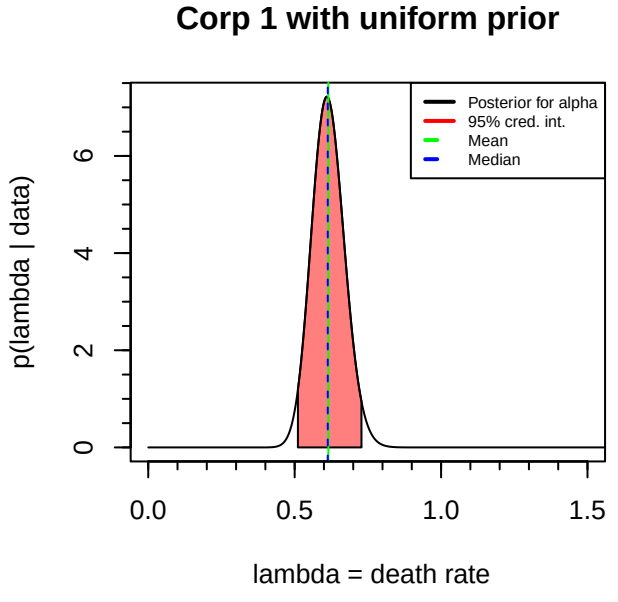
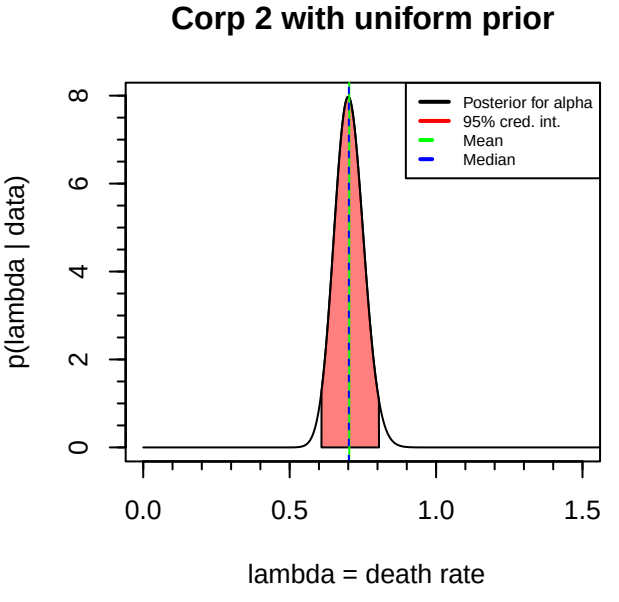
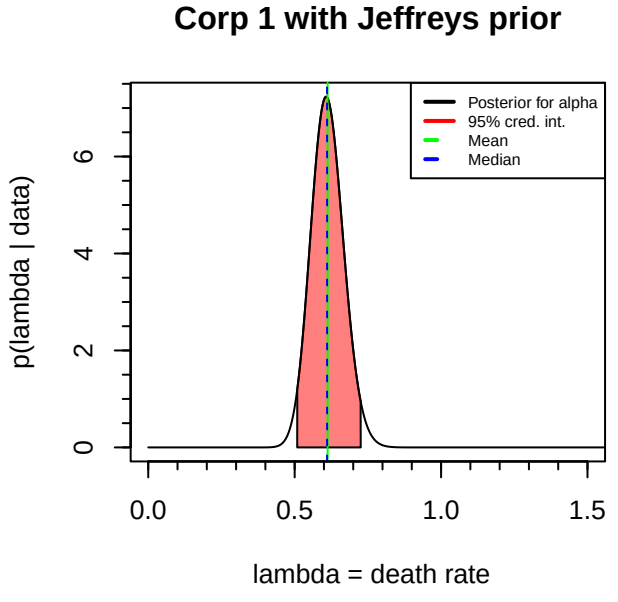
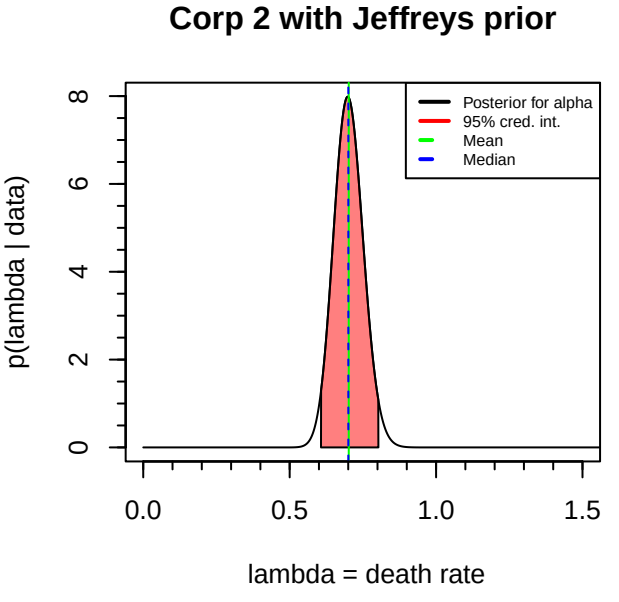
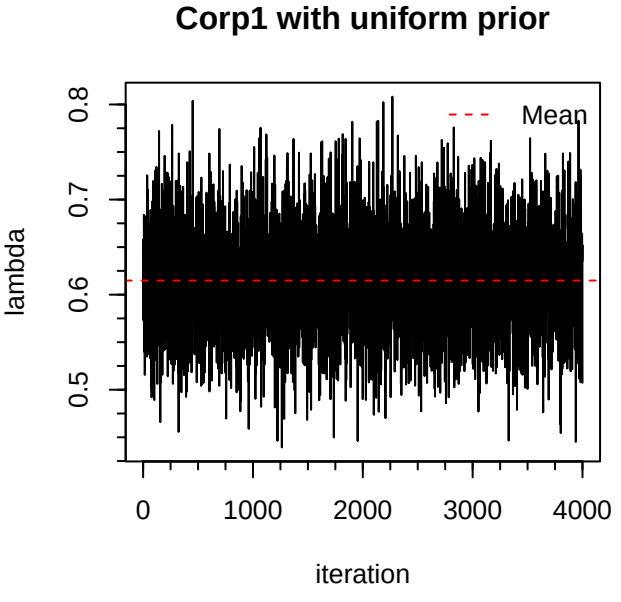
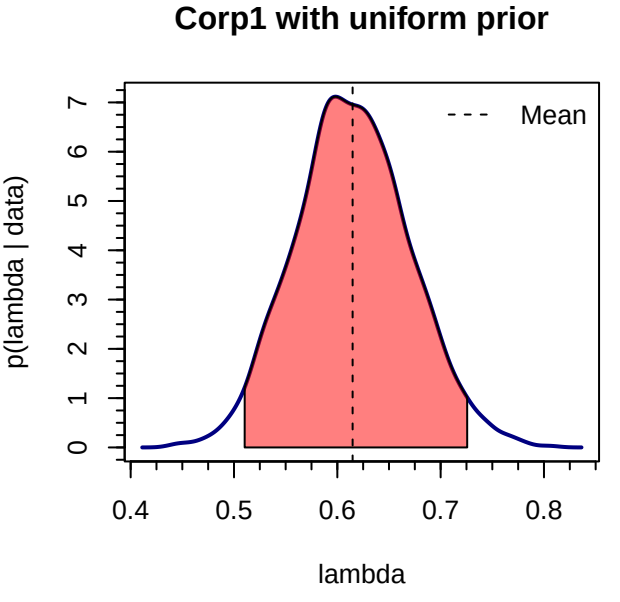

