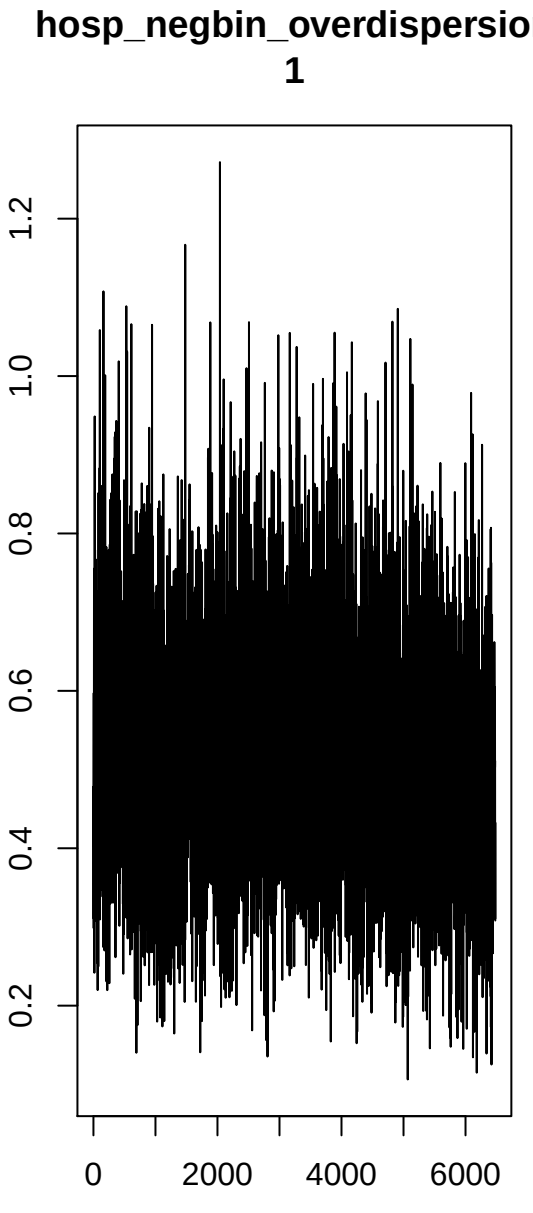
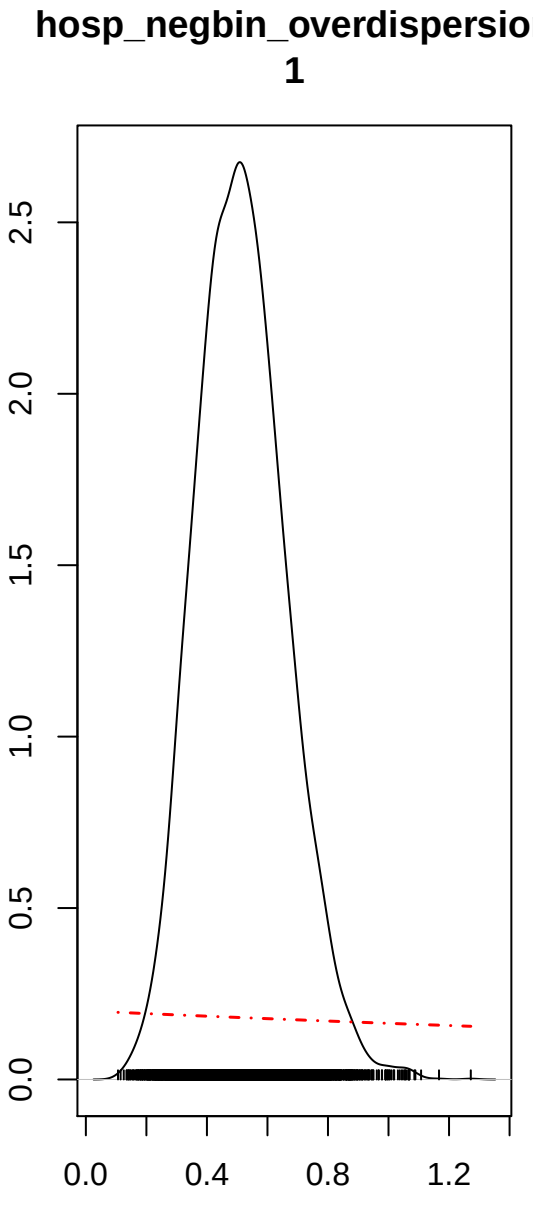
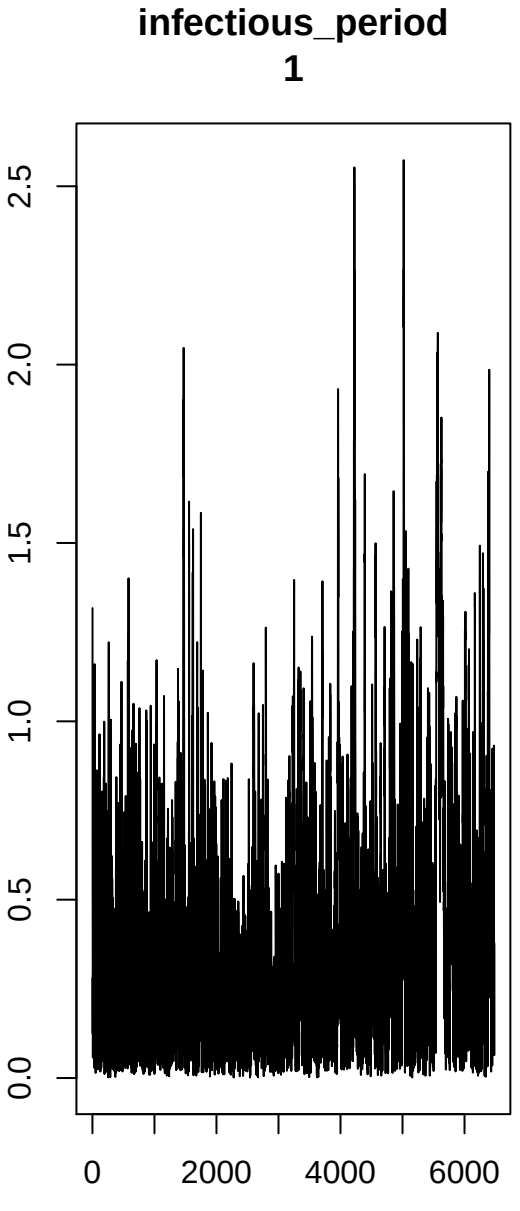
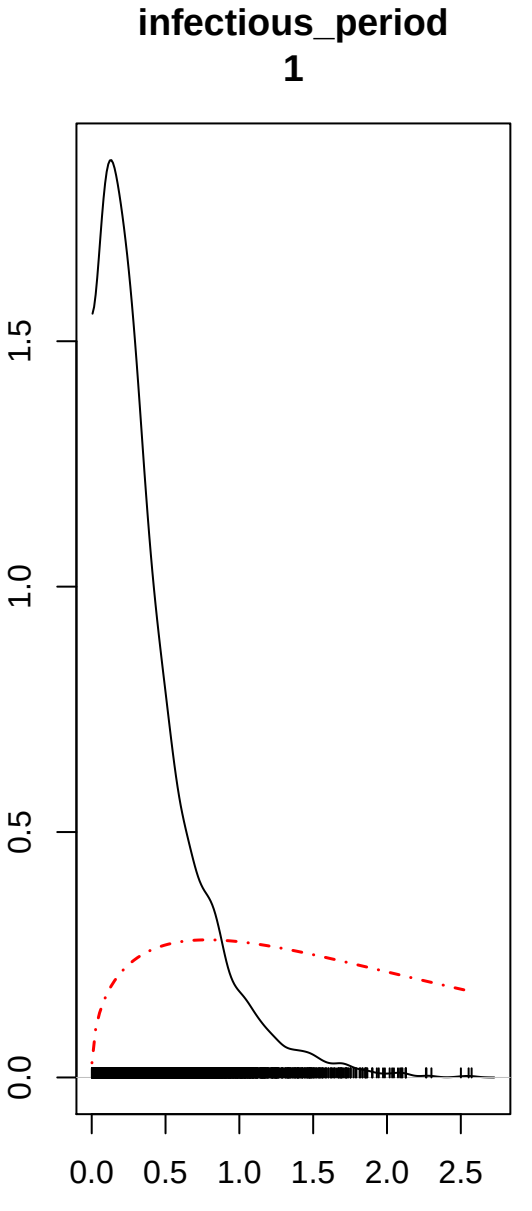
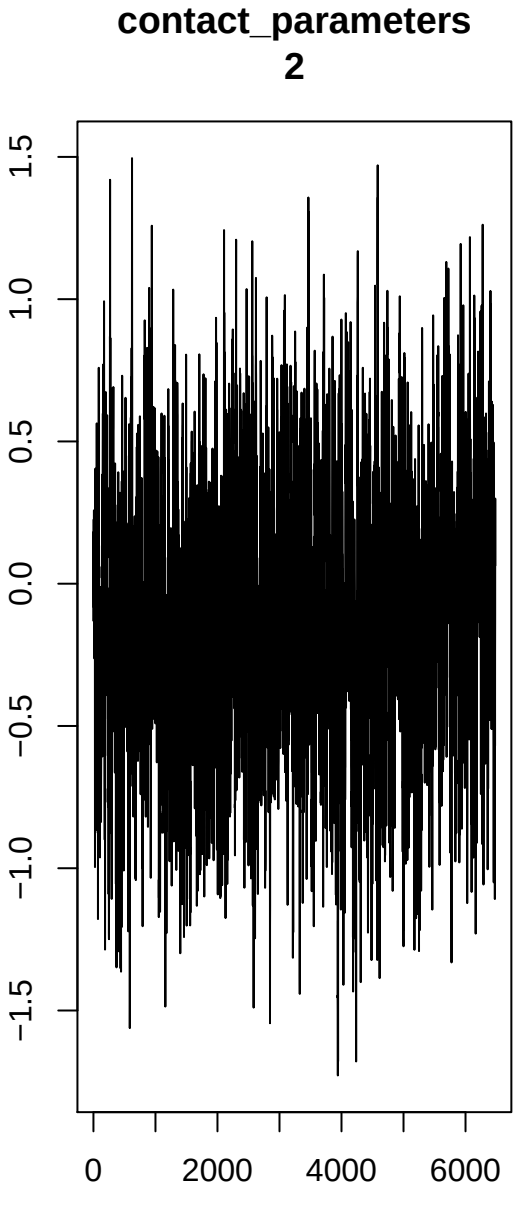
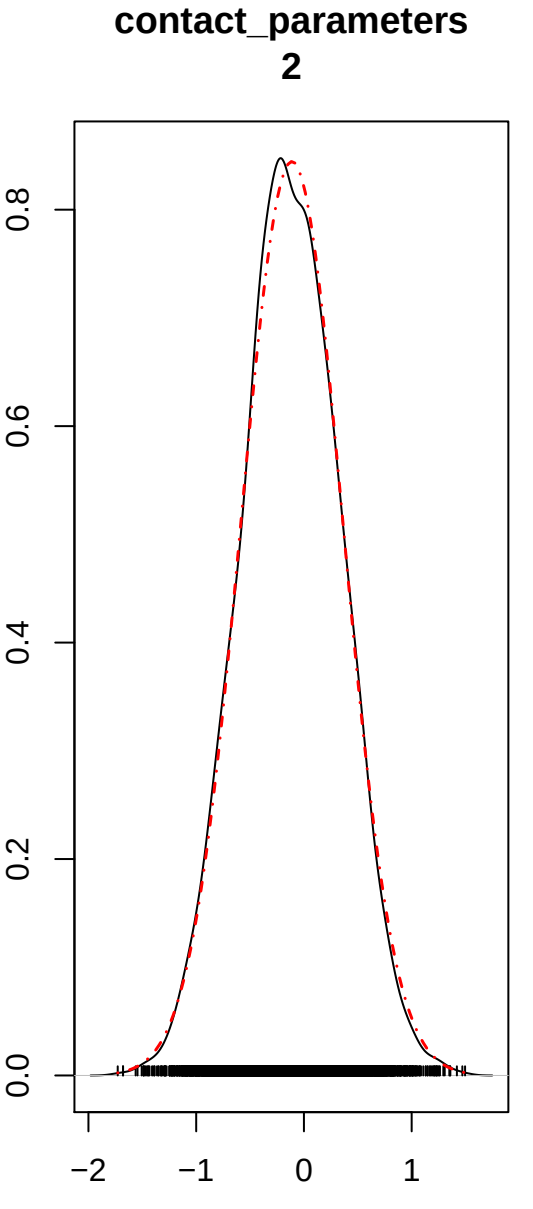

hosp_negbin_overdispersion
1
0.2
0.4
0.6
0.8
1.0
1.2
0
2000
4000
6000
Iterations

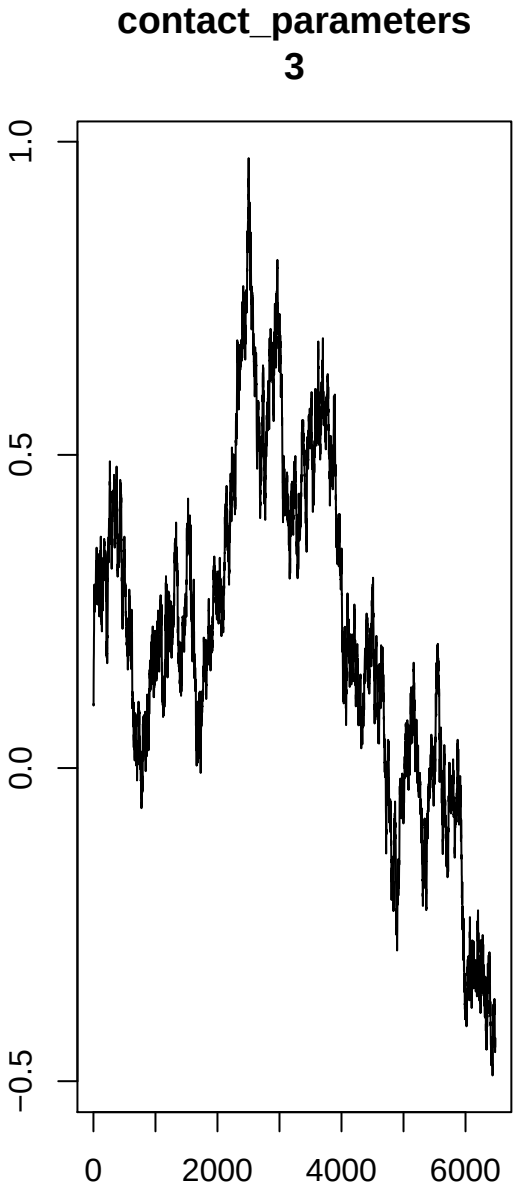

hosp_negbin_overdispersion
1
0.0
0.5
1.0
1.5
2.0
2.5
0.0
0.4
0.8
1.2
N = 6480 Bandwidth = 0.02698

