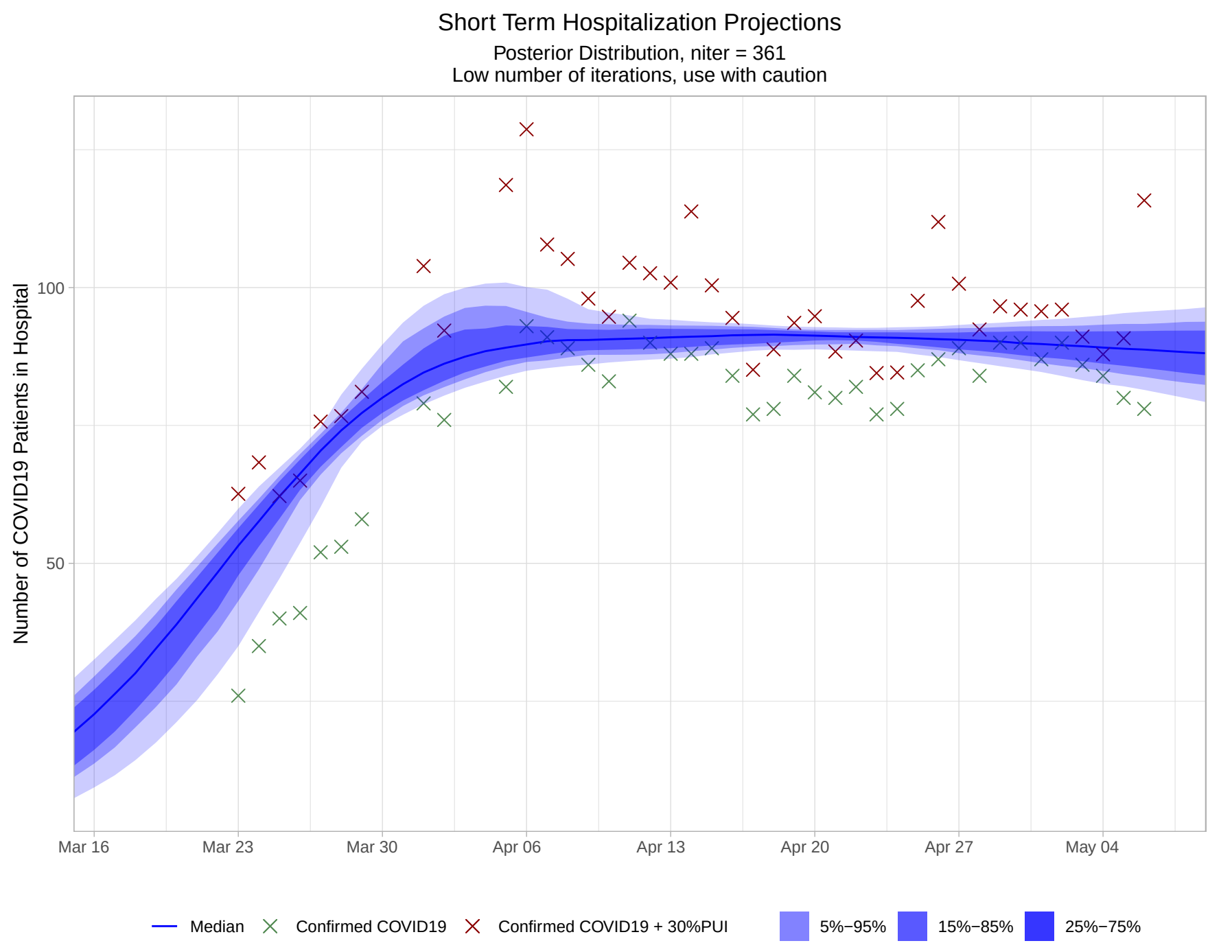
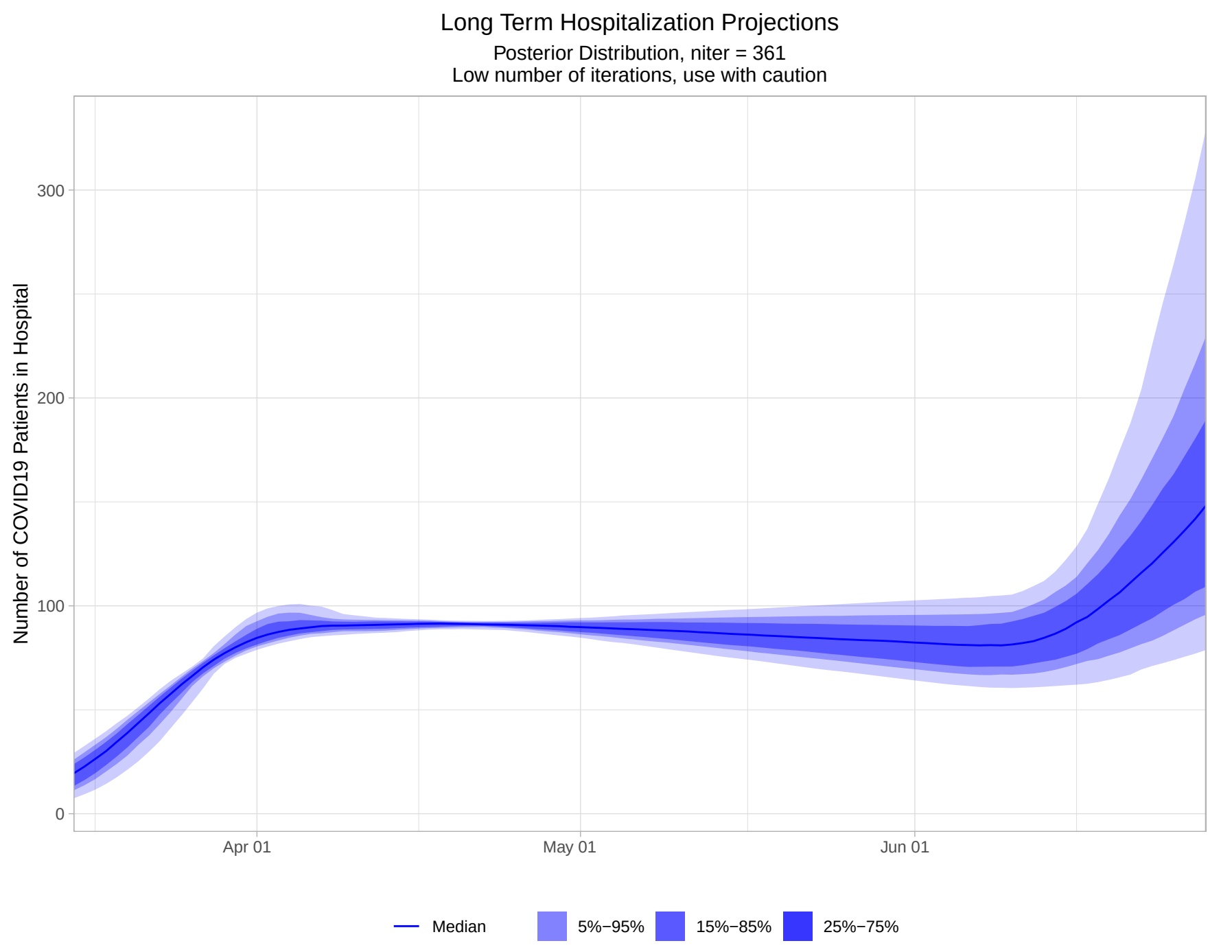
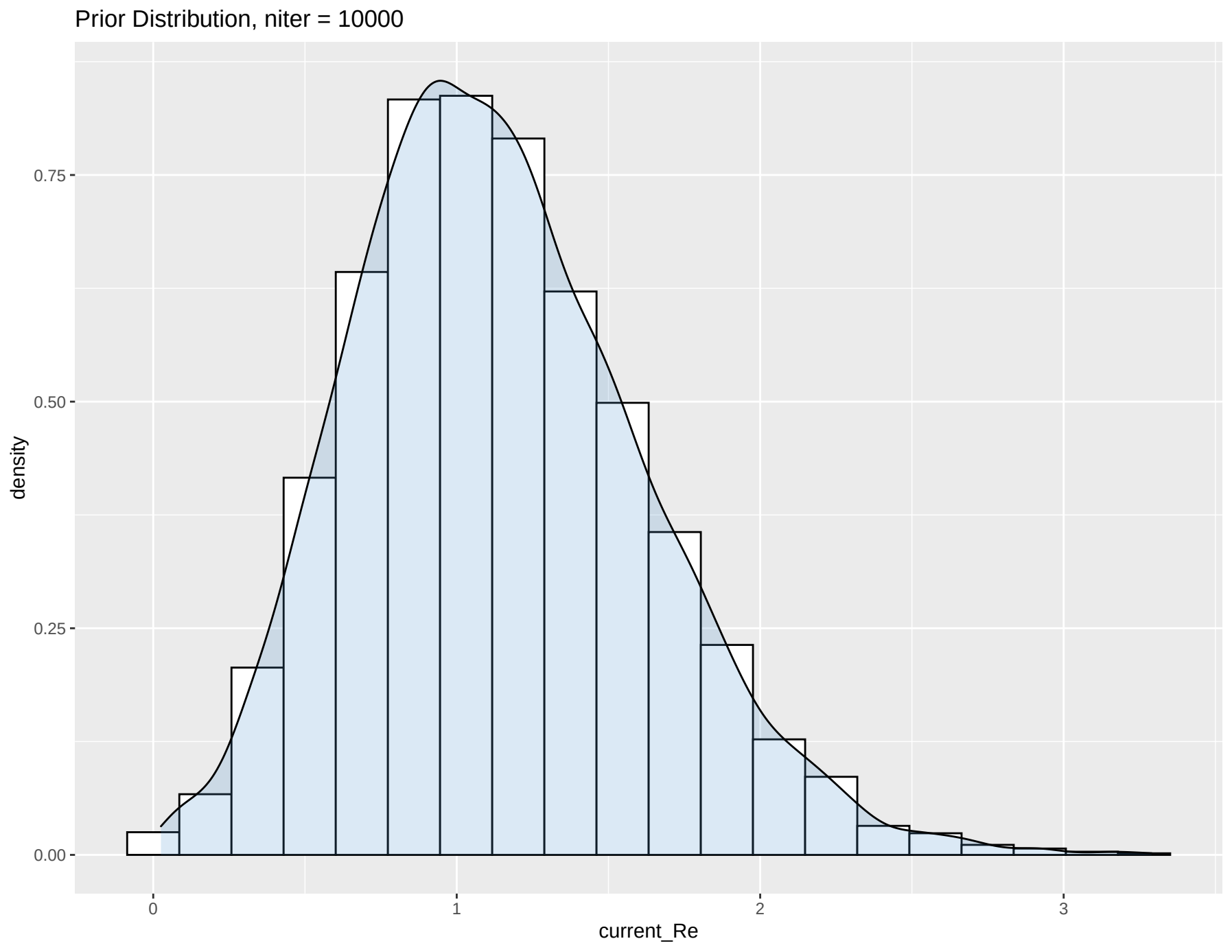
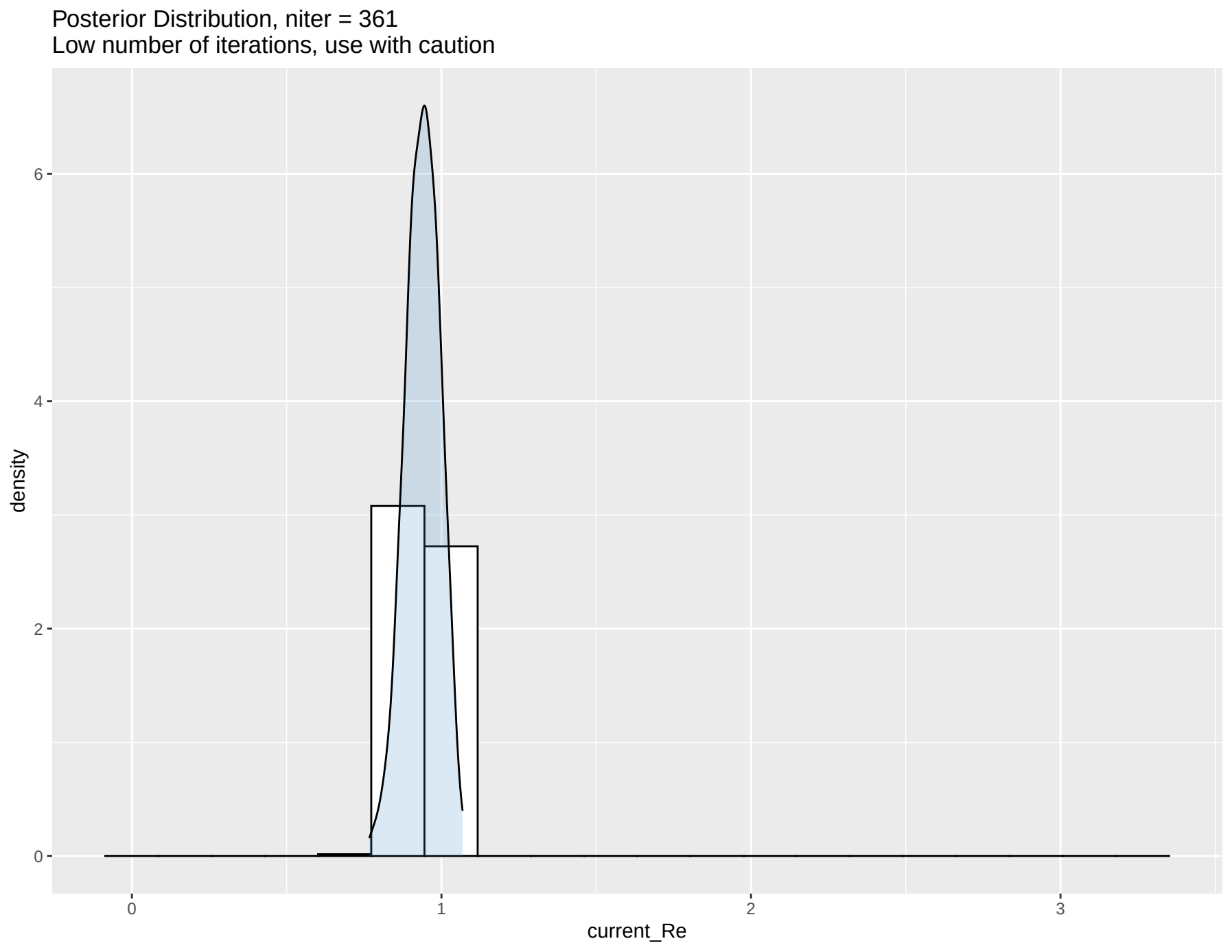
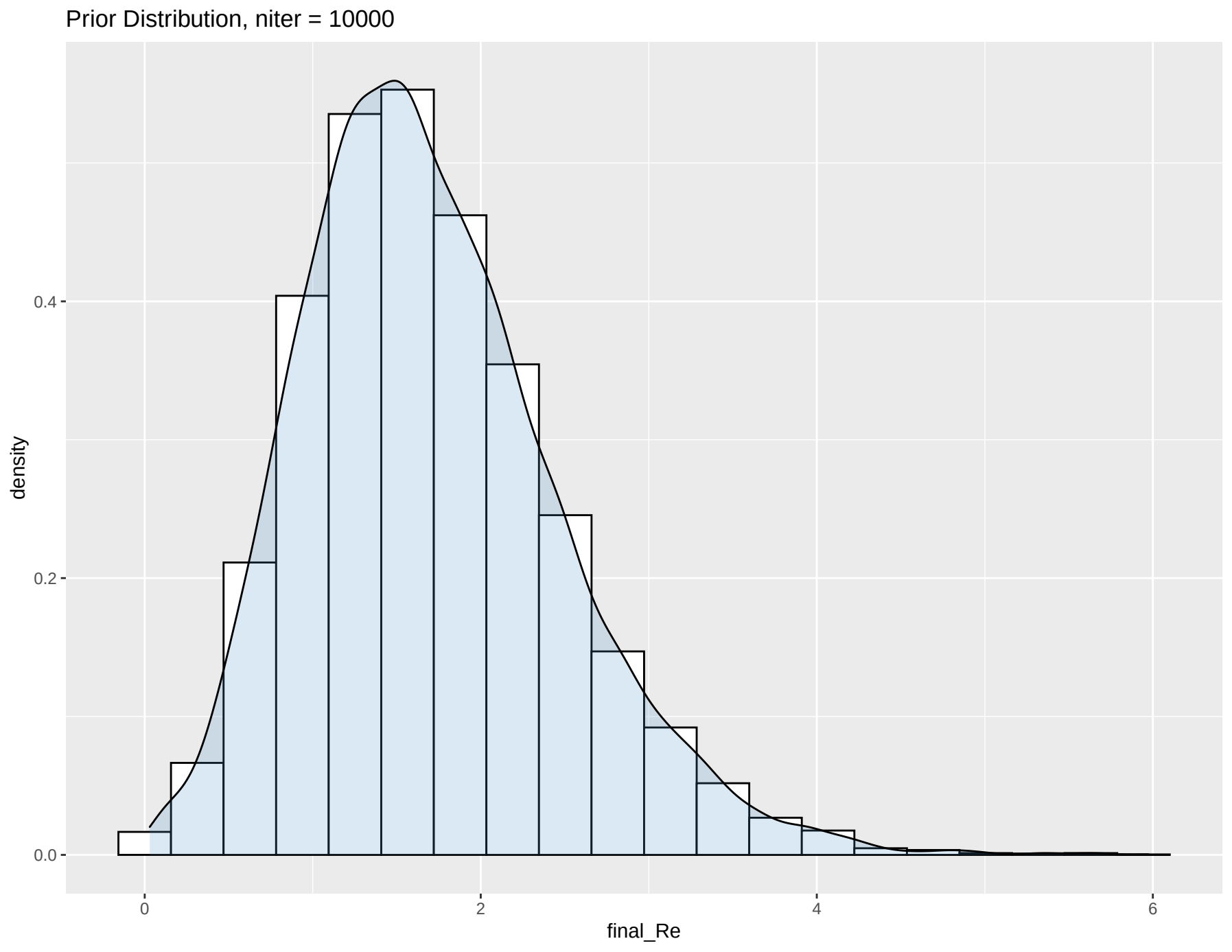
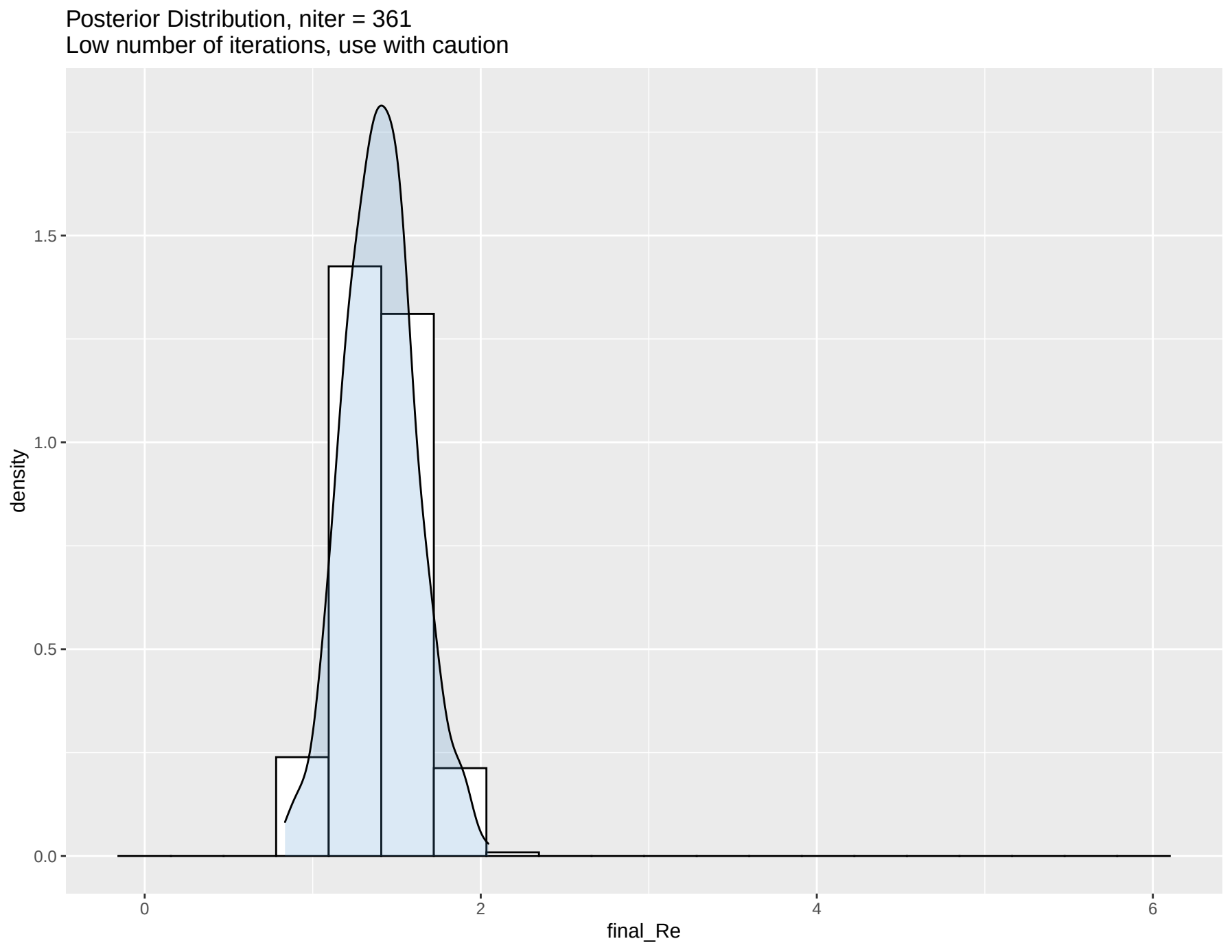

