The MCMC Procedure

Number of Observations Read	414
Number of Observations Used	414

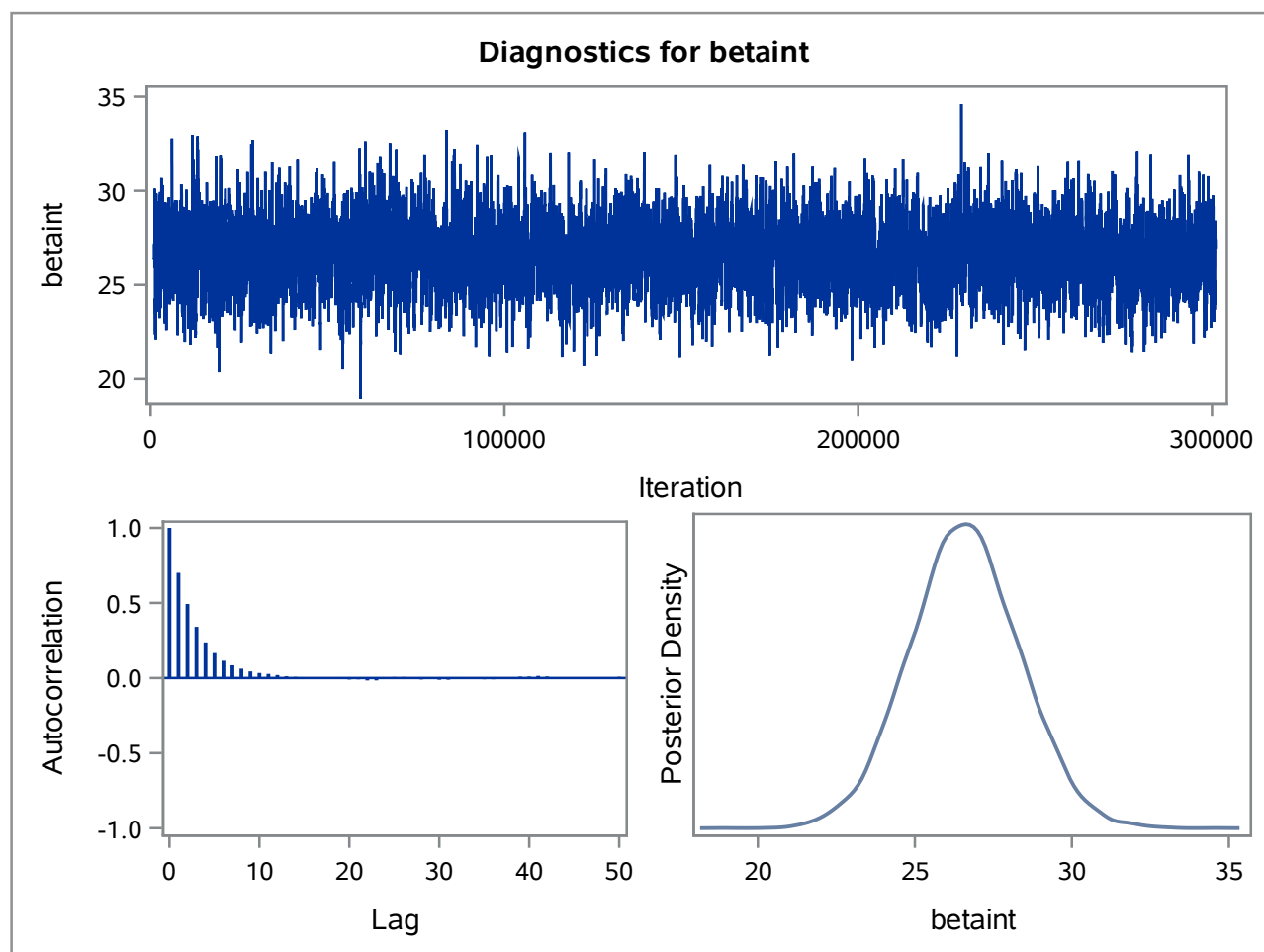| Parameters				
Block	**Parameter**	**Sampling Method**	**Initial Value**	**Prior Distribution**
1	betaint	N-Metropolis	0	normal(mean = 0, var = 1000)
2	betaharddrug	N-Metropolis	0	normal(mean = 0, var = 1000)
3	betabase	N-Metropolis	0	normal(mean = 0, var = 1000)
4	sigma2	Conjugate	1.0000	igamma(shape = 2.001, scale = 1.001)