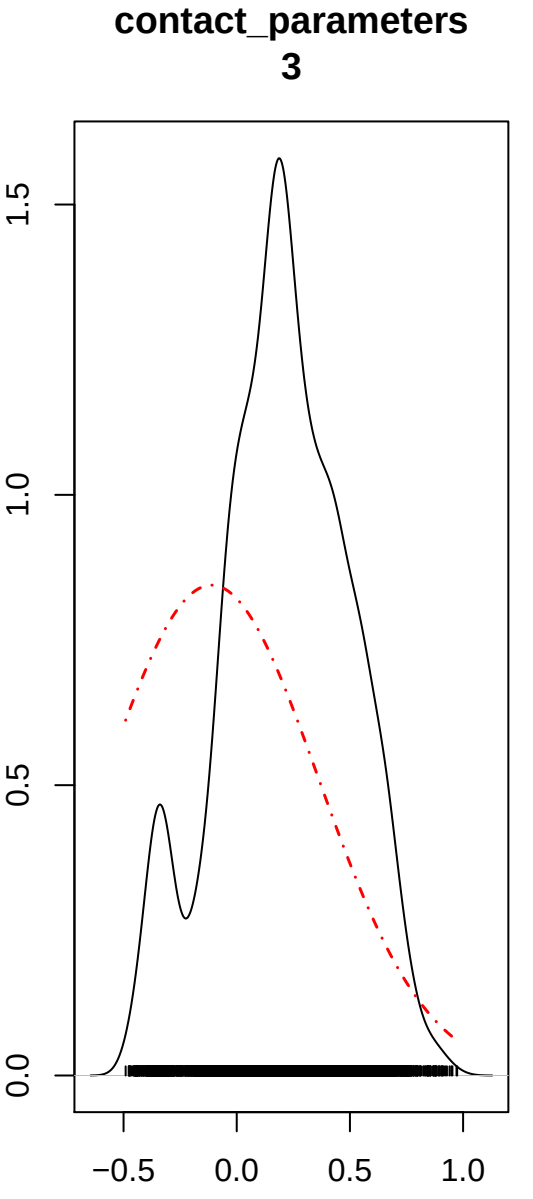

infectious_period
1
2.5
2.0
1.5
1.0
0.5
0.0
0
2000
4000
6000
Iterations

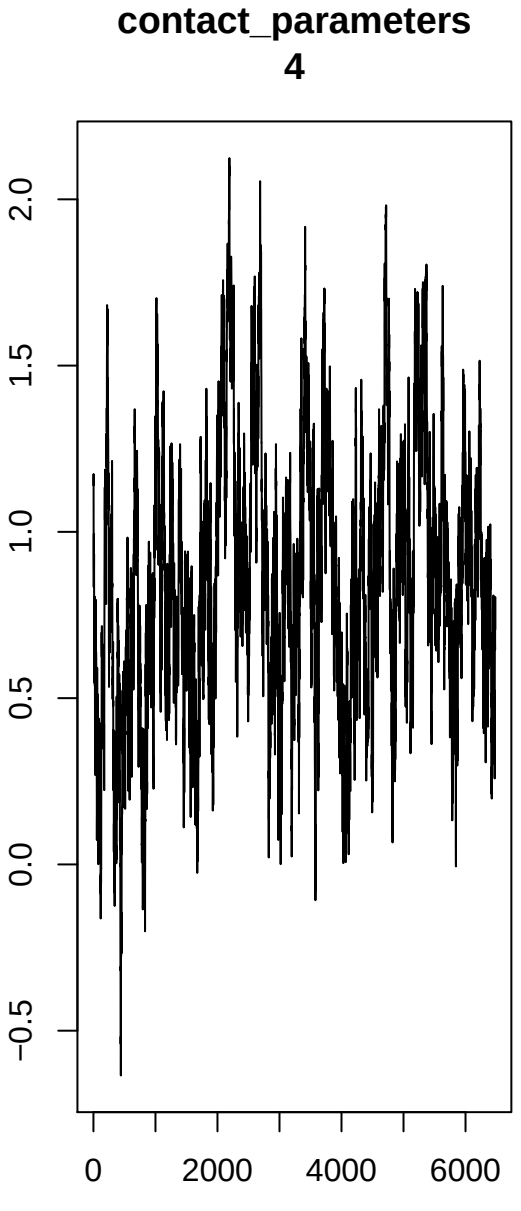

infectious_period
1
1.5
1.0
0.5
0.0
0.0
0.5
1.0
1.5
2.0
2.5
N = 6480 Bandwidth = 0.05118

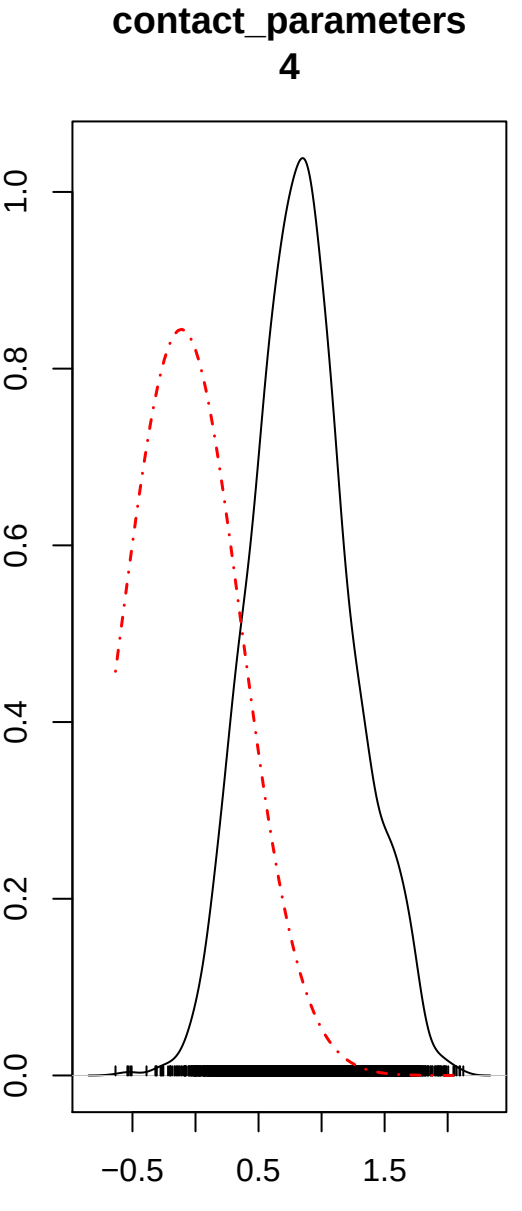

contact_parameters
2
1.5
1.0
0.5
0.0
−0.5
−1.0
−1.5
0
2000
4000
6000
Iterations

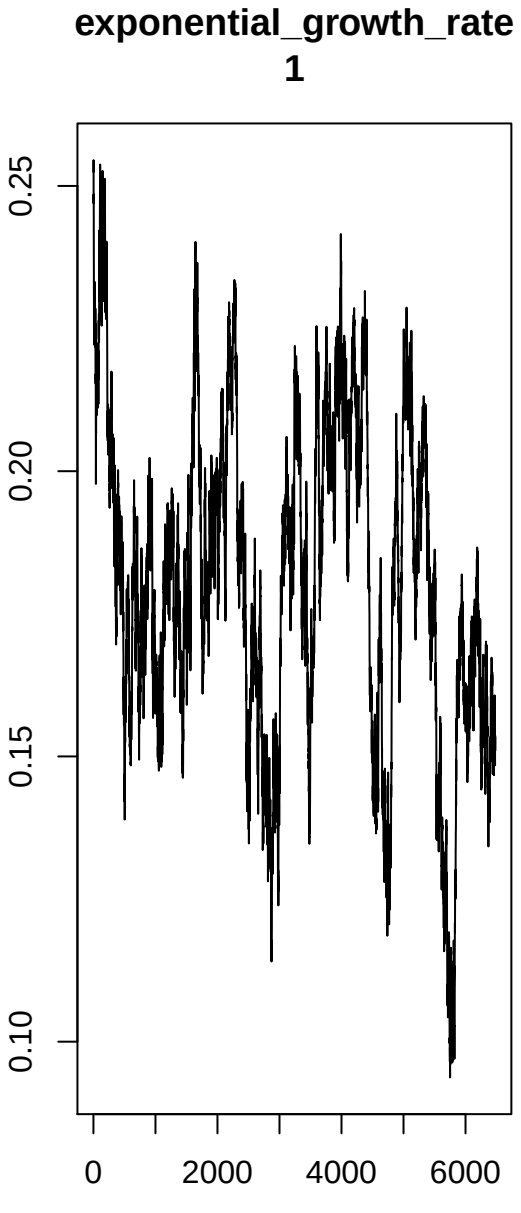

contact_parameters
2
0.8
0.6
0.4
0.2
0.0
−2
−1
0
1
N = 6480 Bandwidth = 0.08417

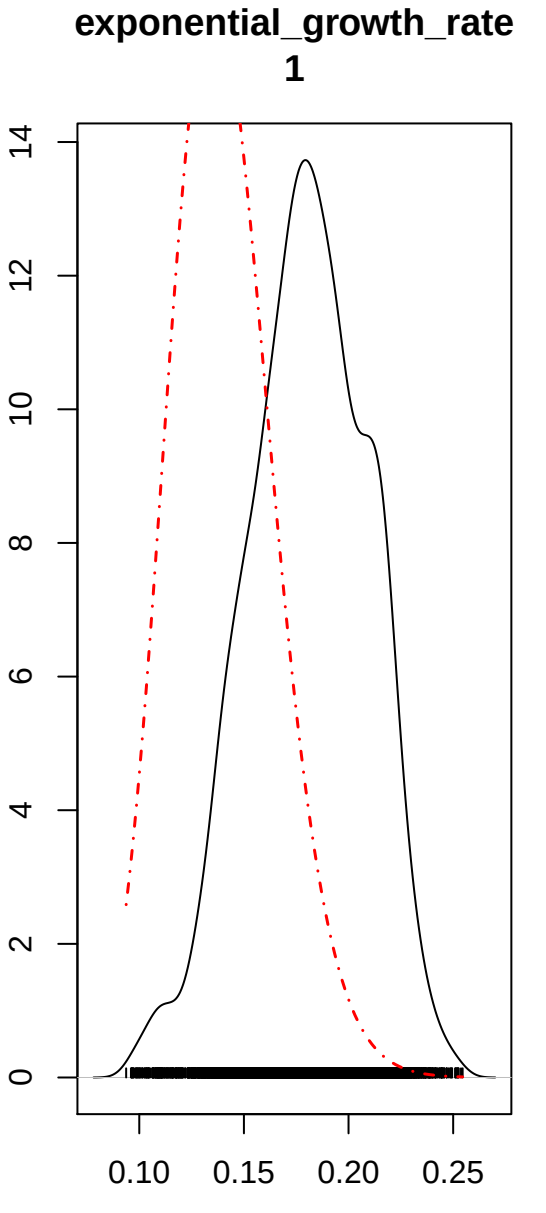

contact_parameters
3
1.0
0.5
0.0
−0.5
0
2000
4000
6000
Iterations

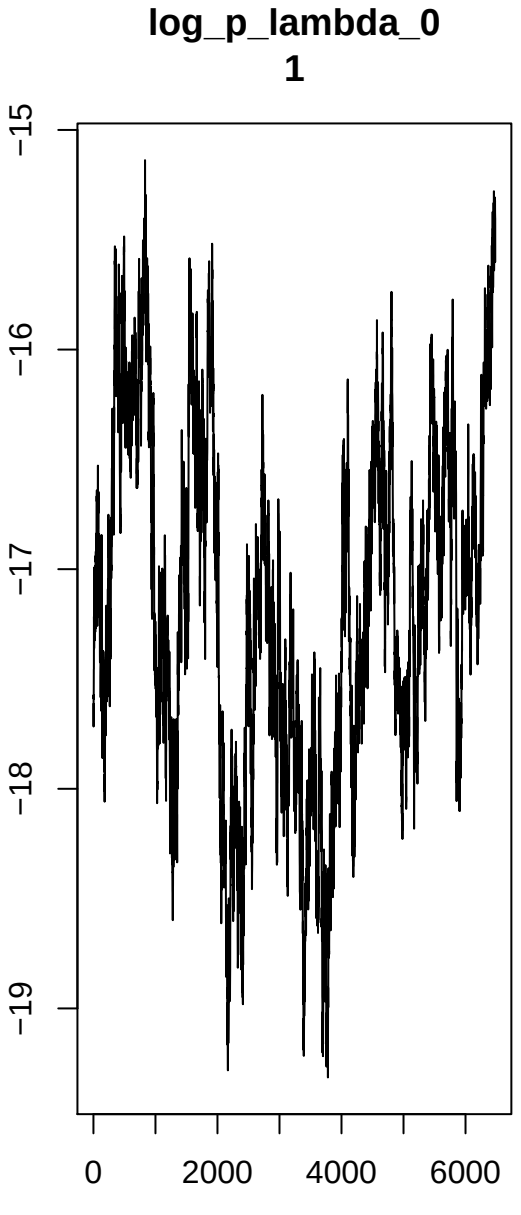

contact_parameters
3
1.5
1.0
0.5
0.0
−0.5
0.0
0.5
1.0
N = 6480 Bandwidth = 0.05171

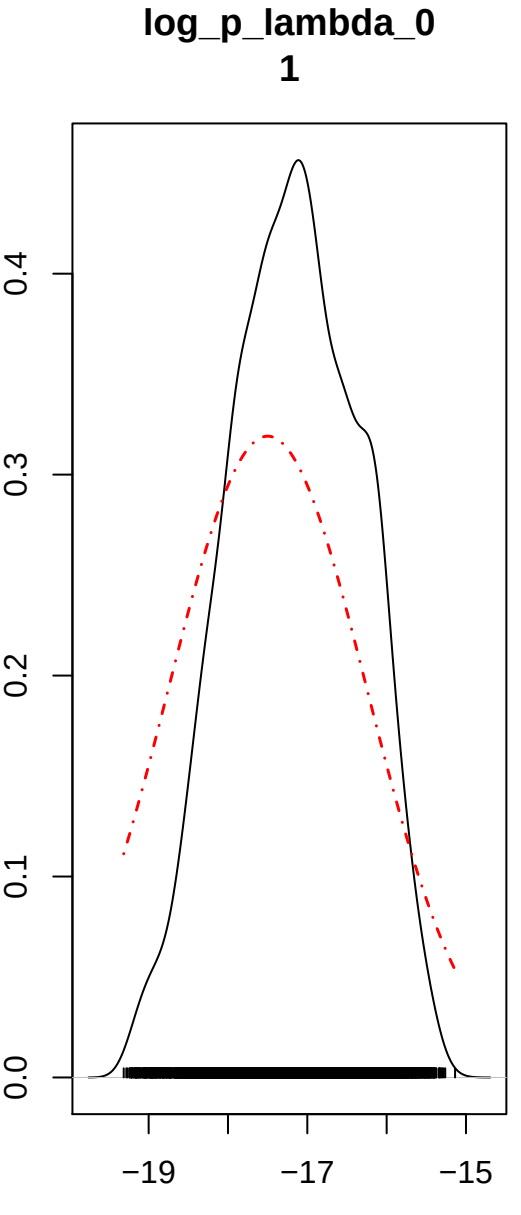

contact_parameters
4
2.0
1.5
1.0
0.5
0.0
−0.5
0
2000
4000
6000
Iterations

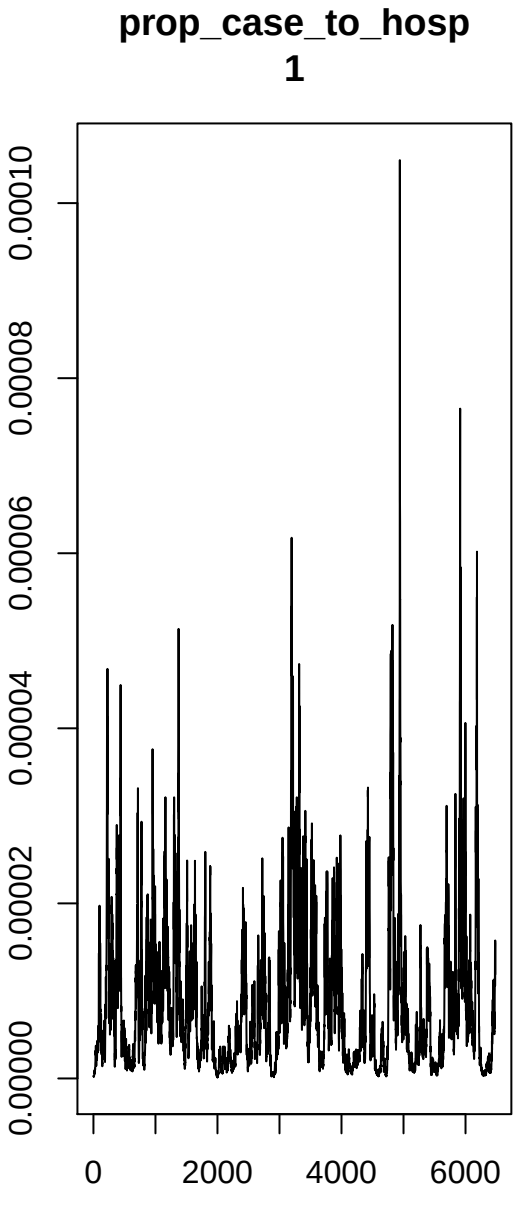

contact_parameters
4
1.0
0.8
0.6
0.4
0.2
0.0
−0.5
0.5
1.5
N = 6480 Bandwidth = 0.07135