Short Term Hospitalization Projections
Posterior Distribution, niter = 361
Low number of iterations, use with caution
Number of COVID19 Patients in Hospital
100
50
Mar 16
Mar 23
Mar 30
Apr 06
Apr 13
Apr 20
Apr 27
May 04
Median
Confirmed COVID19
Confirmed COVID19 + 30%PUI
5%−95%
15%−85%
25%−75%

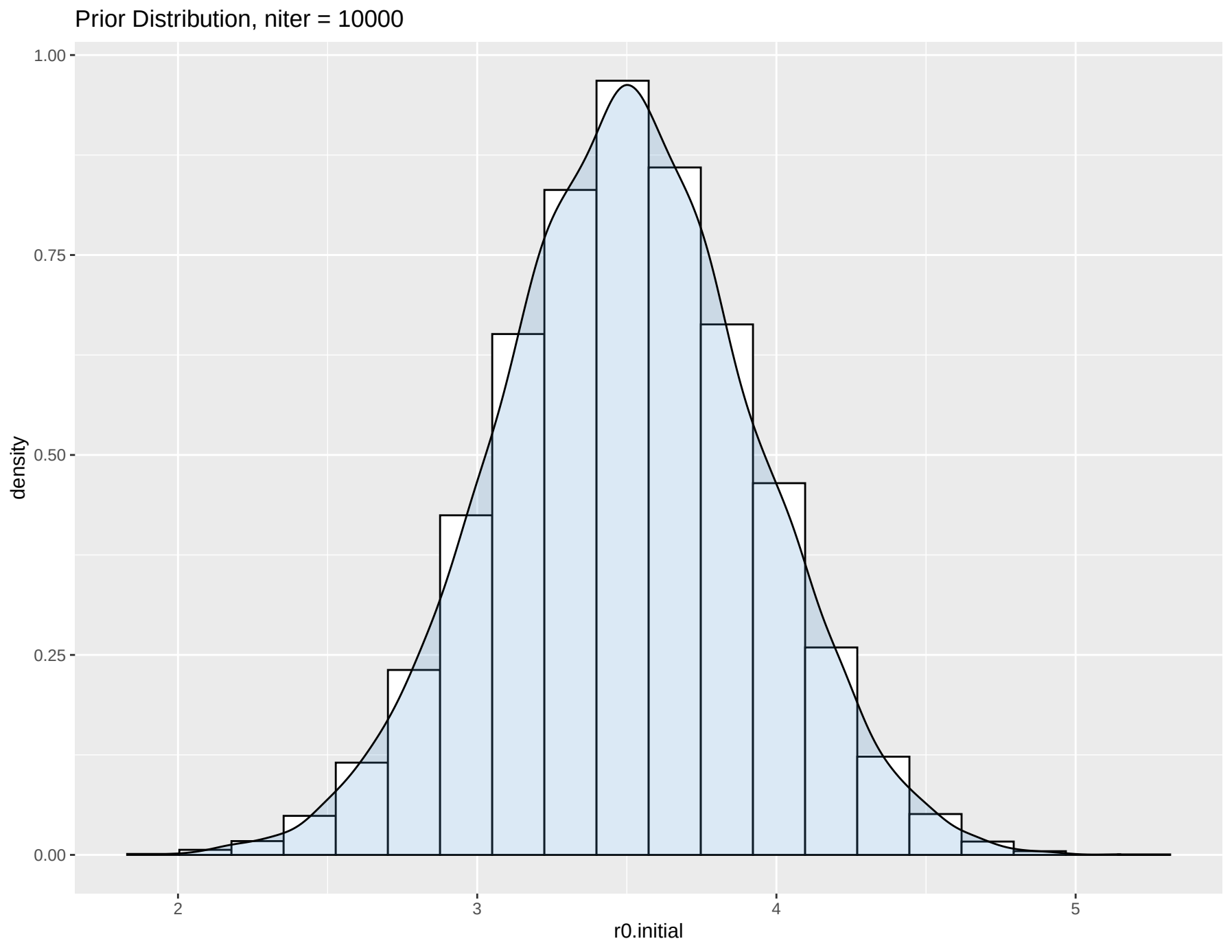

Long Term Hospitalization Projections
Posterior Distribution, niter = 361
Low number of iterations, use with caution
Number of COVID19 Patients in Hospital
300
200
100
0
Apr 01
May 01
Jun 01
Median
5%−95%
15%−85%
25%−75%

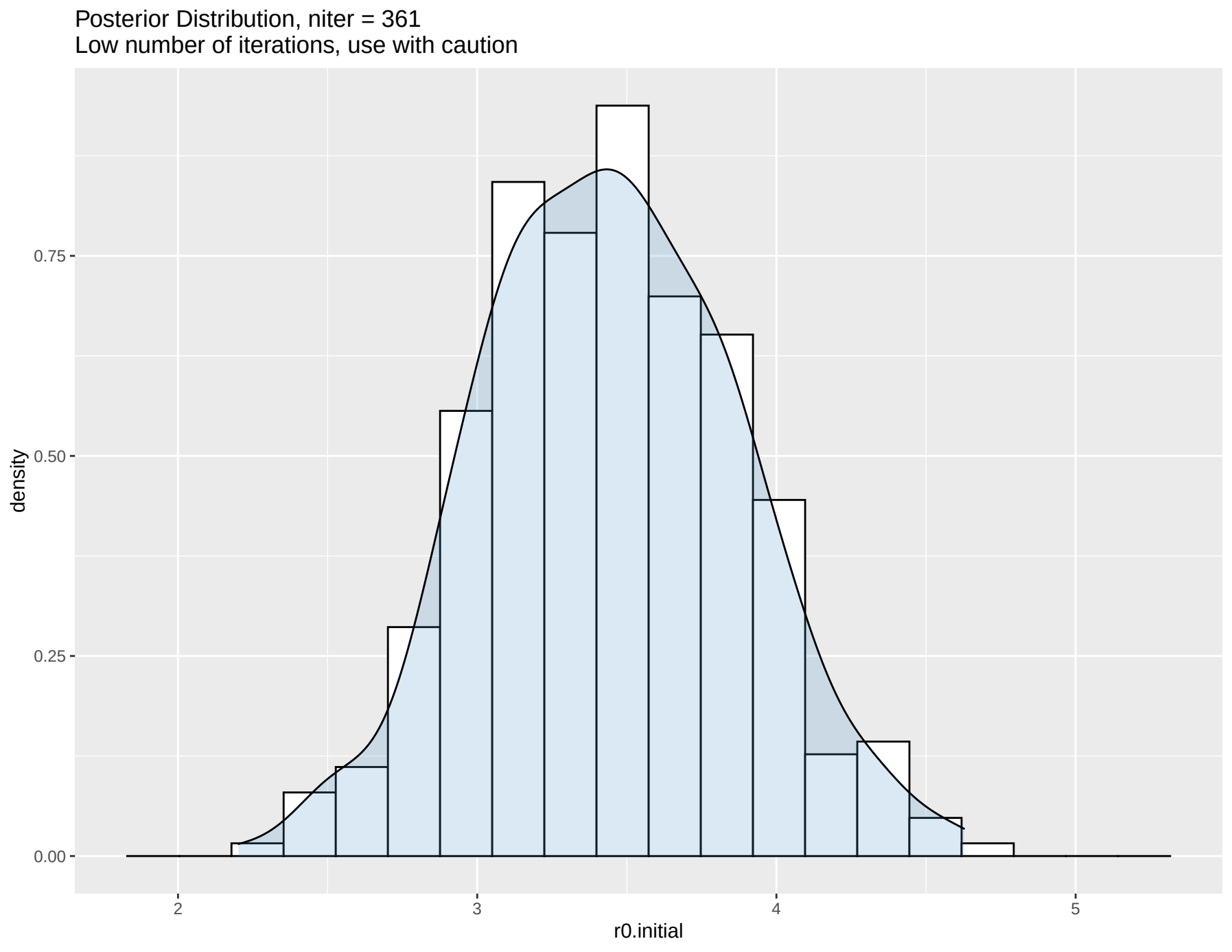

Prior Distribution, niter = 10000
density
0.00
0.25
0.50
0.75
0
1
2
3
current_Re

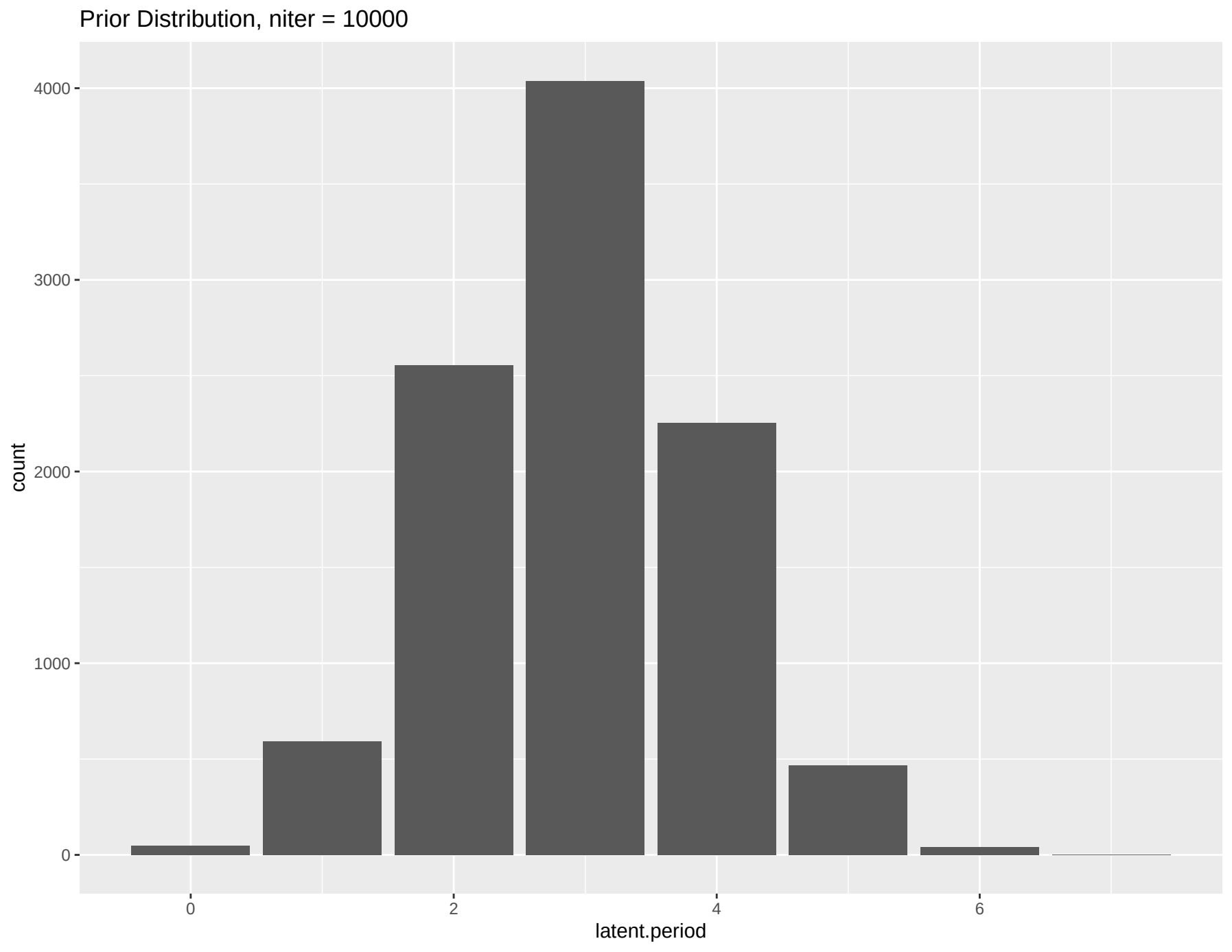

Posterior Distribution, niter = 361
Low number of iterations, use with caution
density
6
4
2
0
0
1
2
3
current_Re