Corp 1 with uniform prior
Posterior for alpha
95% cred. int.
Mean
Median
p(lambda | data)
0
2
4
6
0.0
0.5
1.0
1.5
lambda = death rate

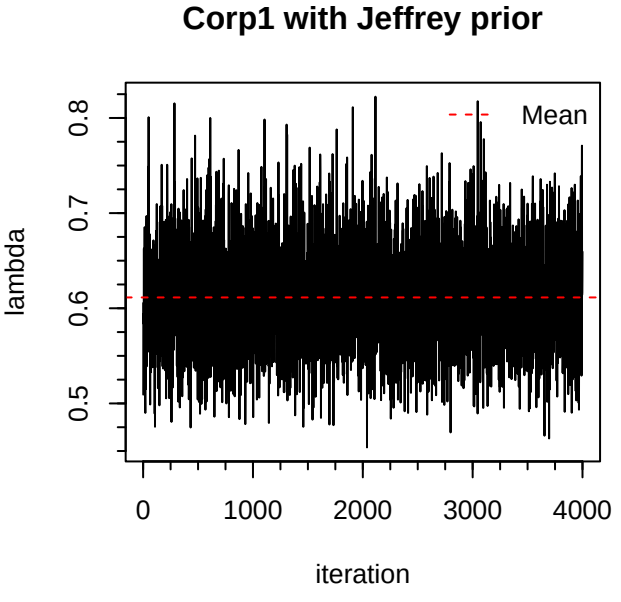

Corp 2 with uniform prior
Posterior for alpha
95% cred. int.
Mean
Median
p(lambda | data)
0
2
4
6
8
0.0
0.5
1.0
1.5
lambda = death rate

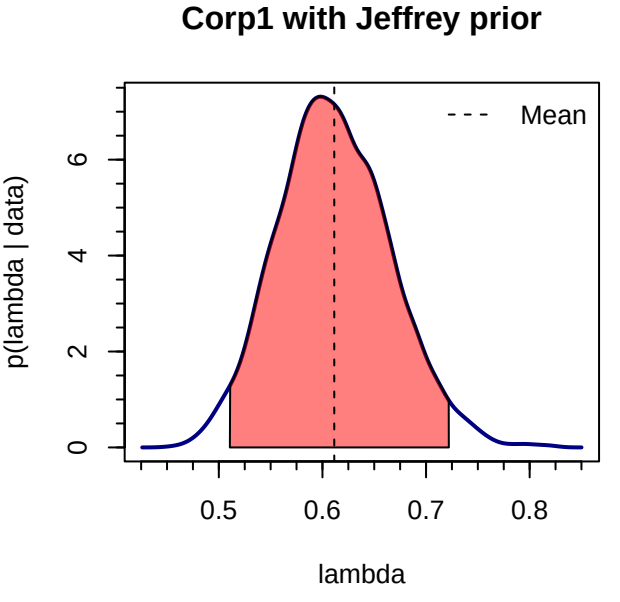

Corp 1 with Jeffreys prior
Posterior for alpha
95% cred. int.
Mean
Median
p(lambda | data)
0
2
4
6
0.0
0.5
1.0
1.5
lambda = death rate