The MCMC Procedure

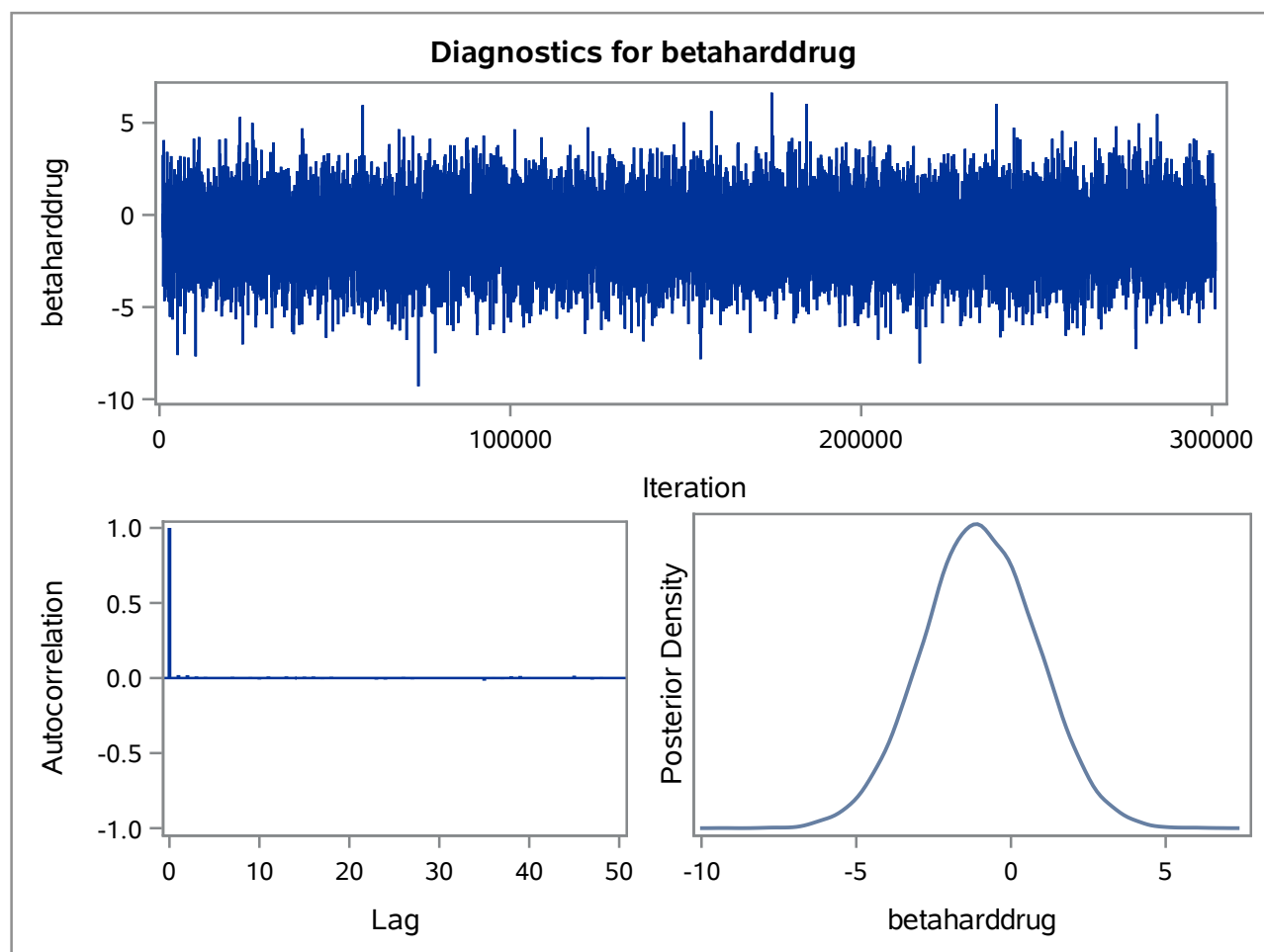| Posterior Summaries and Intervals					
Parameter	N	Mean	Standard Deviation	95% HPD Interval	
betaint	15000	26.5951	1.7499	23.2197	30.0566
betaharddrug	15000	-1.0041	1.8353	-4.6234	2.5043
betabase	15000	-0.5296	0.0367	-0.6030	-0.4603
sigma2	15000	98.8732	6.8421	85.3062	111.9

The MCMC Procedure

Effective Sample Sizes			
Parameter	ESS	Autocorrelation Time	Efficiency
betaint	2643.3	5.6747	0.1762
betaharddrug	13648.6	1.0990	0.9099
betabase	2680.3	5.5965	0.1787
sigma2	15000.0	1.0000	1.0000