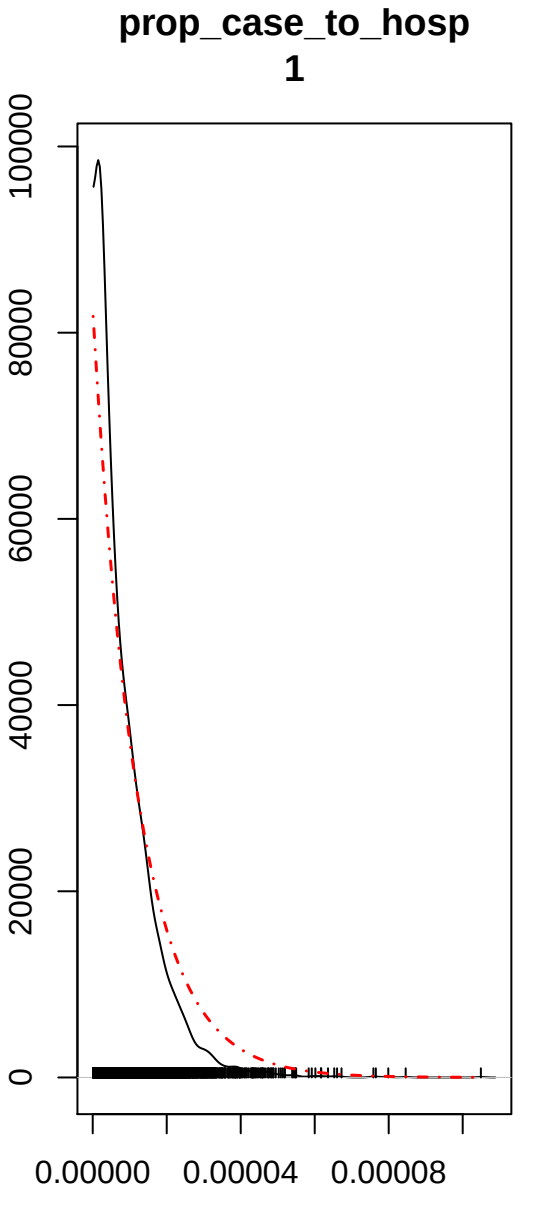

exponential_growth_rate
1
0.25
0.20
0.15
0.10
0
2000
4000
6000
Iterations

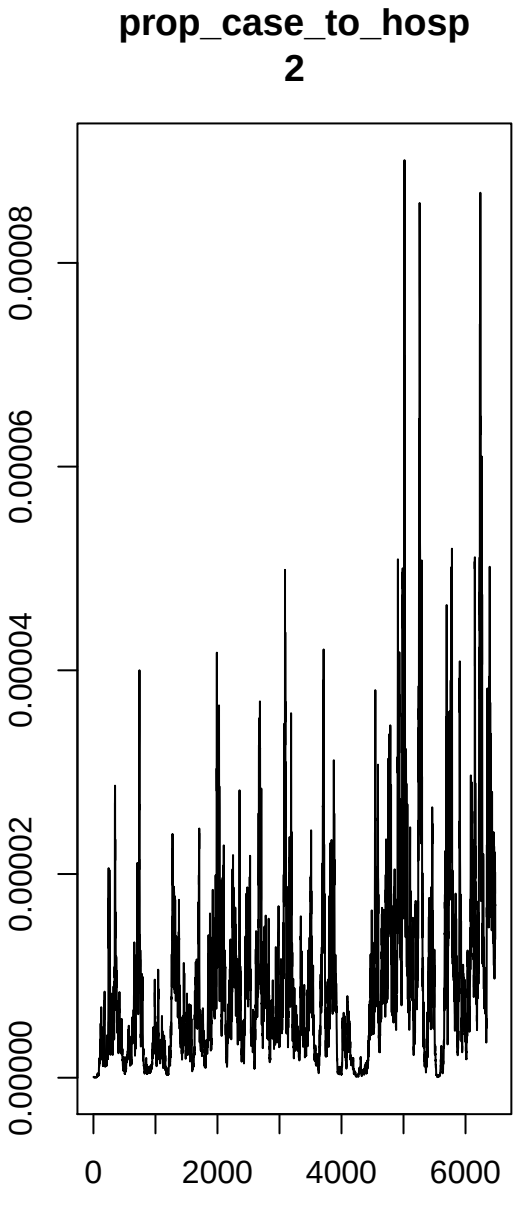

exponential_growth_rate
1
14
12
10
8
6
4
2
0
0.10
0.15
0.20
0.25
N = 6480 Bandwidth = 0.005199

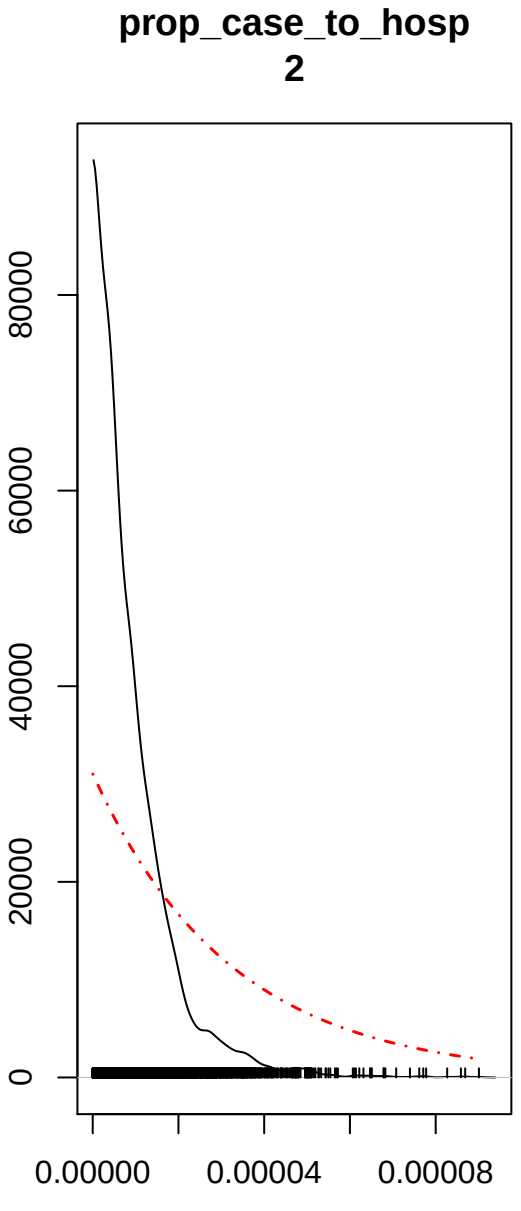

log_p_lambda_0
1
−15
−16
−17
−18
−19
0
2000
4000
6000
Iterations

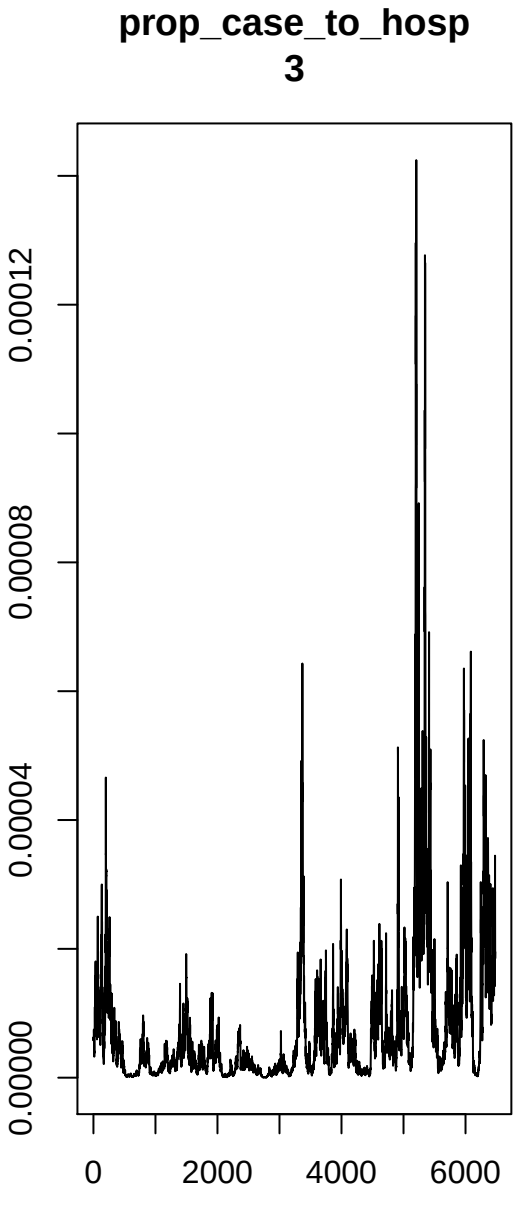

log_p_lambda_0
1
0.4
0.3
0.2
0.1
0.0
−19
−17
−15
N = 6480 Bandwidth = 0.148

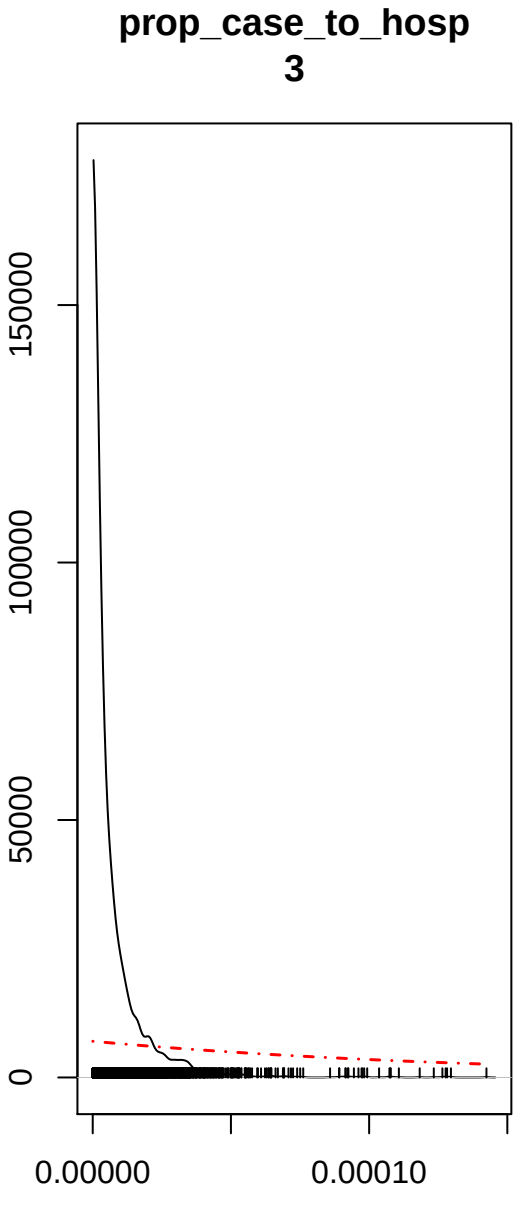

prop_case_to_hosp
1
0.00000
0.00002
0.00004
0.00006
0.00008
0.00010
0
2000
4000
6000
Iterations

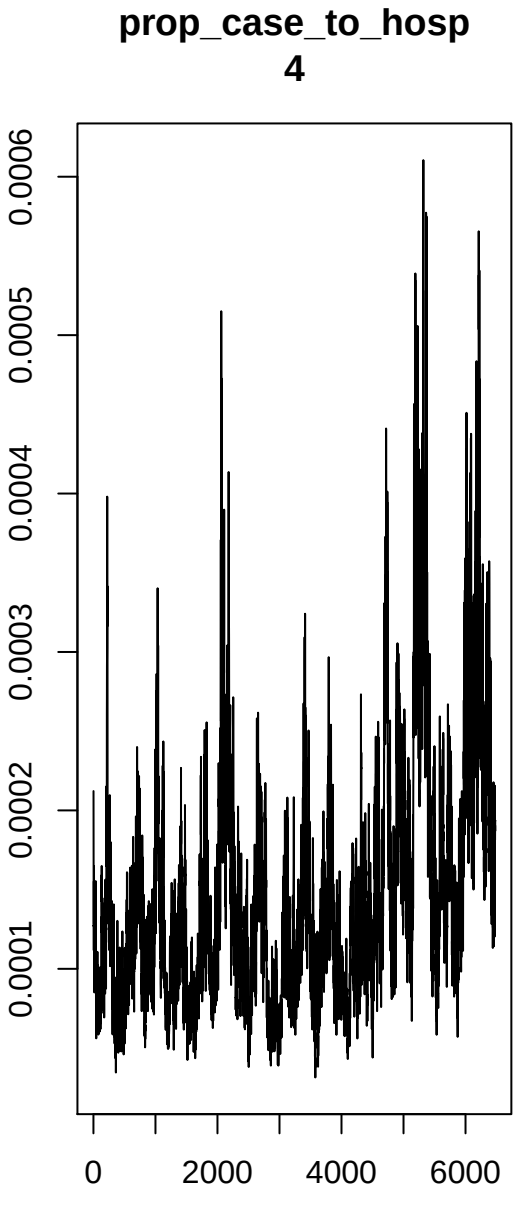

prop_case_to_hosp
1
0
20000
40000
60000
80000
100000
0.00000
0.00004
0.00008
N = 6480 Bandwidth = 1.299e−06

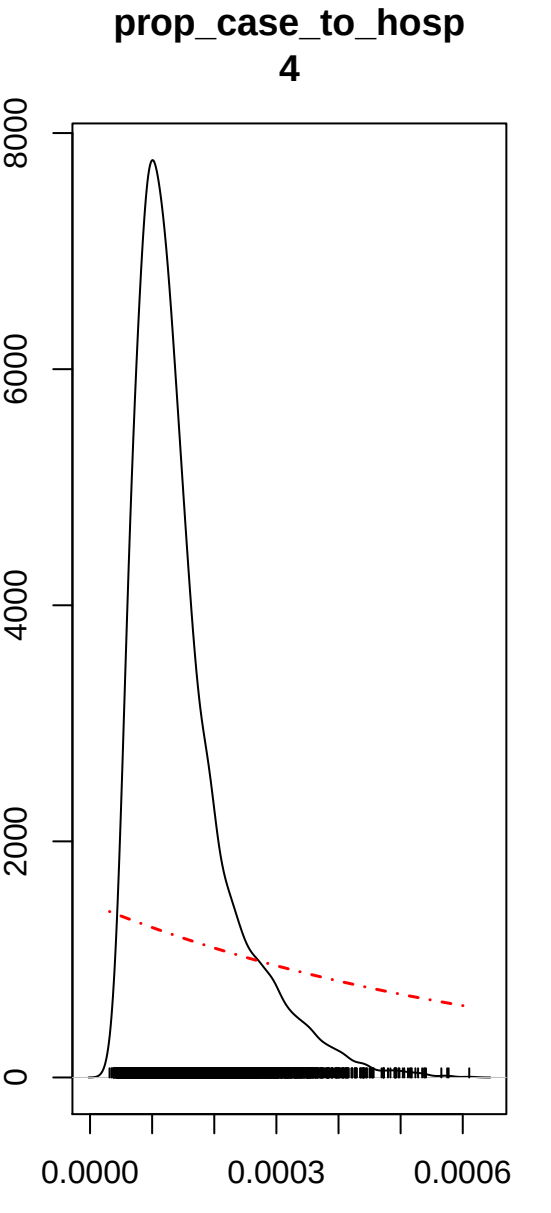

prop_case_to_hosp
2
0.00000
0.00002
0.00004
0.00006
0.00008
0
2000
4000
6000
Iterations

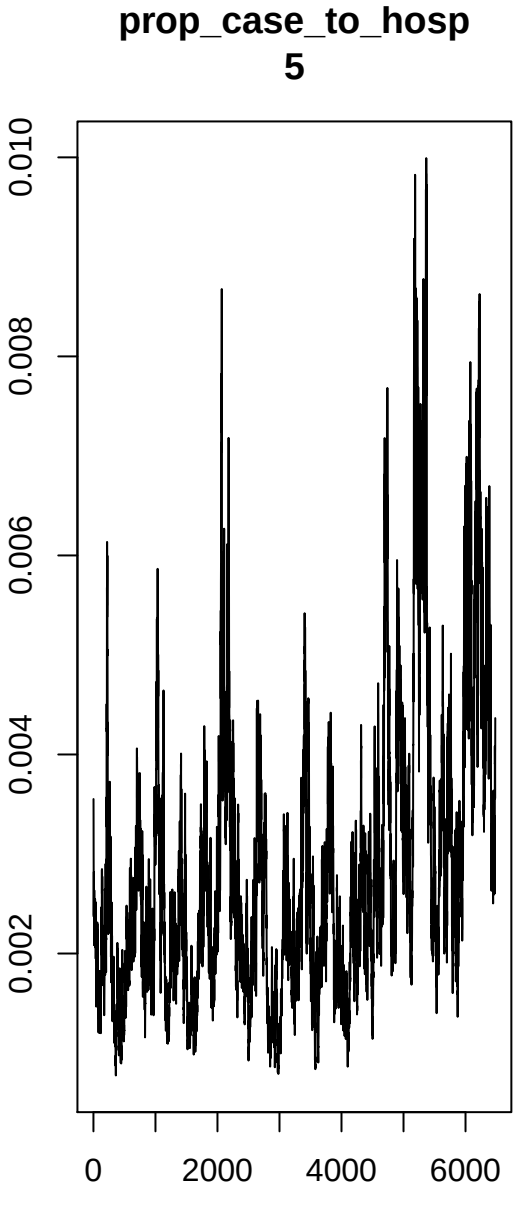

prop_case_to_hosp
2
0
20000
40000
60000
80000
0.00000
0.00004
0.00008
N = 6480 Bandwidth = 1.272e−06

