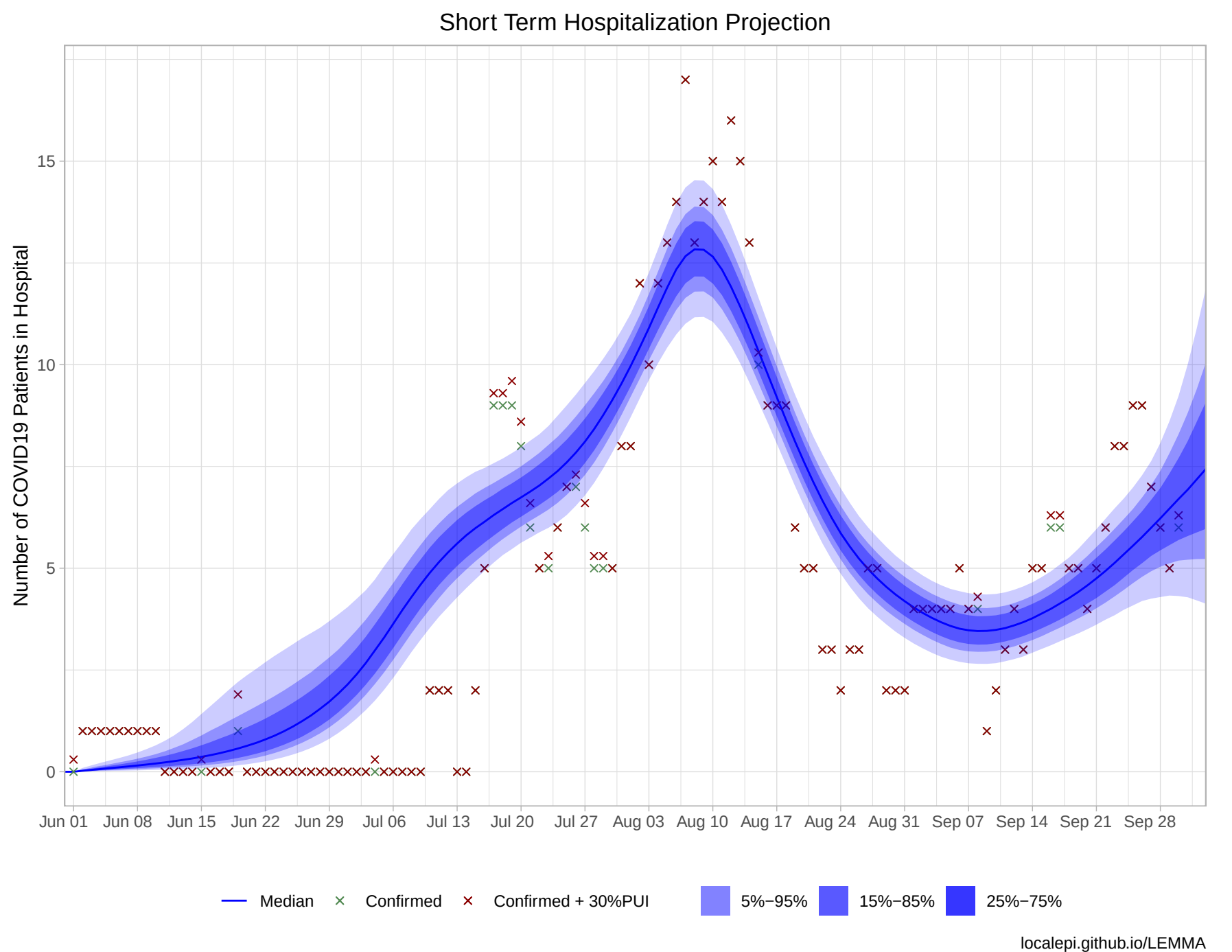
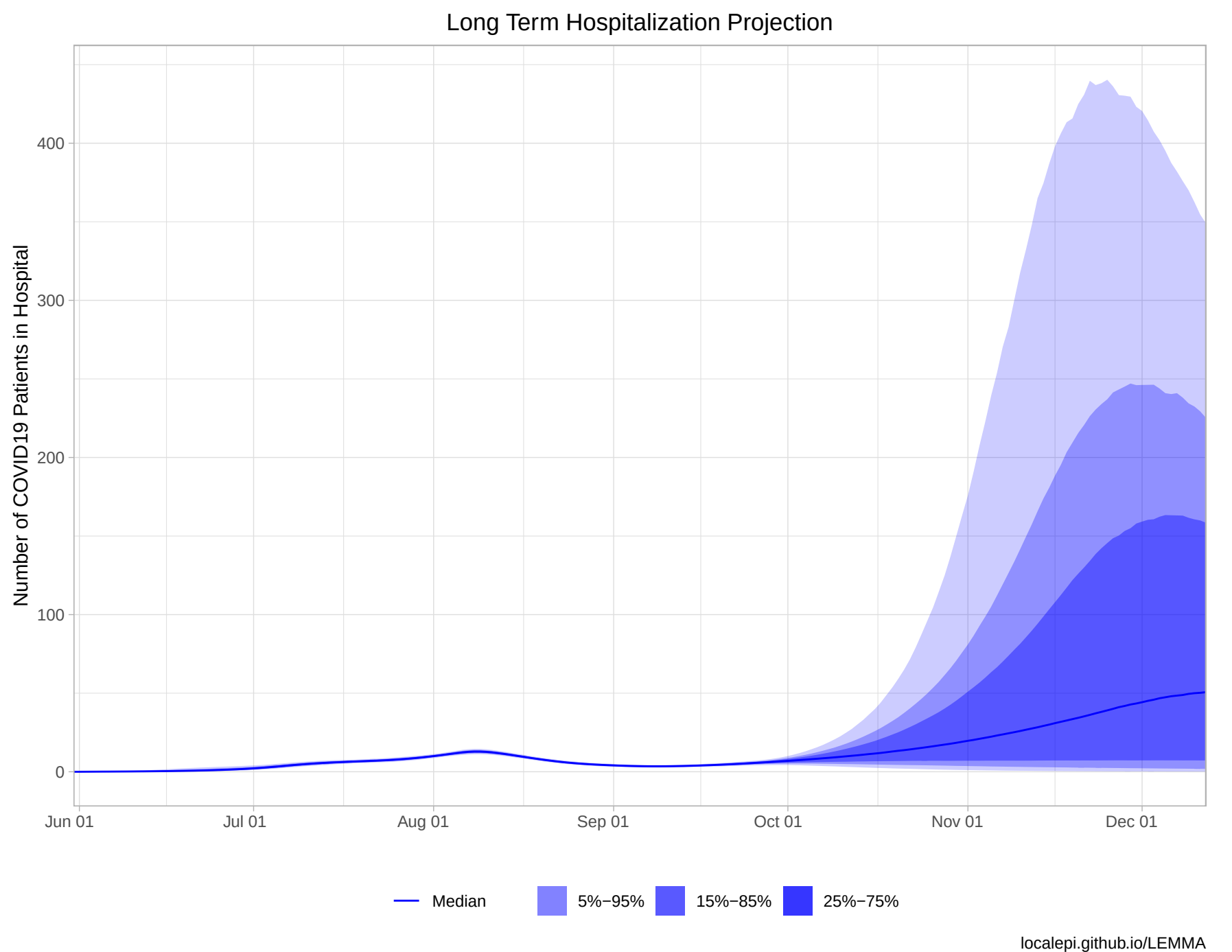
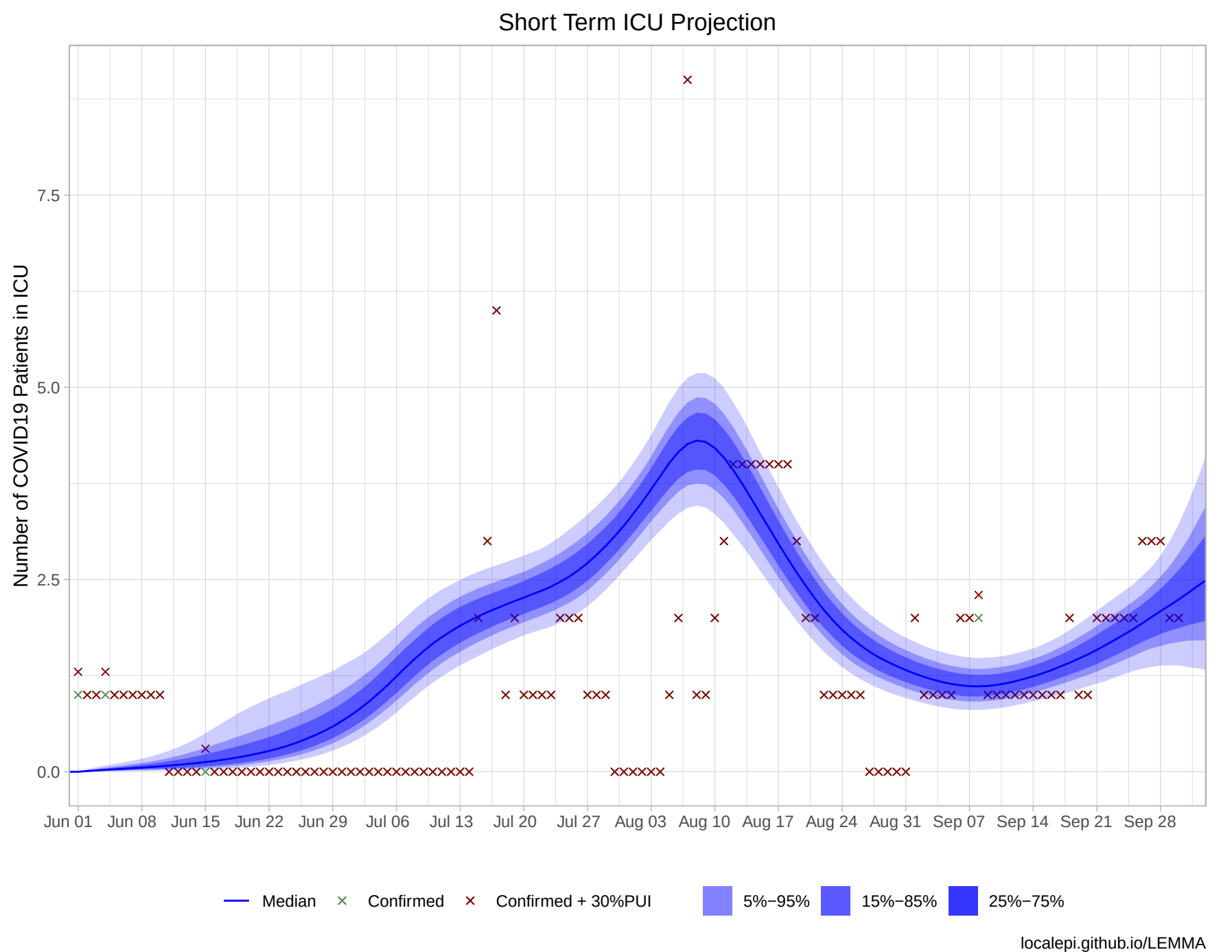