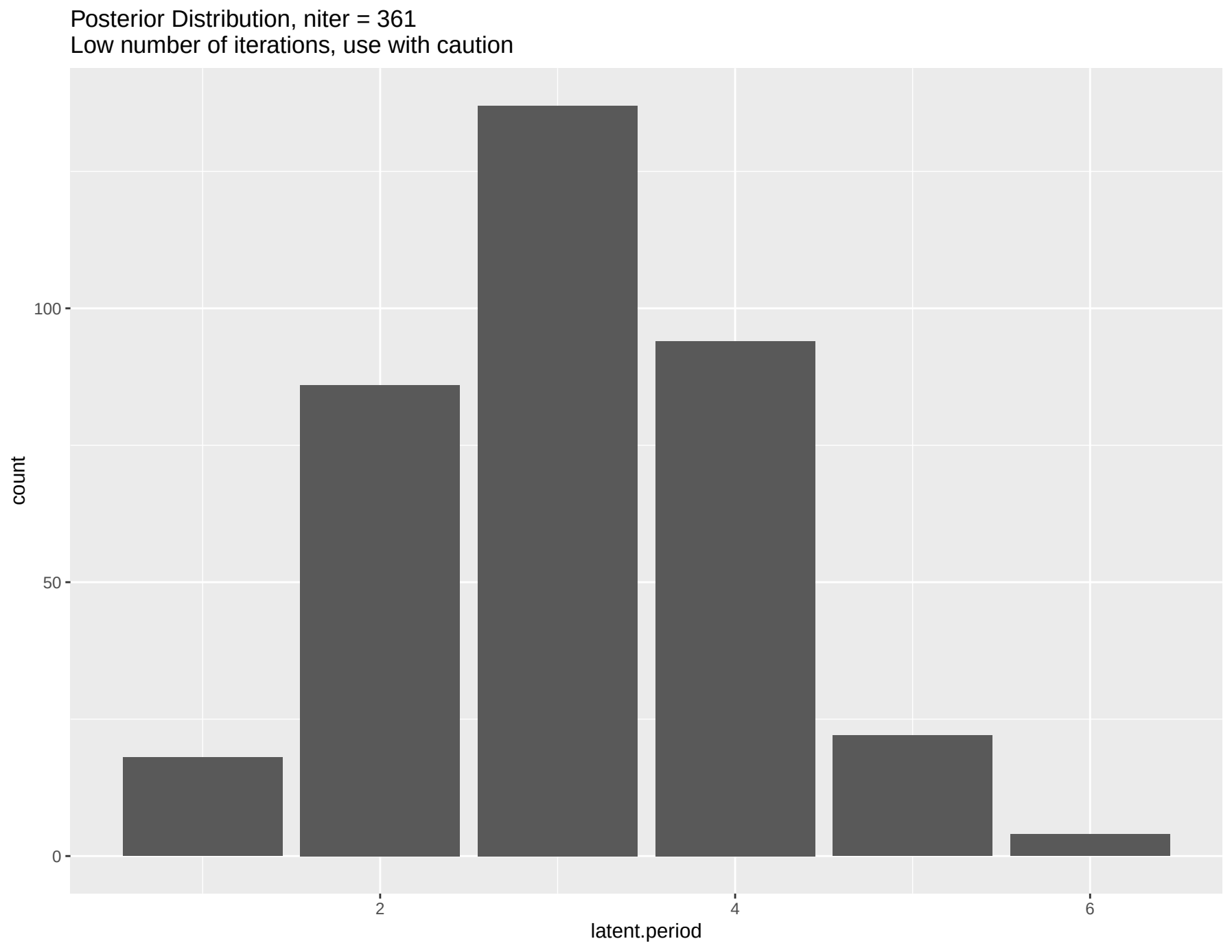

Prior Distribution, niter = 10000
density
0.0
0.2
0.4
0
2
4
6
final_Re

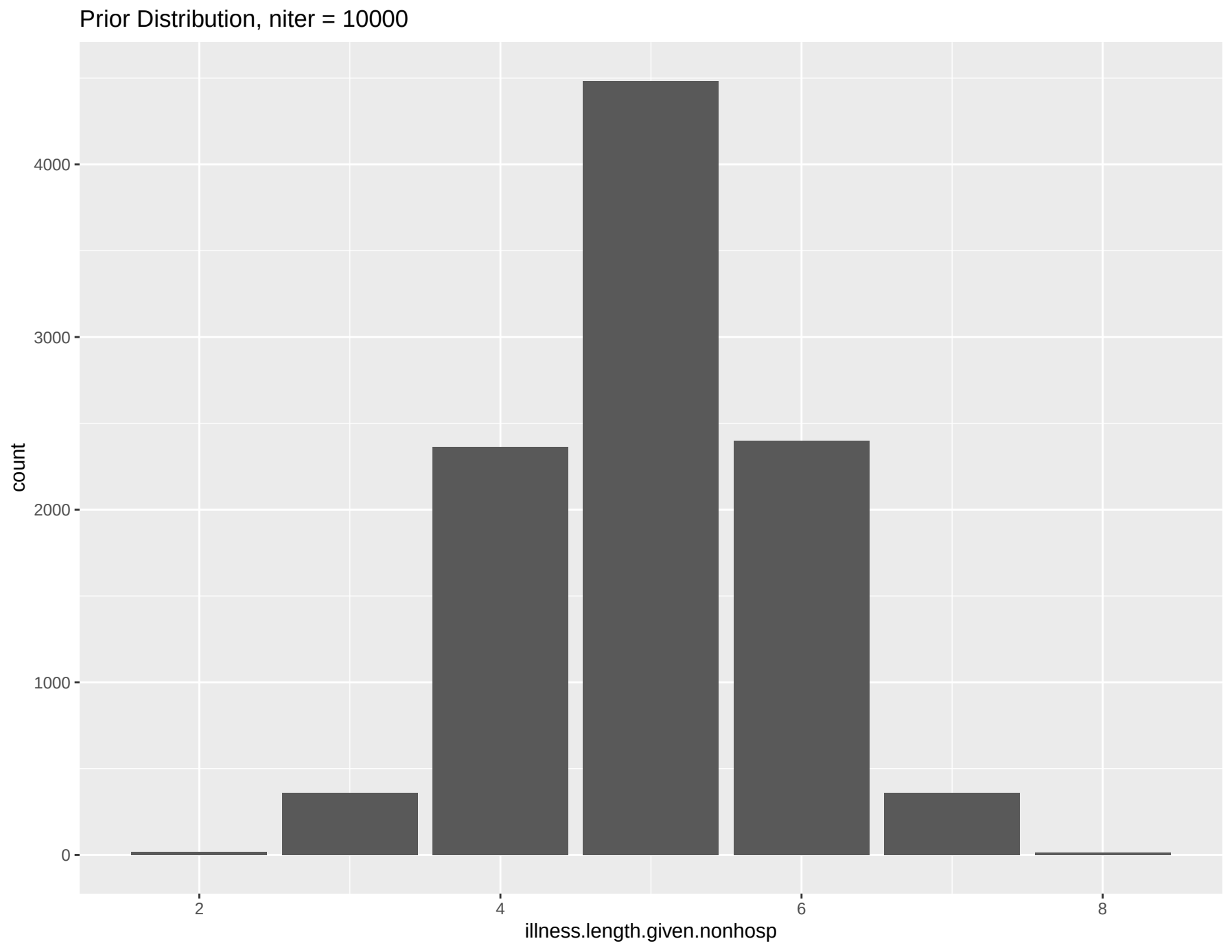

Posterior Distribution, niter = 361
Low number of iterations, use with caution
density
1.5
1.0
0.5
0.0
0
2
4
6
final_Re

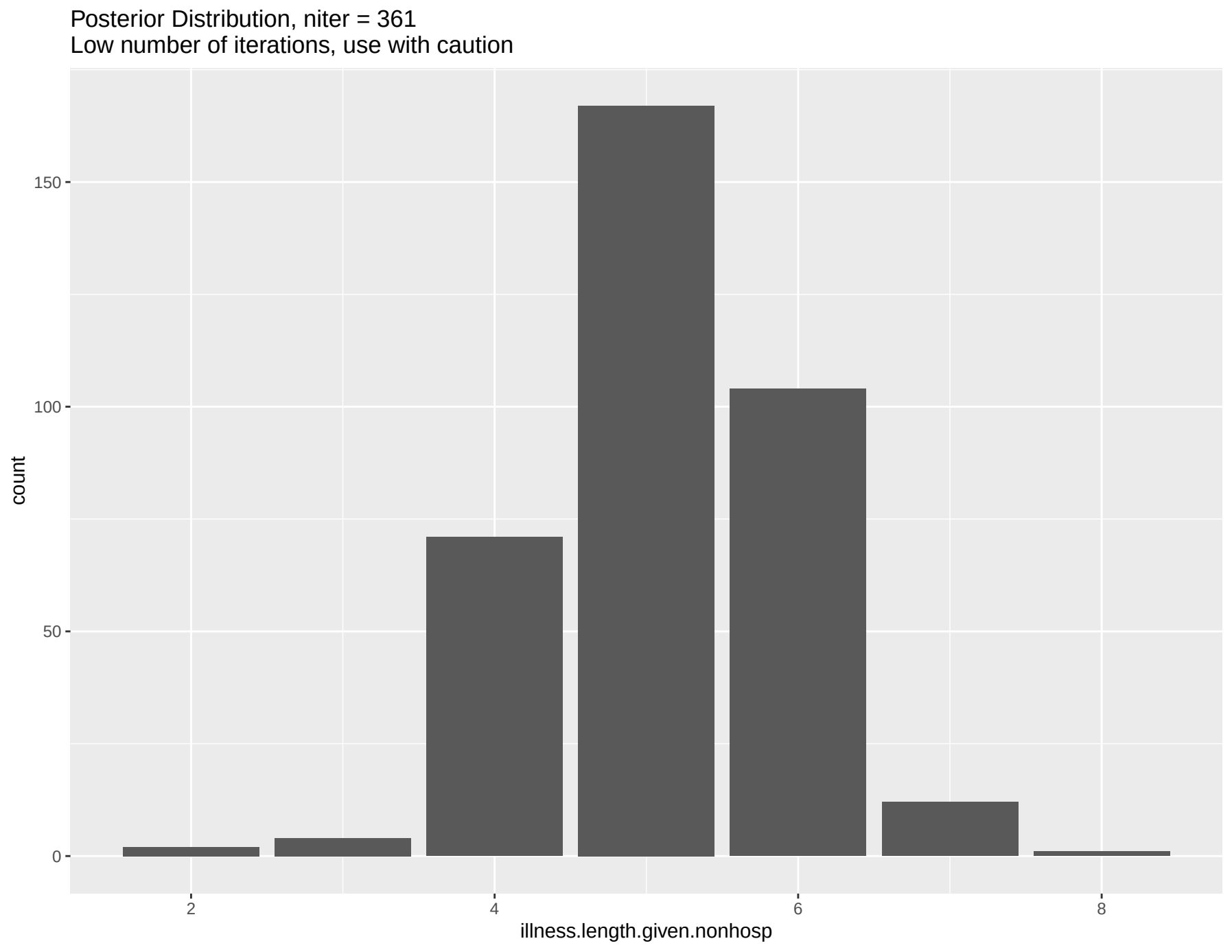

Prior Distribution, niter = 10000
1.00
0.75
0.50
0.25
0.00
density
2
3
4
5
r0.initial

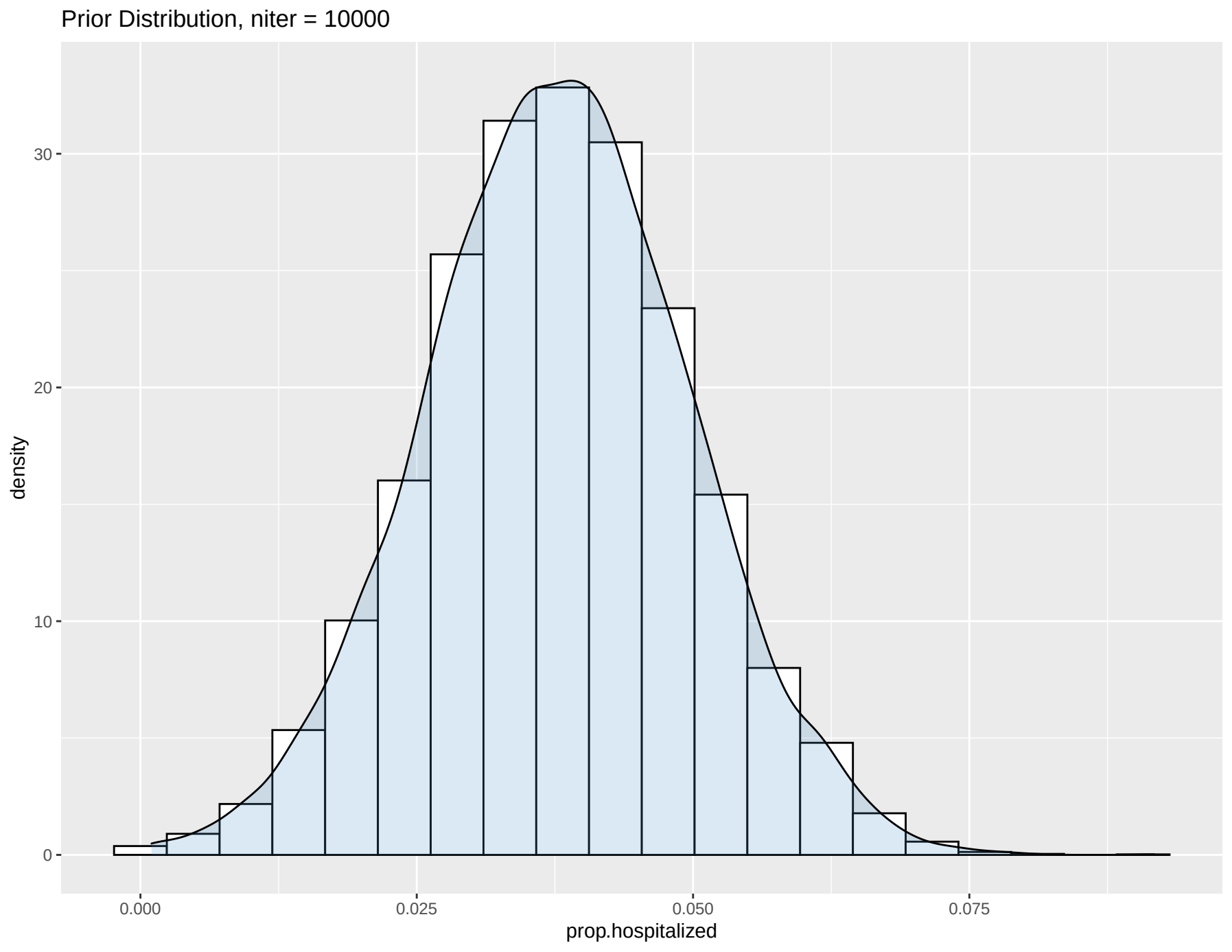

Posterior Distribution, niter = 361
Low number of iterations, use with caution
density
0.00
0.25
0.50
0.75
2
3
4
5
r0.initial

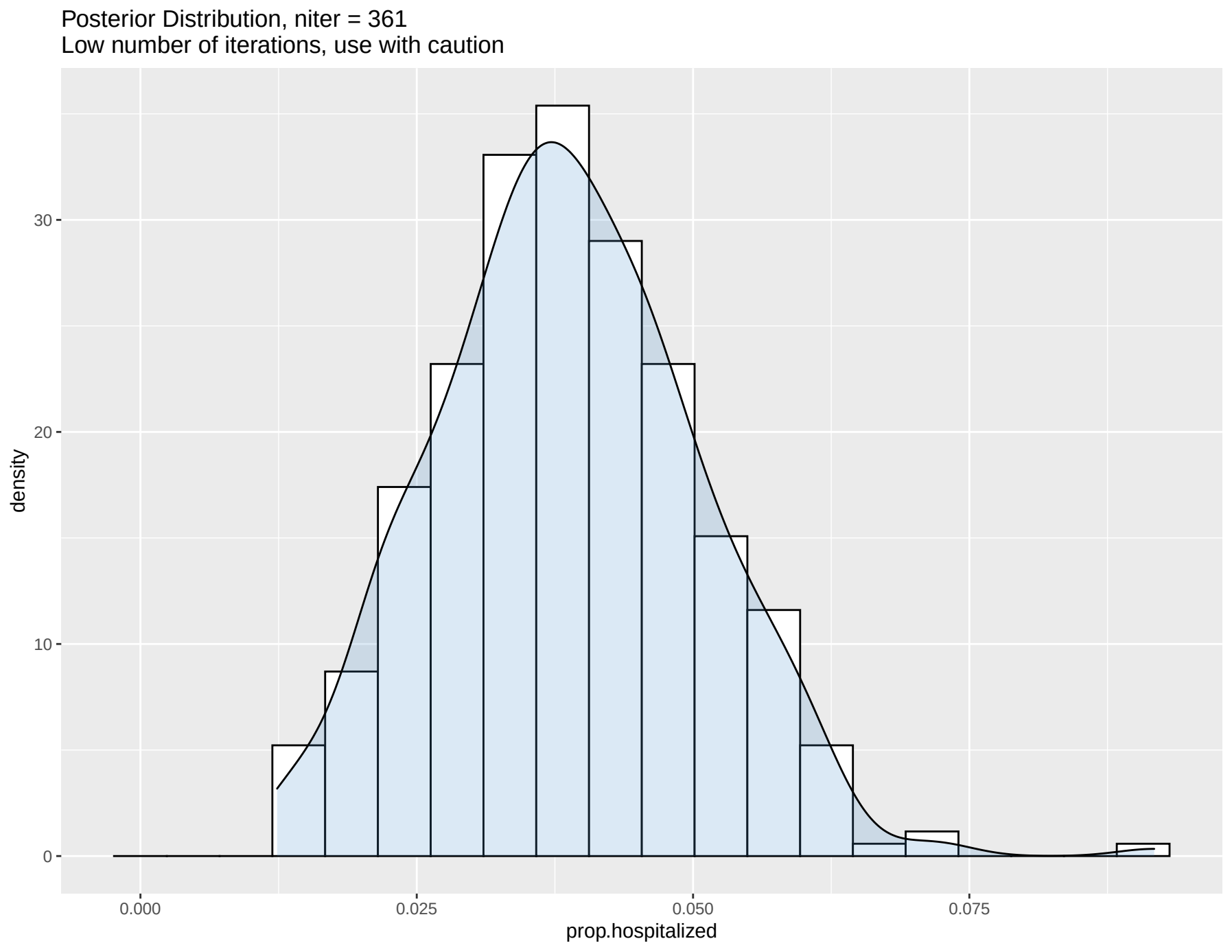

Prior Distribution, niter = 10000
count
4000
3000
2000
1000
0
0
2
4
6
latent.period

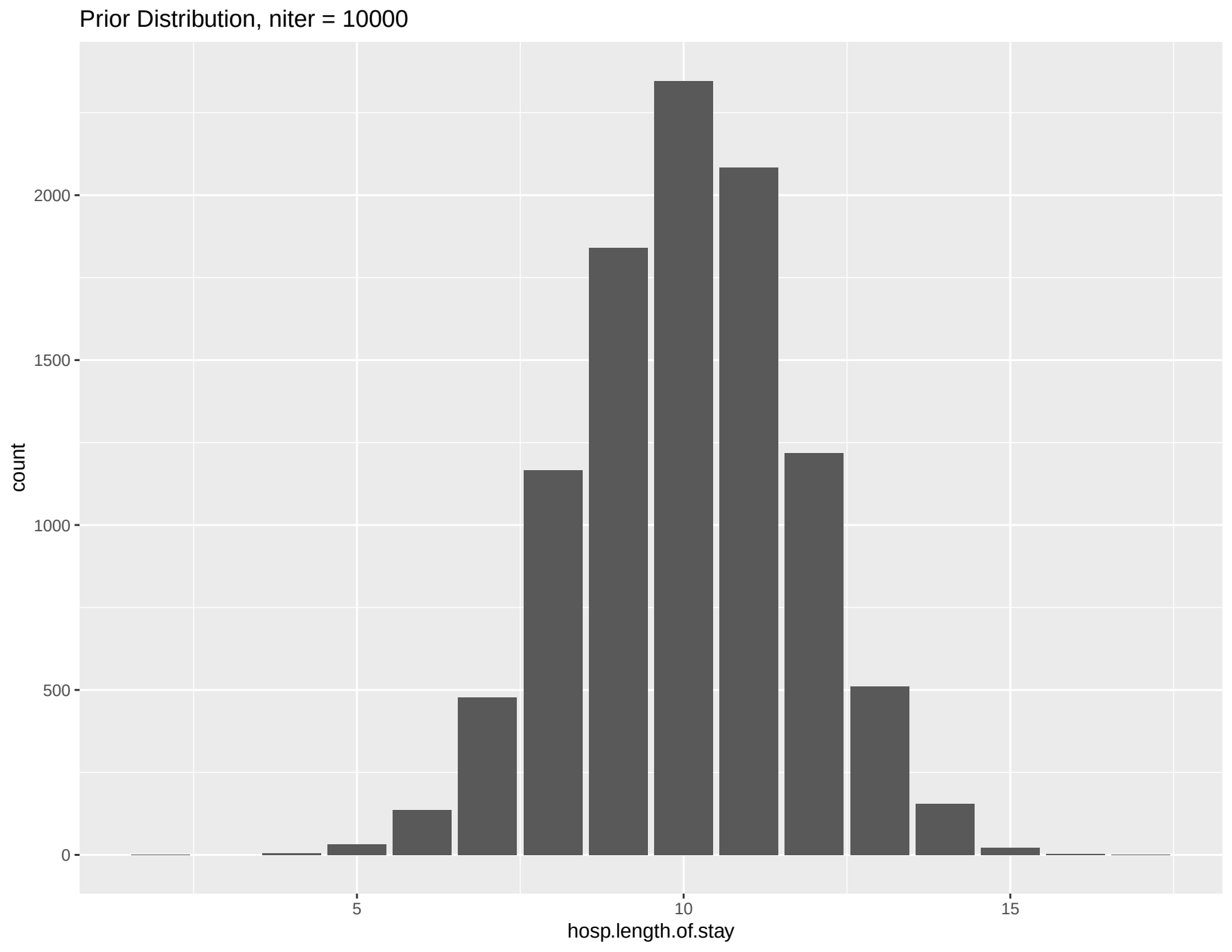

Posterior Distribution, niter = 361
Low number of iterations, use with caution
count
100
50
0
2
4
6
latent.period