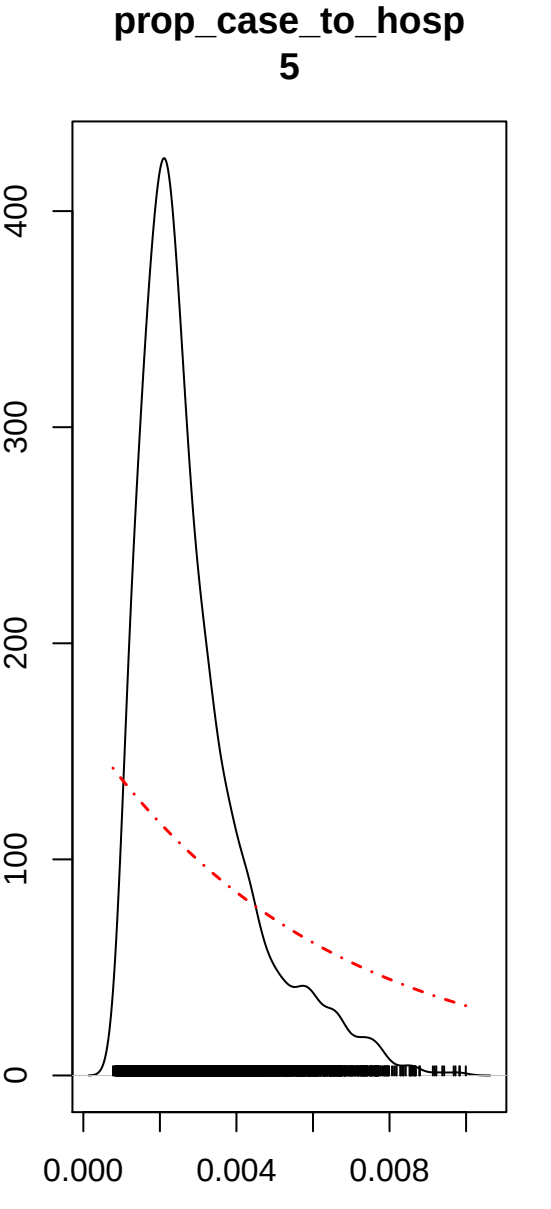

prop_case_to_hosp
3
0.00000
0.00004
0.00008
0.00012
0
2000
4000
6000
Iterations

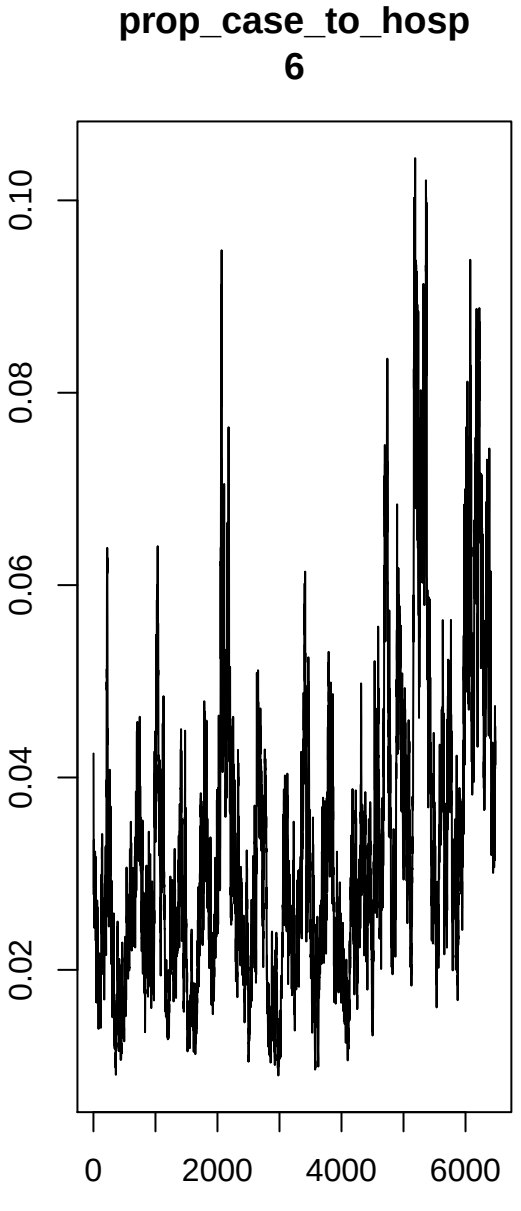

prop_case_to_hosp
3
0
50000
100000
150000
0.00000
0.00010
N = 6480 Bandwidth = 1.066e−06

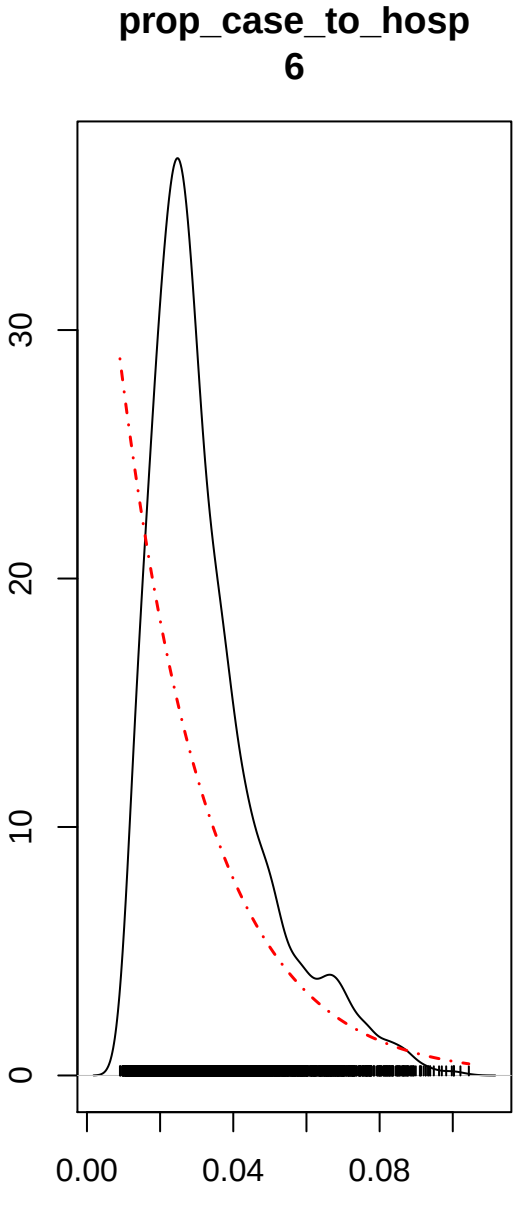

prop_case_to_hosp
4
0.0001
0.0002
0.0003
0.0004
0.0005
0.0006
0
2000
4000
6000
Iterations

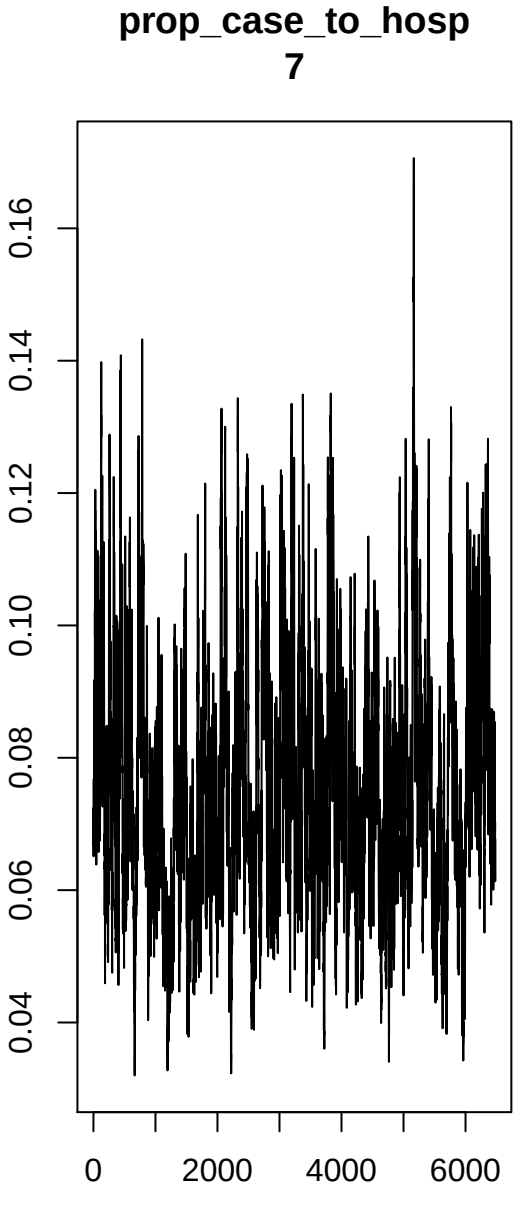

prop_case_to_hosp
4
0
2000
4000
6000
8000
0.0000
0.0003
0.0006
N = 6480 Bandwidth = 1.129e−05

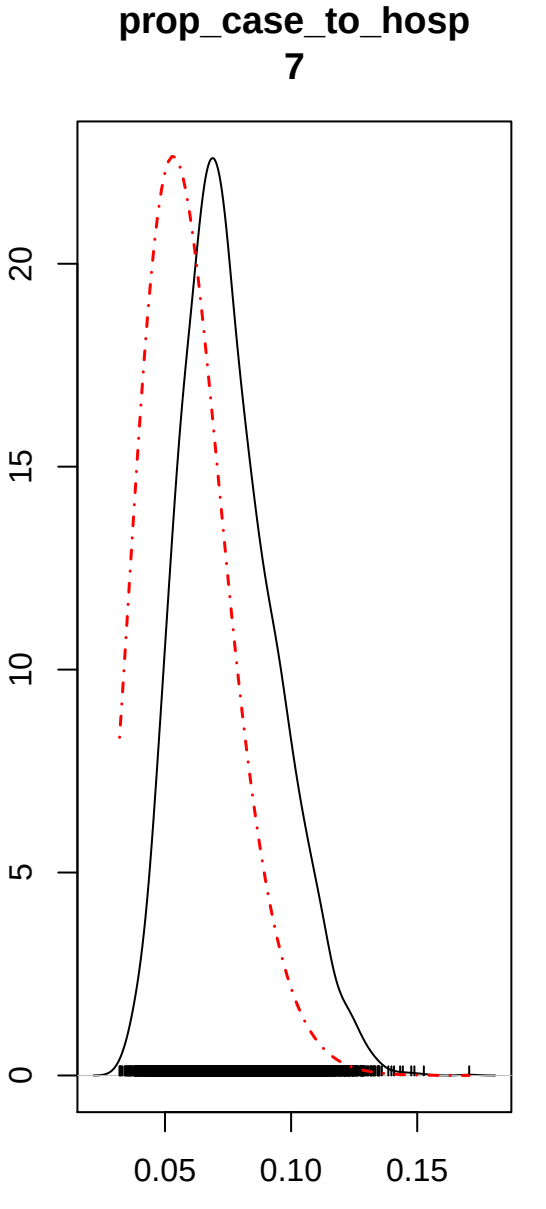

prop_case_to_hosp
5
0.010
0.008
0.006
0.004
0.002
0
2000
4000
6000
Iterations

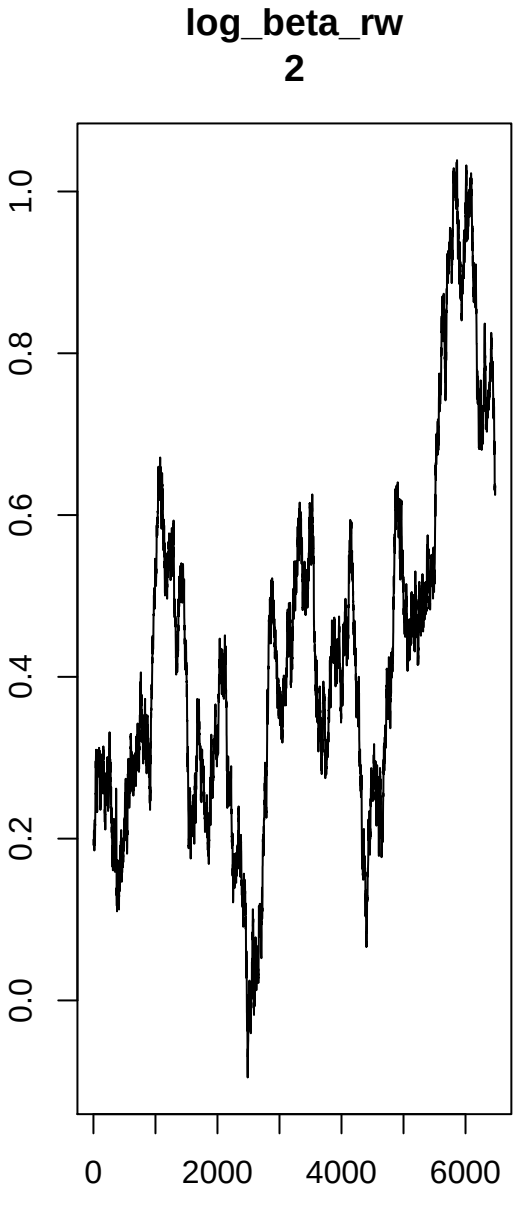

prop_case_to_hosp
5
400
300
200
100
0
0.000
0.004
0.008
N = 6480 Bandwidth = 0.0002133

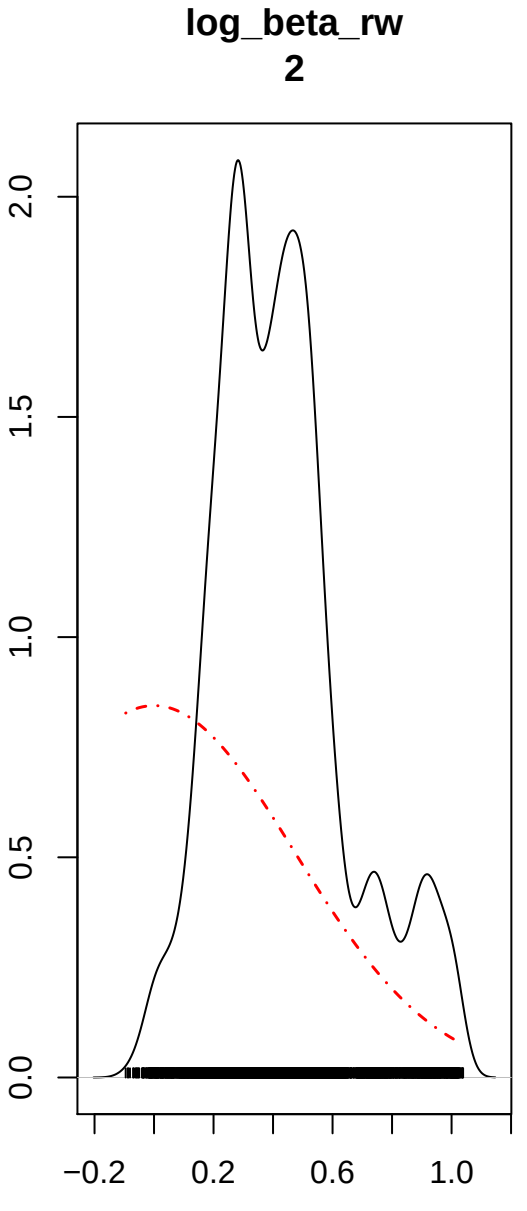

prop_case_to_hosp
6
0.02
0.04
0.06
0.08
0.10
0
2000
4000
6000
Iterations

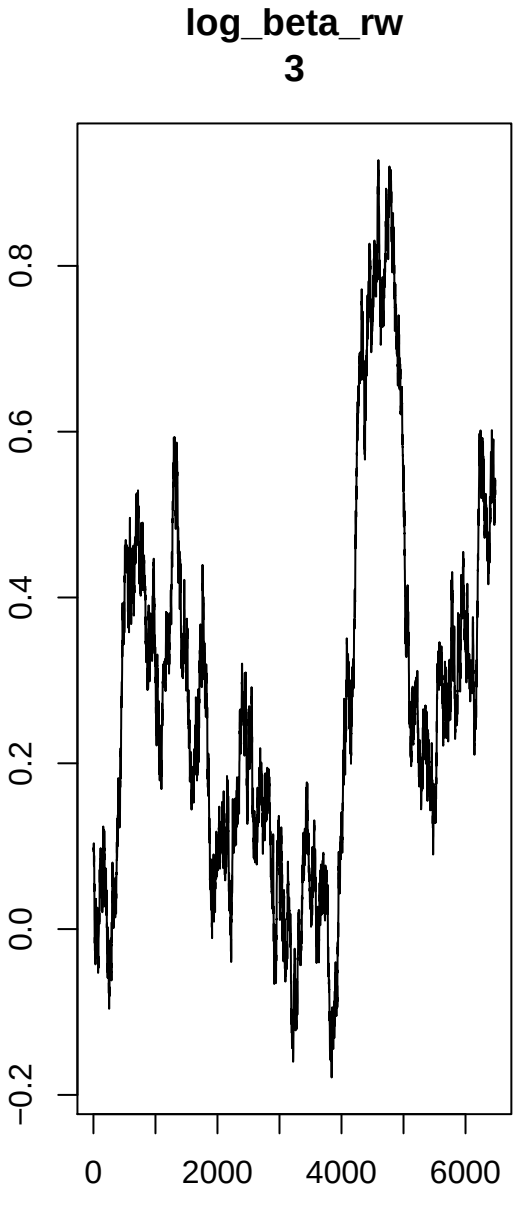

prop_case_to_hosp
6
0
10
20
30
0.00
0.04
0.08
N = 6480 Bandwidth = 0.00241

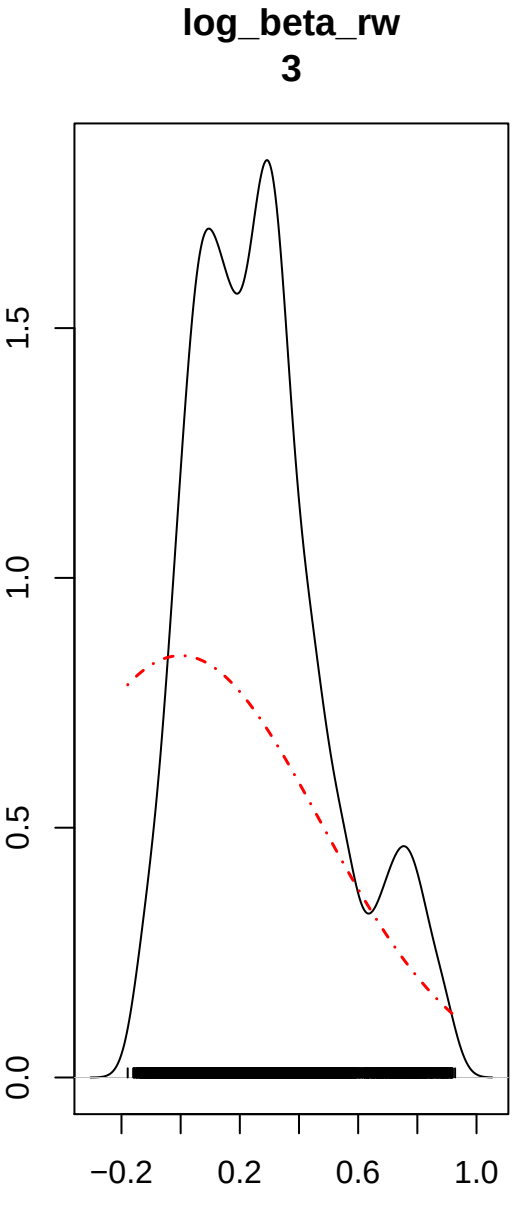

prop_case_to_hosp
7
0.04
0.06
0.08
0.10
0.12
0.14
0.16
0
2000
4000
6000
Iterations