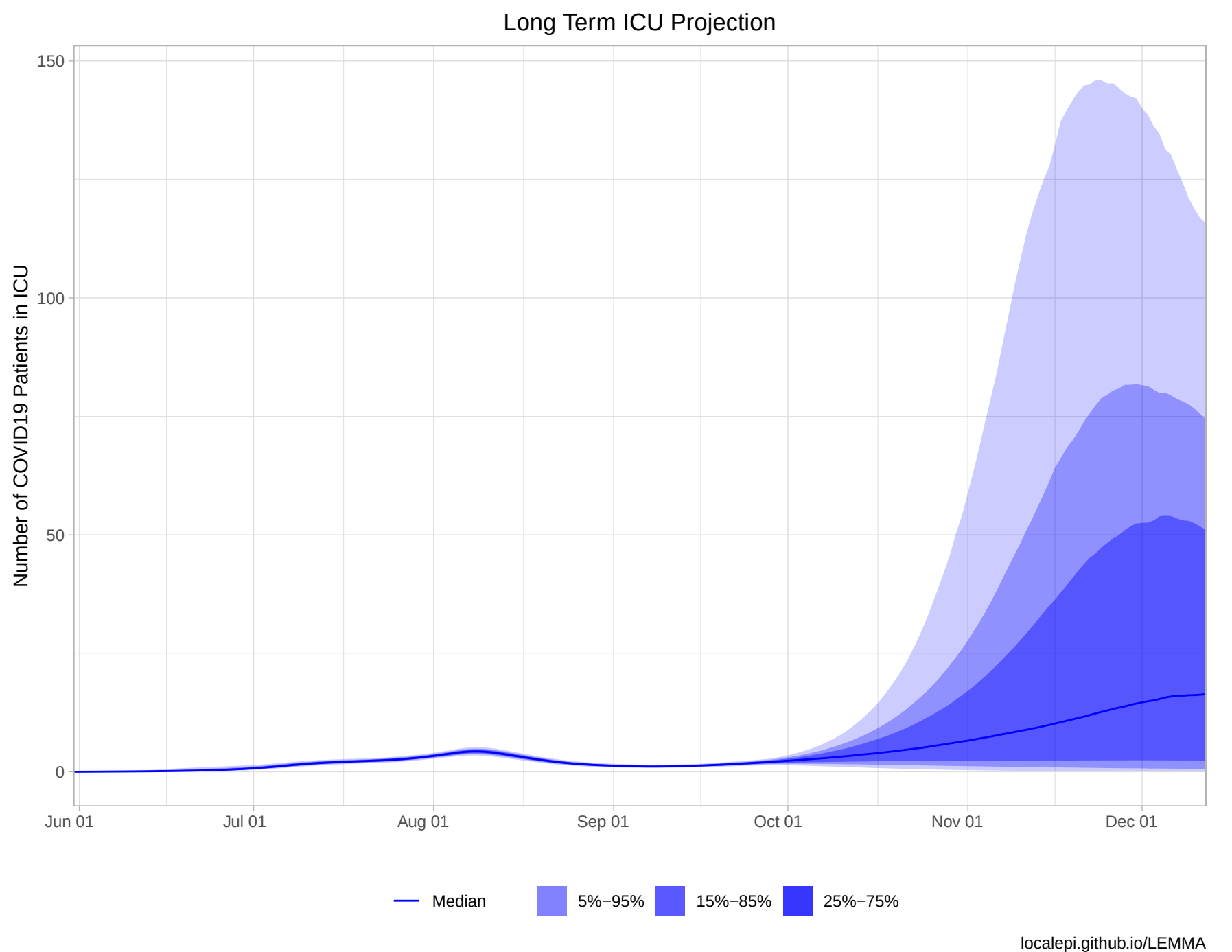
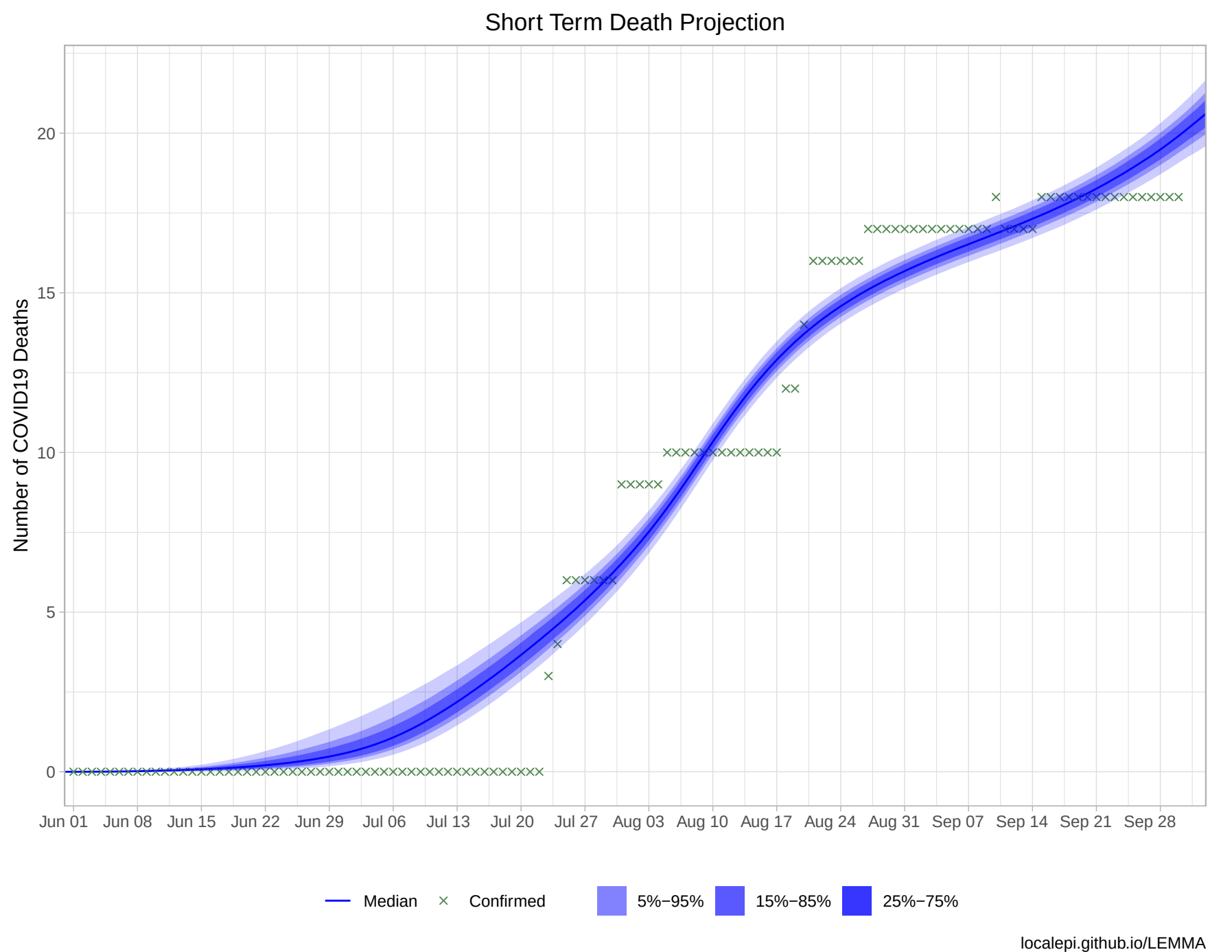
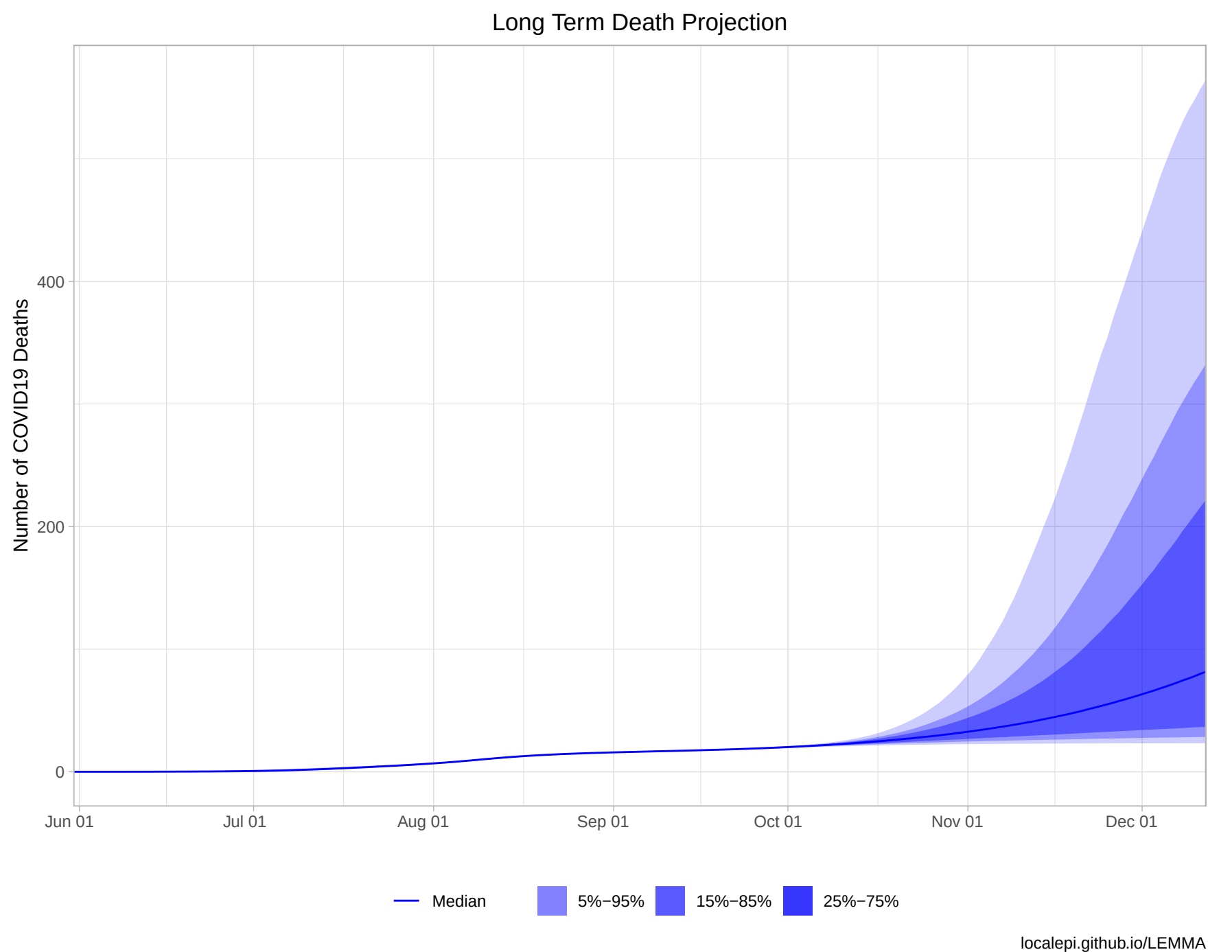

