A BAYES APPROACH FOR ASSESSING DRUG RESISTANCE IN HIV INFECTION USING VIRAL LOAD

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Abstract
We study how to assess drug resistance in HIV-infected individuals treated with antiviral drugs by modeling longitudinal viral load HIV-1 counts in an ACTG study. A segment model and Bayesian framework are proposed. We conduct a fully Bayesian analysis for ACTG 315 study. Our analysis provides a marginal posterior distributions for all population parameters in our model for the study.