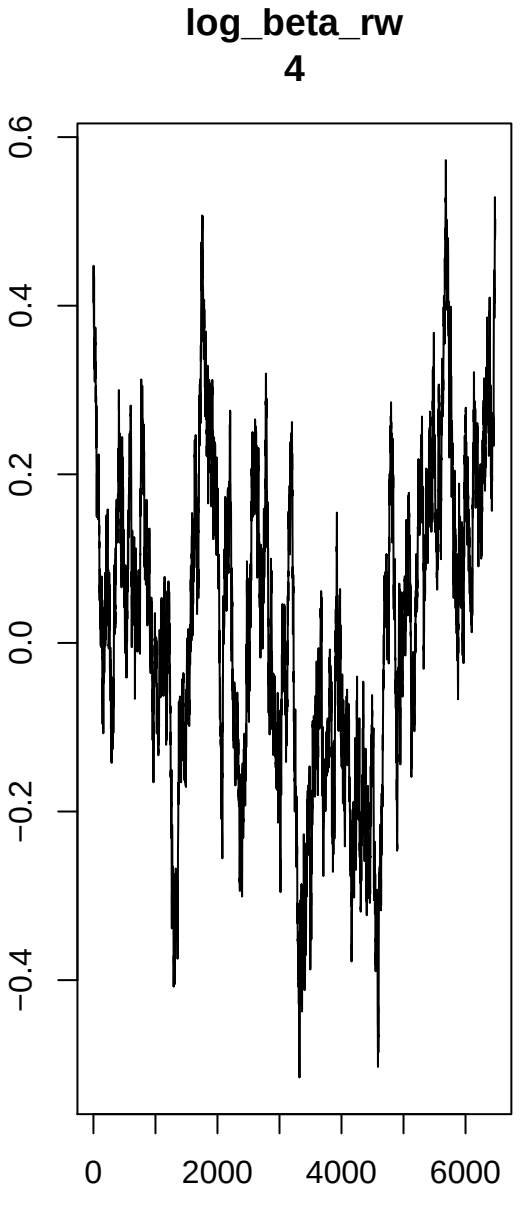

prop_case_to_hosp
7
0
5
10
15
20
0.05
0.10
0.15
N = 6480 Bandwidth = 0.003446

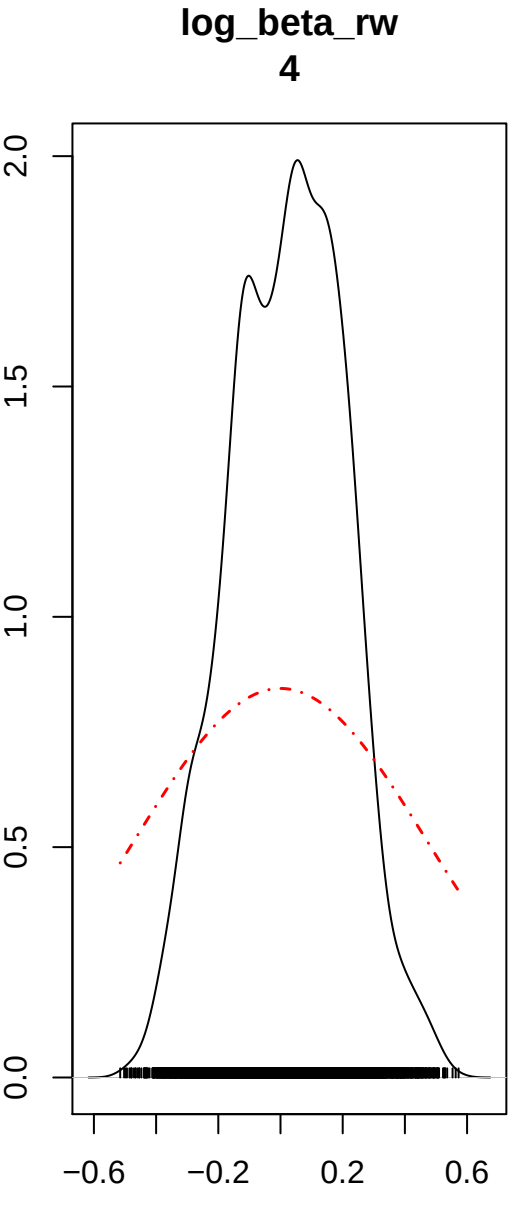

log_beta_rw
2
1.0
0.8
0.6
0.4
0.2
0.0
0
2000
4000
6000
Iterations

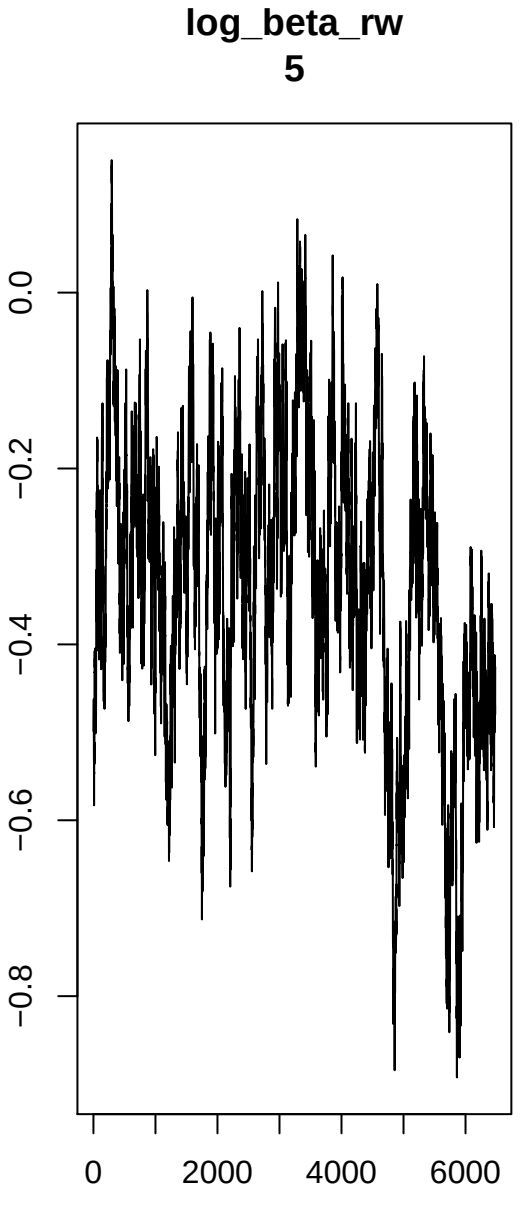

log_beta_rw
2
2.0
1.5
1.0
0.5
0.0
−0.2
0.2
0.6
1.0
N = 6480 Bandwidth = 0.03606

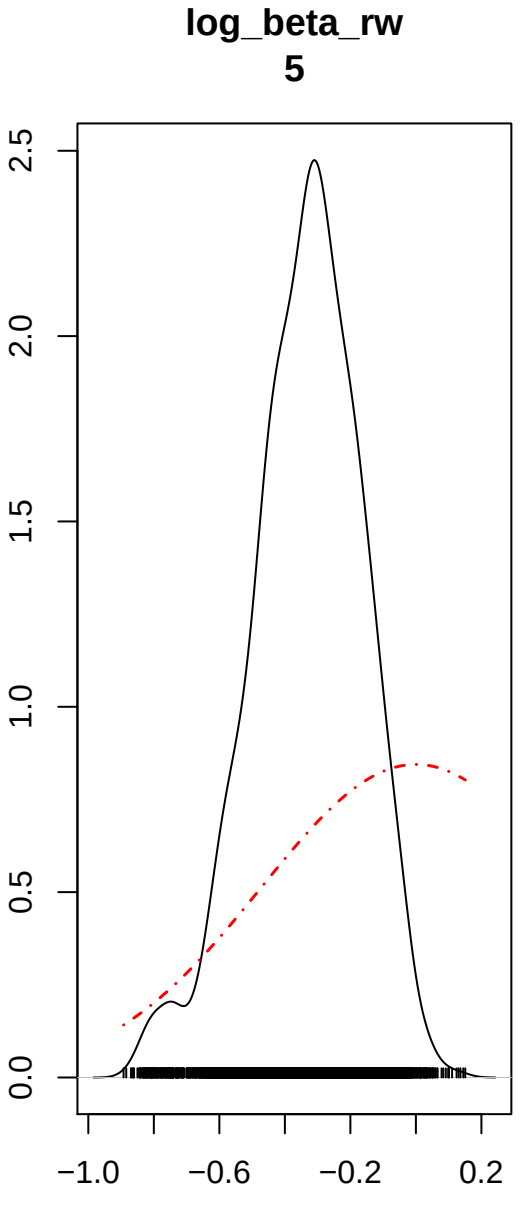

log_beta_rw
3
0.8
0.6
0.4
0.2
0.0
−0.2
0
2000
4000
6000
Iterations

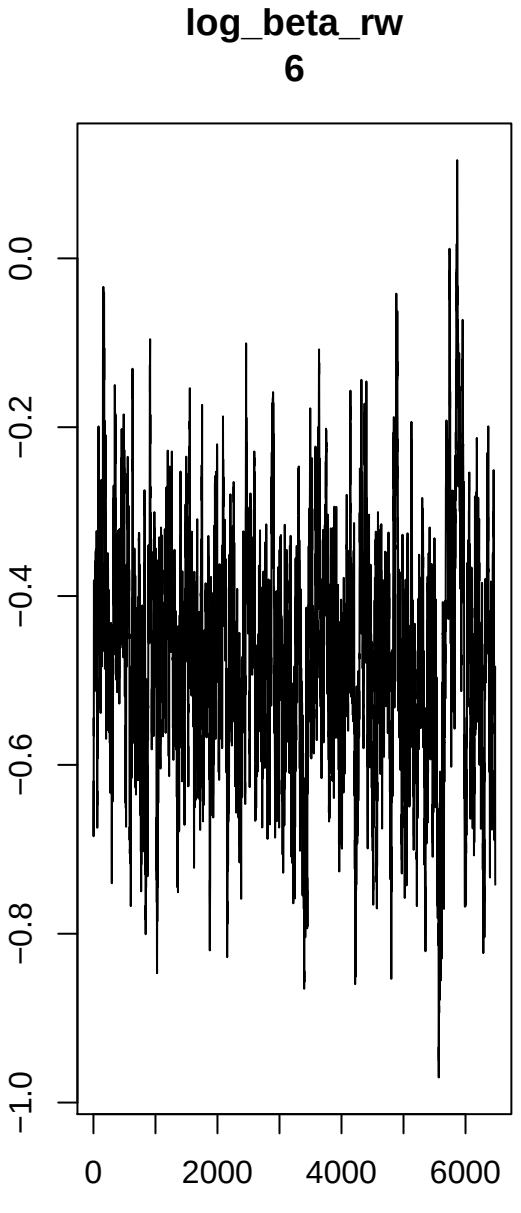

log_beta_rw
3
1.5
1.0
0.5
0.0
−0.2
0.2
0.6
1.0
N = 6480 Bandwidth = 0.0419

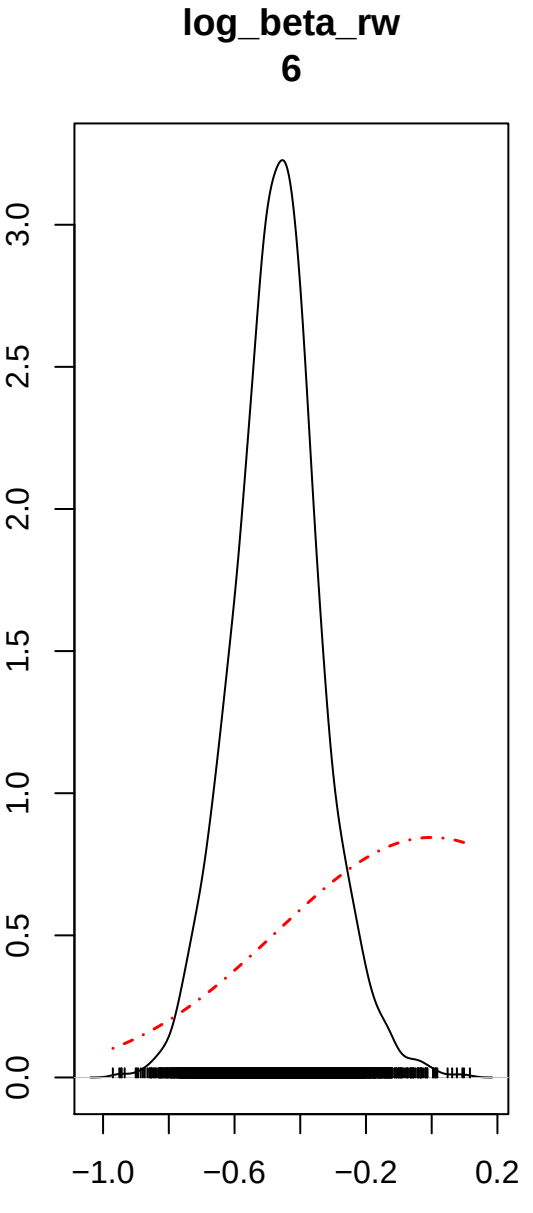

log_beta_rw
4
0.6
0.4
0.2
0.0
−0.2
−0.4
0
2000
4000
6000
Iterations

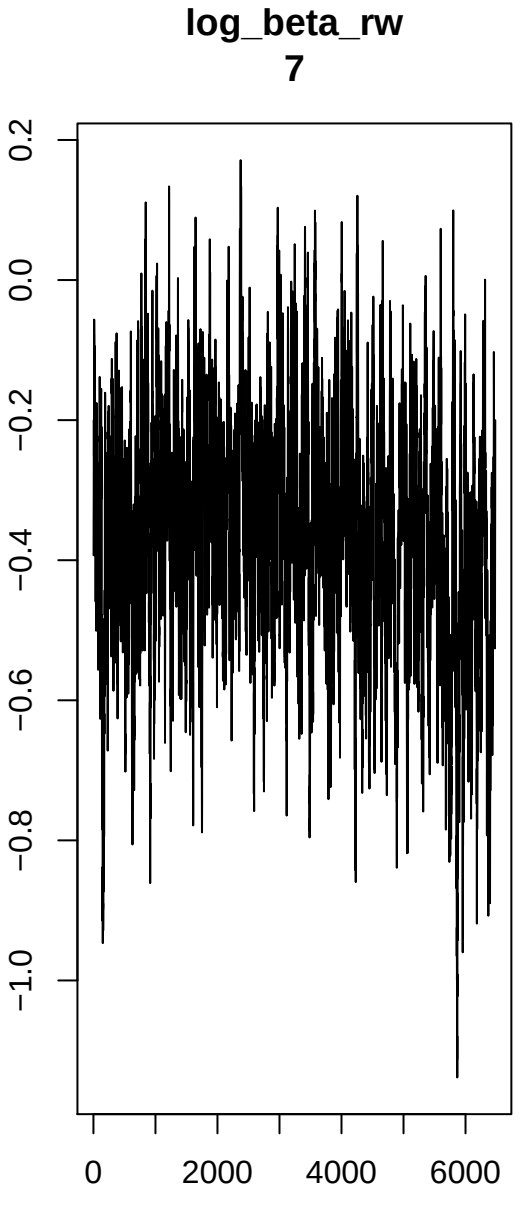

log_beta_rw
4
2.0
1.5
1.0
0.5
0.0
−0.6
−0.2
0.2
0.6
N = 6480 Bandwidth = 0.03398

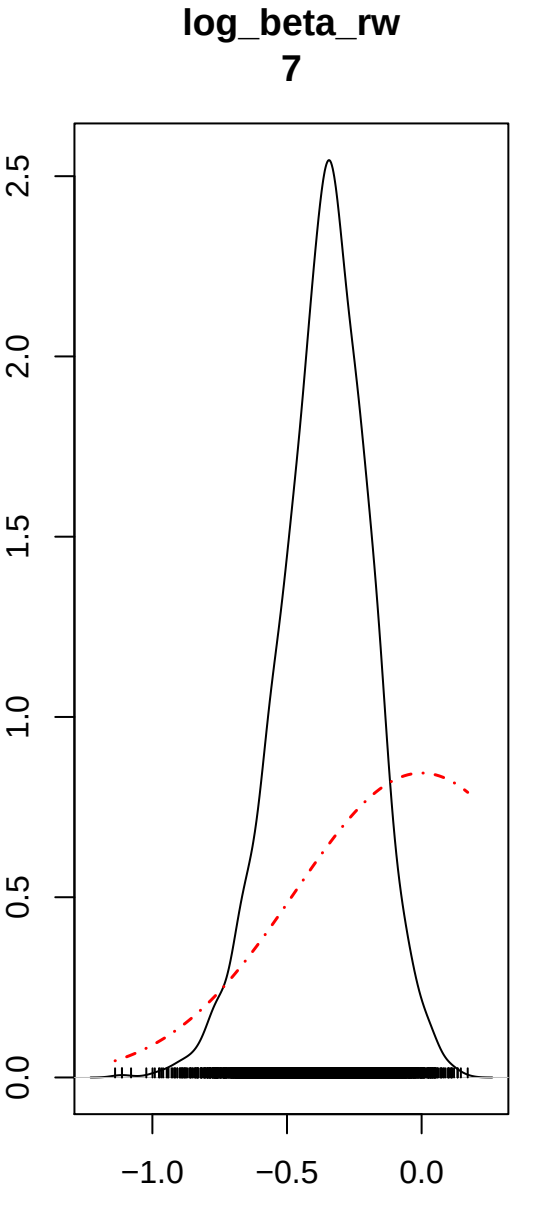

log_beta_rw
5
0.0
−0.2
−0.4
−0.6
−0.8