Short Term Hospitalization Projection
Number of COVID19 Patients in Hospital
0
5
10
15
Jun 01
Jun 08
Jun 15
Jun 22
Jun 29
Jul 06
Jul 13
Jul 20
Jul 27
Aug 03
Aug 10
Aug 17
Aug 24
Aug 31
Sep 07
Sep 14
Sep 21
Sep 28
Median
Confirmed
Confirmed + 30%PUI
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

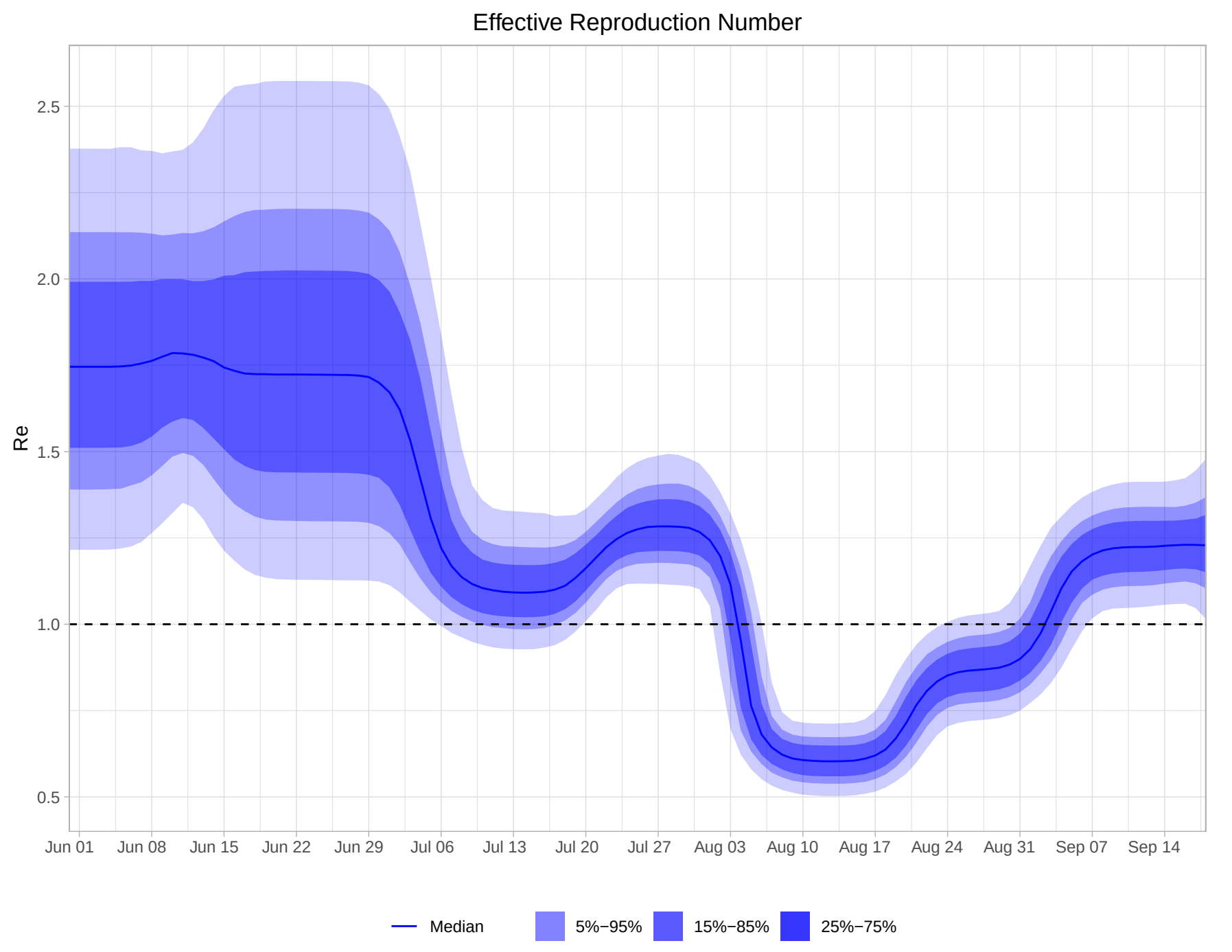

Long Term Hospitalization Projection
Number of COVID19 Patients in Hospital
400
300
200
100
0
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA


Short Term ICU Projection
Number of COVID19 Patients in ICU
7.5
5.0
2.5
0.0
Jun 01
Jun 08
Jun 15
Jun 22
Jun 29
Jul 06
Jul 13
Jul 20
Jul 27
Aug 03
Aug 10
Aug 17
Aug 24
Aug 31
Sep 07
Sep 14
Sep 21
Sep 28
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
150
100
50
0
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

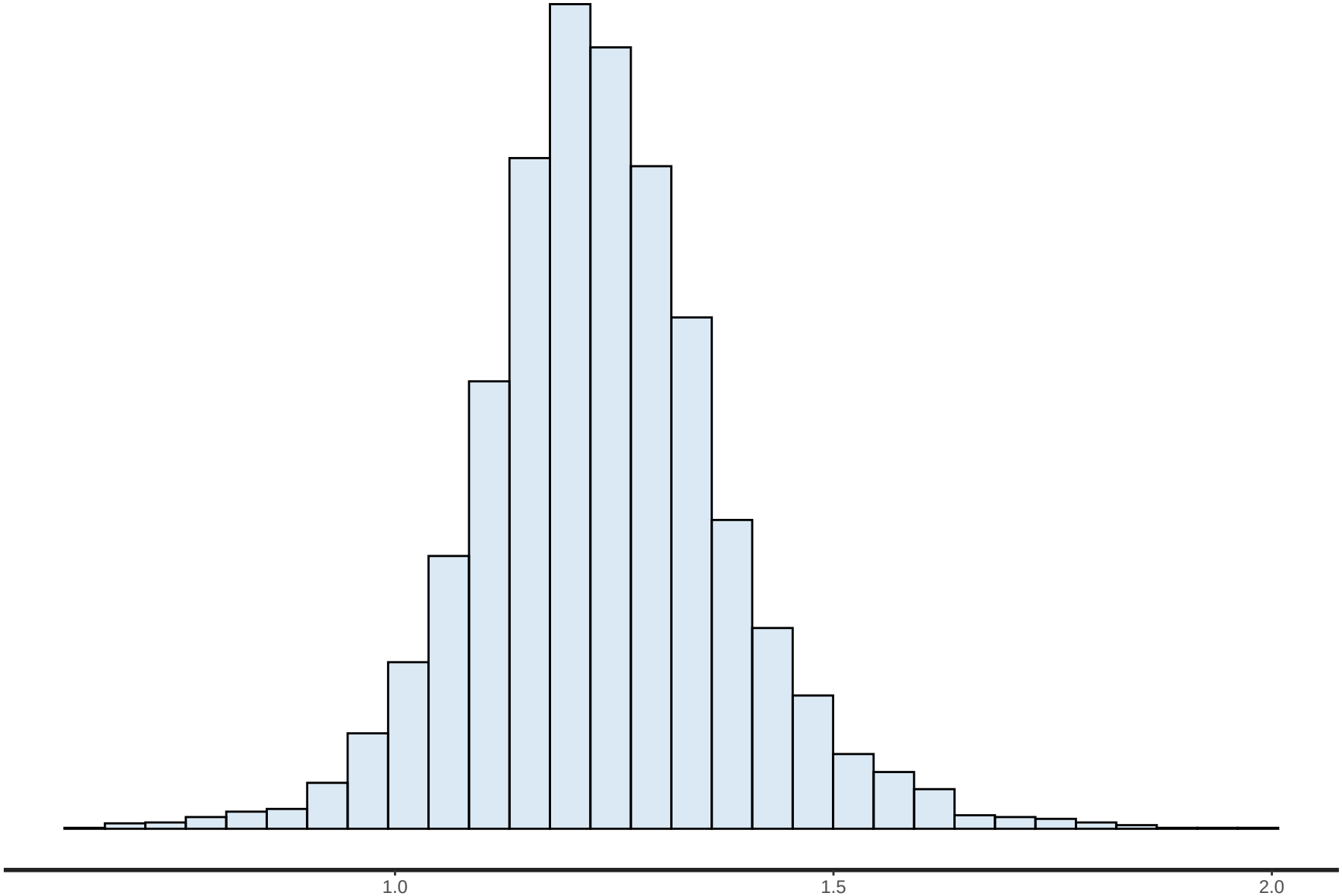

Short Term Death Projection
Number of COVID19 Deaths
0
5
10
15
20
Jun 01
Jun 08
Jun 15
Jun 22
Jun 29
Jul 06
Jul 13
Jul 20
Jul 27
Aug 03
Aug 10
Aug 17
Aug 24
Aug 31
Sep 07
Sep 14
Sep 21
Sep 28
Median
Confirmed
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

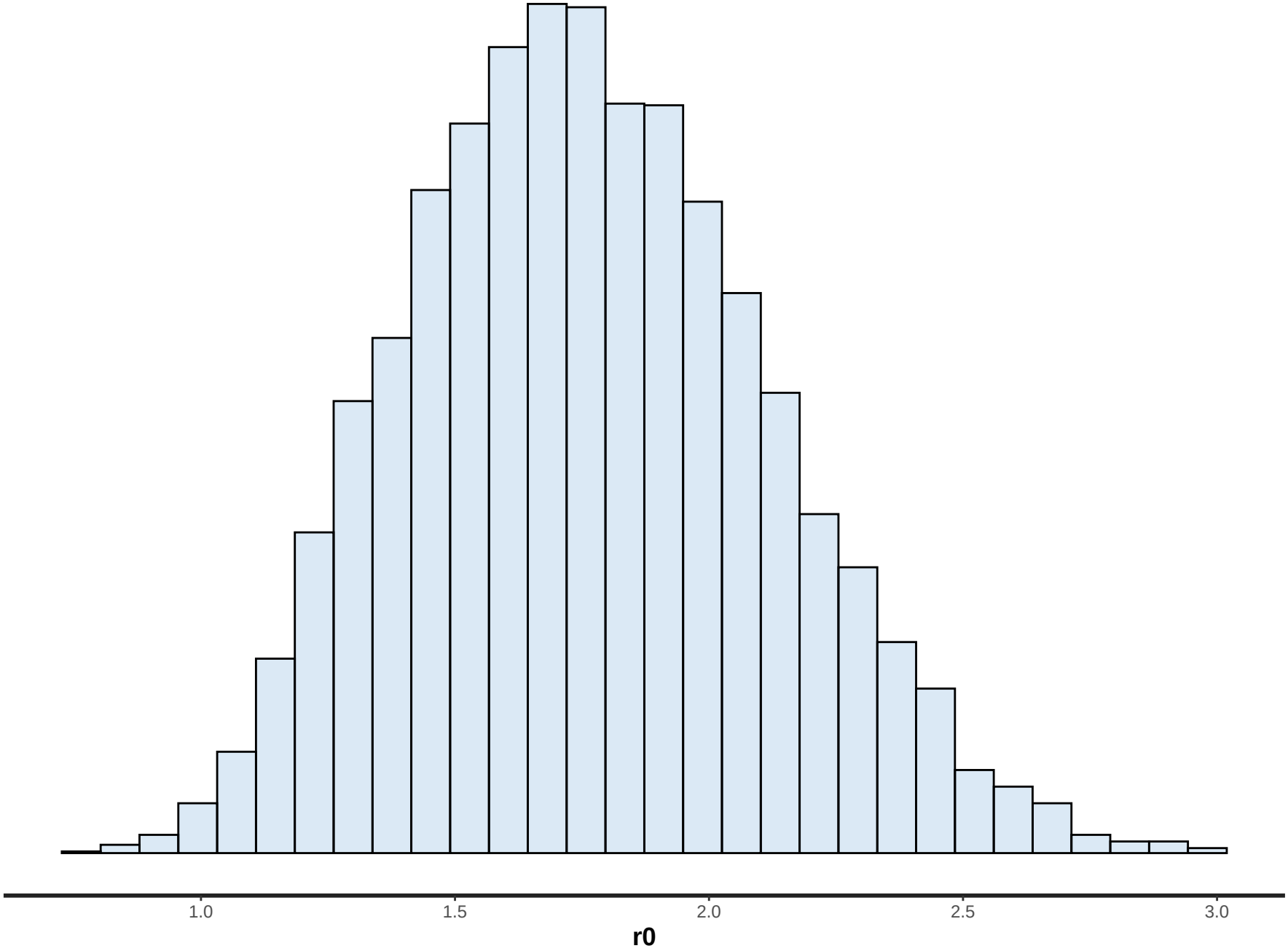

Long Term Death Projection
Number of COVID19 Deaths
400
200
0
Jun 01
Jul 01
Aug 01
Sep 01
Oct 01
Nov 01
Dec 01
Median
5%−95%
15%−85%
25%−75%
localepi.github.io/LEMMA