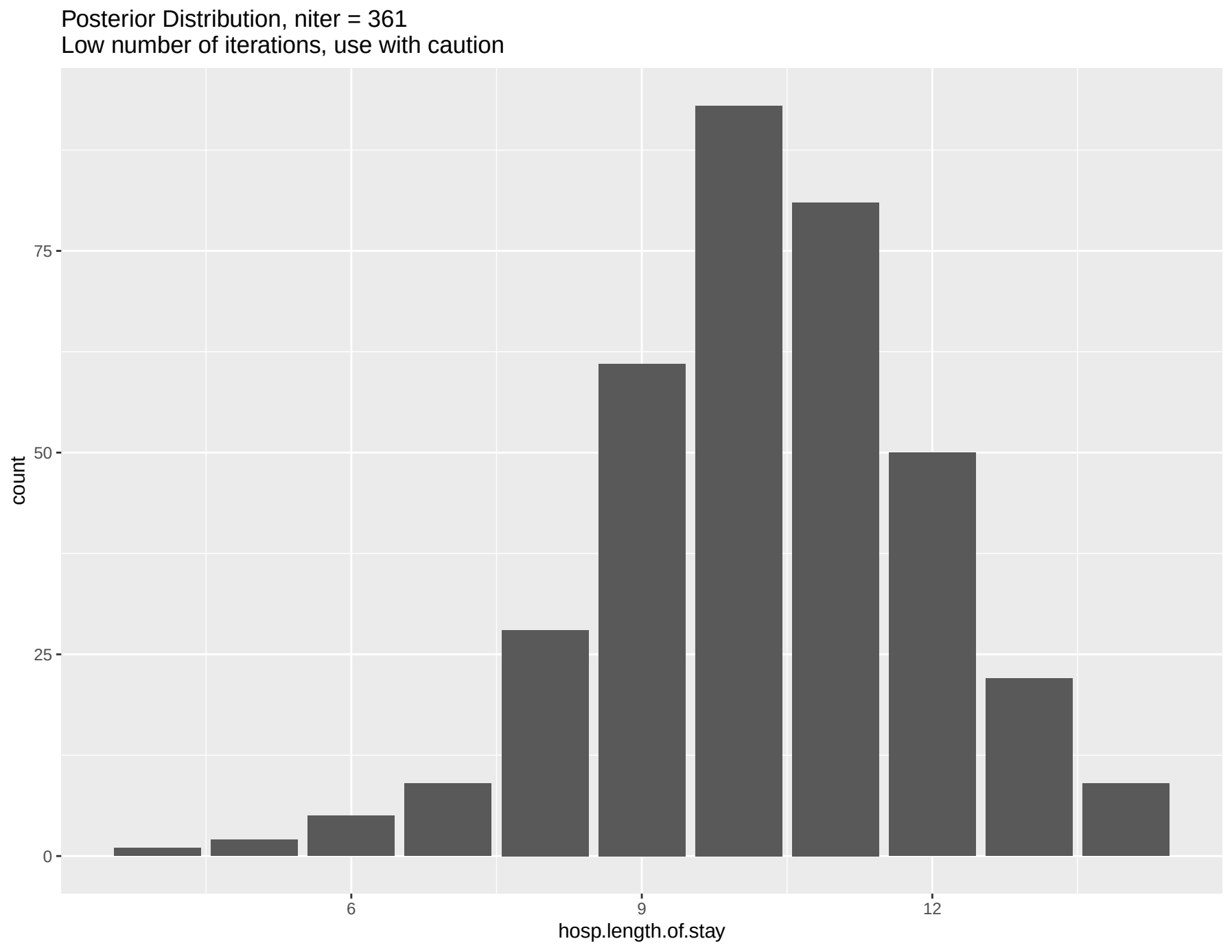

Prior Distribution, niter = 10000
count
4000
3000
2000
1000
0
2
4
6
8
illness.length.given.nonhosp

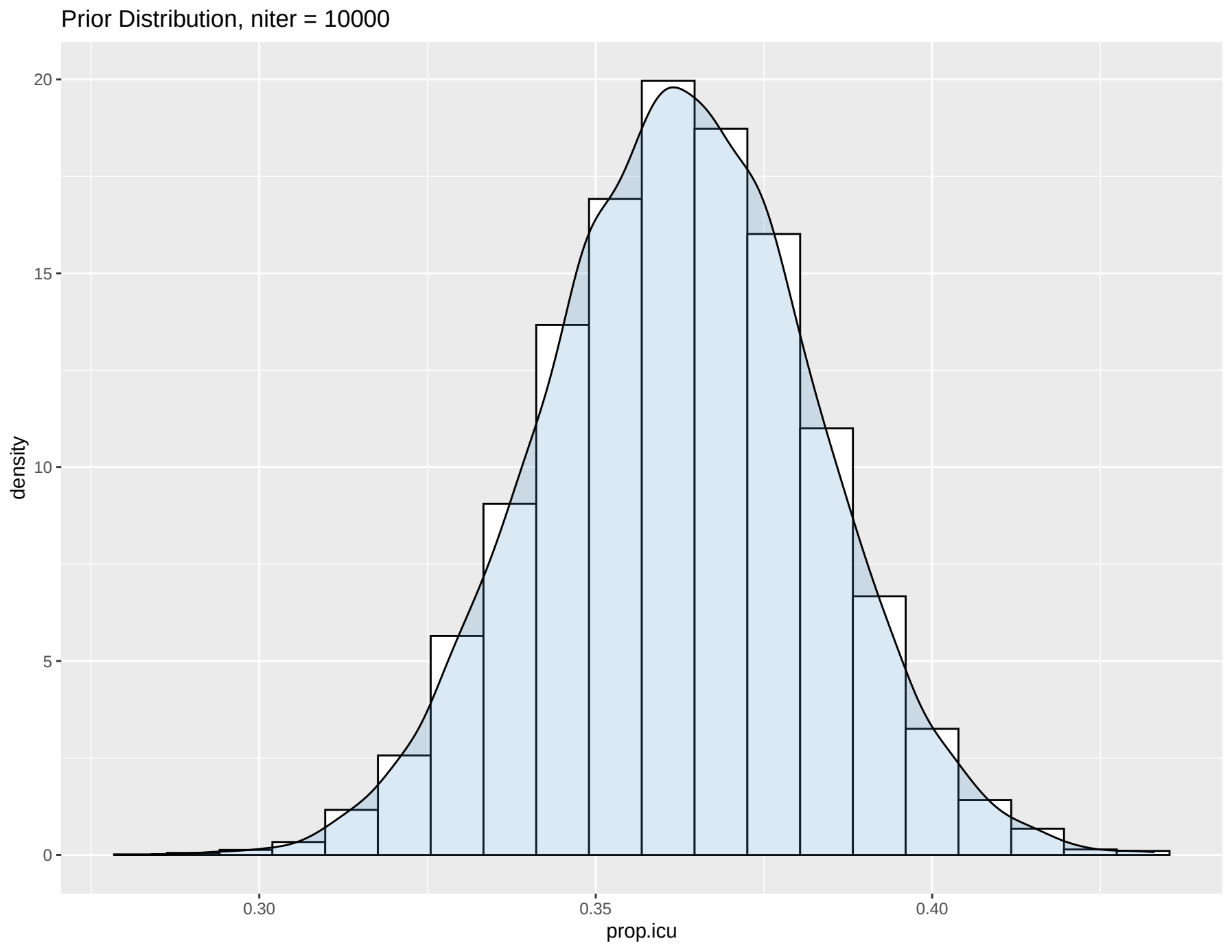

Posterior Distribution, niter = 361
Low number of iterations, use with caution
count
150
100
50
0
2
4
6
8
illness.length.given.nonhosp

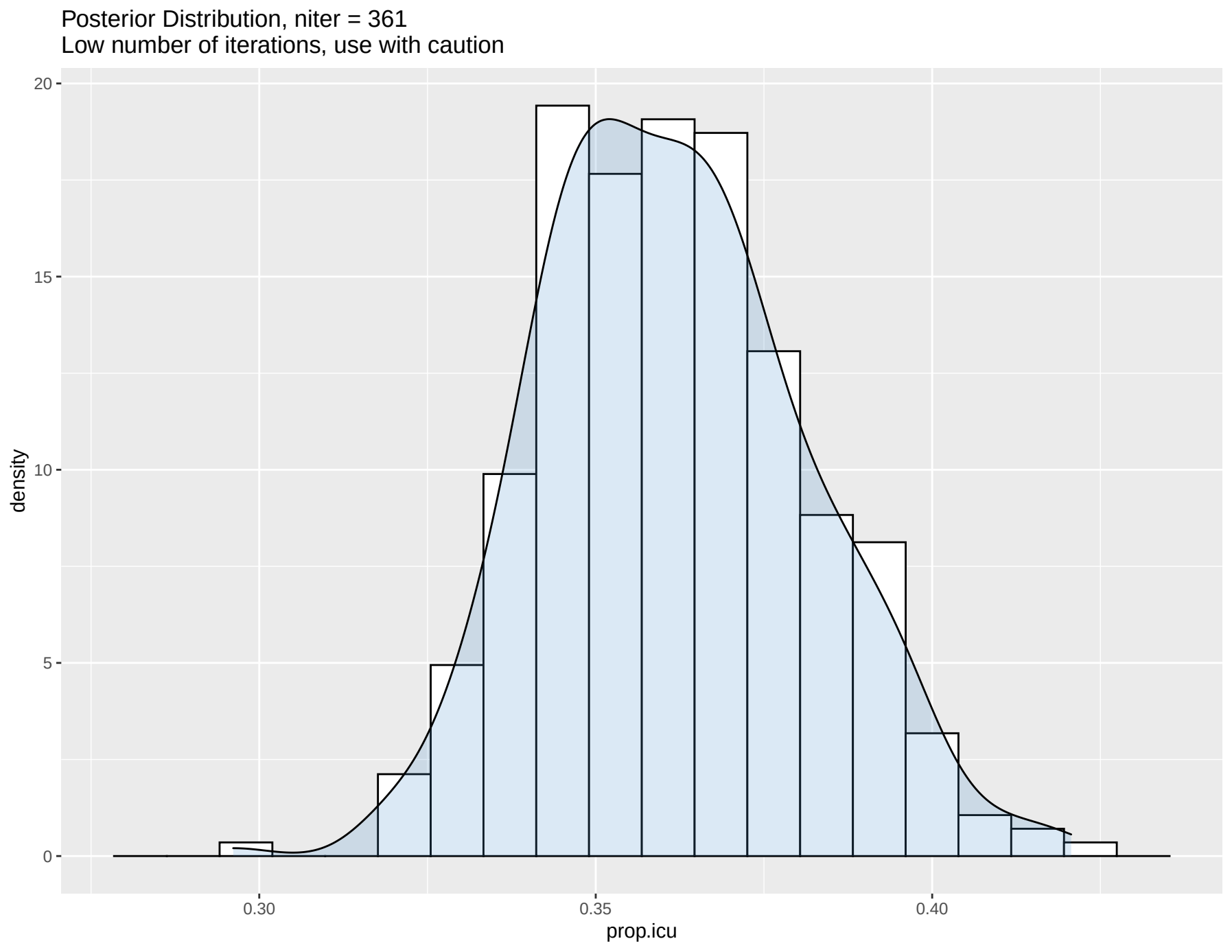

Prior Distribution, niter = 10000
density
30
20
10
0
0.000
0.025
0.050
0.075
prop.hospitalized

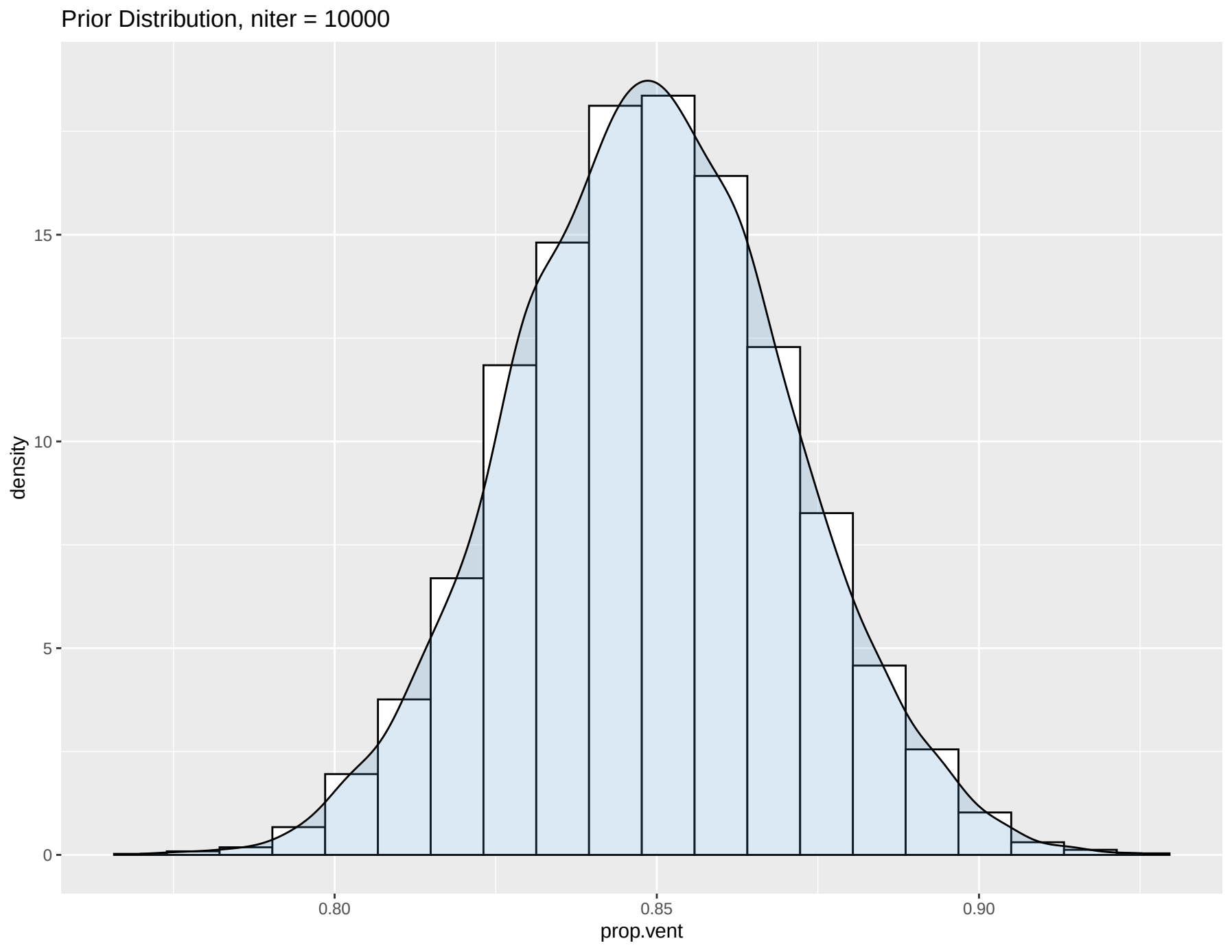

Posterior Distribution, niter = 361
Low number of iterations, use with caution
density
30
20
10
0
0.000
0.025
0.050
0.075
prop.hospitalized

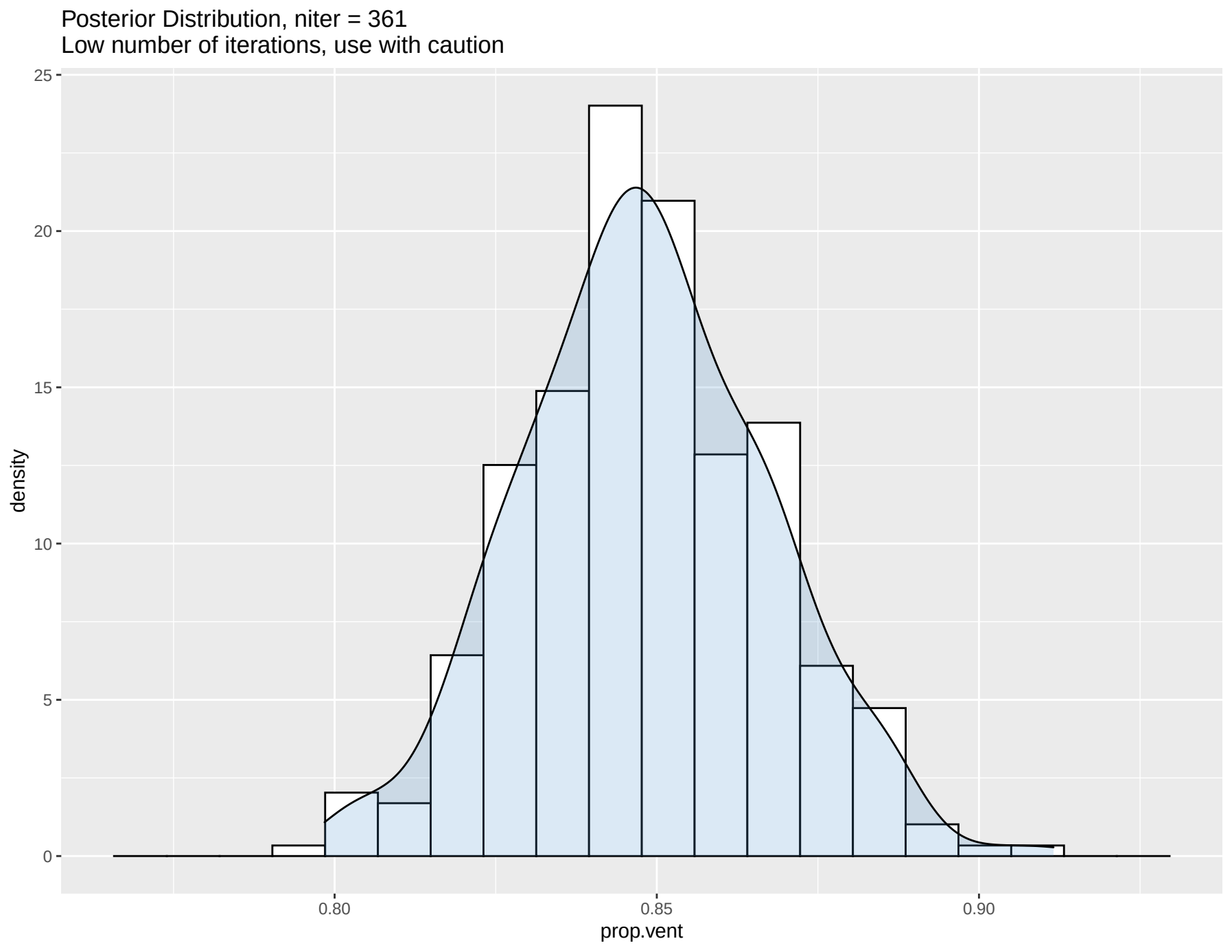

Prior Distribution, niter = 10000
count
2000
1500
1000
500
0
5
10
15
hosp.length.of.stay

