

Strategies for under and overdispersion count data analysis.

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In the analysis of count data often the equidispersion assumption is not suitable, hence the Poisson regression model is inappropriate. In this work, we review and compare the use of COM-Poisson, Gamma-Count, generalized Poisson and Poisson-Tweedie models. The application of these models is illustrated with the analysis of a real count data.

Palavras-chave: *COM-Poisson distribution, Gamma-Count distribution, Generalized Poisson distribution, Overdispersion, Poisson-Tweedie family, Underdispersion.*

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