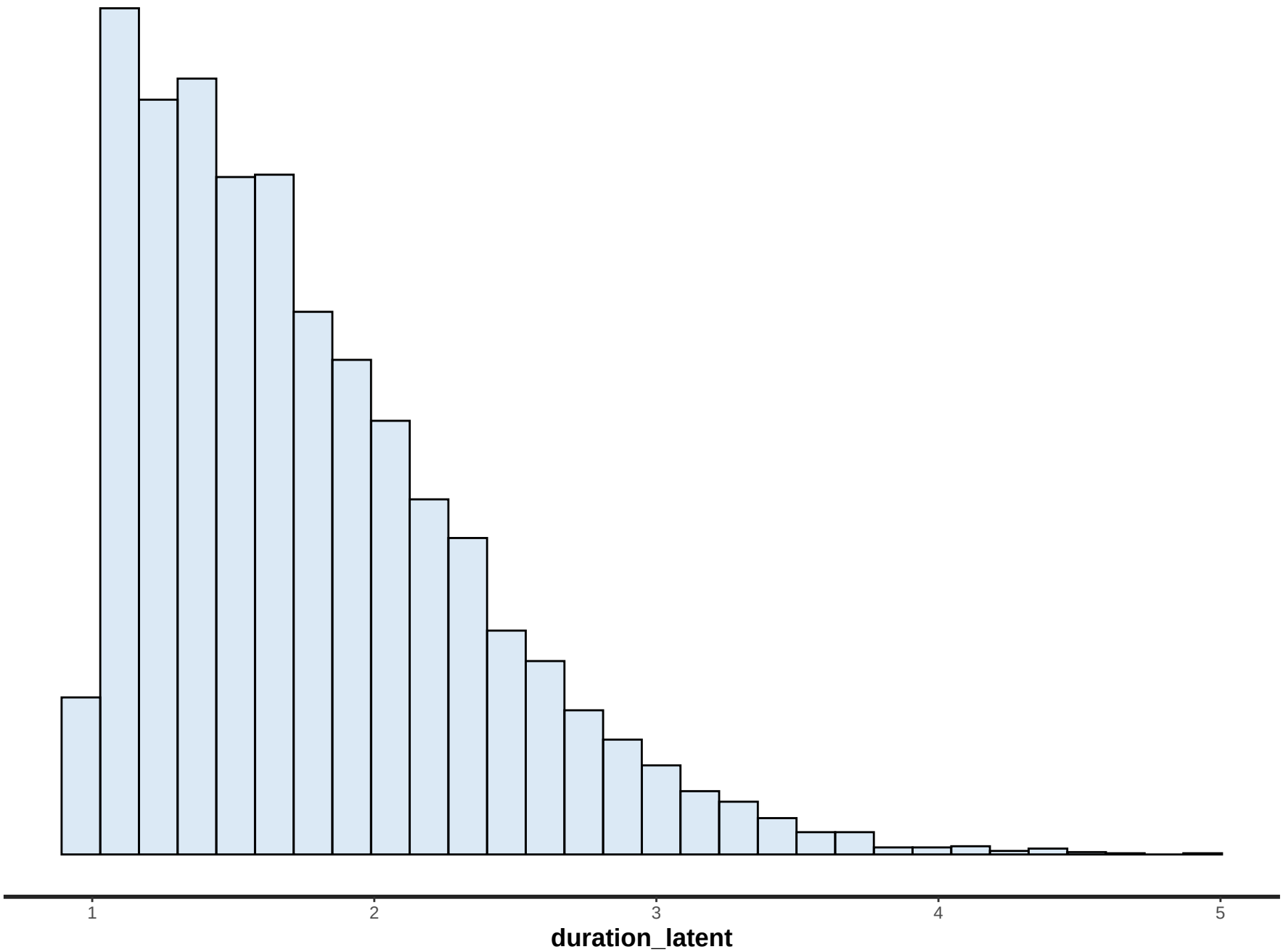

Effective Reproduction Number
Re
2.5
2.0
1.5
1.0
0.5
Jun 01
Jun 08
Jun 15
Jun 22
Jun 29
Jul 06
Jul 13
Jul 20
Jul 27
Aug 03
Aug 10
Aug 17
Aug 24
Aug 31
Sep 07
Sep 14
Median
5%−95%
15%−85%
25%−75%

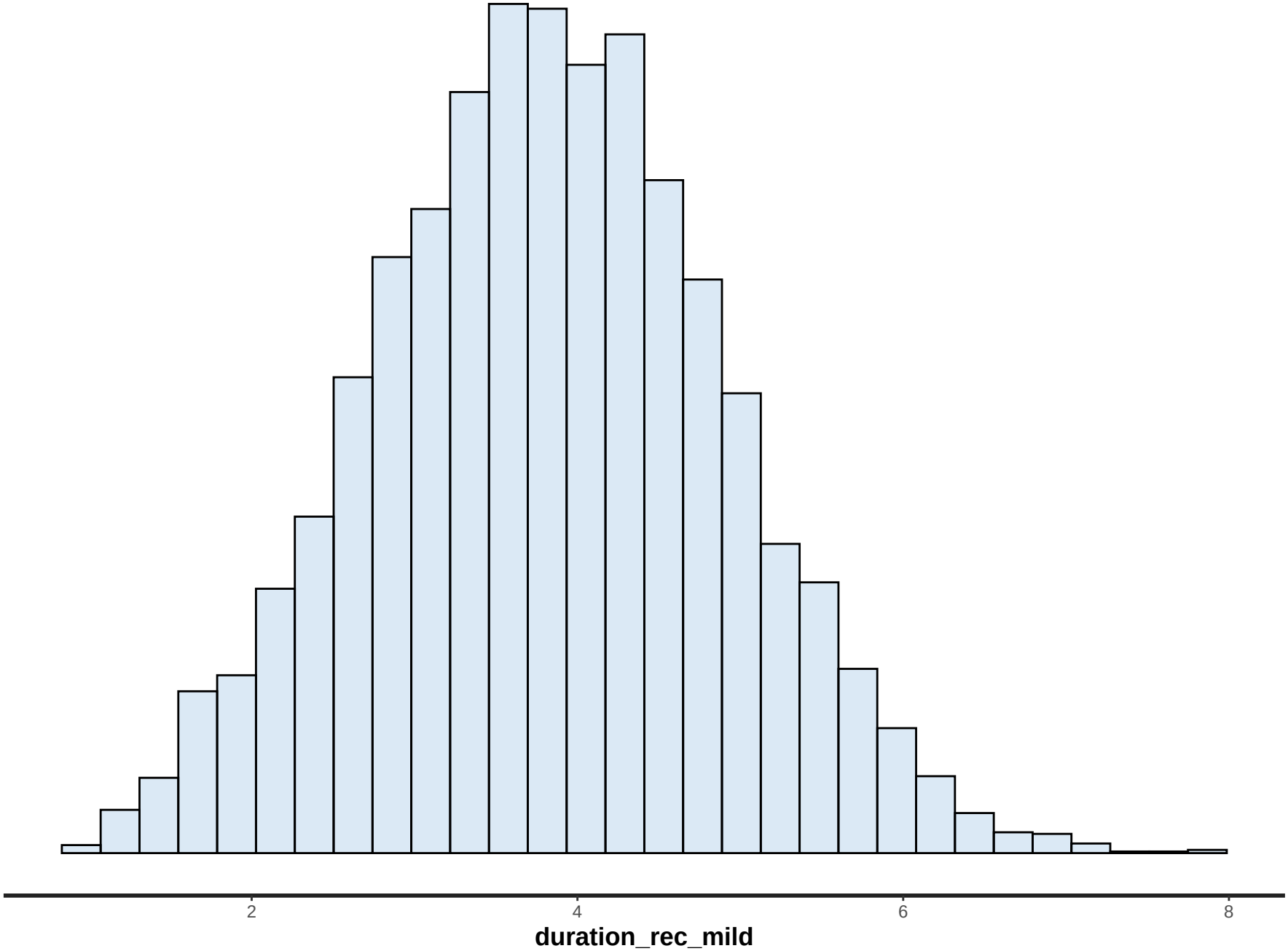
# Rt as of 2020−09−18

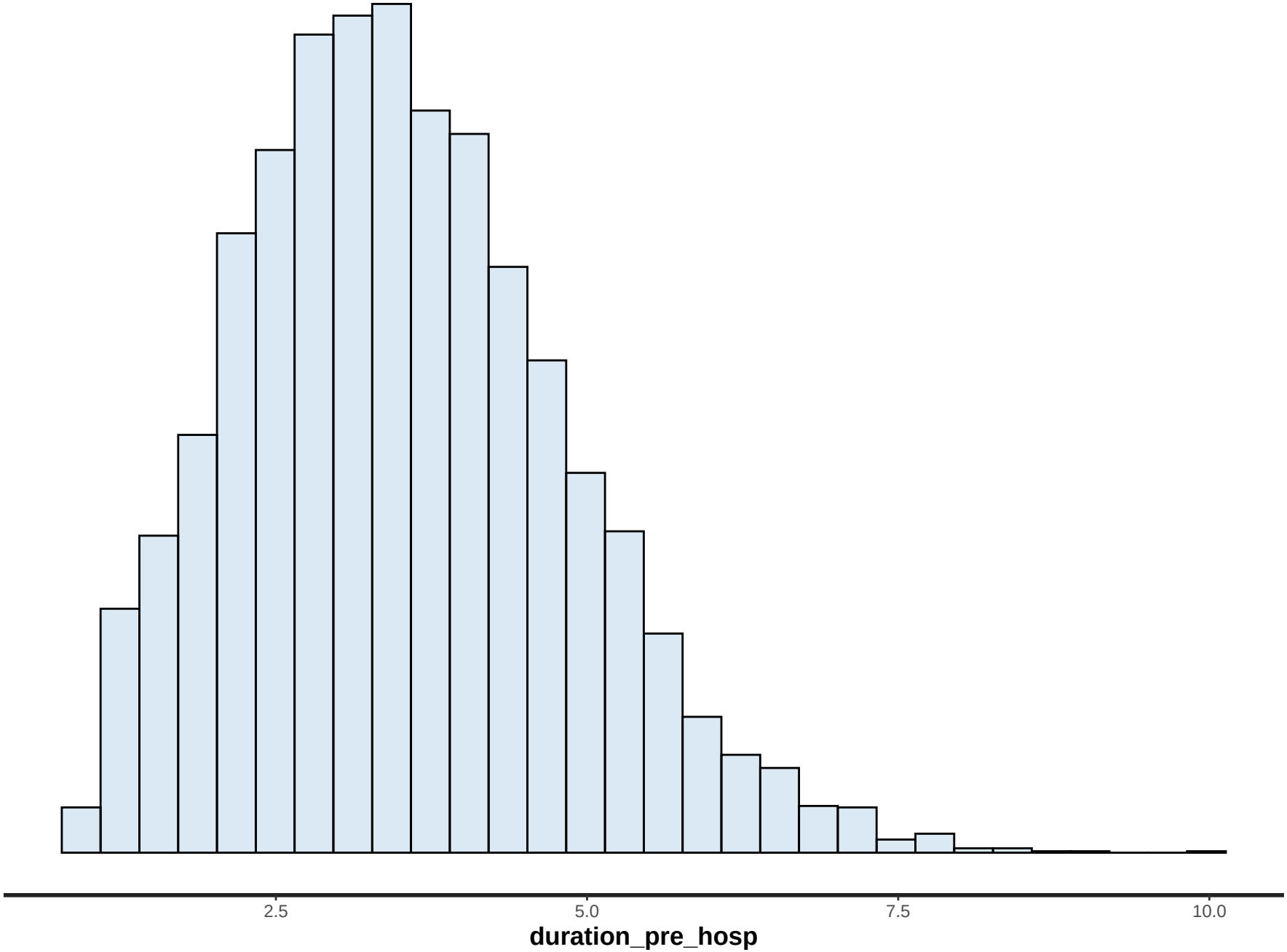
| 5% | 10% | 25% | 50% | 75% | 90% | 95% |
|---|---|---|---|---|---|---|
| 1.01 | 1.07 | 1.15 | 1.23 | 1.32 | 1.41 | 1.48 |