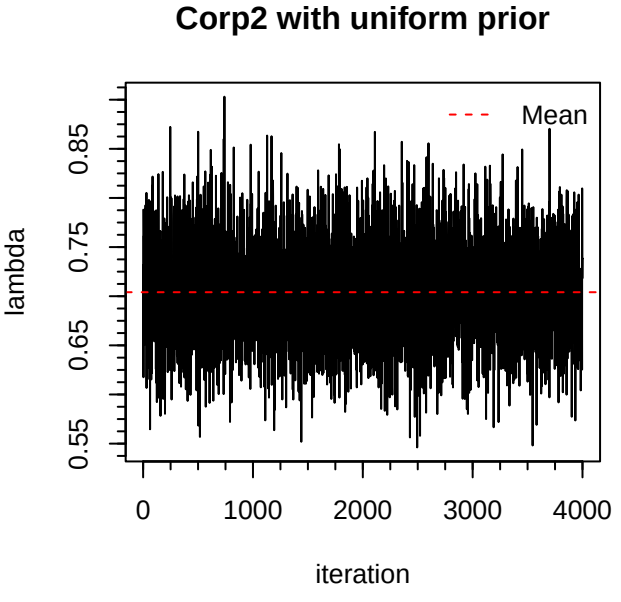

Corp 2 with Jeffreys prior
Posterior for alpha
95% cred. int.
Mean
Median
p(lambda | data)
0
2
4
6
8
0.0
0.5
1.0
1.5
lambda = death rate

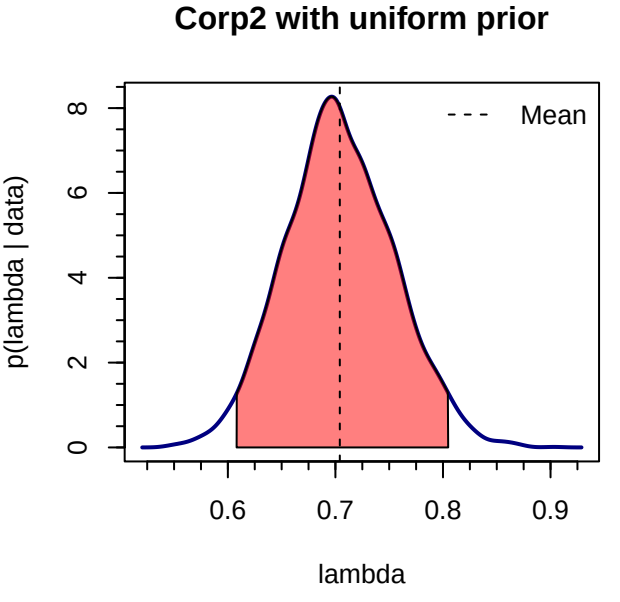

Corp1 with uniform prior
Mean
lambda
iteration
0.5
0.6
0.7
0.8
0
1000
2000
3000
4000

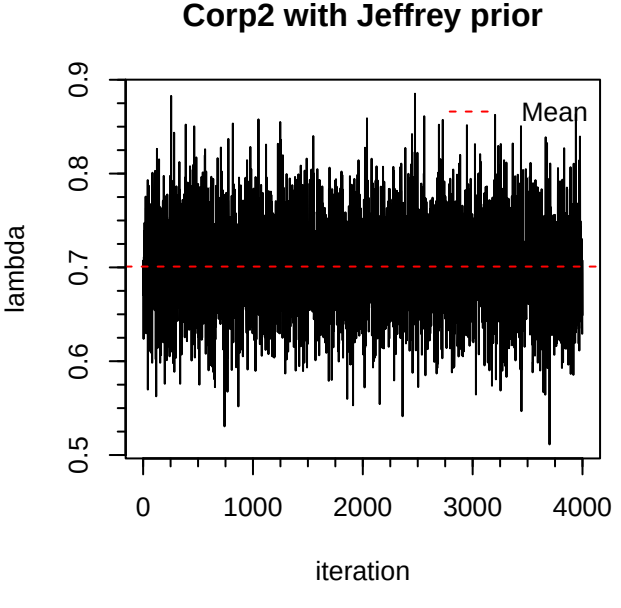

Corp1 with uniform prior
Mean
p(lambda | data)
lambda
0
1
2
3
4
5
6
7
0.4
0.5
0.6
0.7
0.8

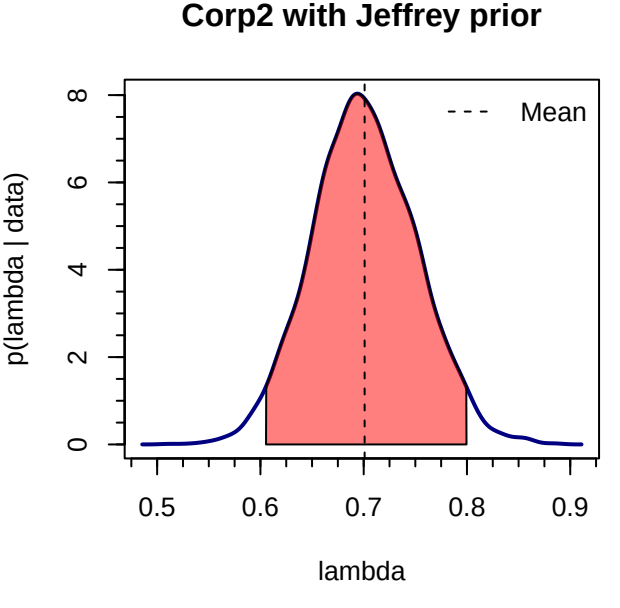

Corp1 with Jeffrey prior
Mean
lambda
iteration
0.5
0.6
0.7
0.8
0
1000
2000
3000
4000