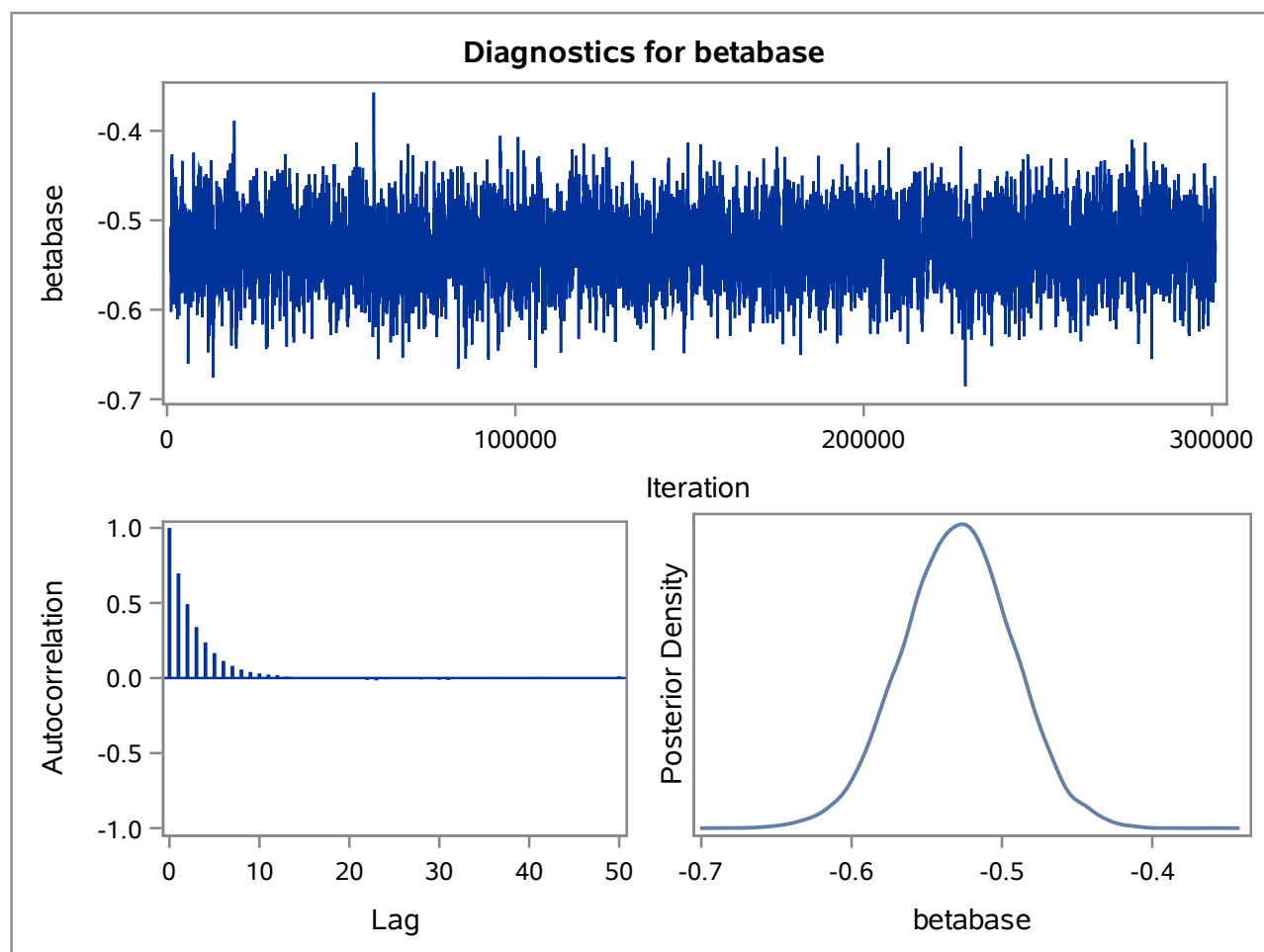| Deviance Information Criterion	
Dbar (posterior mean of deviance)	3079.370
Dmean (deviance evaluated at posterior mean)	3075.404
pD (effective number of parameters)	3.966
DIC (smaller is better)	3083.337

The MCMC Procedure

Diagnostics for betaint

The MCMC Procedure

Diagnostics for betaharddrug

The MCMC Procedure

Diagnostics for betabase

The MCMC Procedure

Diagnostics for sigma2