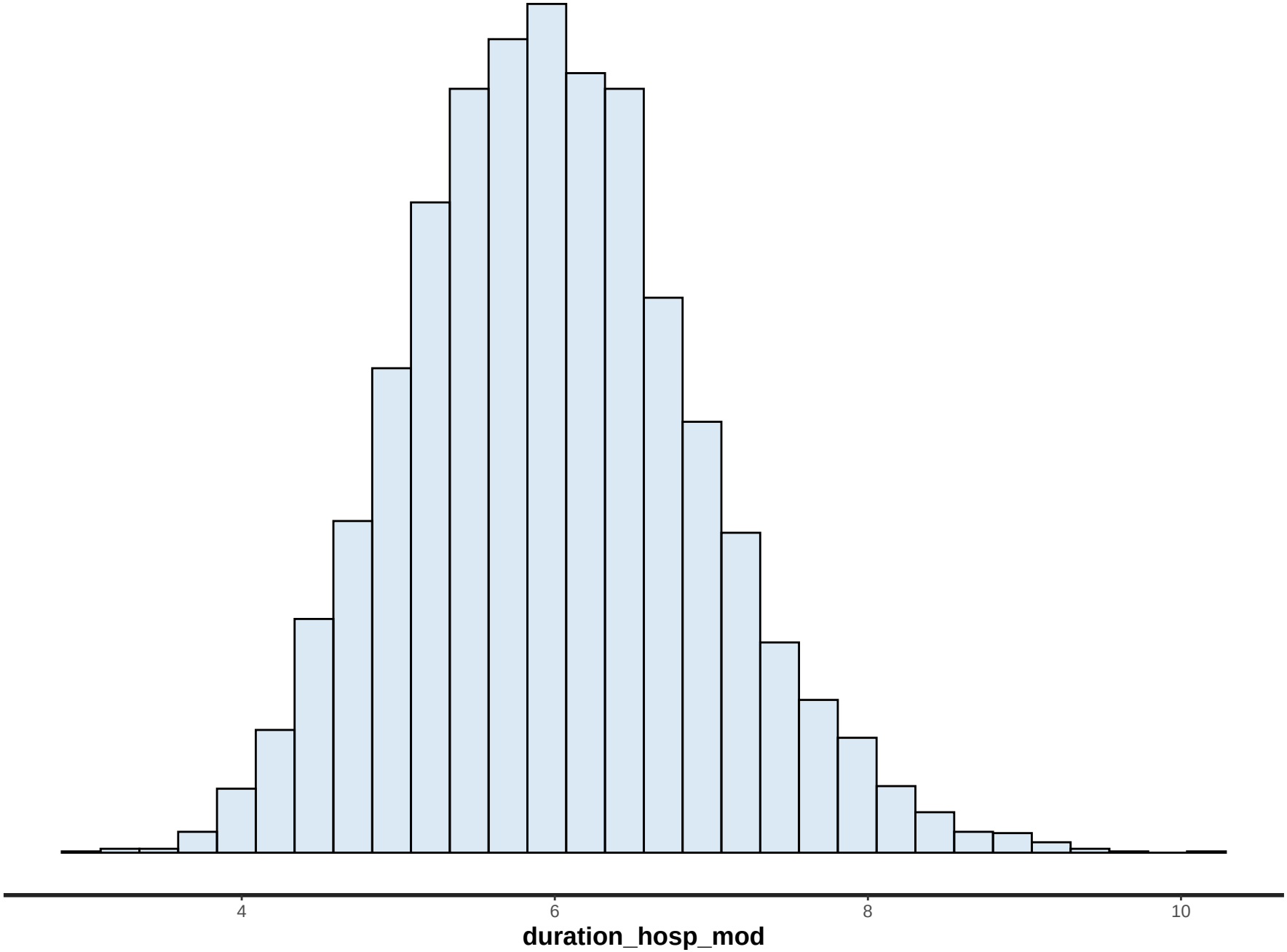


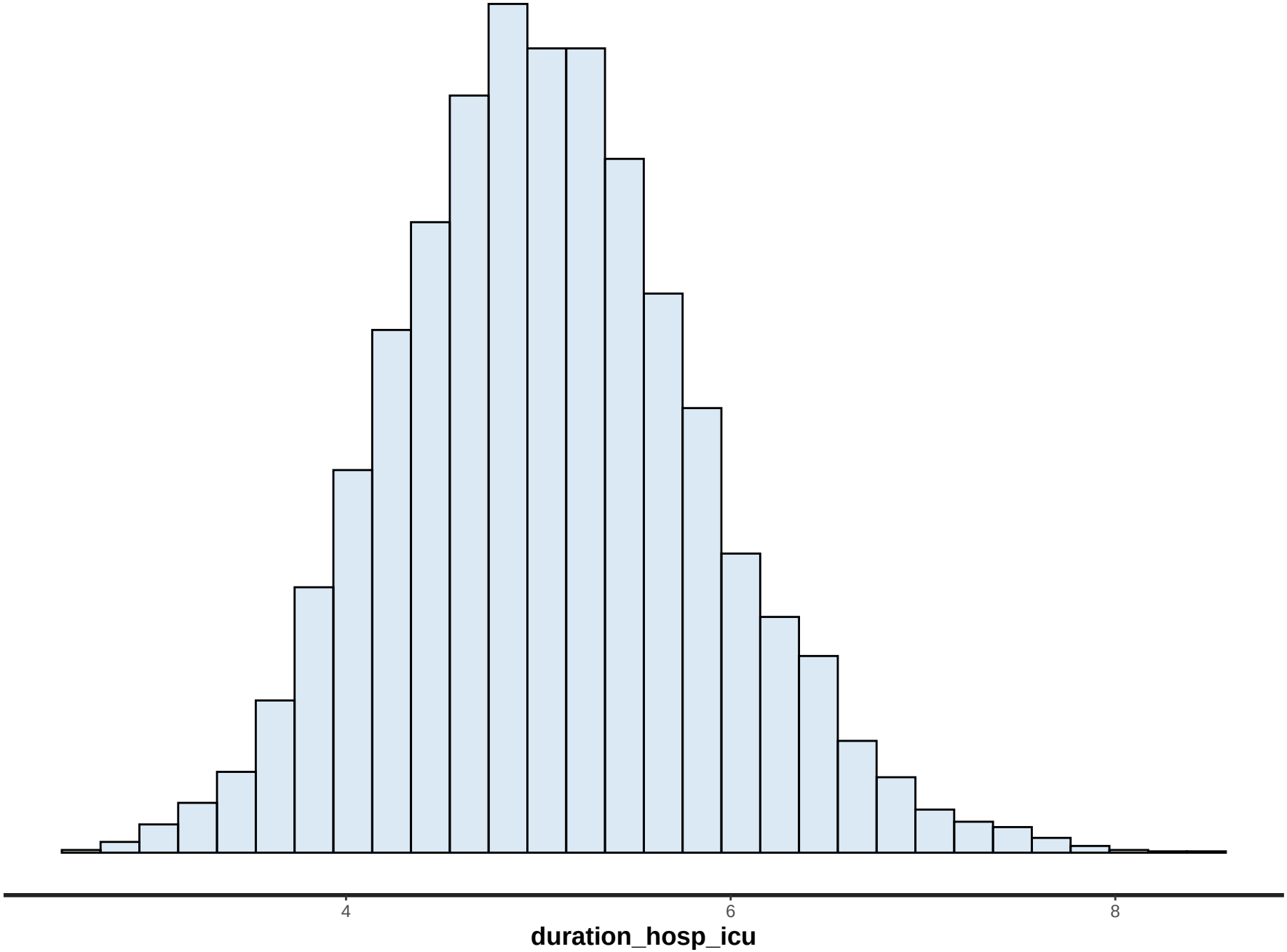

1.0
1.5
2.0
2.5
3.0
r0

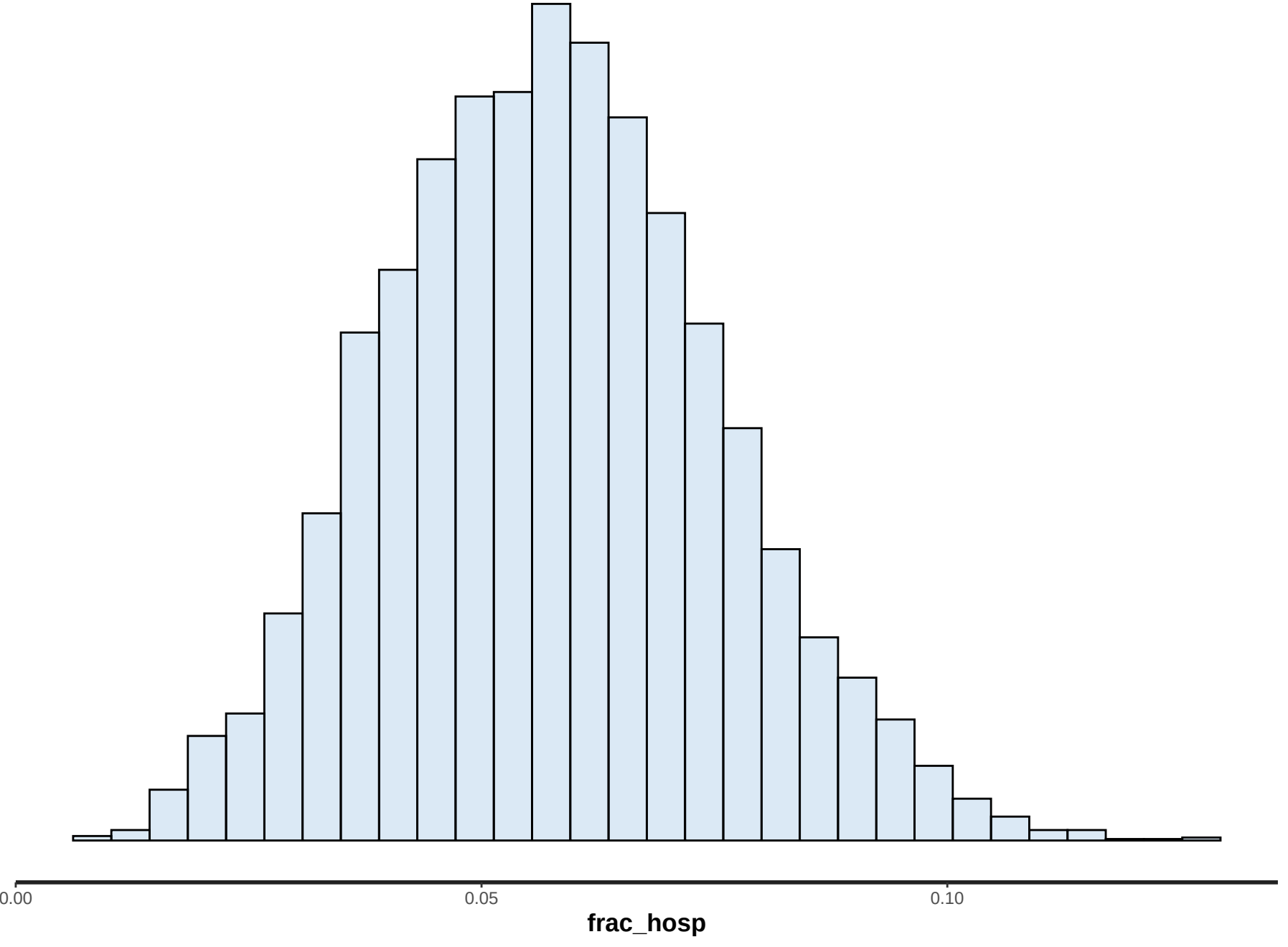

1
2
3
4
5
duration_latent

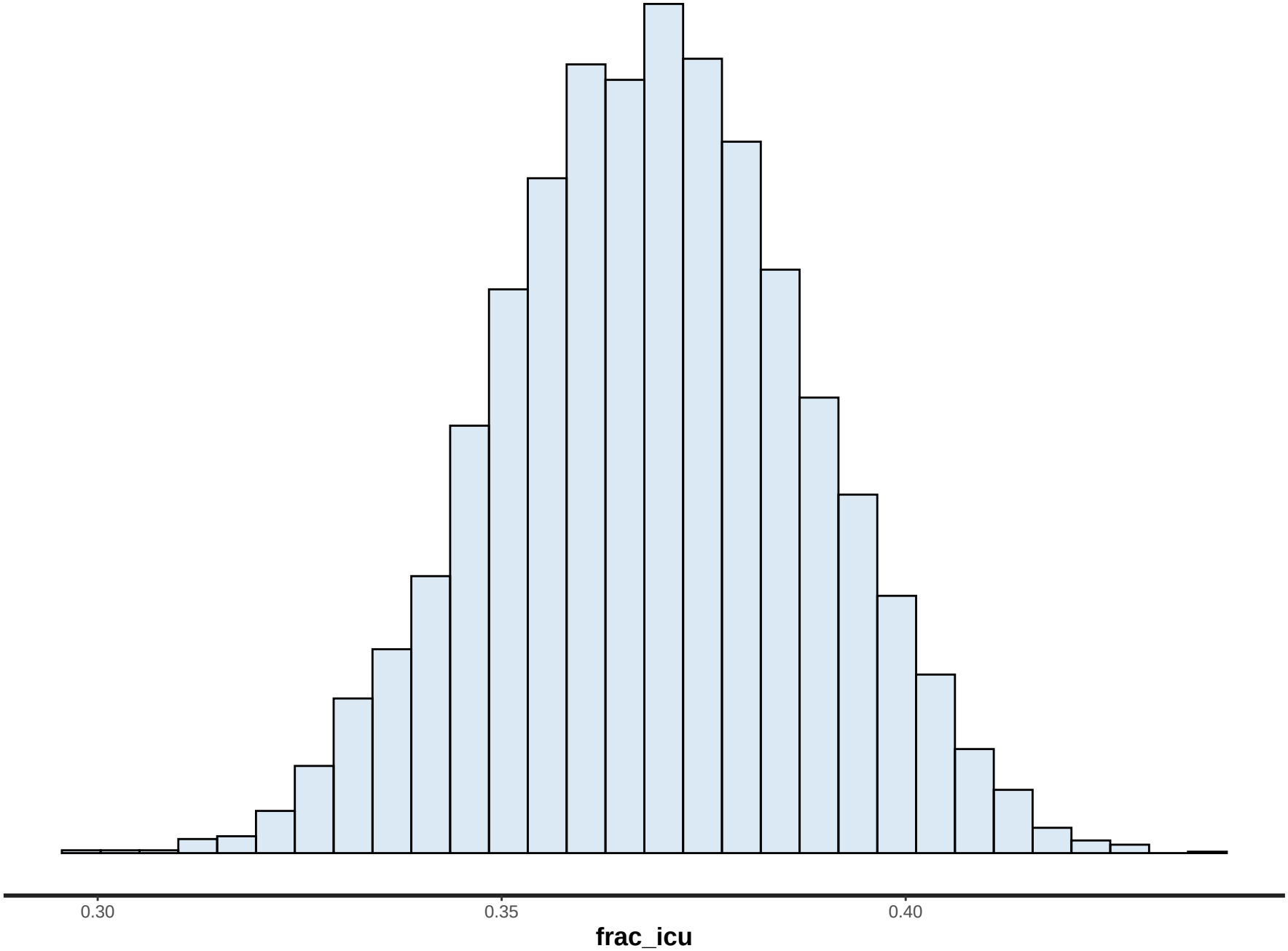

2
4
6
8
duration_rec_mild

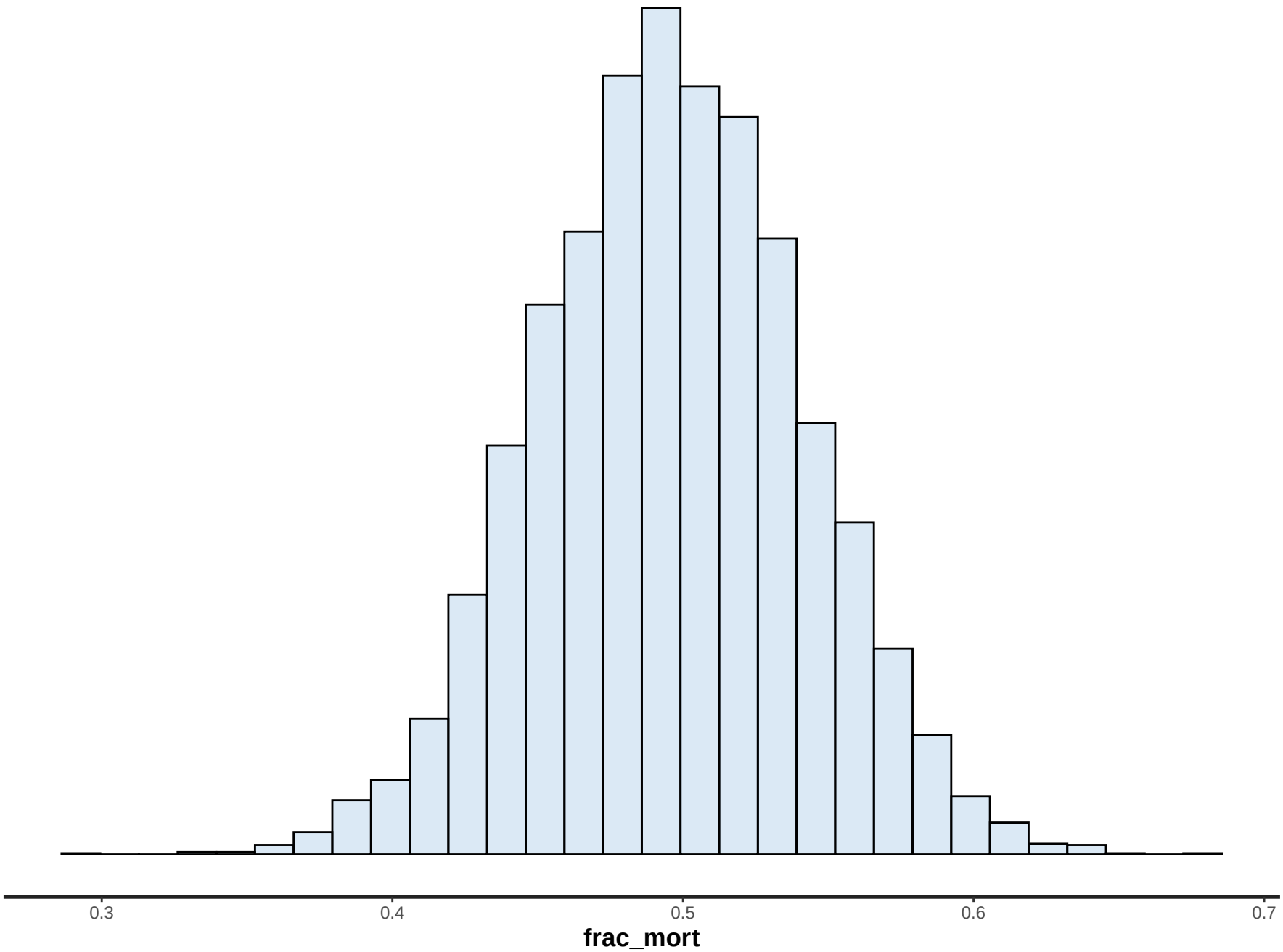

2.5
5.0
7.5
10.0
duration_pre_hosp

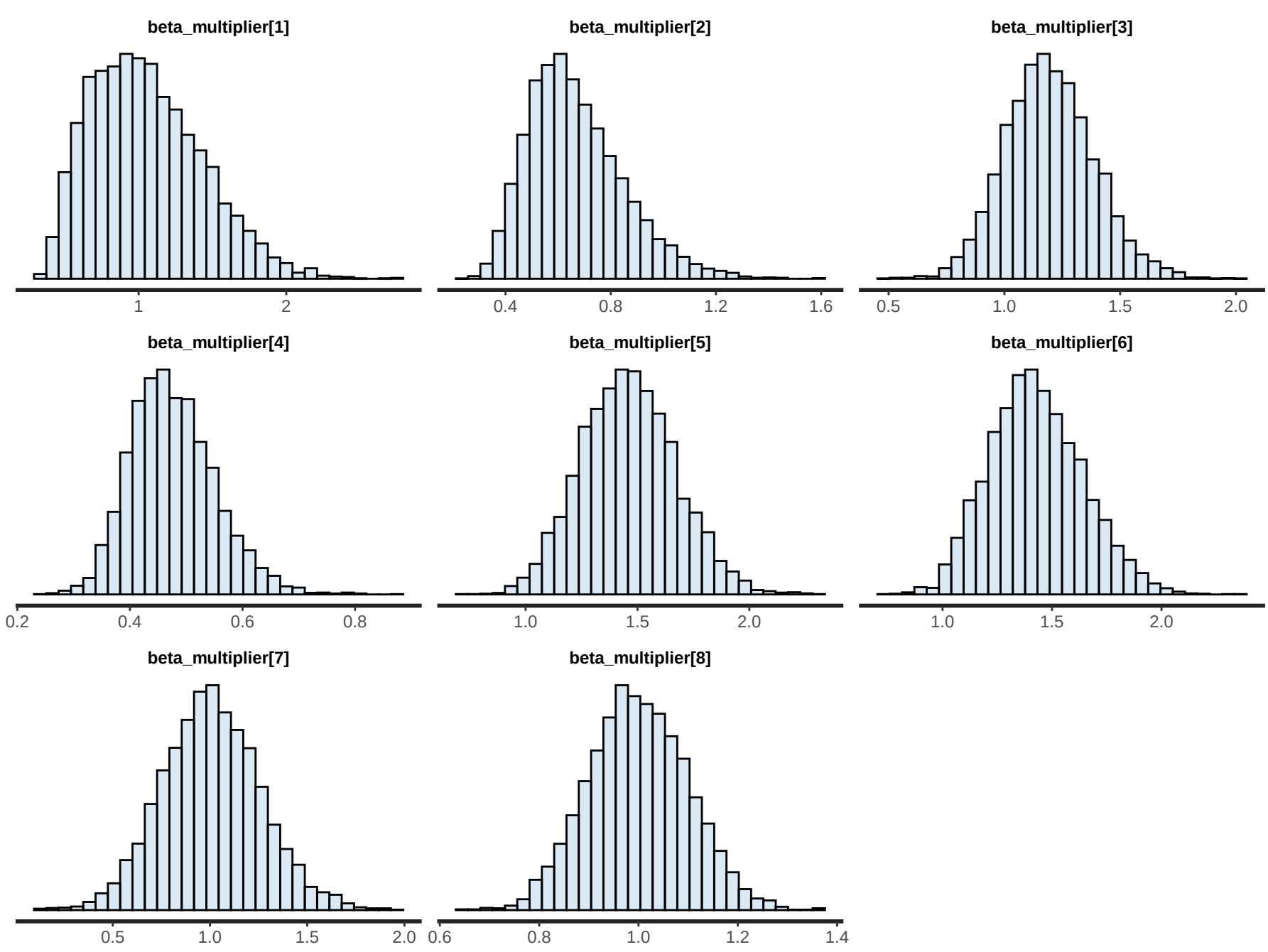

4
6
8
10
duration_hosp_mod

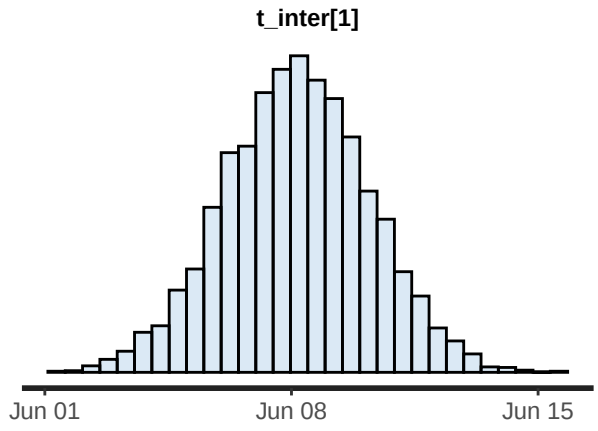

4
6
8
duration_hosp_icu

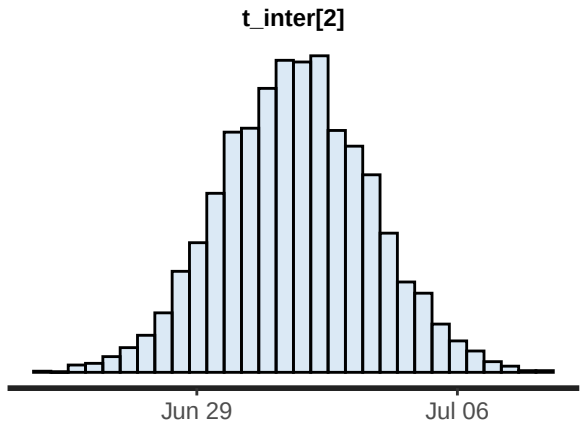