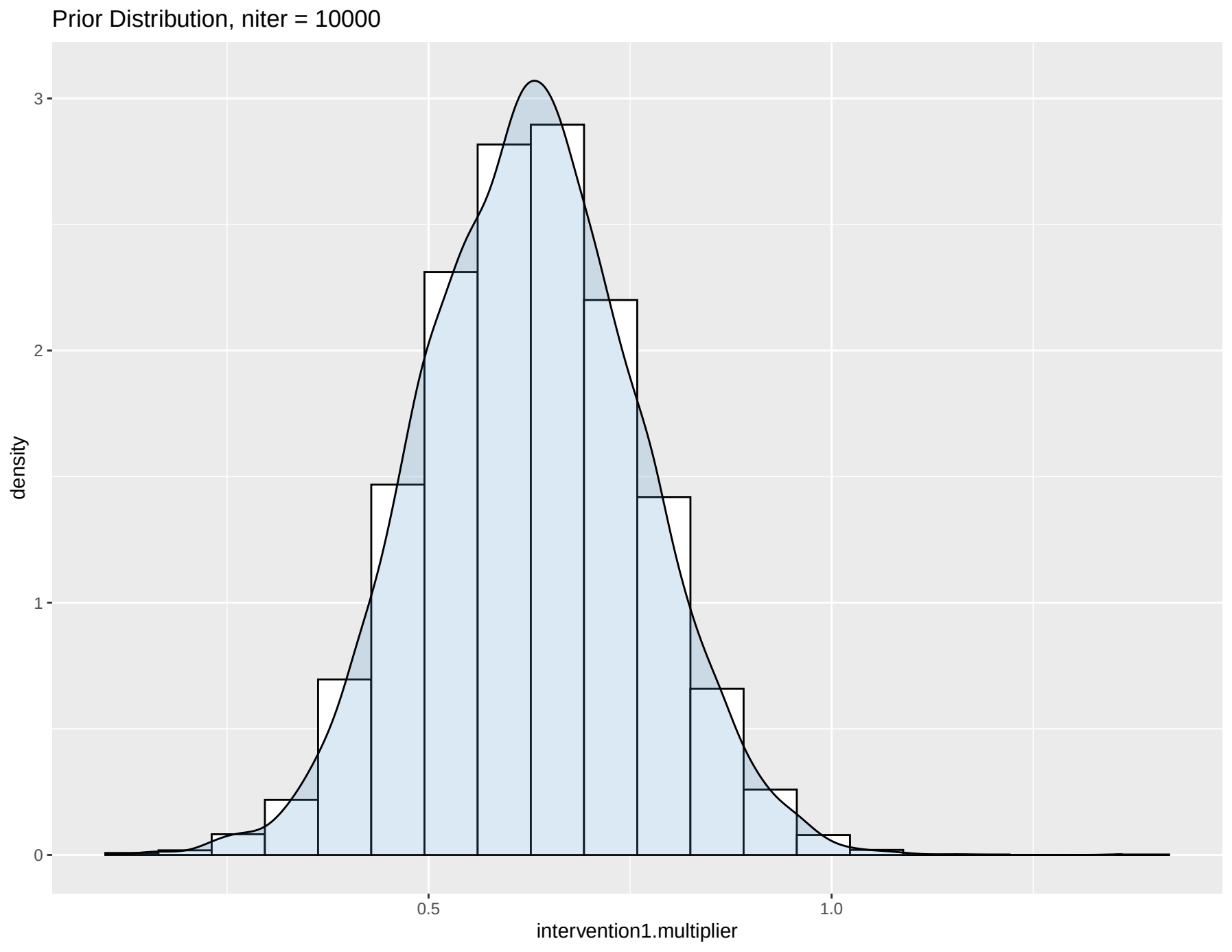

Posterior Distribution, niter = 361
Low number of iterations, use with caution
count
75
50
25
0
6
9
12
hosp.length.of.stay

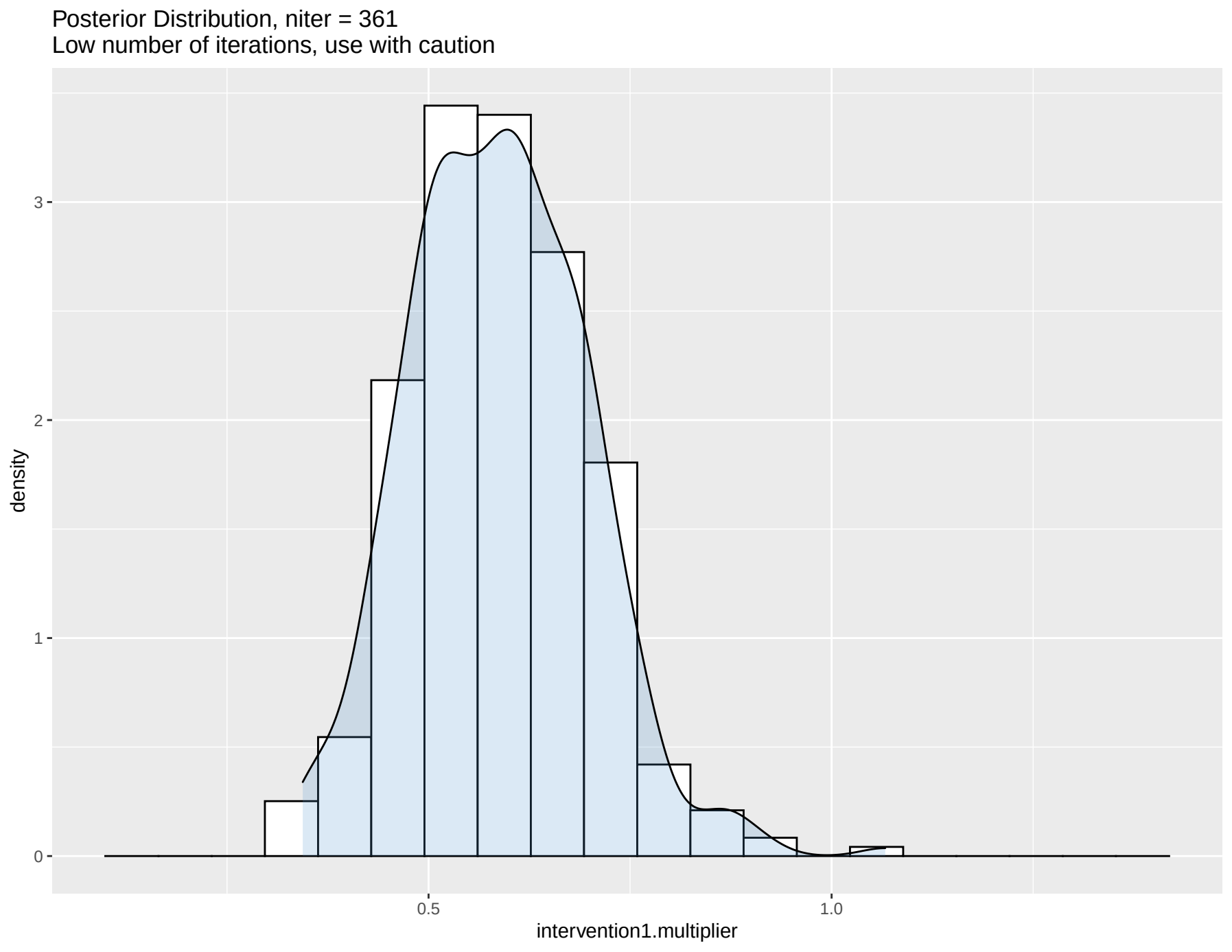

Prior Distribution, niter = 10000
density
20
15
10
5
0
0.30
0.35
0.40
prop.icu

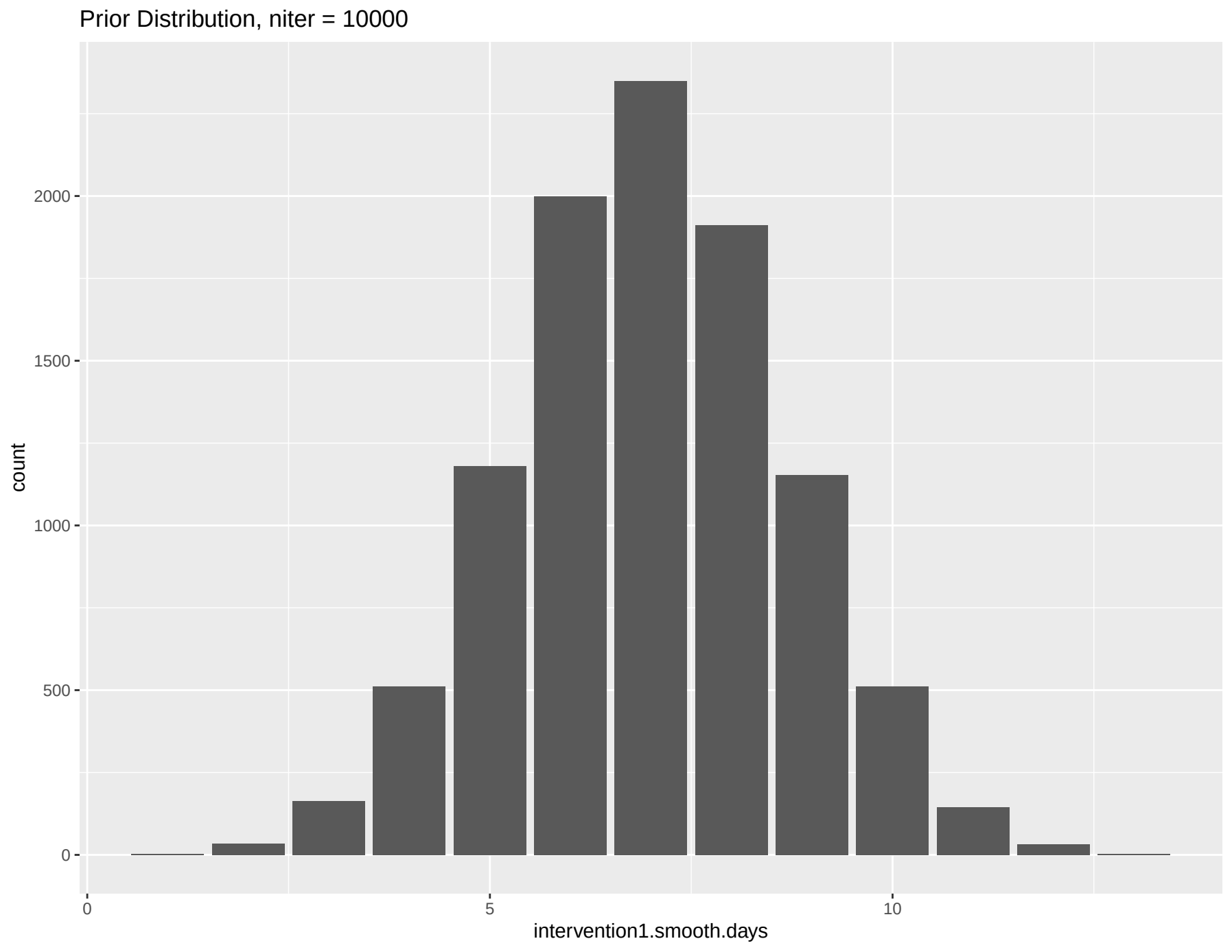

Posterior Distribution, niter = 361
Low number of iterations, use with caution
density
20
15
10
5
0
0.30
0.35
0.40
prop.icu

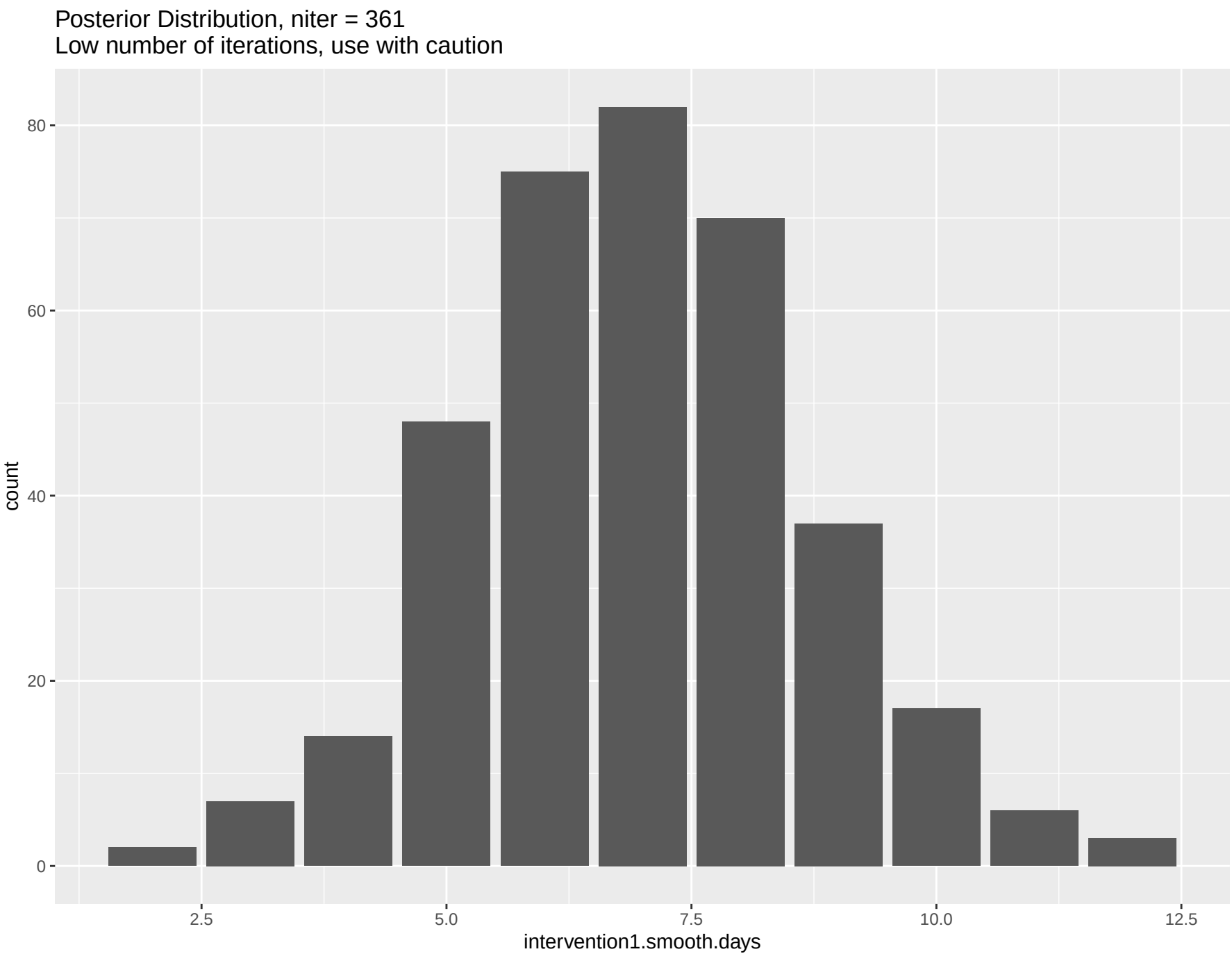

Prior Distribution, niter = 10000
density
15
10
5
0
0.80
0.85
0.90
prop.vent

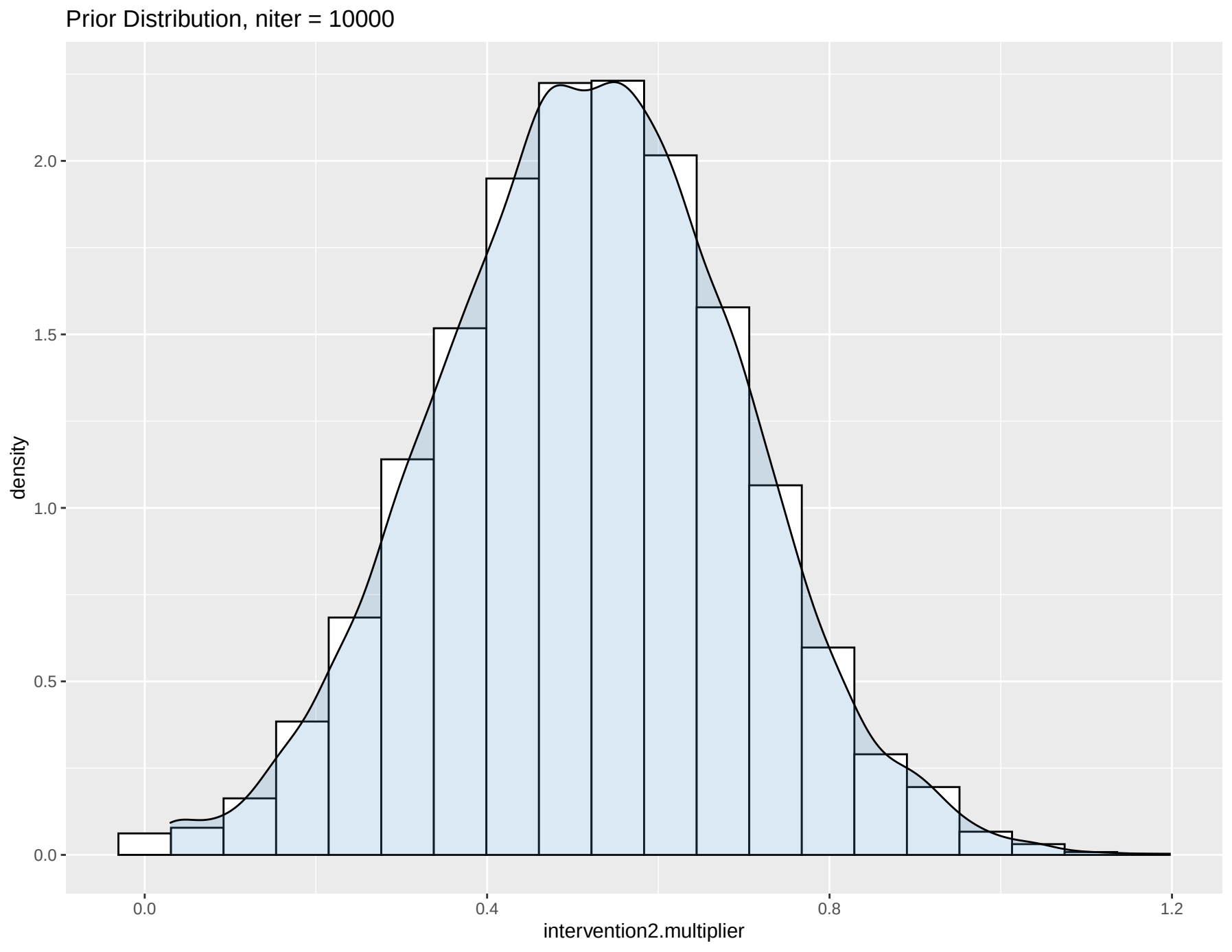

Posterior Distribution, niter = 361
Low number of iterations, use with caution
density
prop.vent
25
20
15
10
5
0
0.80
0.85
0.90