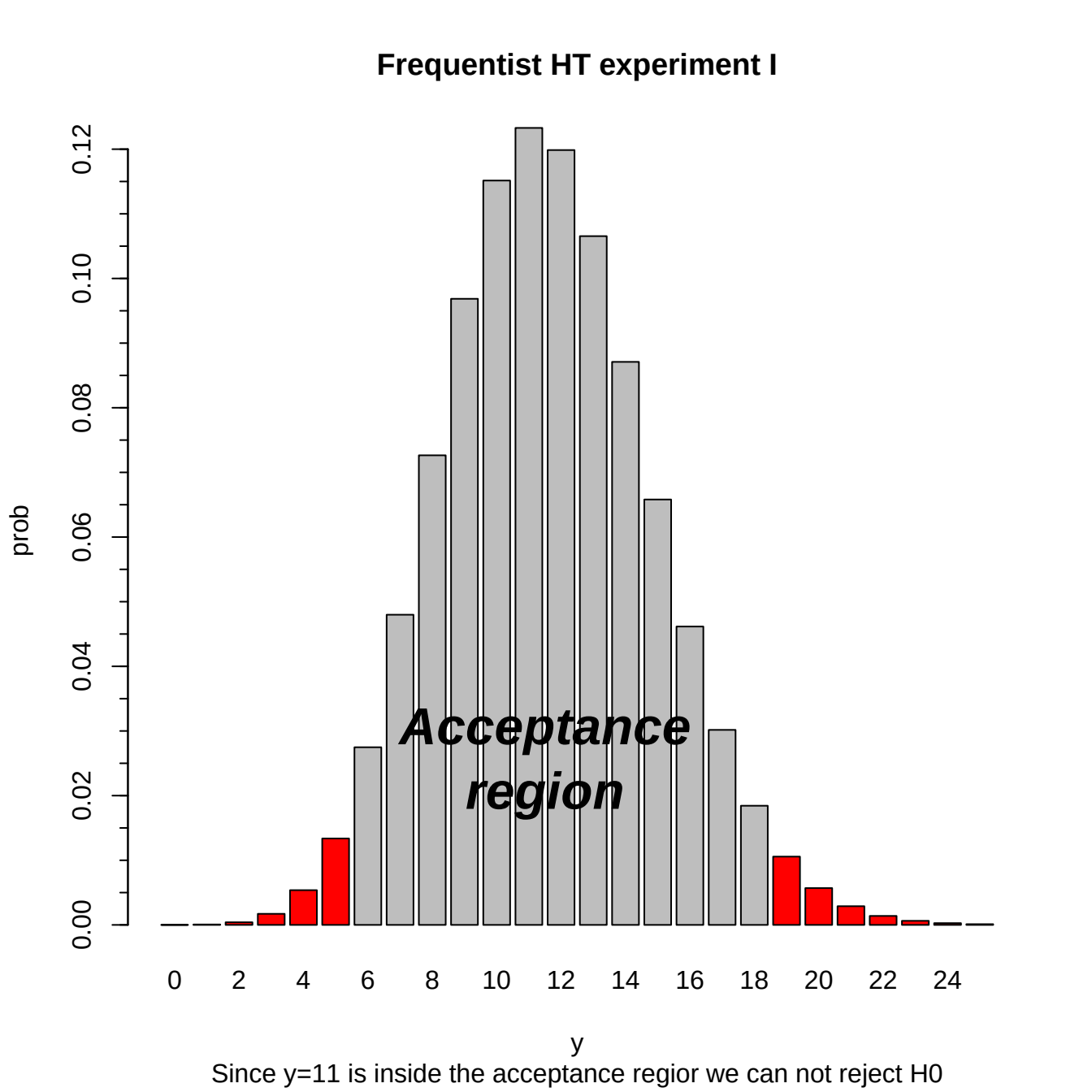

Corp1 with Jeffrey prior
Mean
p(lambda | data)
lambda
0
2
4
6
0.5
0.6
0.7
0.8


Corp2 with uniform prior
Mean
lambda
0.55
0.65
0.75
0.85
0
1000
2000
3000
4000
iteration

