

Hierarchical Bayesian Analysis of Longitudinal Case-Control Data

D. Bhadra, M. Ghosh and B. Mukherjee

University of Florida and University of Michigan

USA

Abstract. The paper introduces a general hierarchical Bayesian approach involving penalized splines for the analysis of longitudinal case-control data. The method is illustrated with some real data related to a prostate cancer study. In addition, some simulation results are also presented.