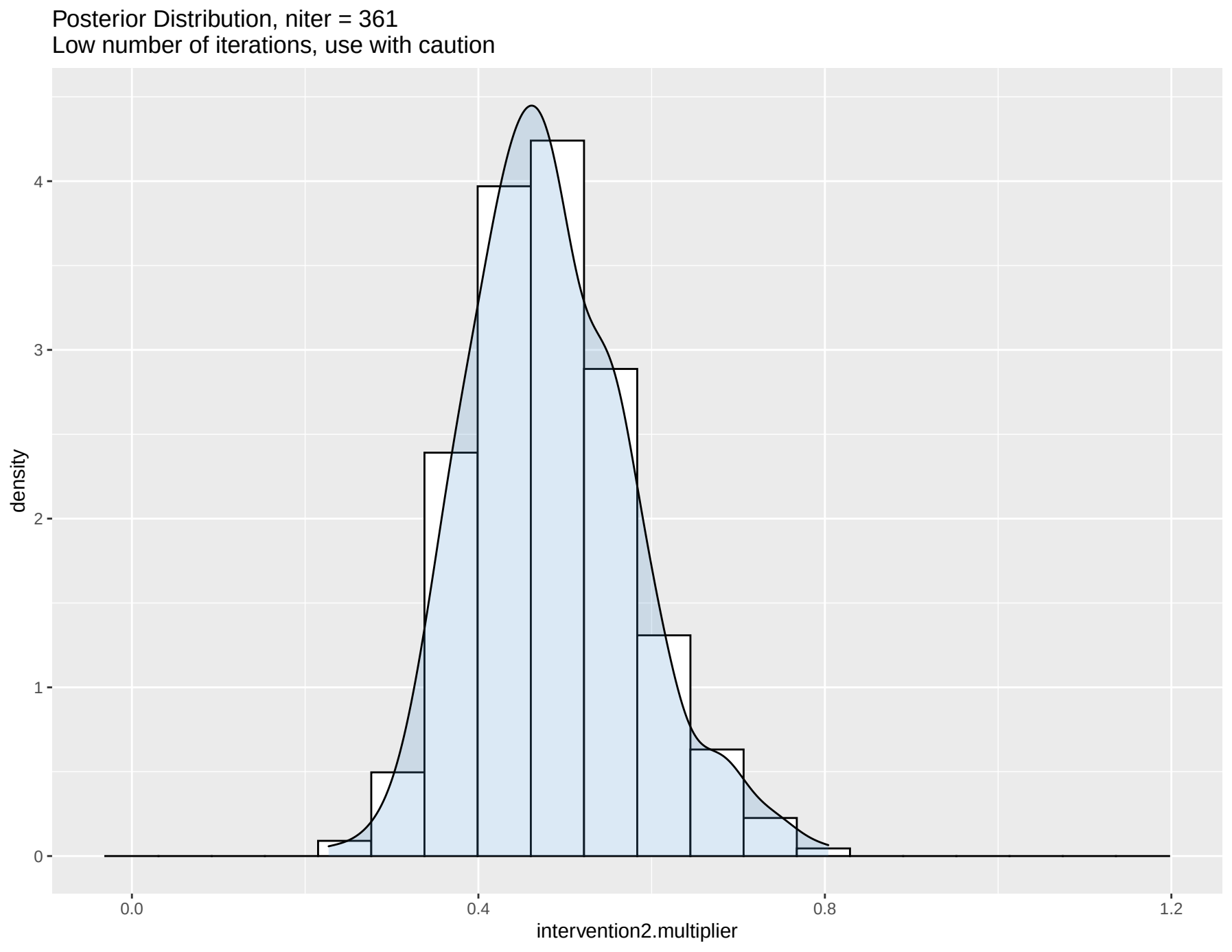

Prior Distribution, niter = 10000
density
3
2
1
0
0.5
1.0
intervention1.multiplier

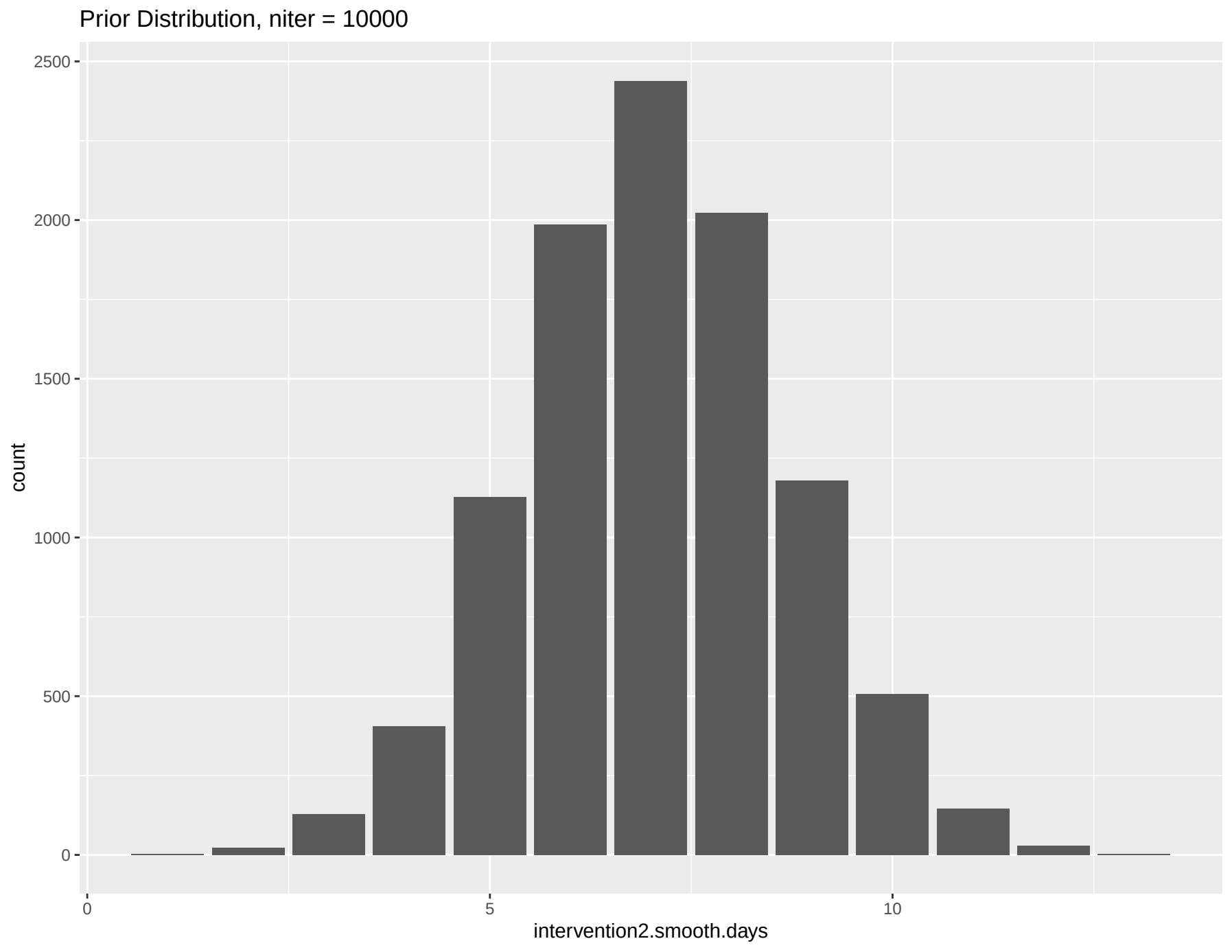

Posterior Distribution, niter = 361
Low number of iterations, use with caution
density
3
2
1
0
0.5
1.0
intervention1.multiplier

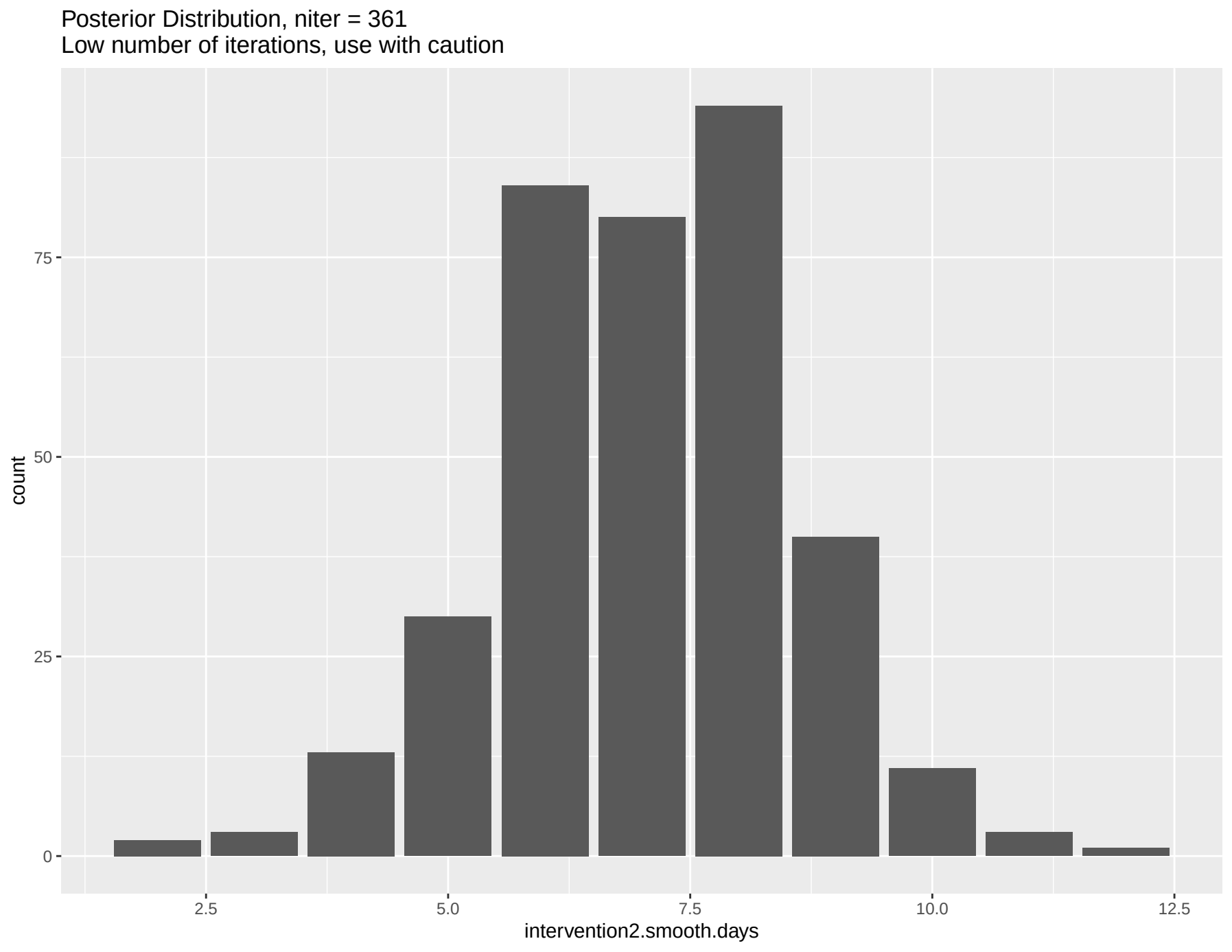

Prior Distribution, niter = 10000
count
2000
1500
1000
500
0
0
5
10
intervention1.smooth.days

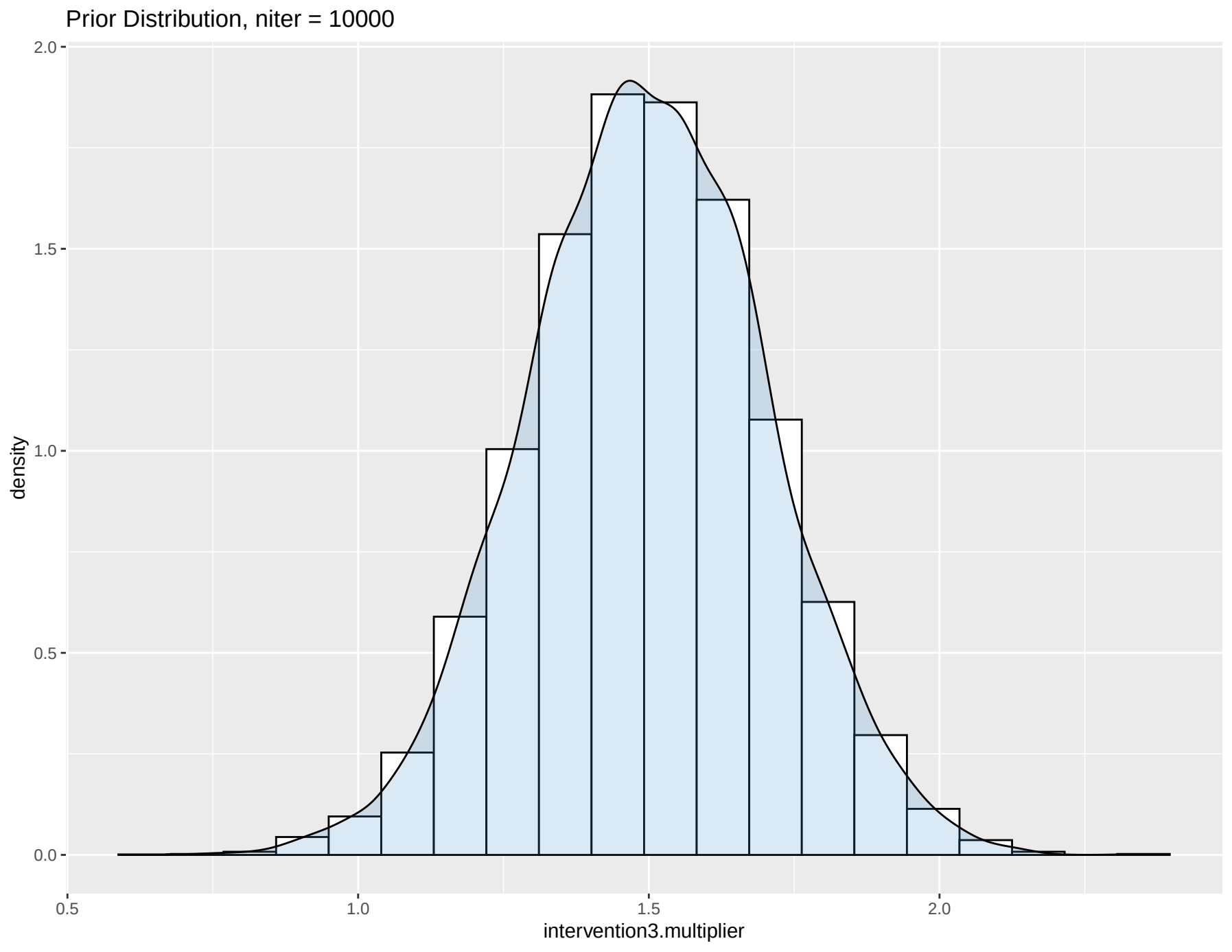

Posterior Distribution, niter = 361
Low number of iterations, use with caution
count
80
60
40
20
0
2.5
5.0
7.5
10.0
12.5
intervention1.smooth.days

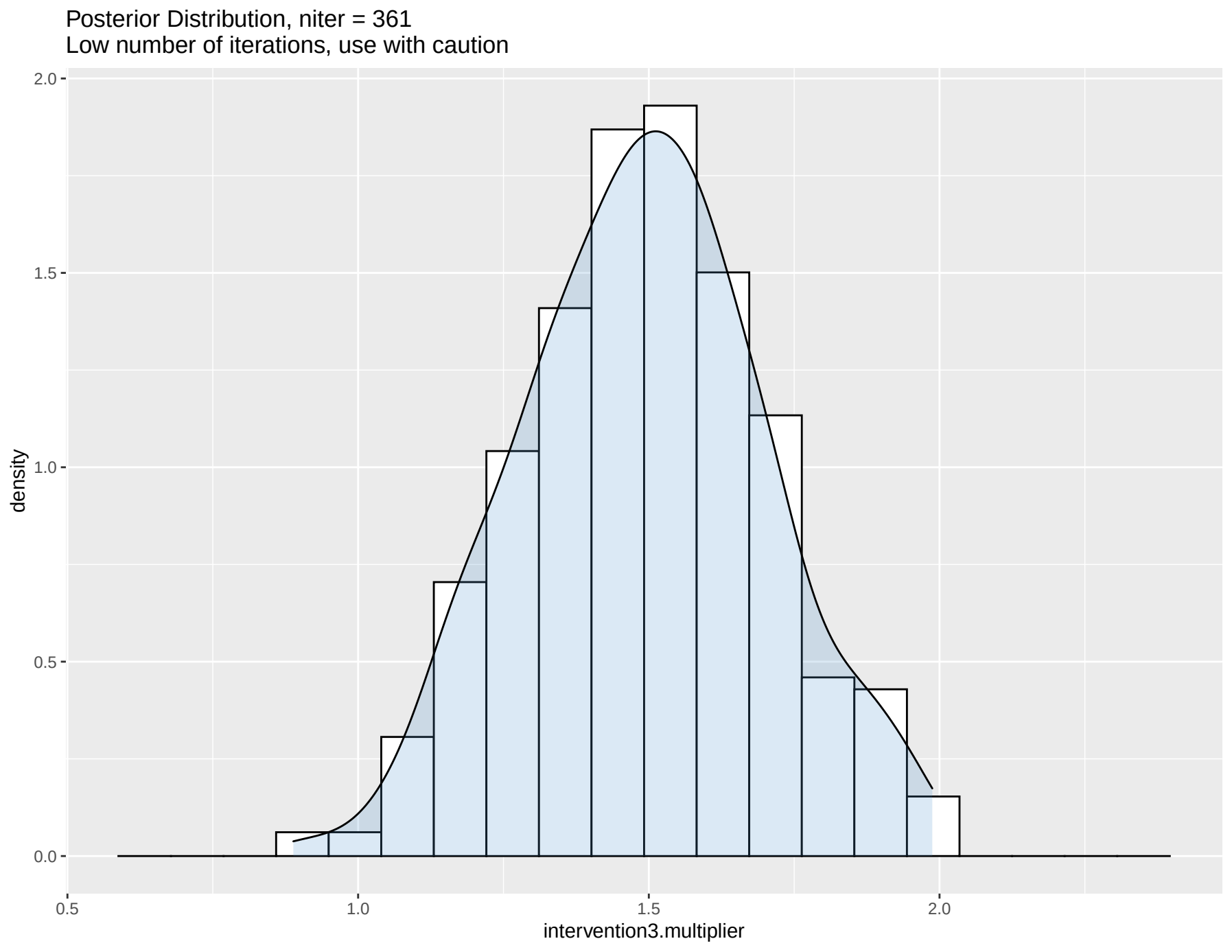

Prior Distribution, niter = 10000
density
2.0
1.5
1.0
0.5
0.0
0.0
0.4
0.8
1.2
intervention2.multiplier