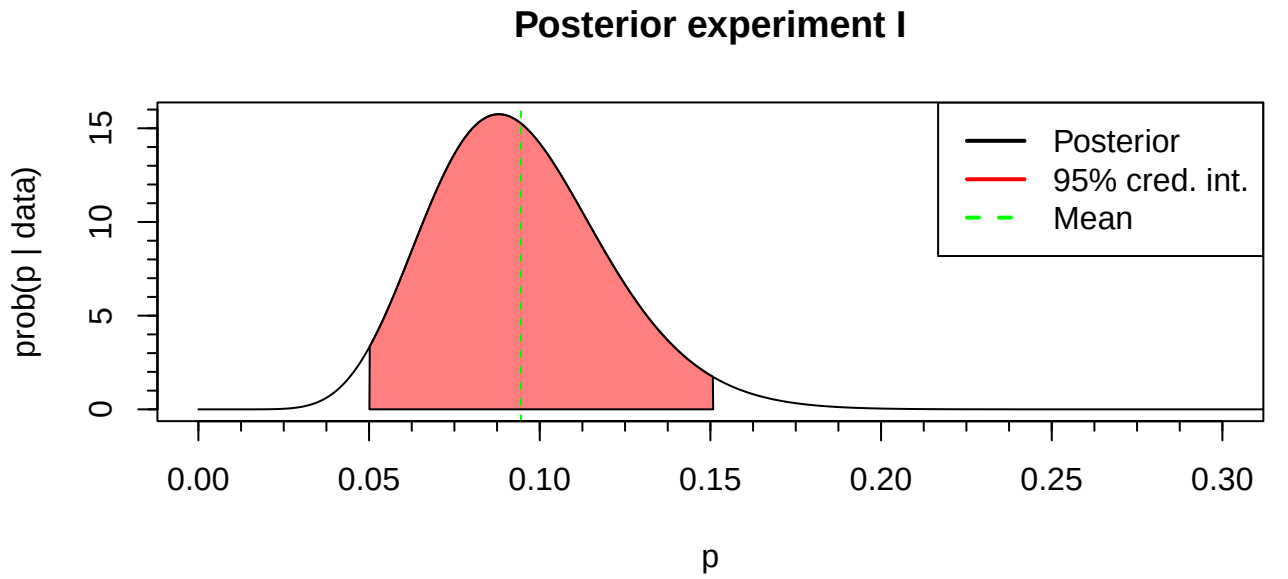

Corp2 with uniform prior
Mean
p(lambda | data)
0
2
4
6
8
0.6
0.7
0.8
0.9
lambda

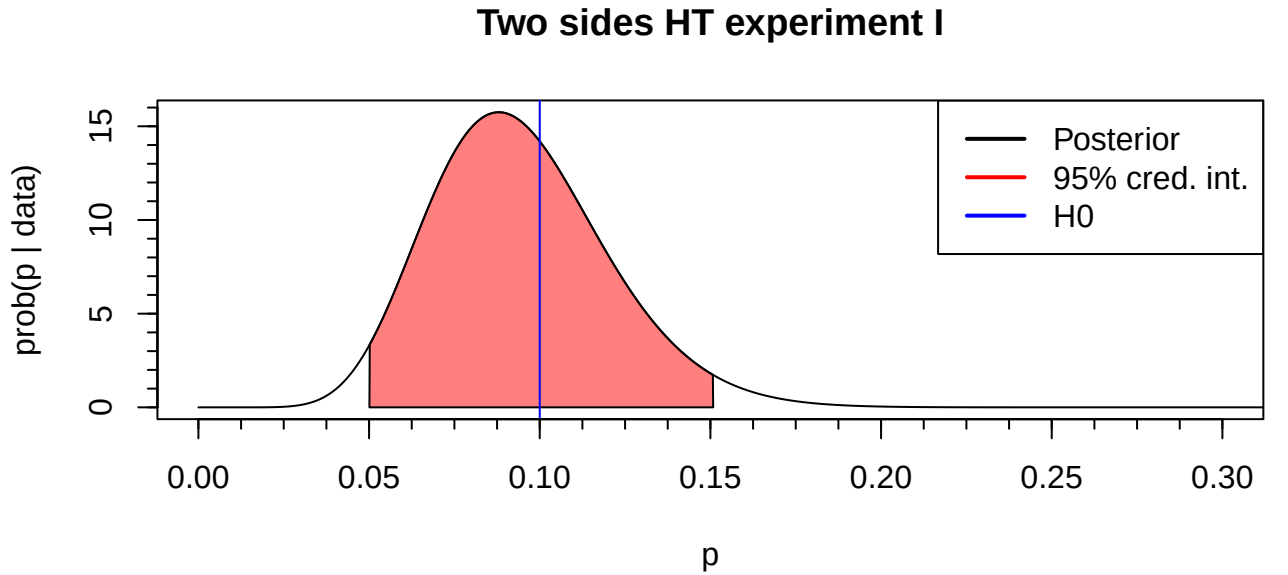

Corp2 with Jeffrey prior
Mean
lambda
0.5
0.6
0.7
0.8
0.9
0
1000
2000
3000
4000
iteration


Corp2 with Jeffrey prior
Mean
p(lambda | data)
0
2
4
6
8
0.5
0.6
0.7
0.8
0.9
lambda

