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Mavis Pararai* (pararaim@iup.edu), Mathematics Department, Stright Hall, Room 233, 210 South Tenth Street, Indiana, PA 15705. *Underrecording in Domestic Violence Data Using Count Data Regression Models.*

Underrecording of events is a common problem in count data. This might be due to the nature of the event under consideration. People tend to underrecord the number of abuses they have suffered at the hands of a spouse, number of times they have been convicted of some criminal activity and many other events they think are embarrassing. Domestic violence data is often underrecorded. We compare results obtained from Poisson, Negative Binomial and Generalized Poisson regression models for underrecorded counts using Domestic Violence Data. Estimation of model parameters is via the maximum likelihood methods. Ignoring underrecording of events results in biased estimates. (Received September 22, 2009)