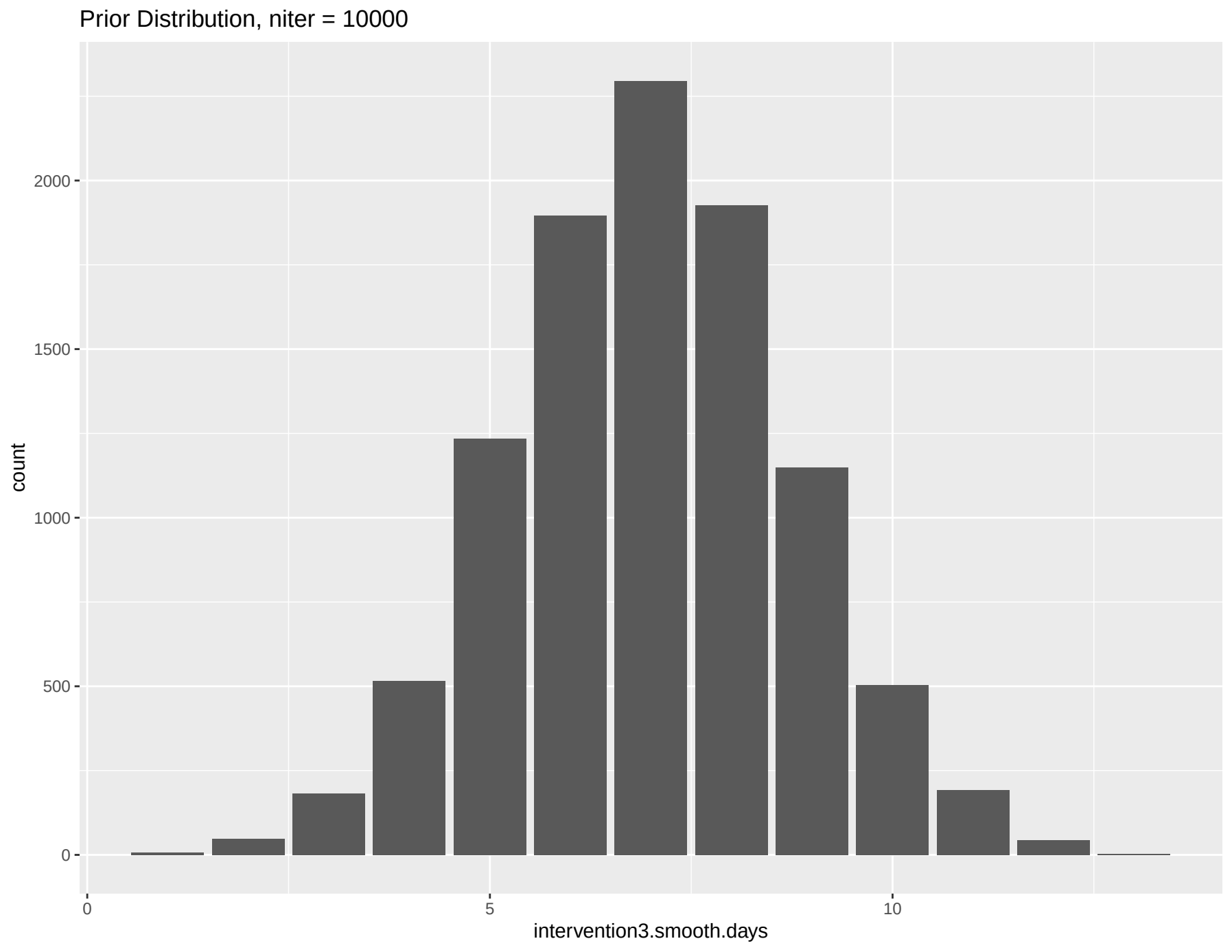

Posterior Distribution, niter = 361
Low number of iterations, use with caution
density
0
1
2
3
4
0.0
0.4
0.8
1.2
intervention2.multiplier

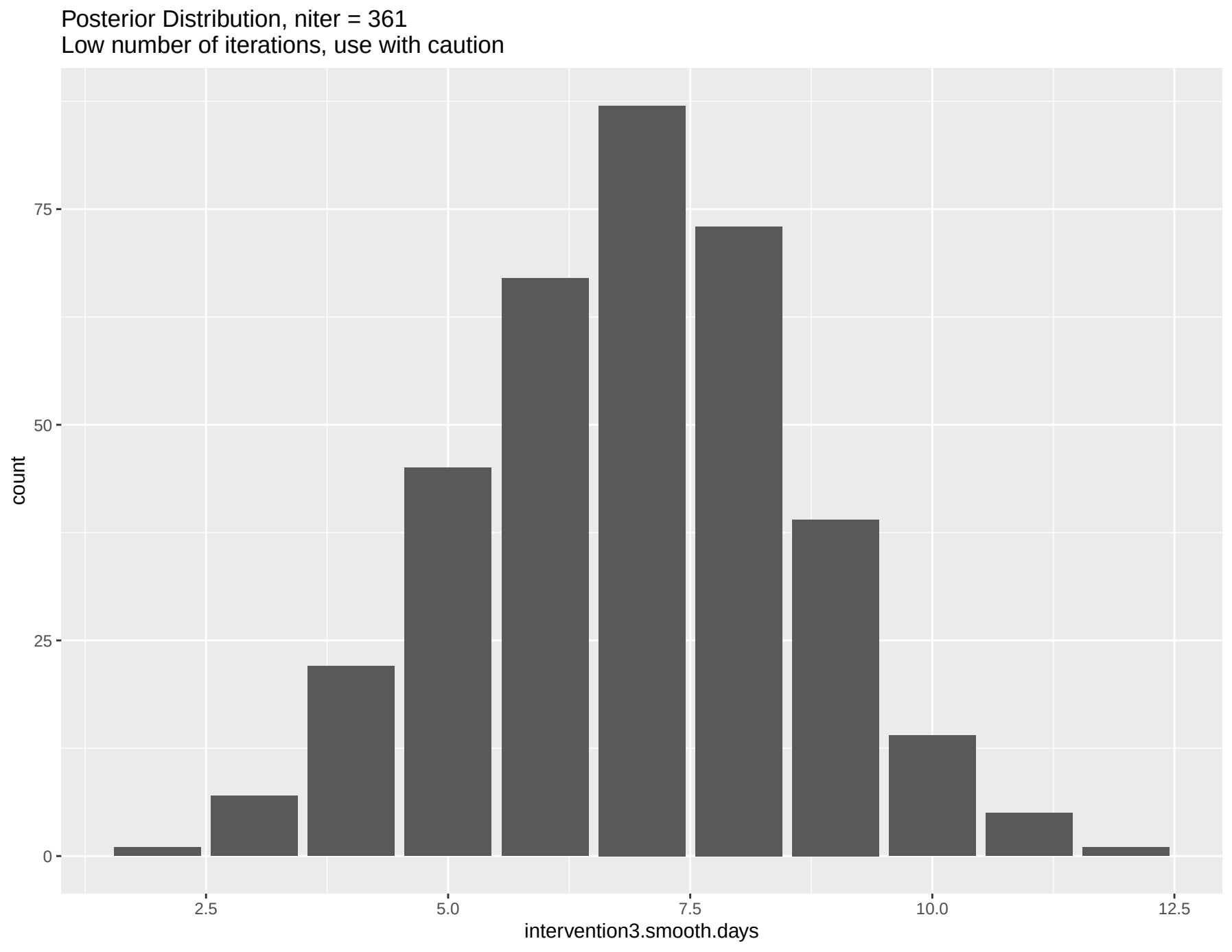

Prior Distribution, niter = 10000
2500
2000
1500
1000
500
0
count
0
5
10
intervention2.smooth.days

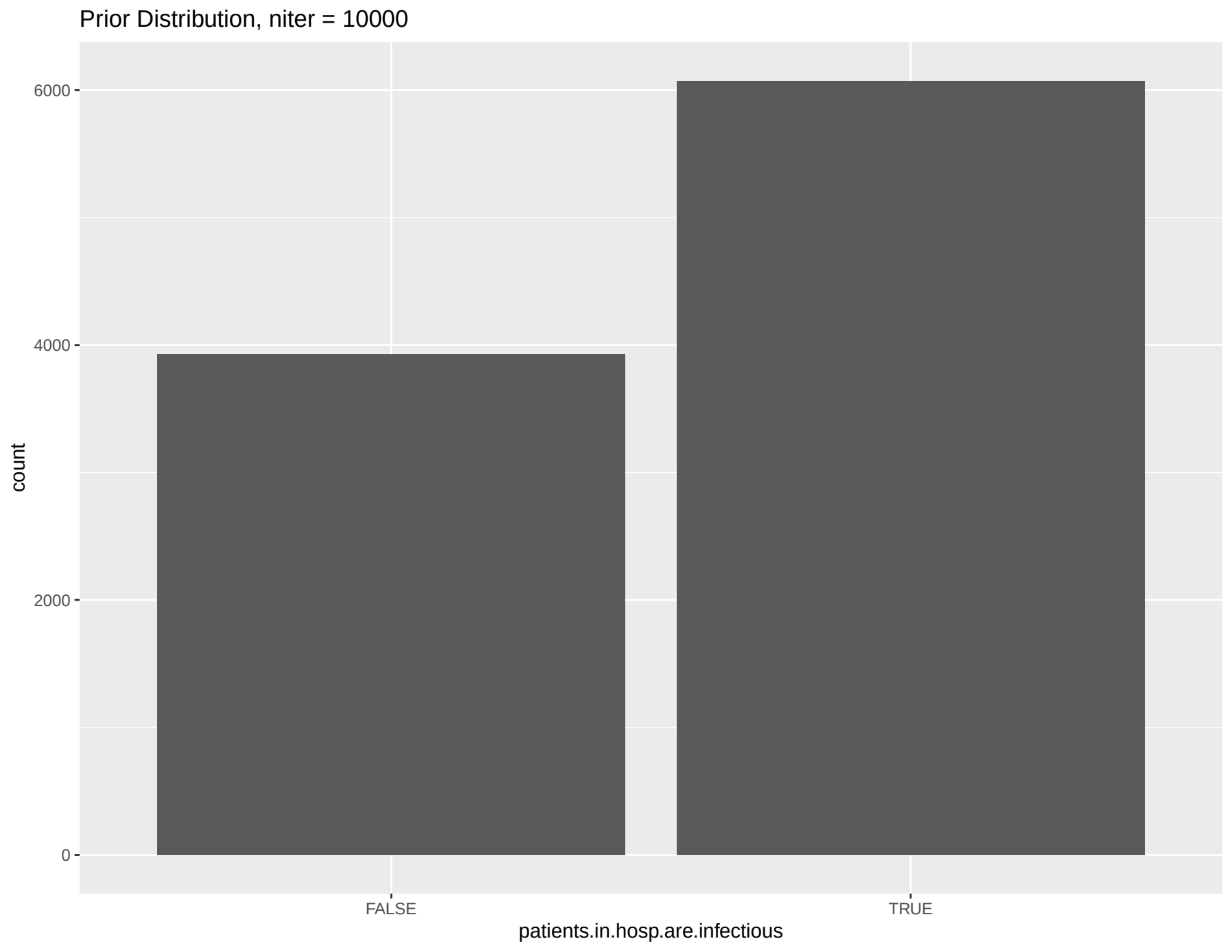

Posterior Distribution, niter = 361
Low number of iterations, use with caution
count
75
50
25
0
2.5
5.0
7.5
10.0
12.5
intervention2.smooth.days

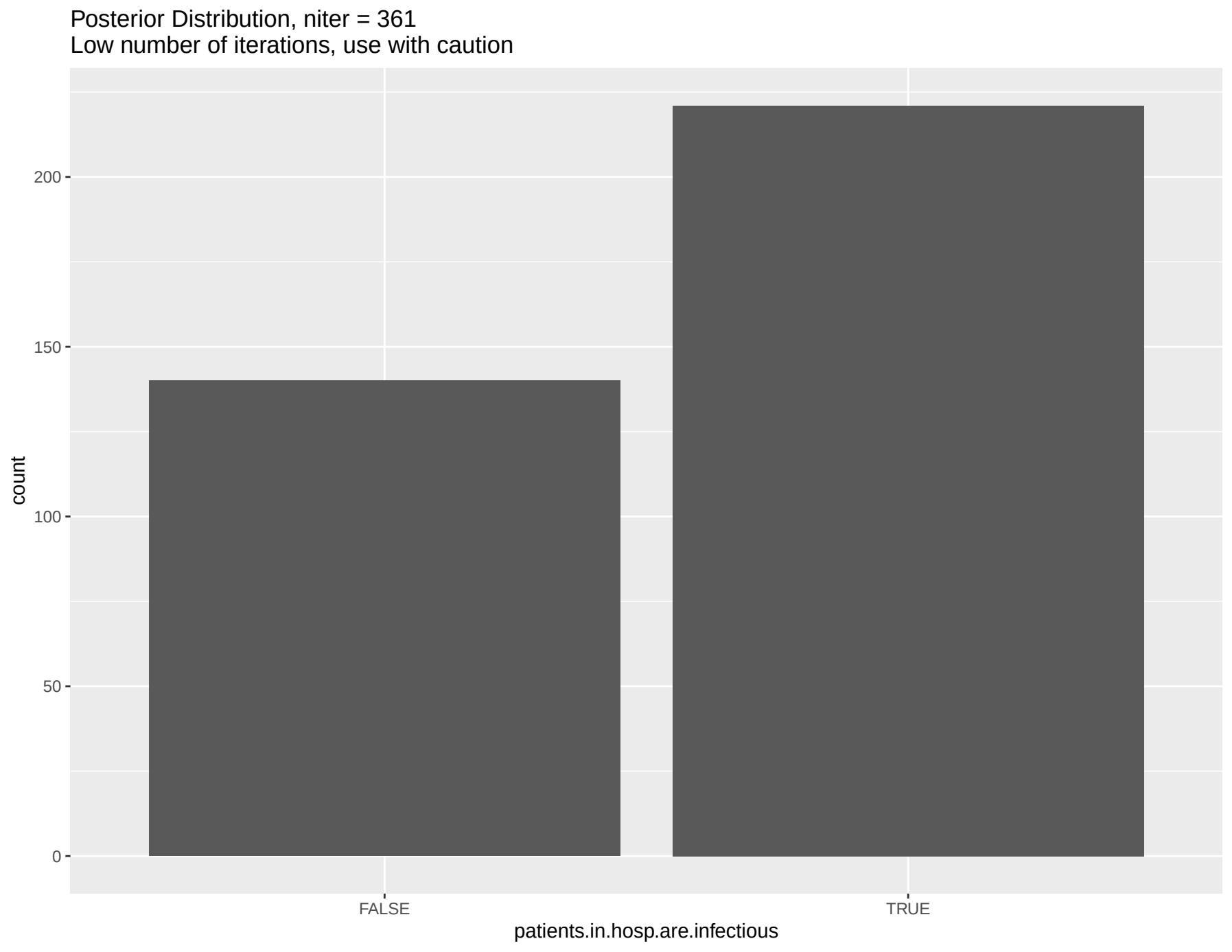

Prior Distribution, niter = 10000
density
2.0
1.5
1.0
0.5
0.0
0.5
1.0
1.5
2.0
intervention3.multiplier

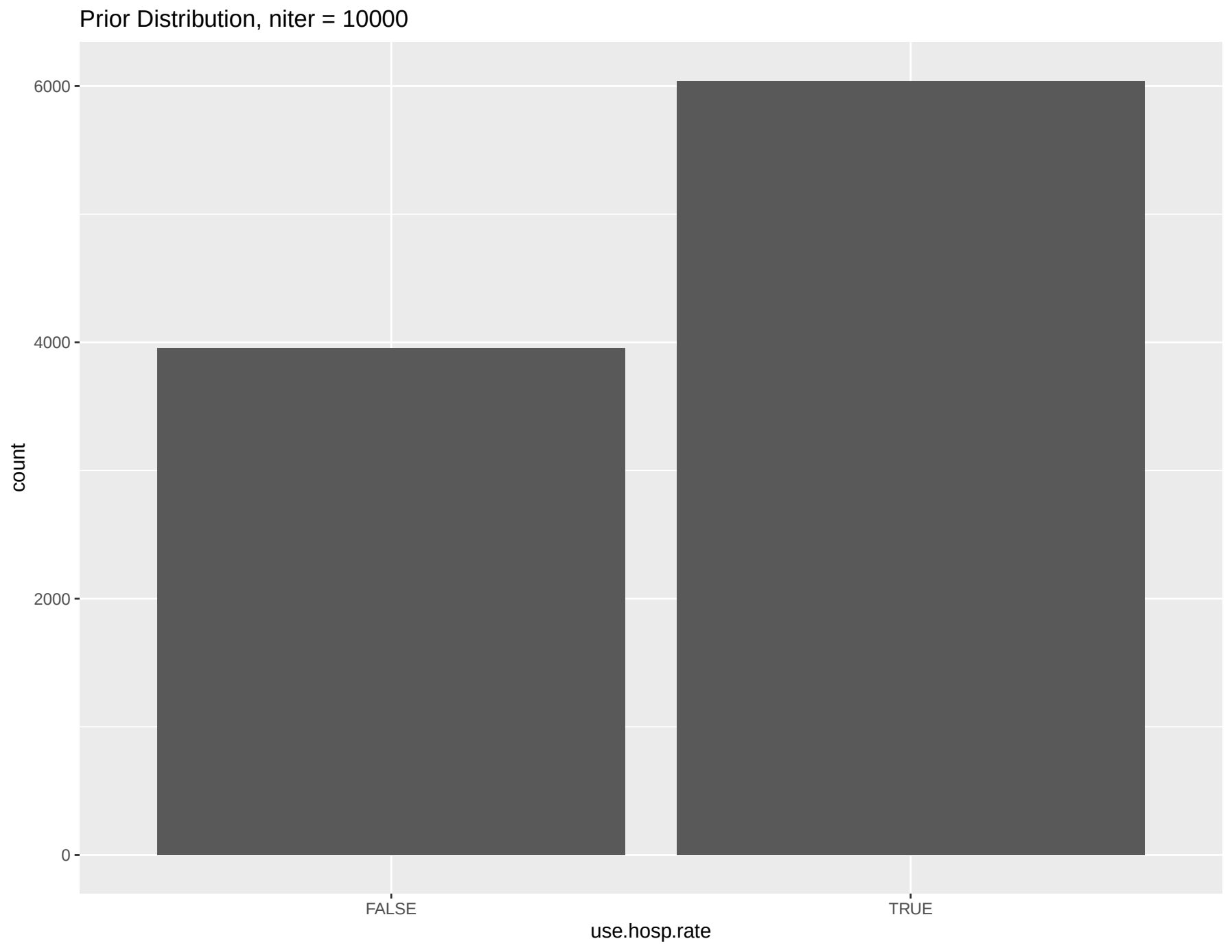

Posterior Distribution, niter = 361
Low number of iterations, use with caution
density
2.0
1.5
1.0
0.5
0.0
0.5
1.0
1.5
2.0
intervention3.multiplier

