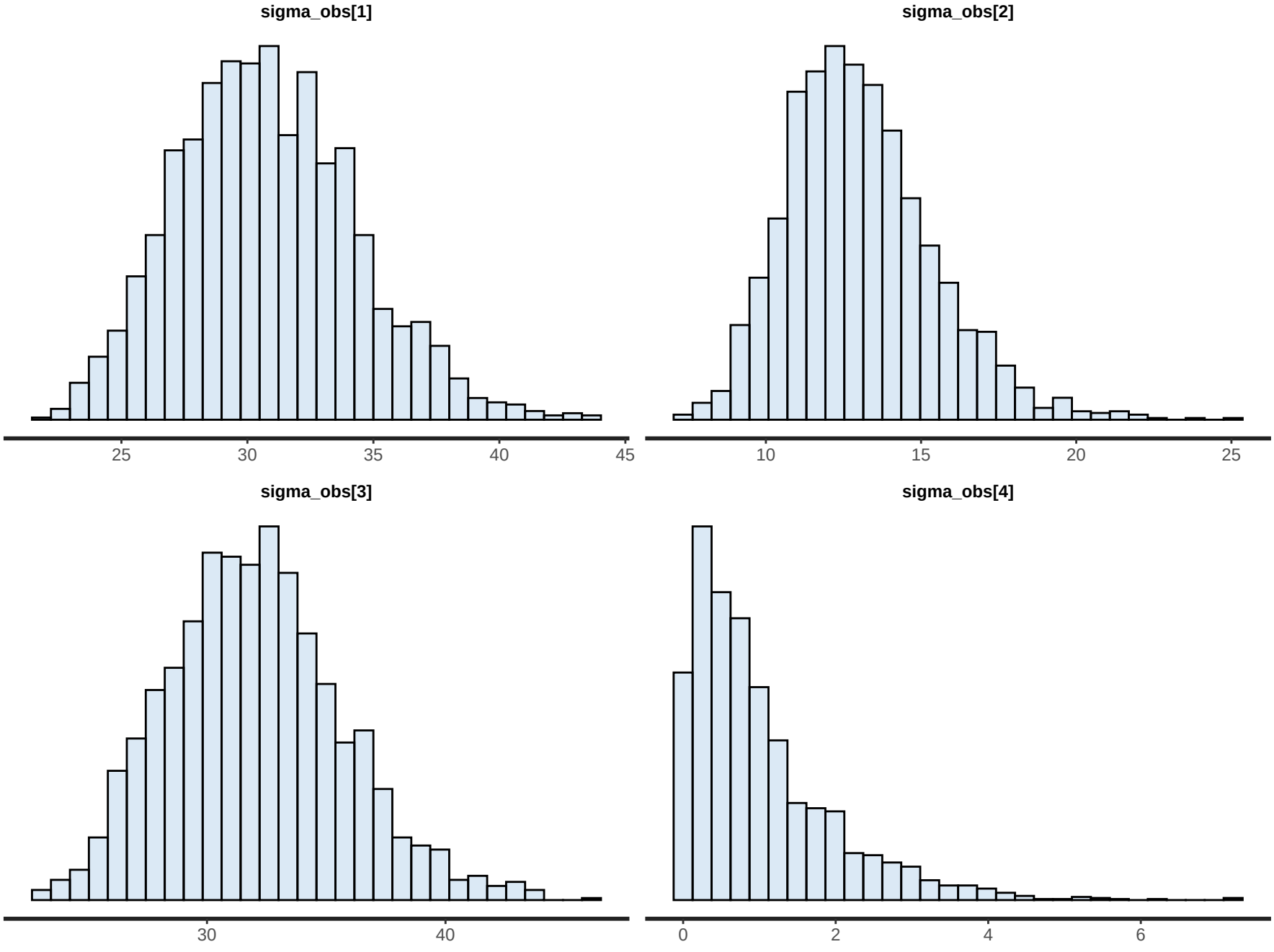
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