0
2000
4000
6000
Iterations

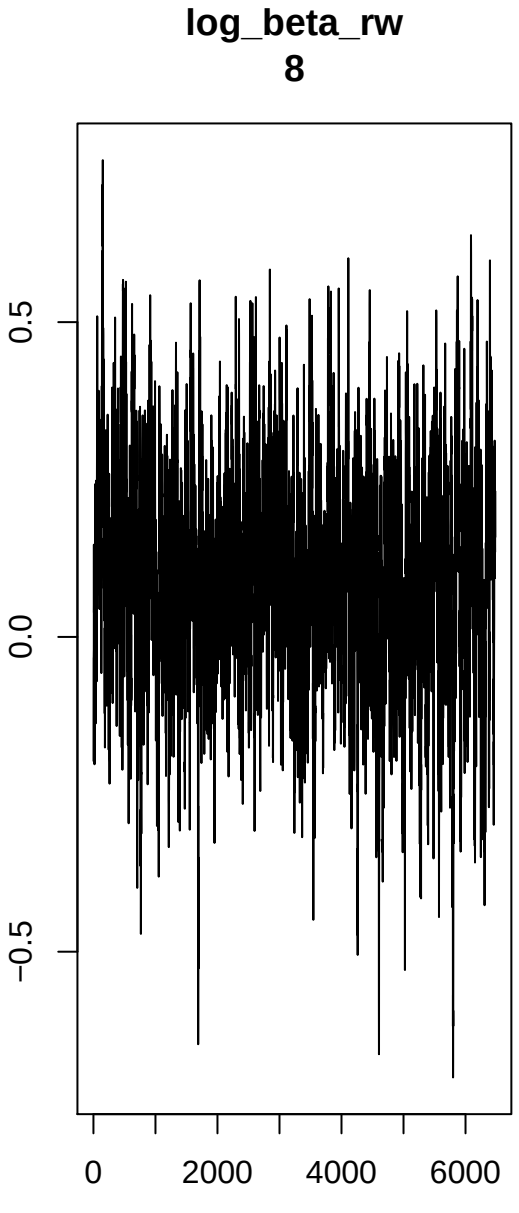

log_beta_rw
5
2.5
2.0
1.5
1.0
0.5
0.0
−1.0
−0.6
−0.2
0.2
N = 6480 Bandwidth = 0.03057

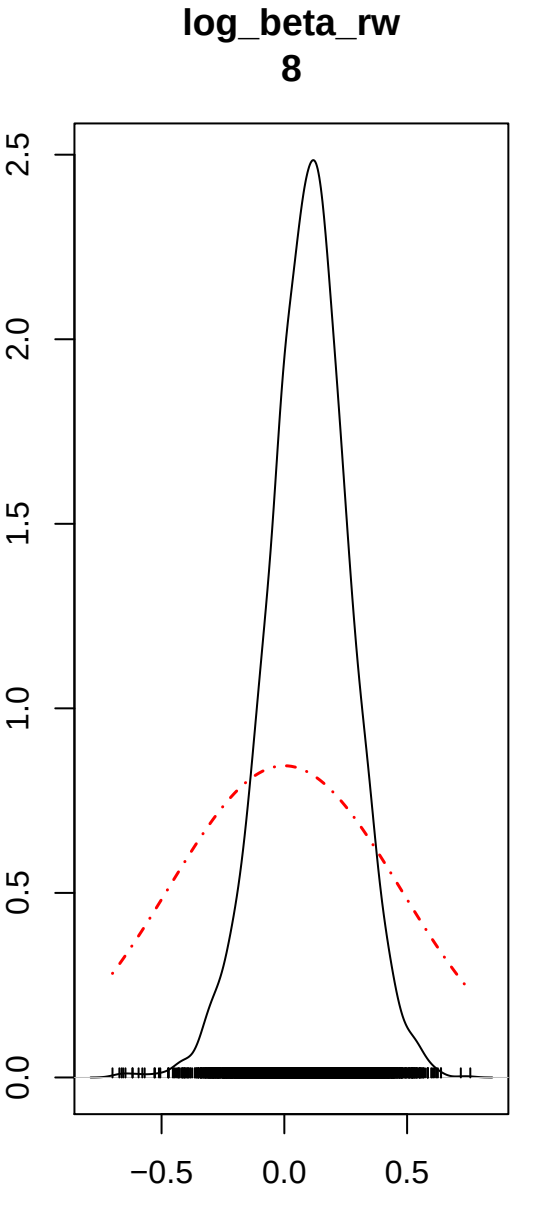

log_beta_rw
6
0.0
−0.2
−0.4
−0.6
−0.8
−1.0
0
2000
4000
6000
Iterations

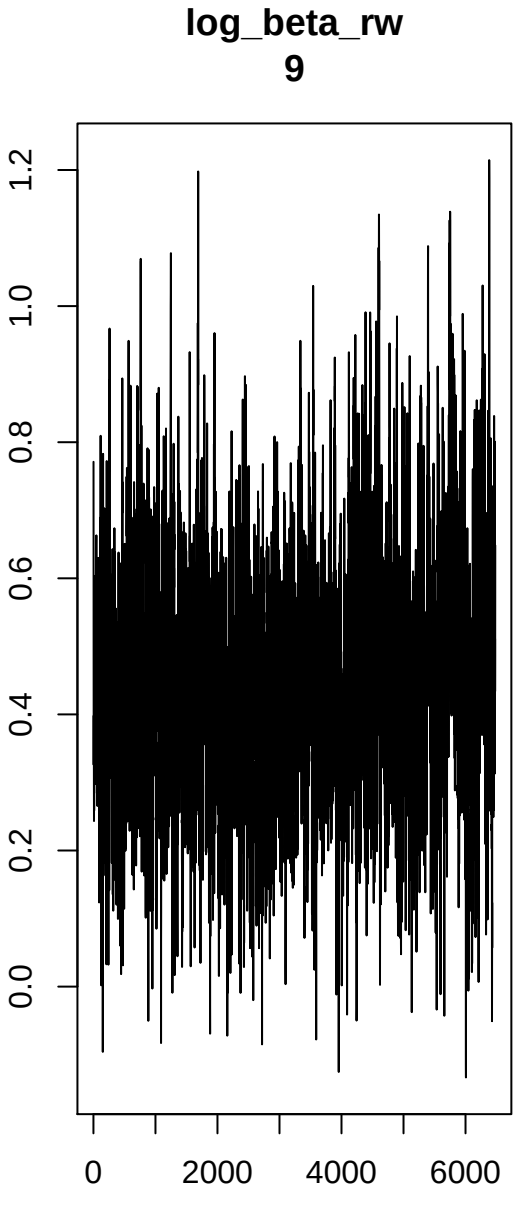

log_beta_rw
6
3.0
2.5
2.0
1.5
1.0
0.5
0.0
−1.0
−0.6
−0.2
0.2
N = 6480 Bandwidth = 0.02267

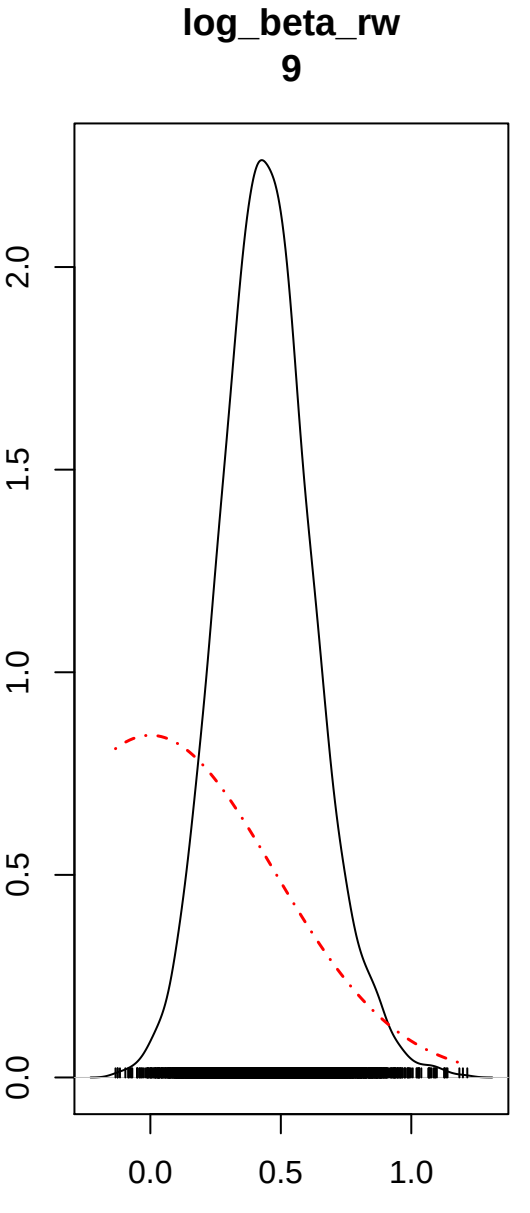

log_beta_rw
7
0.2
0.0
−0.2
−0.4
−0.6
−0.8
−1.0
0
2000
4000
6000
Iterations

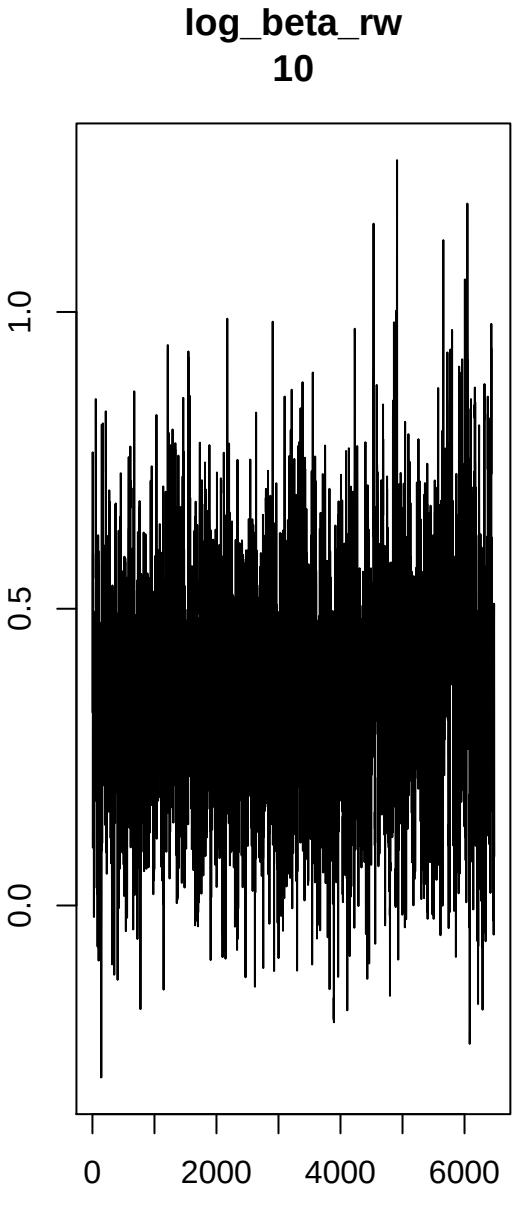

log_beta_rw
7
2.5
2.0
1.5
1.0
0.5
0.0
−1.0
−0.5
0.0
N = 6480 Bandwidth = 0.03043

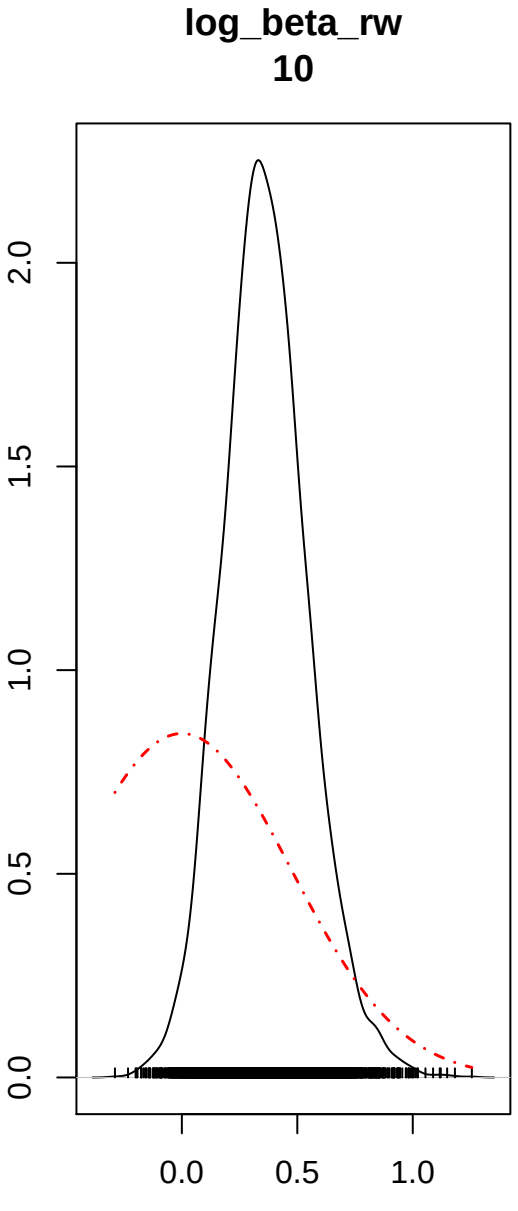

log_beta_rw
8
0.5
0.0
−0.5
0
2000
4000
6000
Iterations

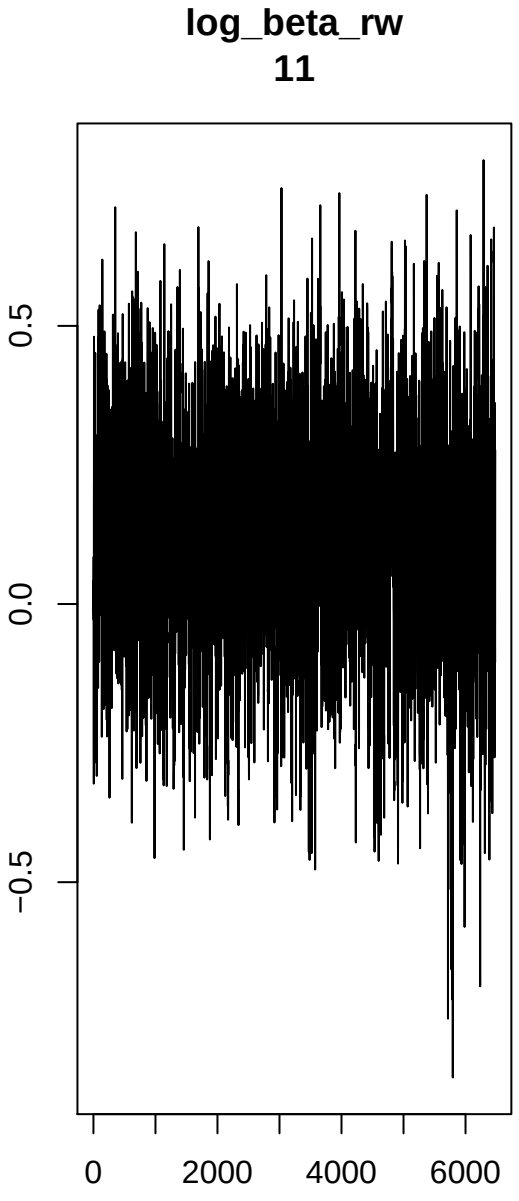

log_beta_rw
8
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
0.0
0.5
N = 6480 Bandwidth = 0.02985