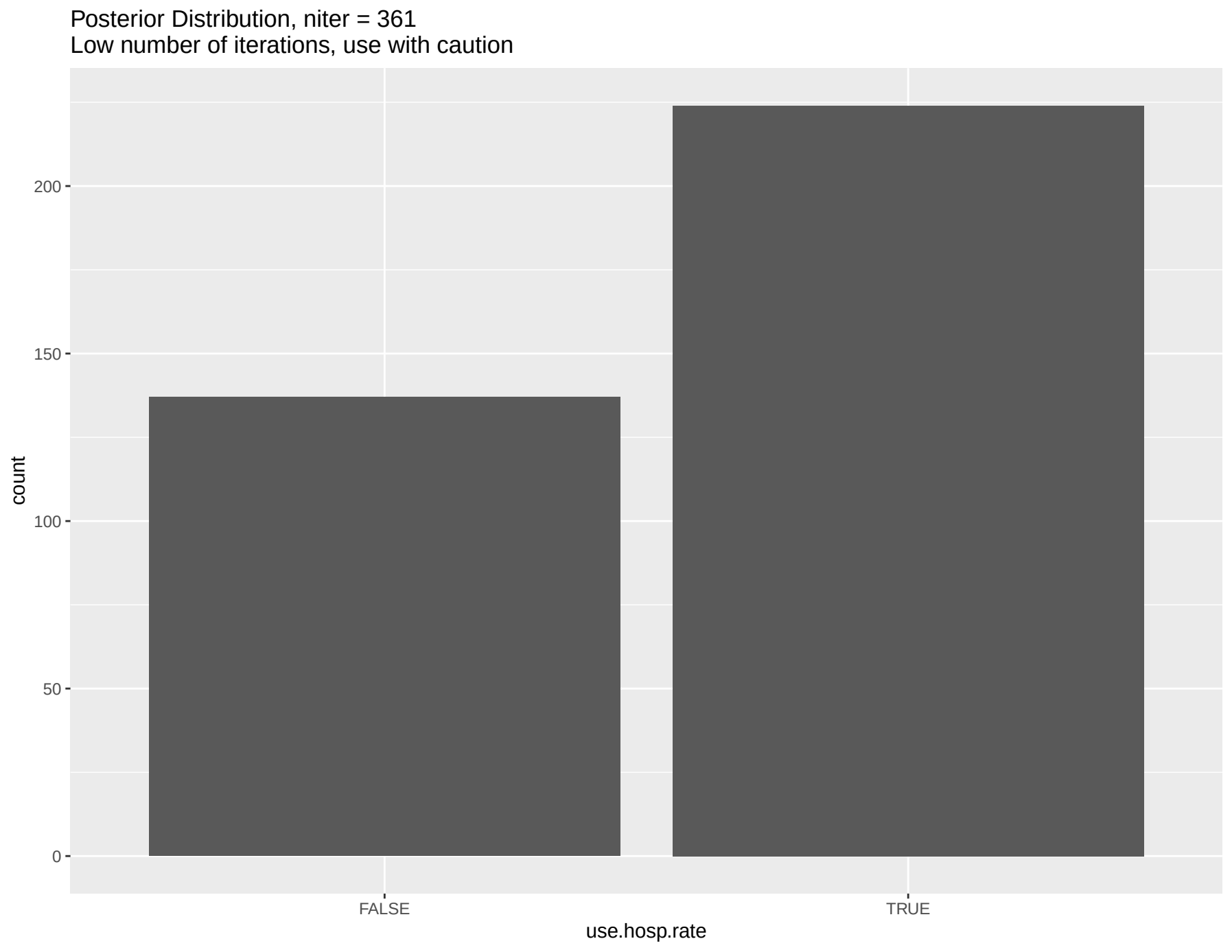

Prior Distribution, niter = 10000
count
2000
1500
1000
500
0
0
5
10
intervention3.smooth.days

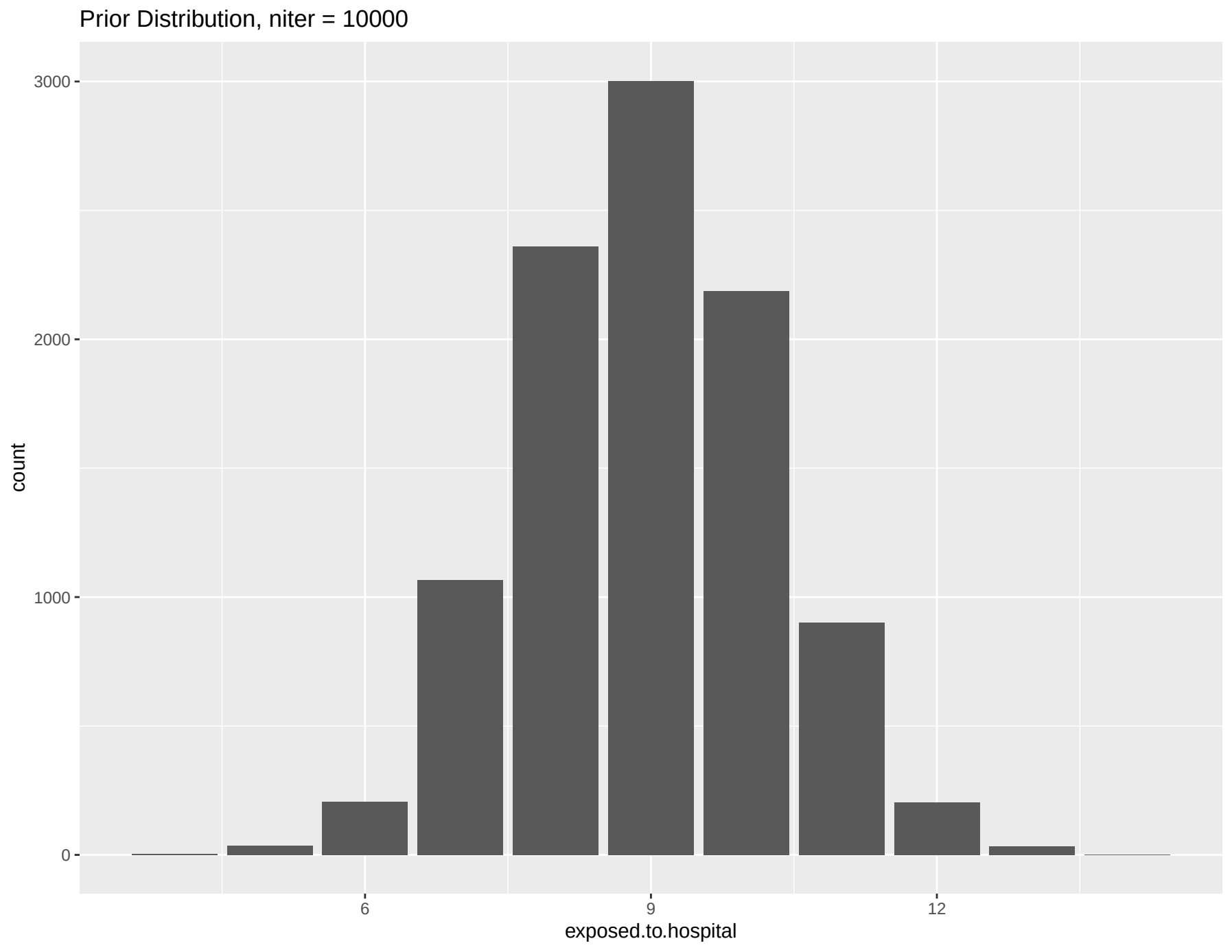

Posterior Distribution, niter = 361
Low number of iterations, use with caution
count
75
50
25
0
2.5
5.0
7.5
10.0
12.5
intervention3.smooth.days

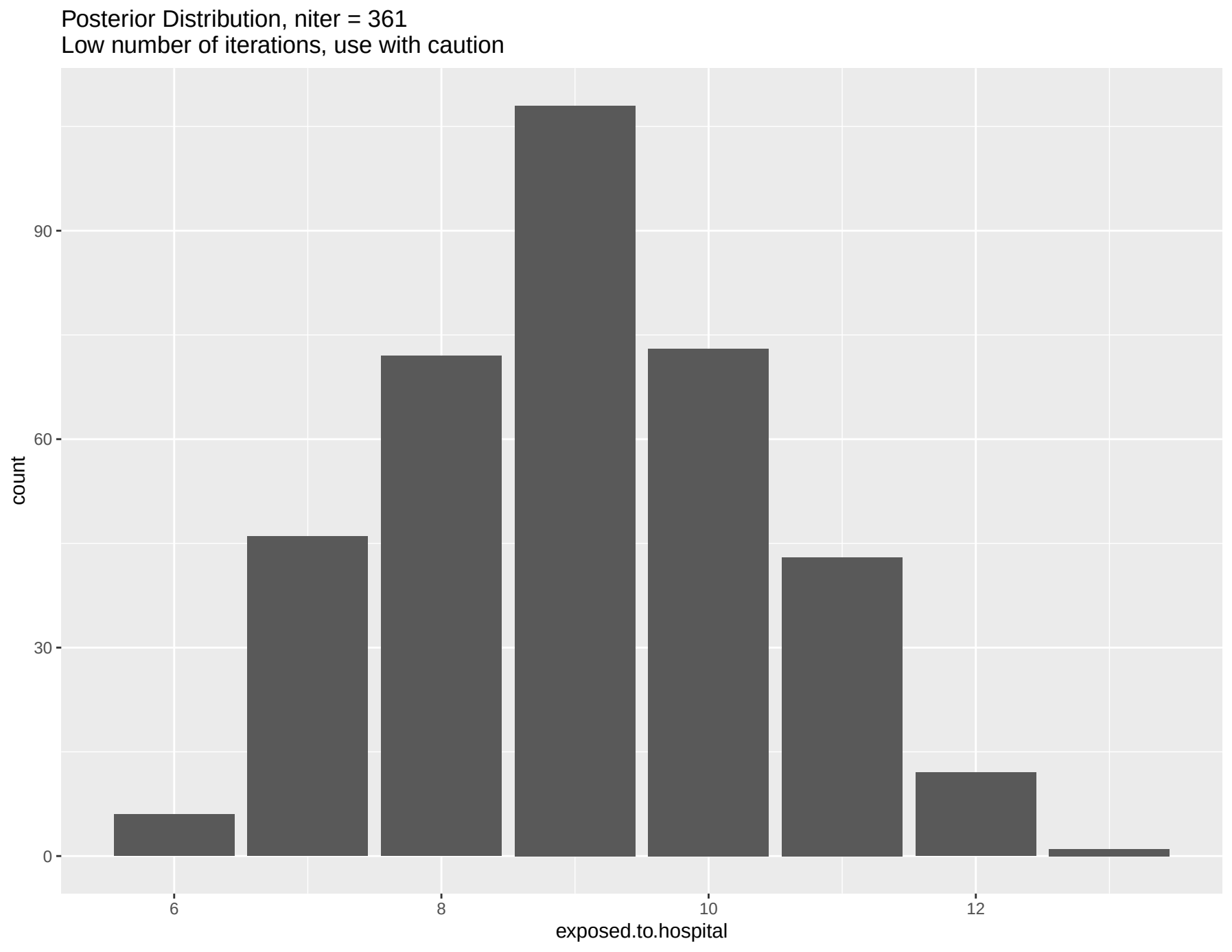

Prior Distribution, niter = 10000
6000
4000
2000
0
count
FALSE
TRUE
patients.in.hosp.are.infectious

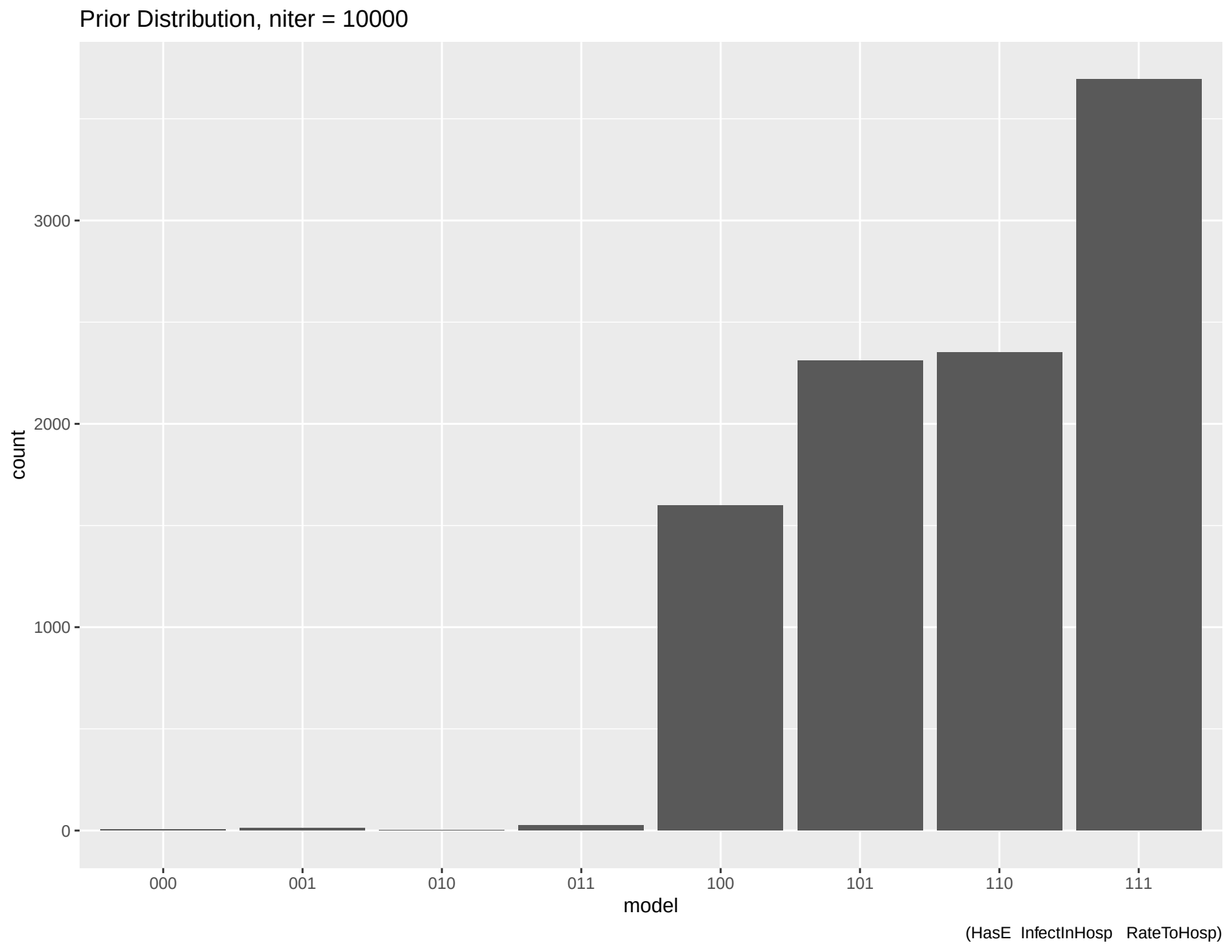

Posterior Distribution, niter = 361
Low number of iterations, use with caution
count
200
150
100
50
0
FALSE
TRUE
patients.in.hosp.are.infectious

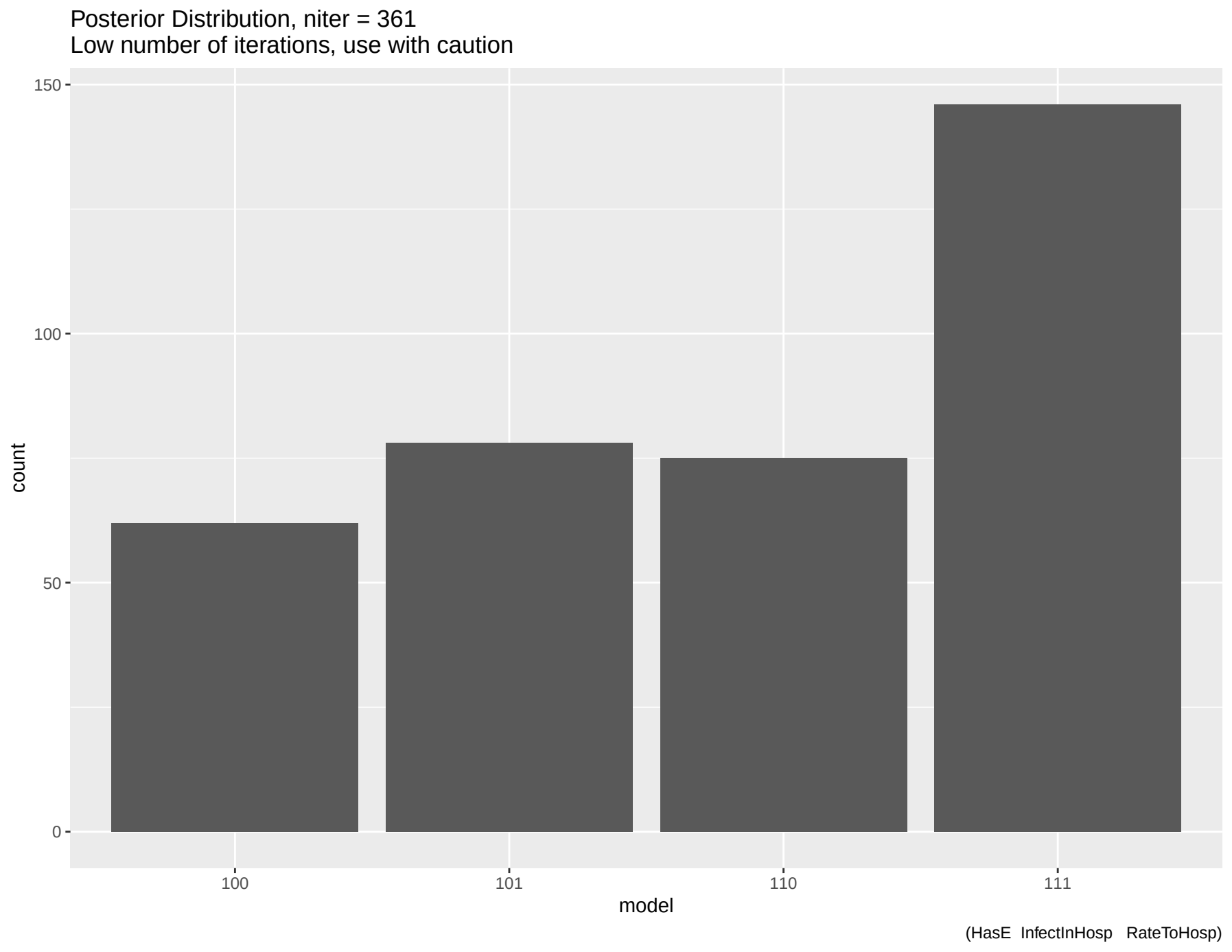

Prior Distribution, niter = 10000
6000
4000
2000
0
count
FALSE
TRUE
use.hosp.rate


Posterior Distribution, niter = 361
Low number of iterations, use with caution
count
200
150
100
50
0
FALSE
TRUE
use.hosp.rate


Prior Distribution, niter = 10000
3000
2000
1000
0
count
6
9
12
exposed.to.hospital


Posterior Distribution, niter = 361
Low number of iterations, use with caution
count
90
60
30
0
6
8
10
12
exposed.to.hospital


Prior Distribution, niter = 10000
count
3000
2000
1000
0
000
001
010
011
100
101
110
111
model
(HasE InfectInHosp RateToHosp)


Posterior Distribution, niter = 361
Low number of iterations, use with caution
150
100
50
0
count
100
101
110
111
model
(HasE InfectInHosp RateToHosp)