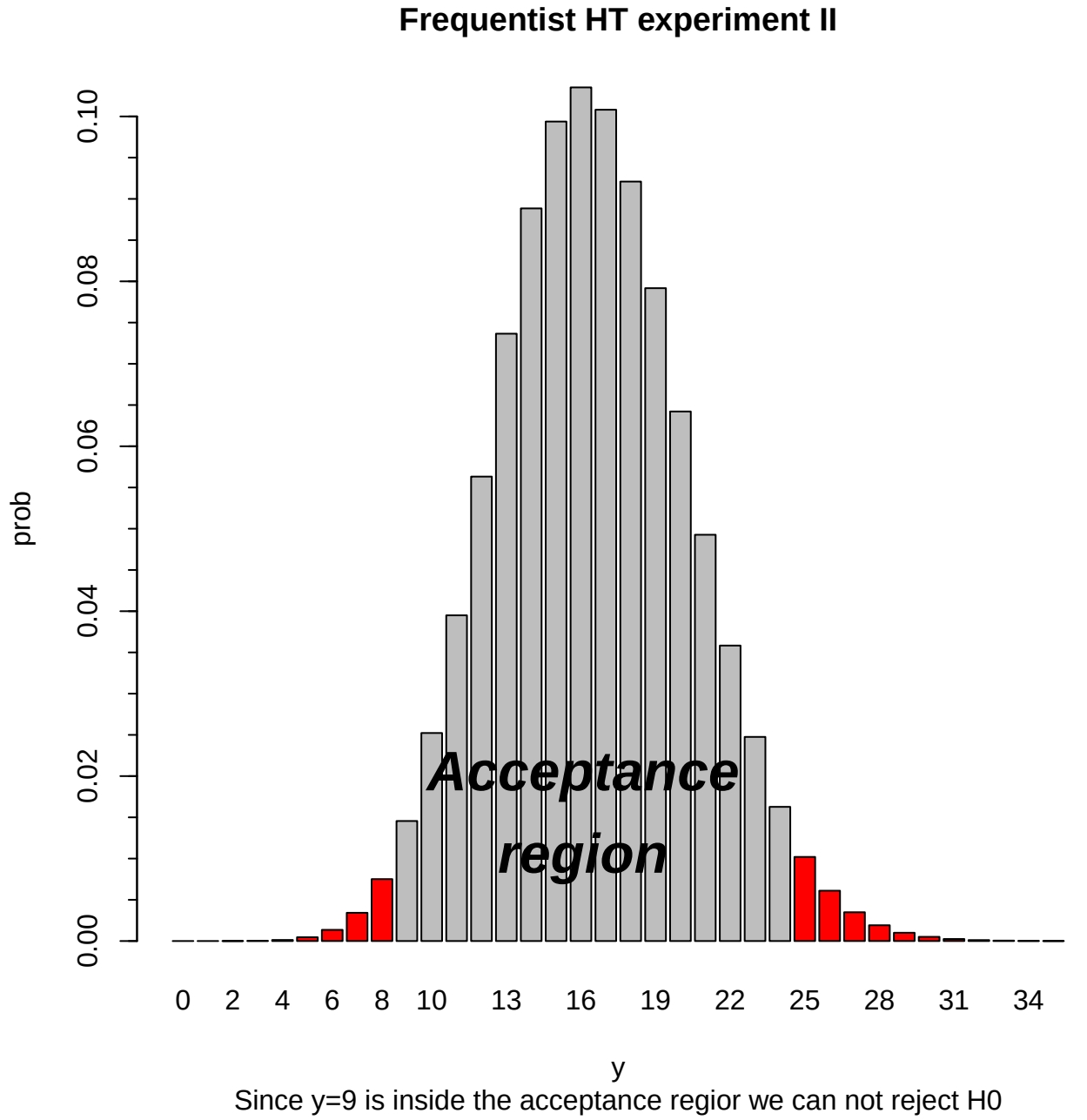


Since y=11 is inside the acceptance regior we can not reject H0

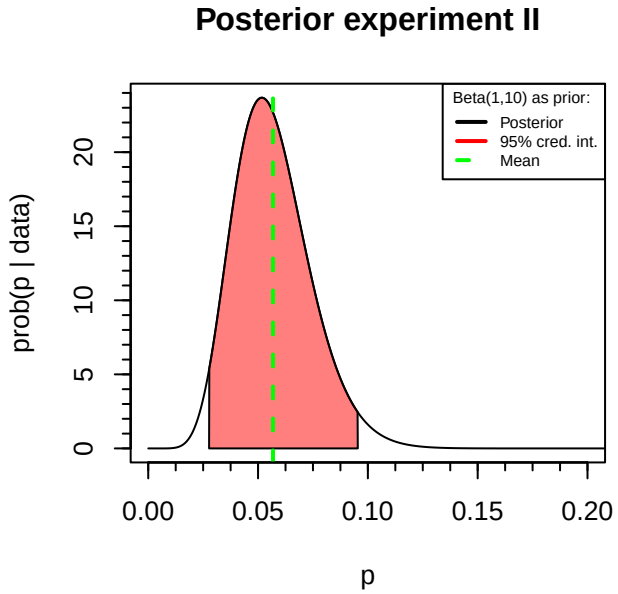


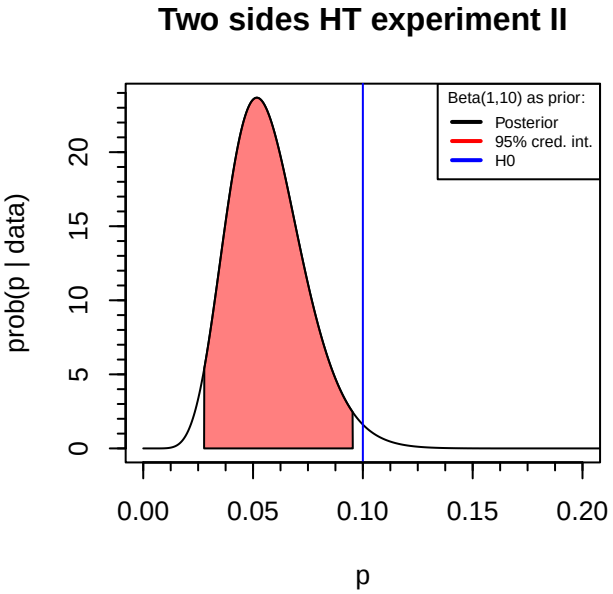