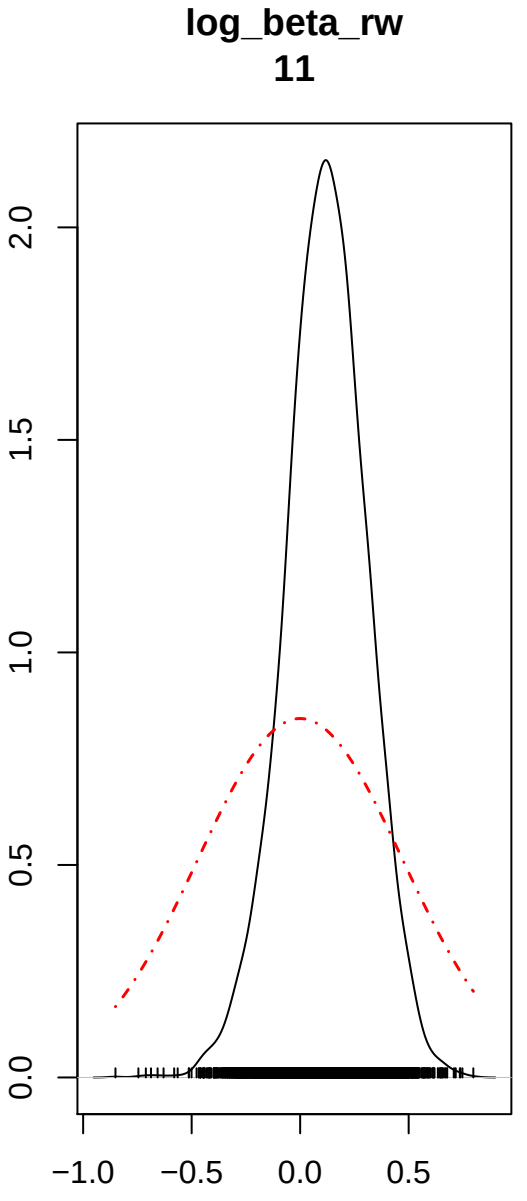

log_beta_rw
9
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0
2000
4000
6000
Iterations

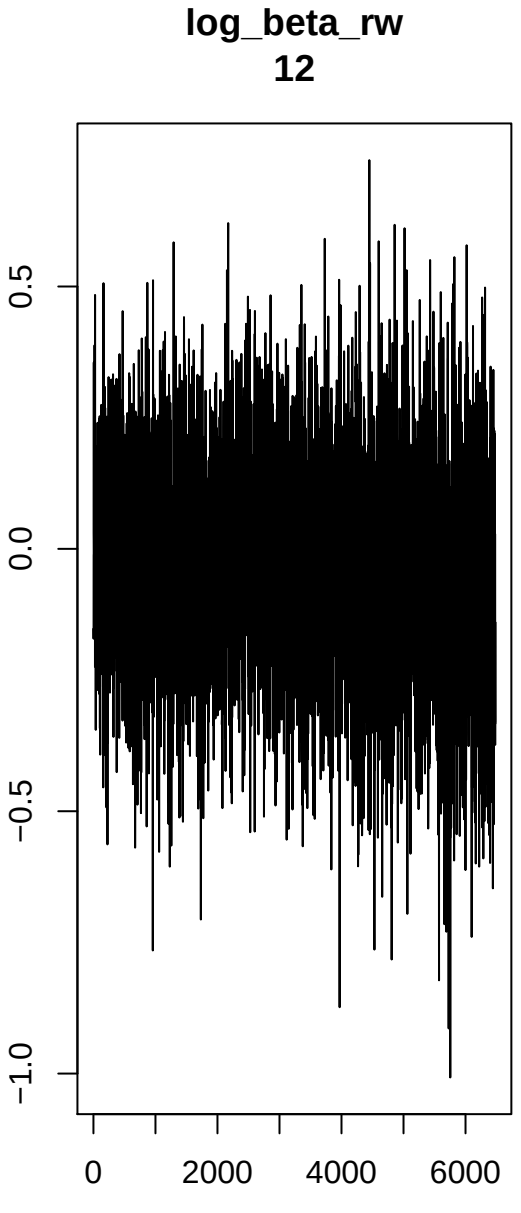

log_beta_rw
9
2.0
1.5
1.0
0.5
0.0
0.0
0.5
1.0
N = 6480 Bandwidth = 0.03194

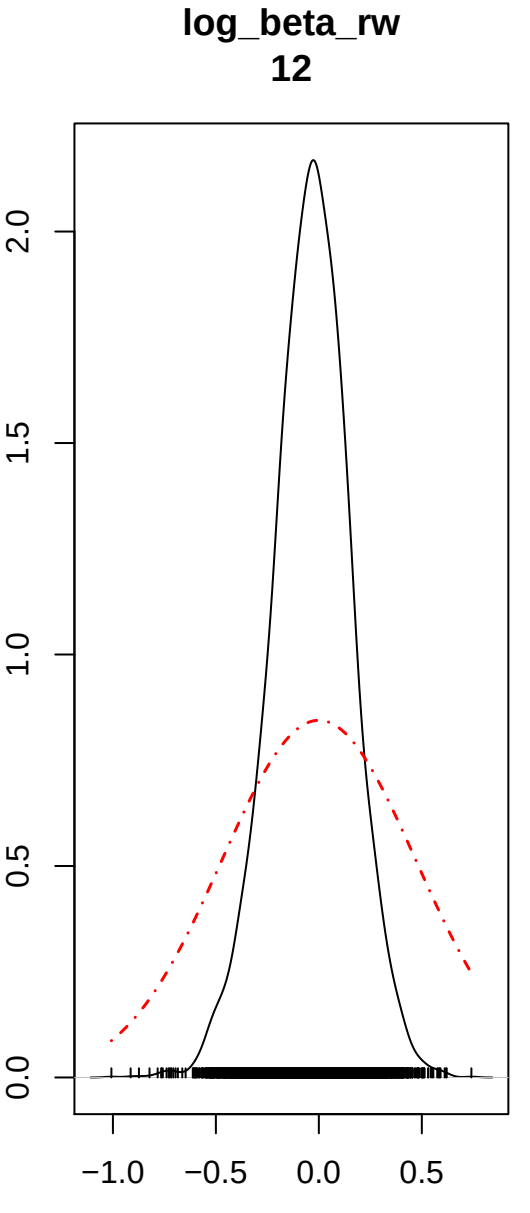

log_beta_rw
10
1.0
0.5
0.0
0
2000
4000
6000
Iterations

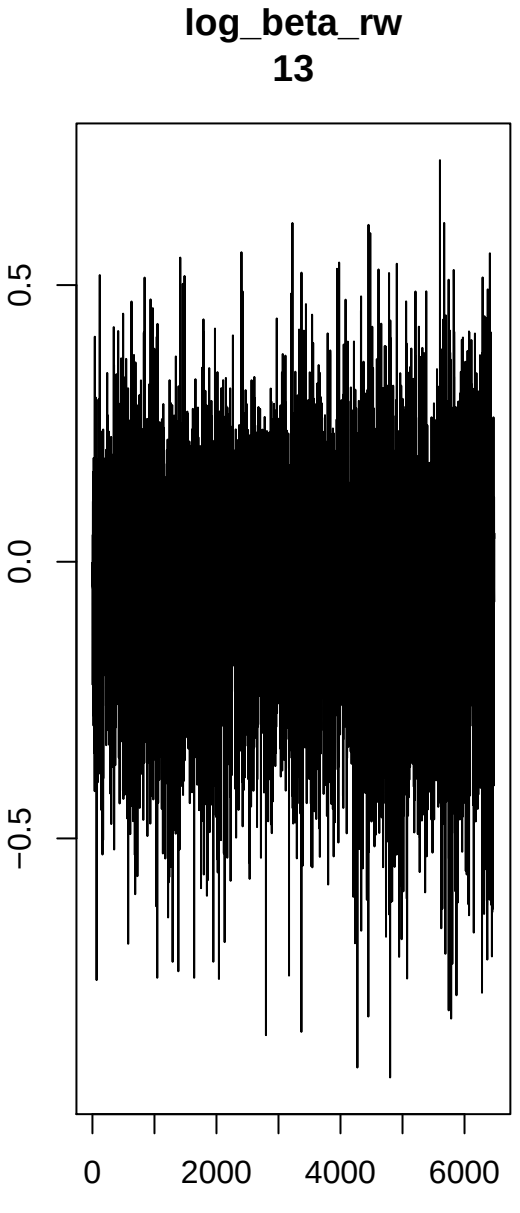

log_beta_rw
10
2.0
1.5
1.0
0.5
0.0
0.0
0.5
1.0
N = 6480 Bandwidth = 0.0324

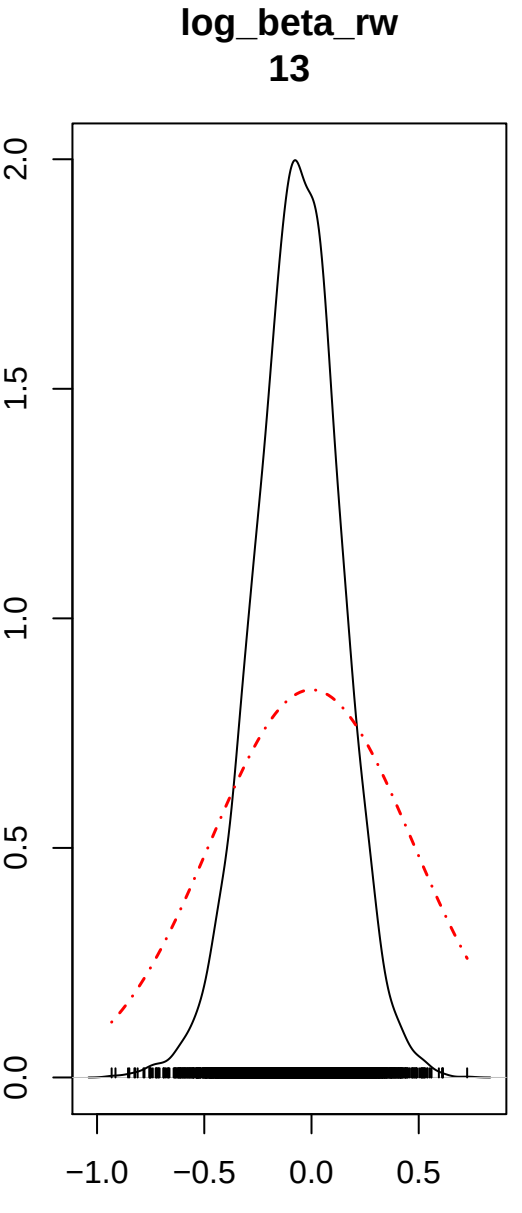

log_beta_rw
11
0.5
0.0
−0.5
0
2000
4000
6000
Iterations

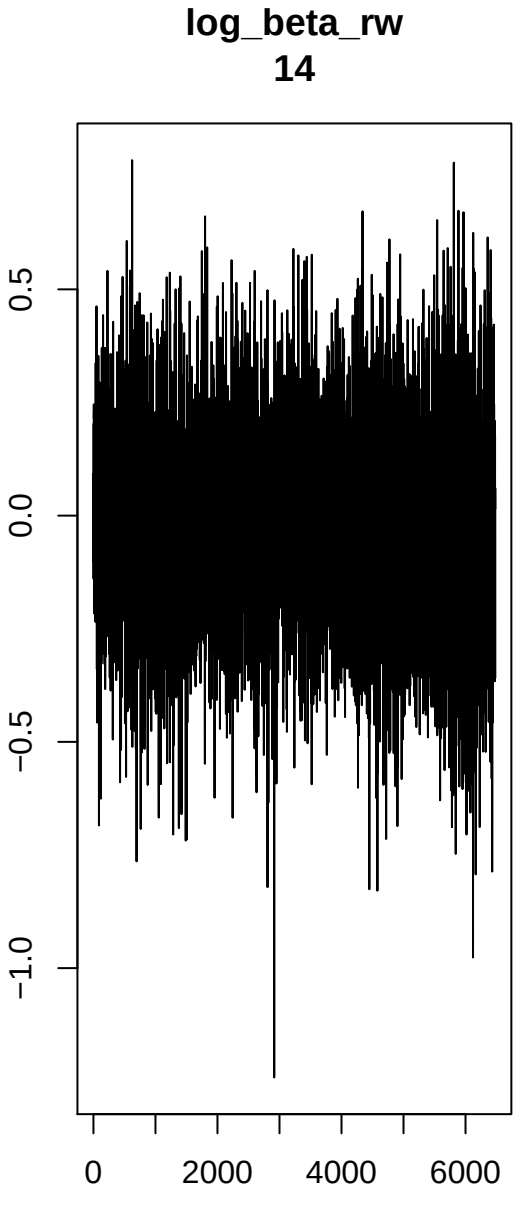

log_beta_rw
11
2.0
1.5
1.0
0.5
0.0
−1.0
−0.5
0.0
0.5
N = 6480 Bandwidth = 0.03371

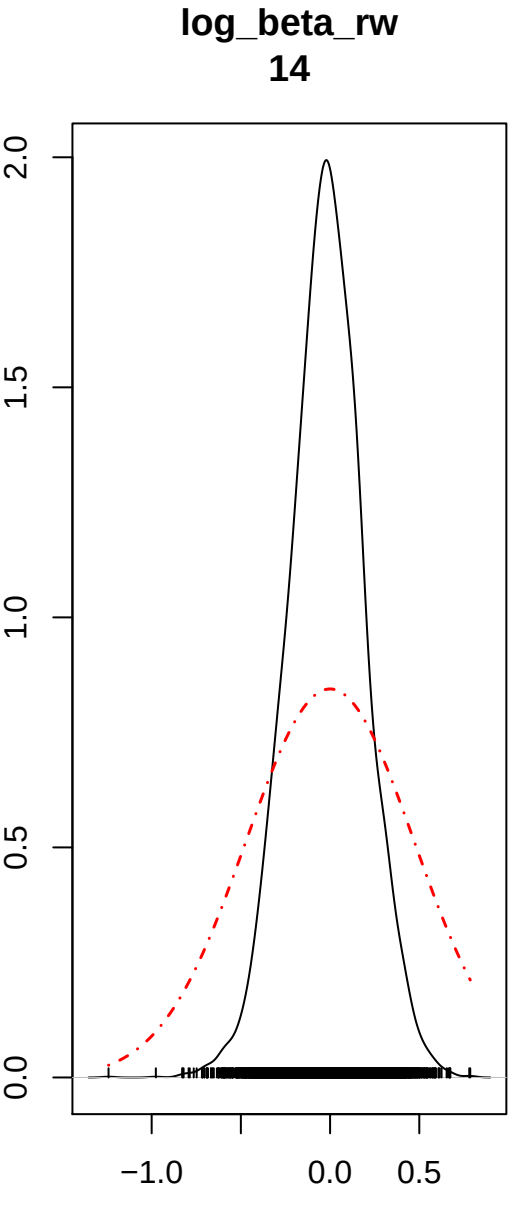

log_beta_rw
12
0.5
0.0
−0.5
−1.0
0
2000
4000
6000
Iterations

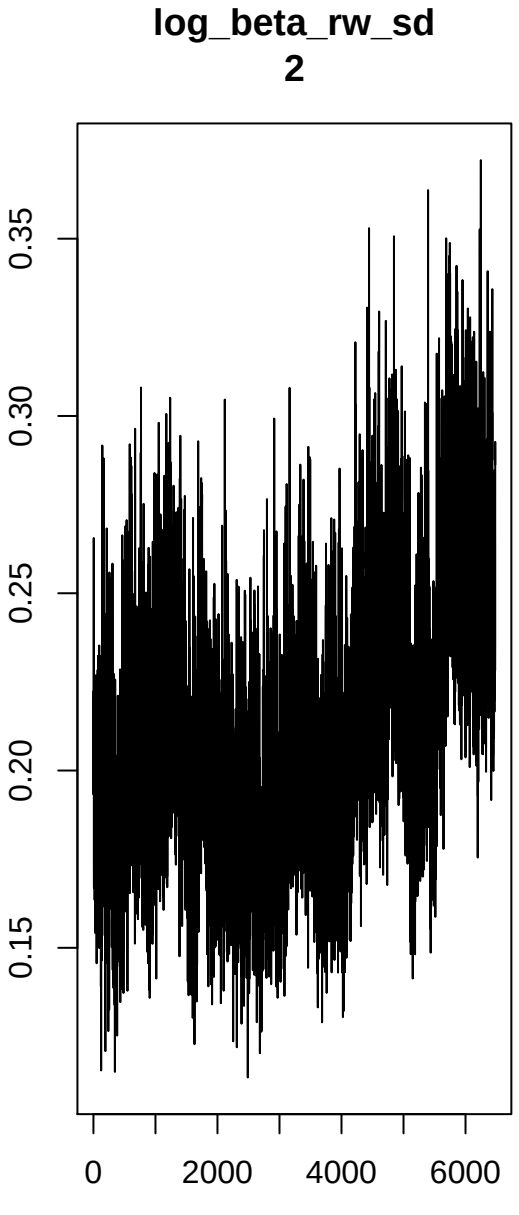

log_beta_rw
12
2.0
1.5
1.0
0.5
0.0
−1.0
−0.5
0.0
0.5
N = 6480 Bandwidth = 0.03379