0.00
0.05
0.10
frac_hosp

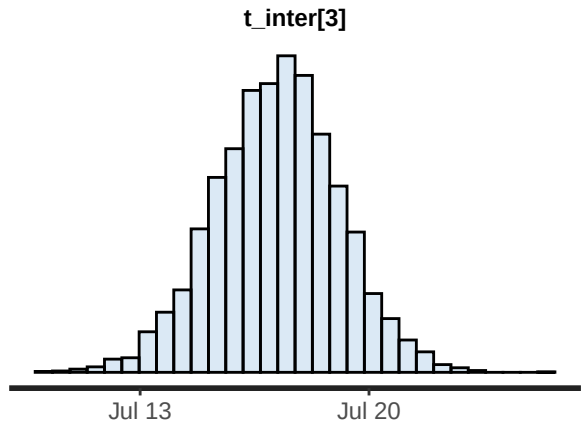

0.30
0.35
0.40
frac_icu

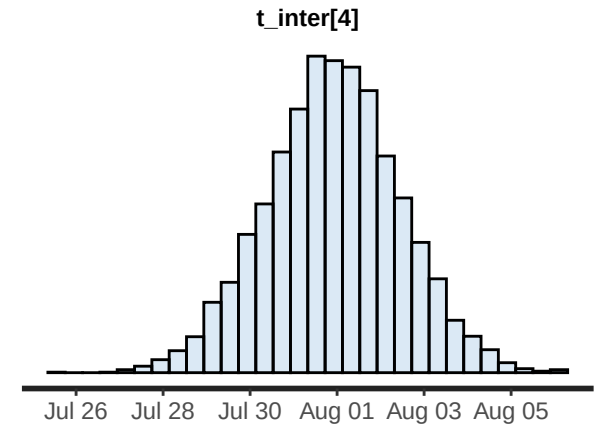

0.3
0.4
0.5
0.6
0.7
frac_mort

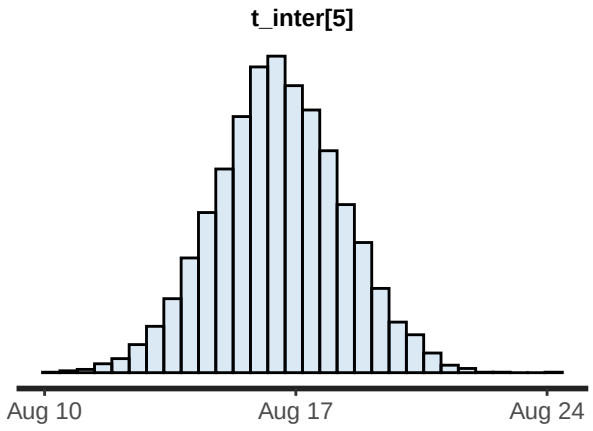

beta_multiplier[1]
1
2
beta_multiplier[2]
0.4
0.8
1.2
1.6
beta_multiplier[3]
0.5
1.0
1.5
2.0
beta_multiplier[4]
0.2
0.4
0.6
0.8
beta_multiplier[5]
1.0
1.5
2.0
beta_multiplier[6]
1.0
1.5
2.0
beta_multiplier[7]
0.5
1.0
1.5
2.0
beta_multiplier[8]
0.6
0.8
1.0
1.2
1.4