Since p=0.1 is inside the 95% regior we can not reject H0

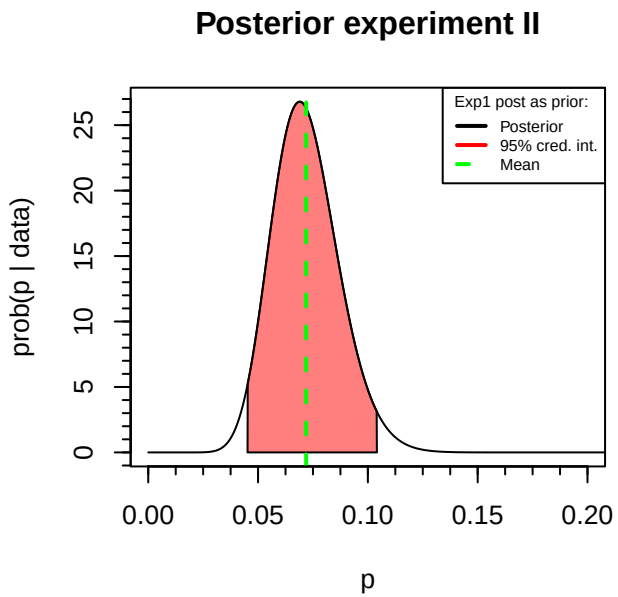


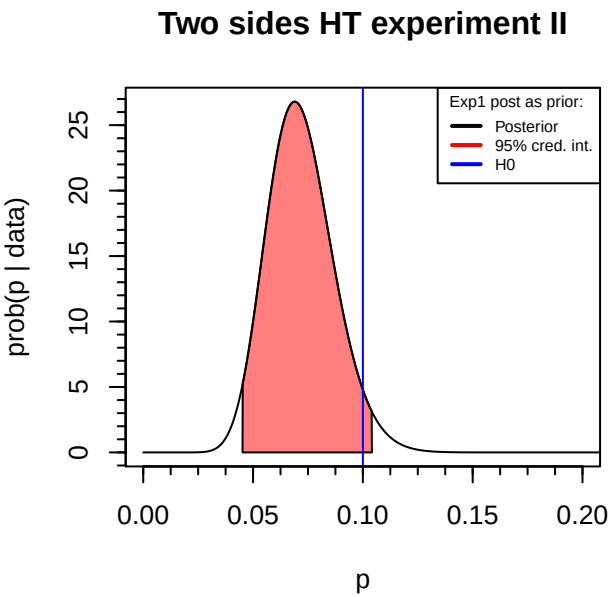
Since y=9 is inside the acceptance regior we can not reject H0