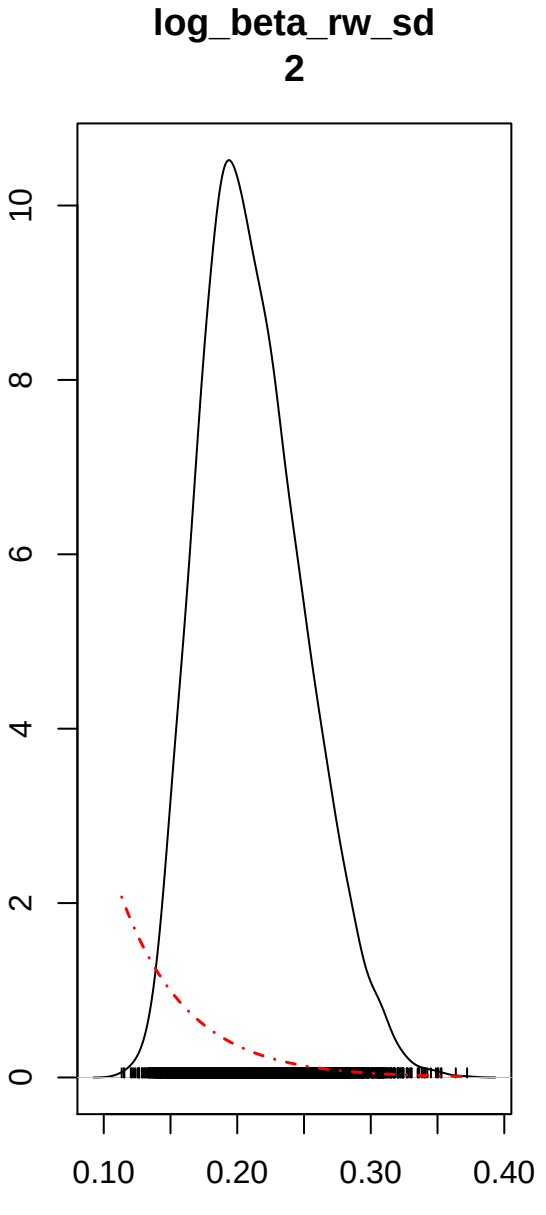

log_beta_rw
13
0.5
0.0
−0.5
0
2000
4000
6000
Iterations

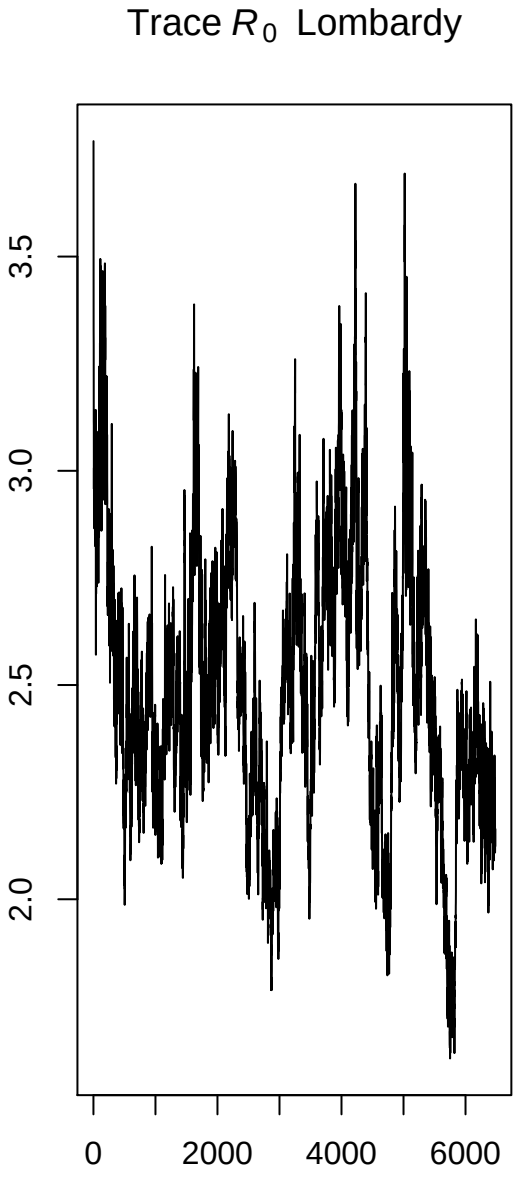

log_beta_rw
13
2.0
1.5
1.0
0.5
0.0
−1.0
−0.5
0.0
0.5
N = 6480 Bandwidth = 0.03595

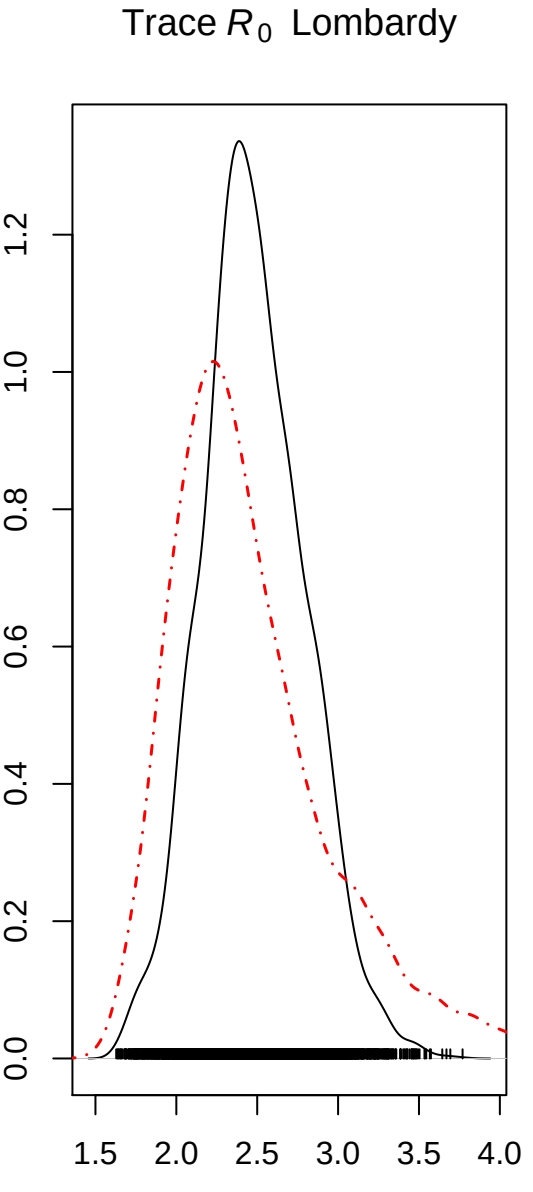

log_beta_rw
14
0.5
0.0
−0.5
−1.0
0
2000
4000
6000
Iterations

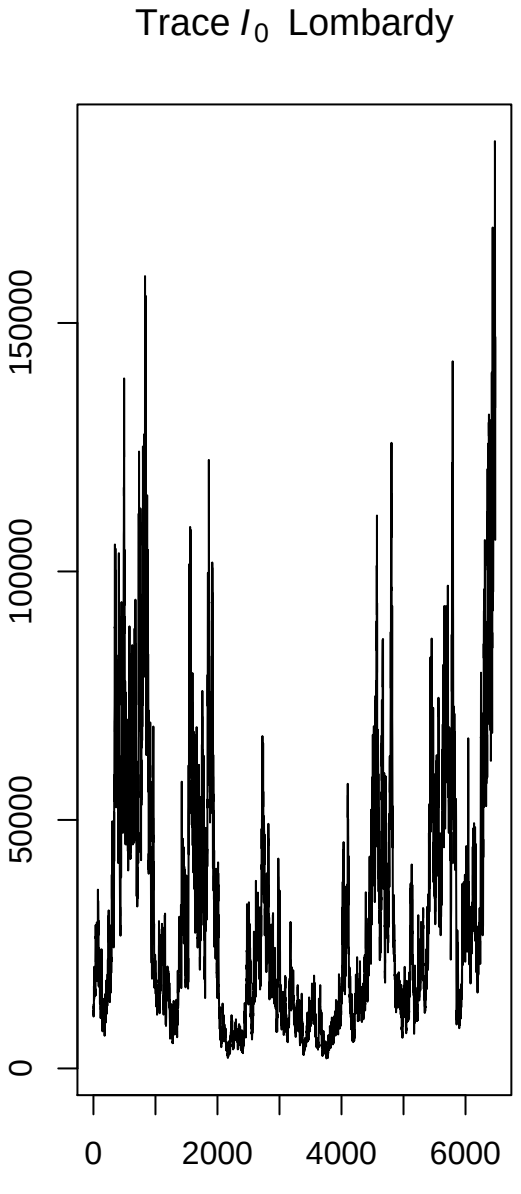

log_beta_rw
14
2.0
1.5
1.0
0.5
0.0
−1.0
0.0
0.5
N = 6480 Bandwidth = 0.03745

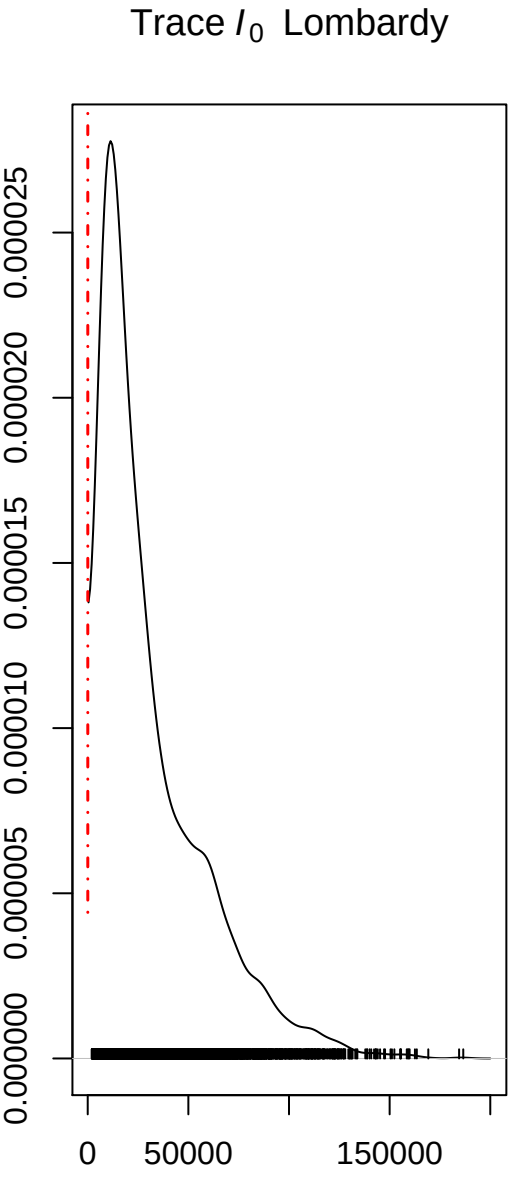

log_beta_rw_sd
2
0.15
0.20
0.25
0.30
0.35
0
2000
4000
6000
Iterations

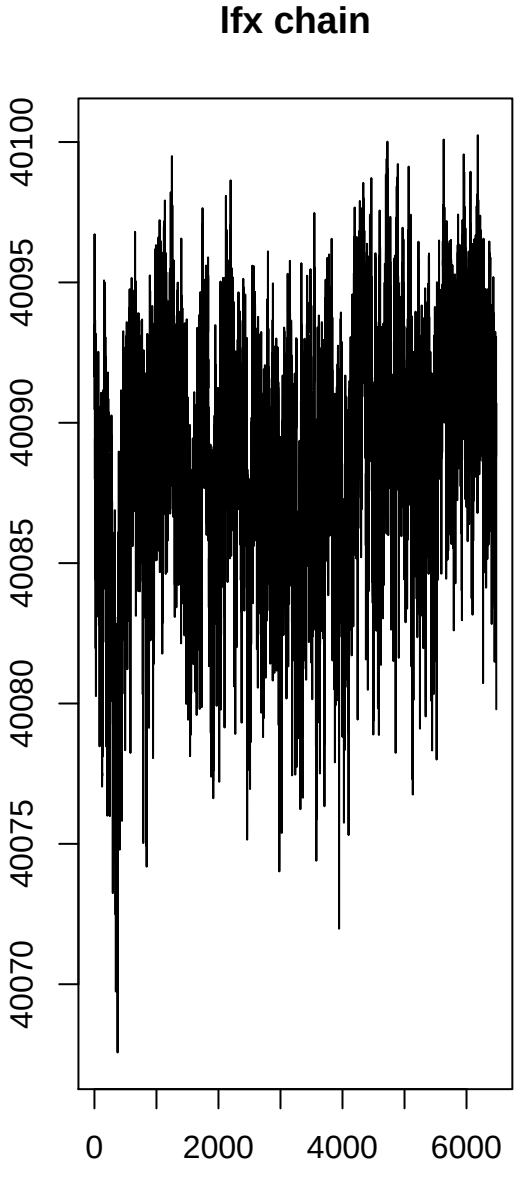

log_beta_rw_sd
2
0
2
4
6
8
10
0.10
0.20
0.30
0.40
N = 6480 Bandwidth = 0.007035

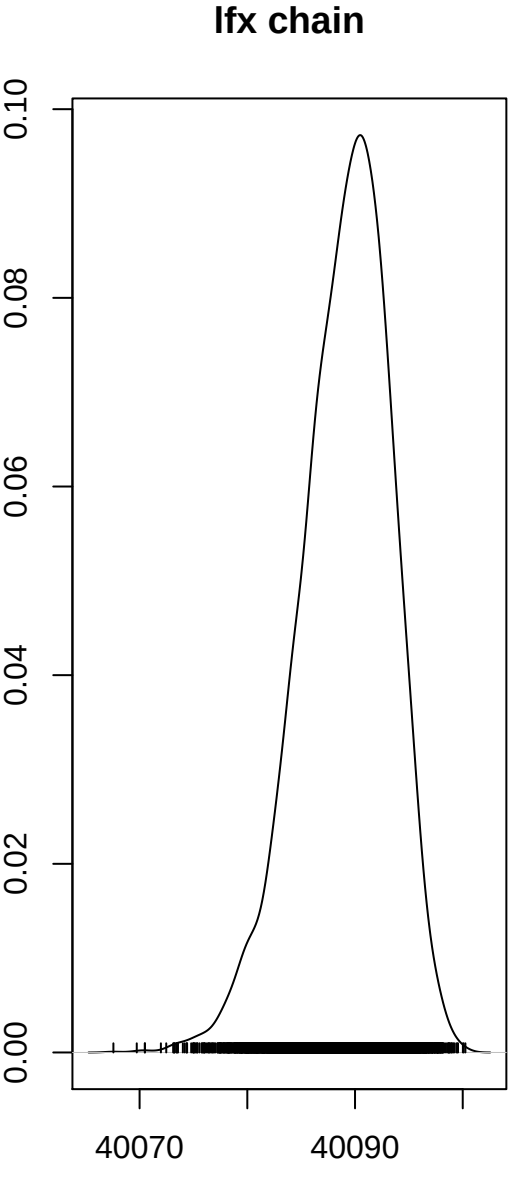

Trace R_0 Lombardy
2.0
2.5
3.0
3.5
0
2000
4000
6000
Iterations


Trace R_0 Lombardy
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.5
2.0
2.5
3.0
3.5
4.0
N = 6480 Bandwidth = 0.05712


Trace I_0 Lombardy
0
50000
100000
150000
0
2000
4000
6000
Iterations


Trace I_0 Lombardy
0.000000
0.000005
0.000010
0.000015
0.000020
0.000025
0
50000
150000
N = 6480 Bandwidth = 4473


lfx chain
40100
40095
40090
40085
40080
40075
40070
0
2000
4000
6000
Iterations


lfx chain
0.10
0.08
0.06
0.04
0.02
0.00
40070
40090
N = 6480 Bandwidth = 0.7702