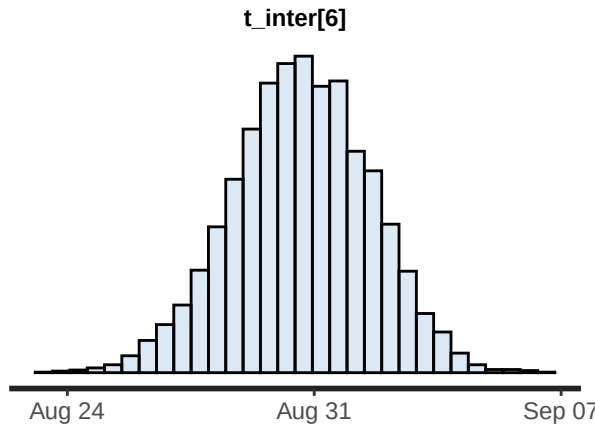

t_inter[1]
Jun 01
Jun 08
Jun 15

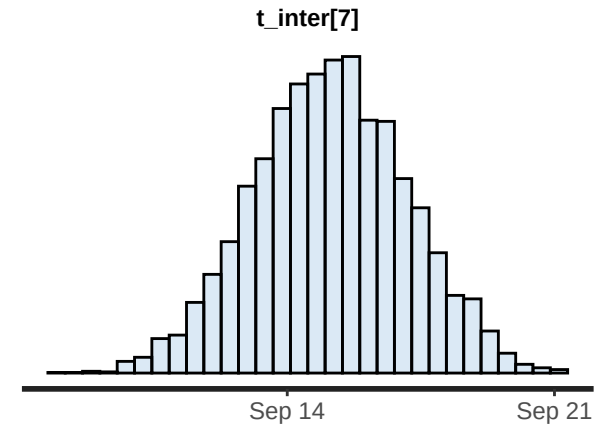

t_inter[2]
Jun 29
Jul 06

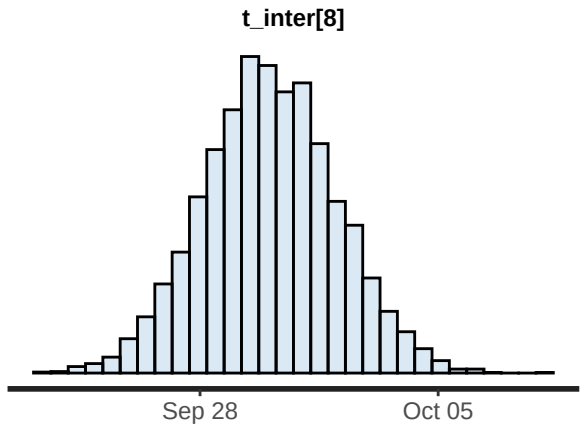

t_inter[3]
Jul 13
Jul 20

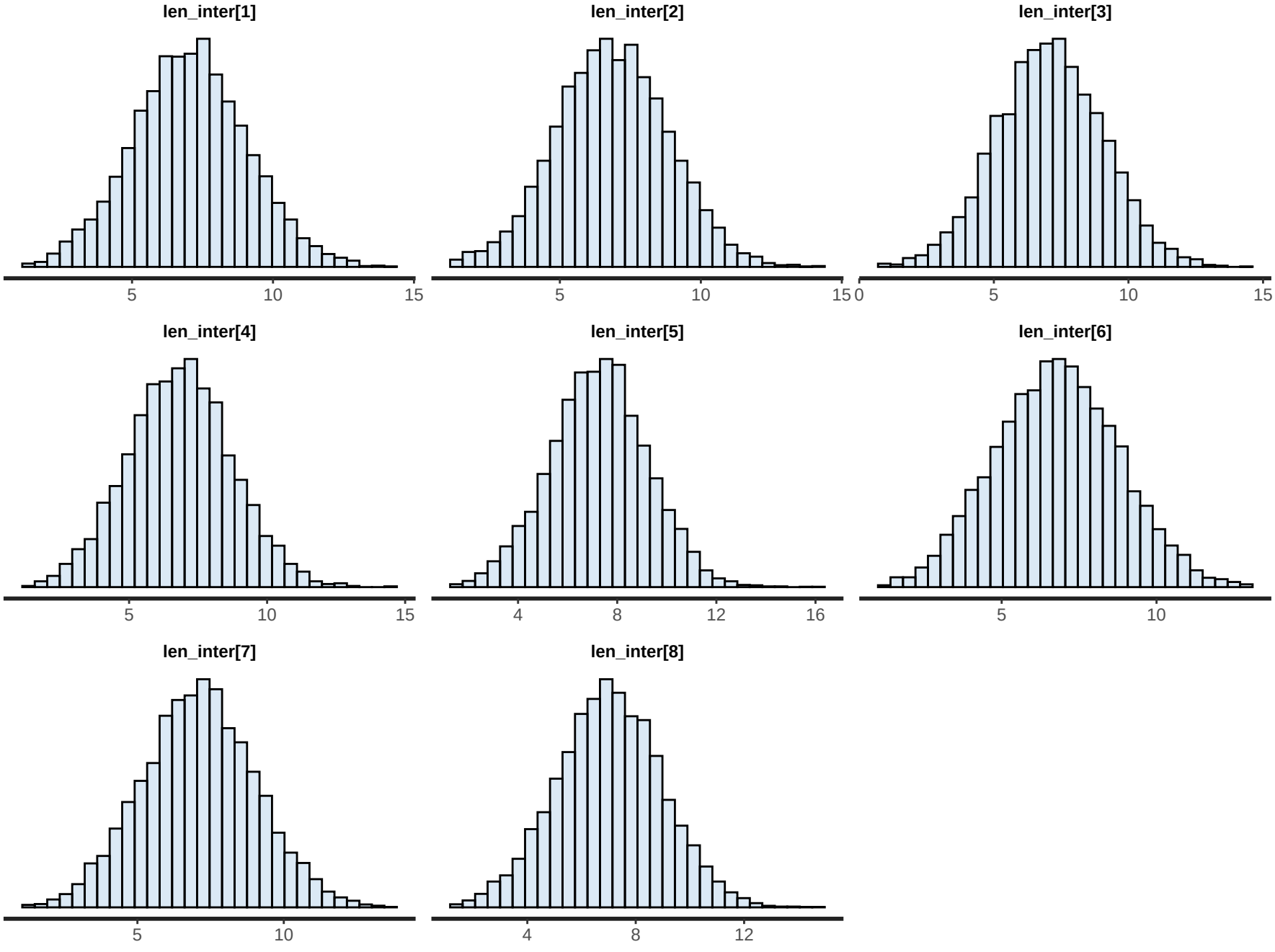

t_inter[4]
Jul 26
Jul 28
Jul 30
Aug 01
Aug 03
Aug 05

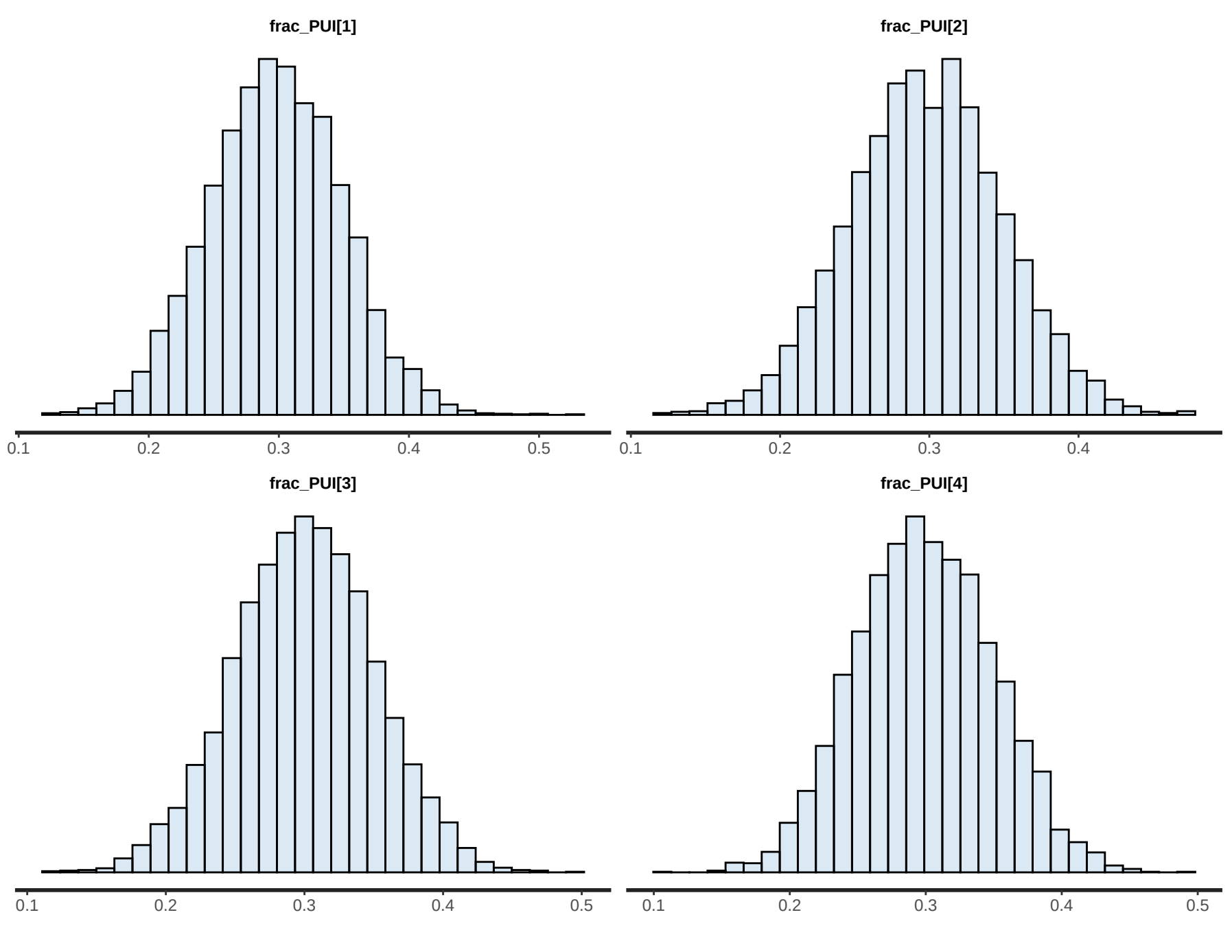

t_inter[5]
Aug 10
Aug 17
Aug 24

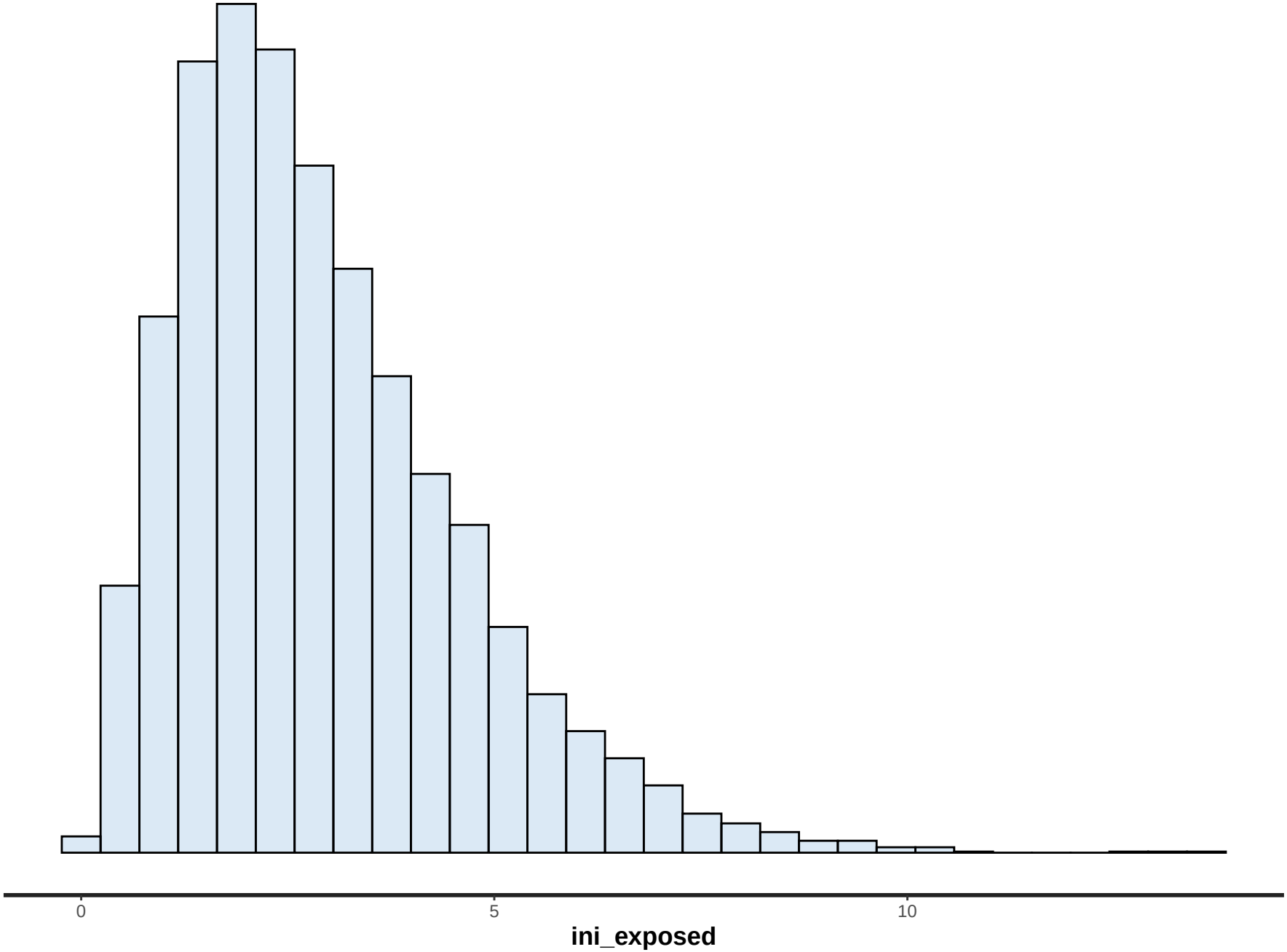

t_inter[6]
Aug 24
Aug 31
Sep 07

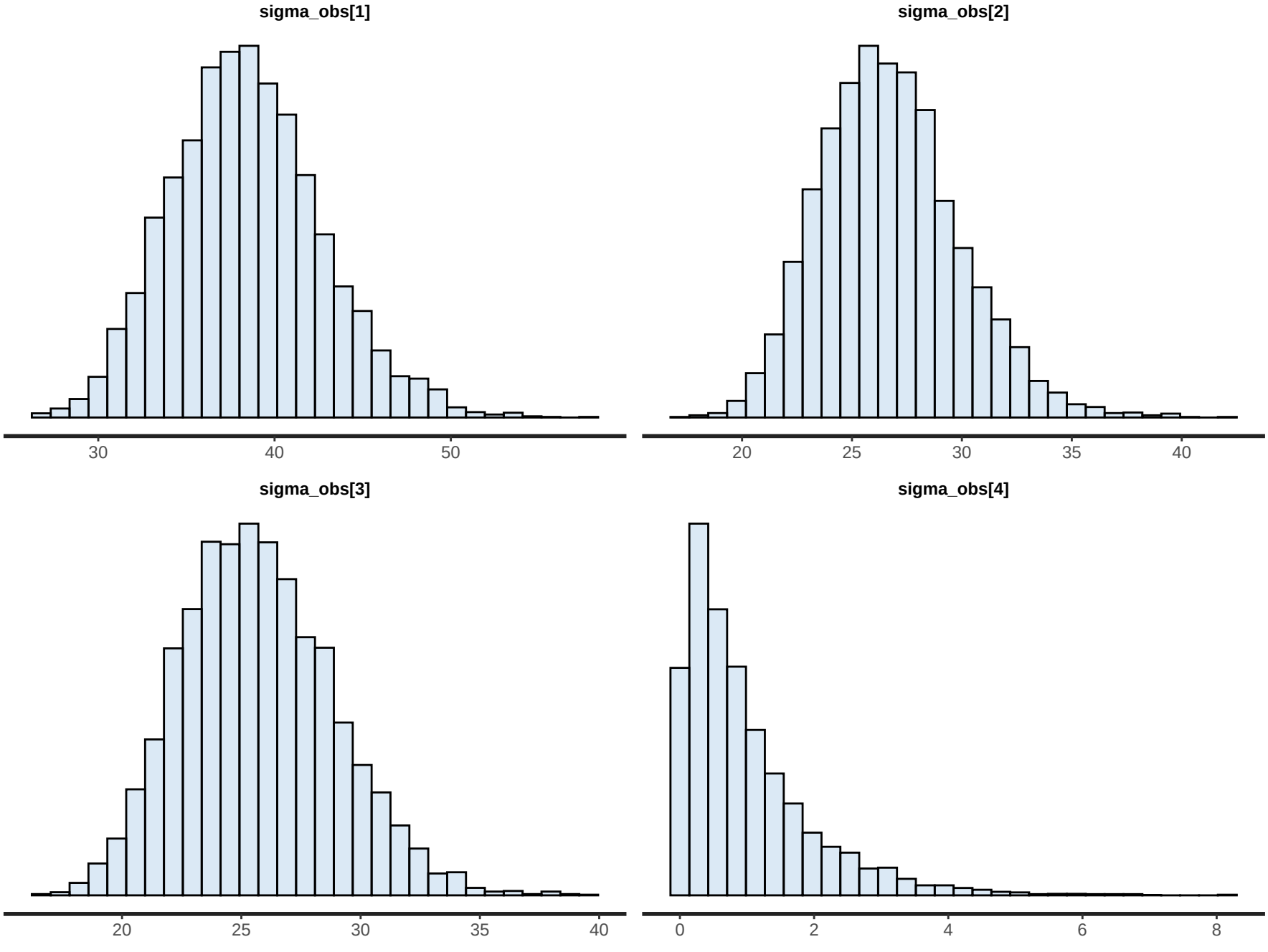

t_inter[7]
Sep 14
Sep 21


t_inter[8]
Sep 28
Oct 05


len_inter[1]
5
10
15
len_inter[2]
5
10
15
len_inter[3]
0
5
10
15
len_inter[4]
5
10
15
len_inter[5]
4
8
12
16
len_inter[6]
5
10
len_inter[7]
5
10
len_inter[8]
4
8
12


frac_PUI[1]
0.1
0.2
0.3
0.4
0.5
frac_PUI[2]
0.1
0.2
0.3
0.4
frac_PUI[3]
0.1
0.2
0.3
0.4
0.5
frac_PUI[4]
0.1
0.2
0.3
0.4
0.5


0
5
10
ini_exposed


sigma_obs[1]
30
40
50
sigma_obs[2]
20
25
30
35
40
sigma_obs[3]
20
25
30
35
40
sigma_obs[4]
0
2
4
6
8