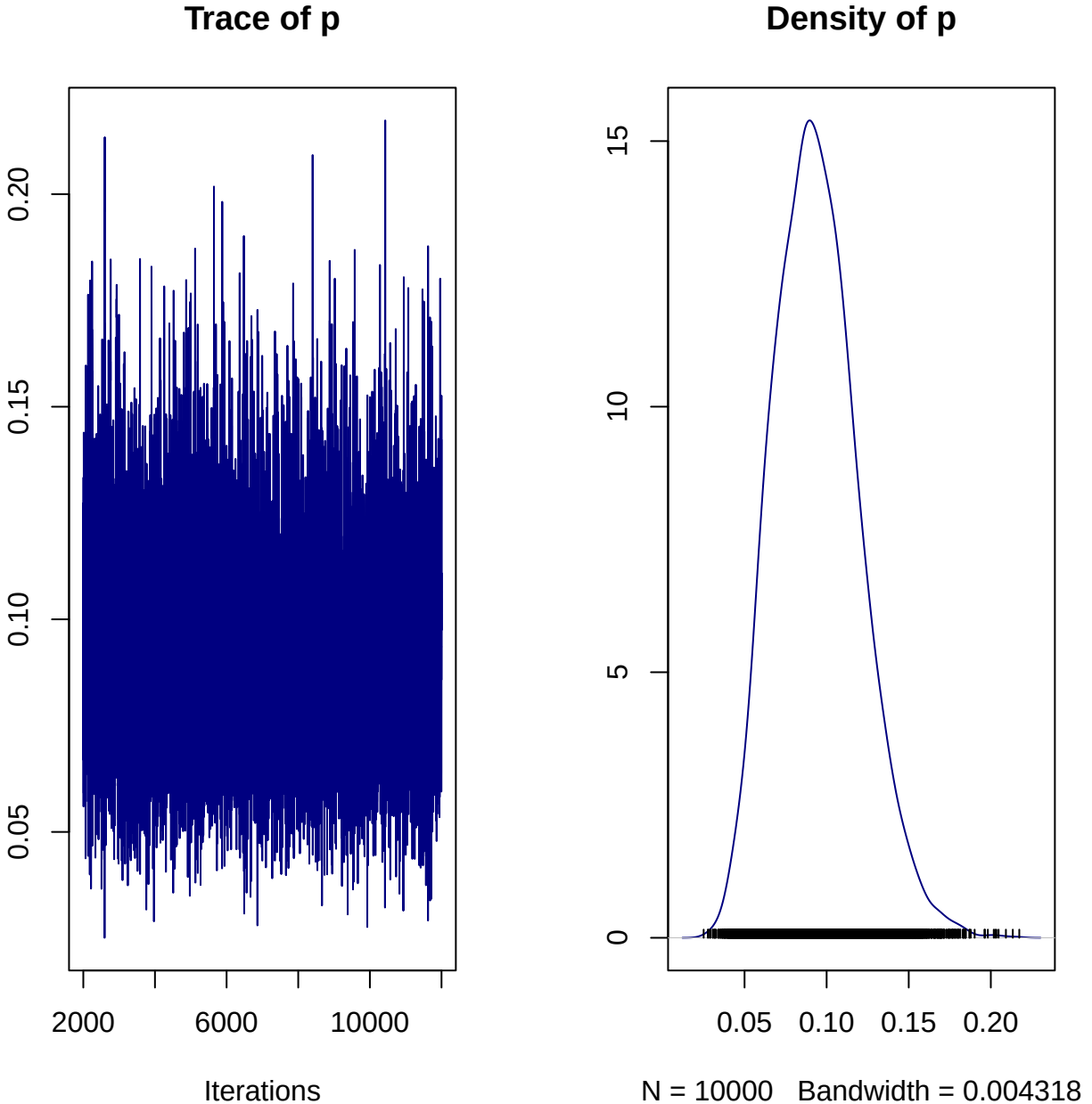


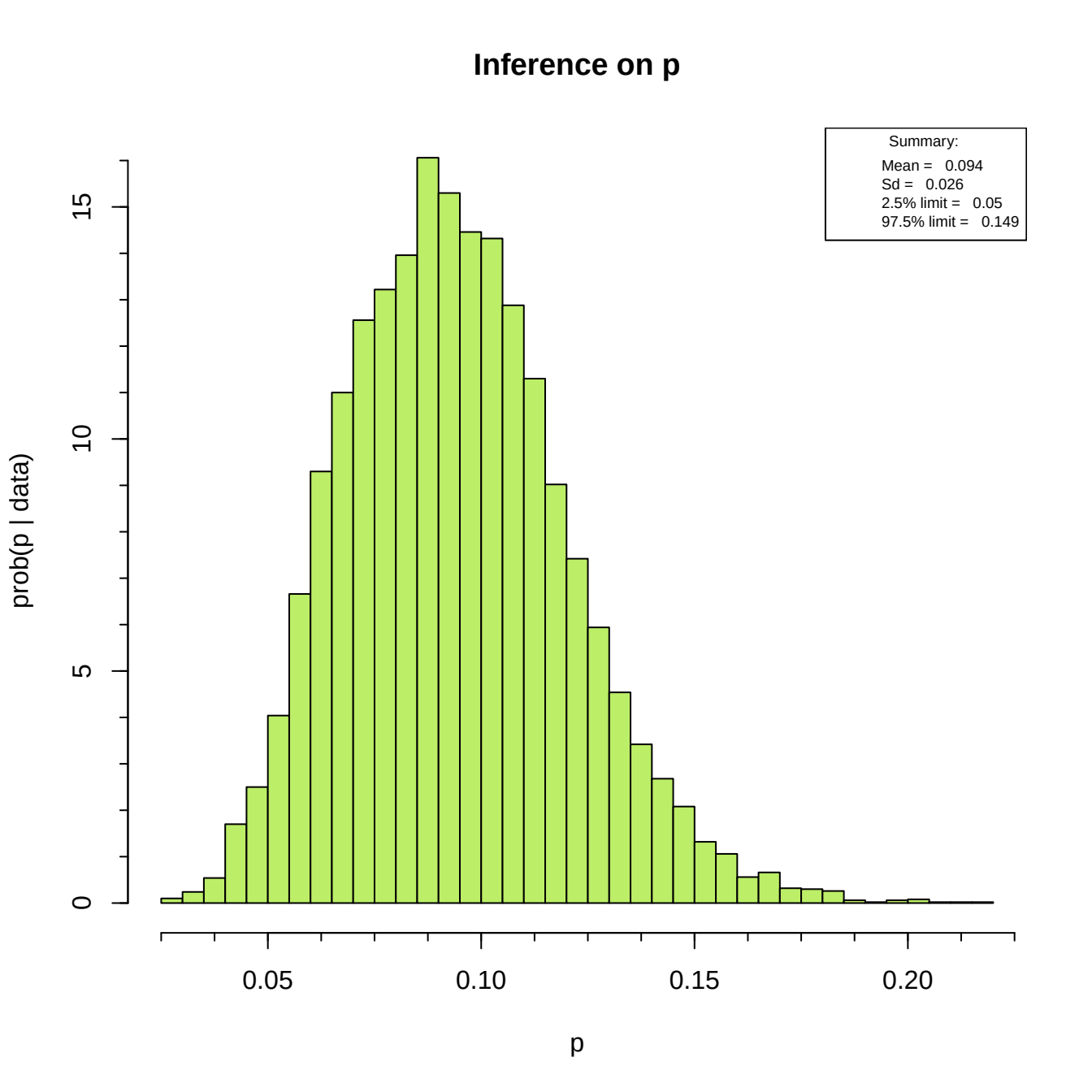
p=0.1 is outside the 95% regior we can reject H0





p=0.1 is inside the 95% regior we can not reject H0


Trace of p
0.05
0.10
0.15
0.20
2000
6000
10000
Iterations
Density of p
0
5
10
15
0.05
0.10
0.15
0.20
N = 10000 Bandwidth = 0.004318


Inference on p
Summary:
Mean = 0.094
Sd = 0.026
2.5% limit = 0.05
97.5% limit = 0.149
prob(p | data)
0
5
10
15
0.05
0.10
0.15
0.20
p