GENERALIZED EXPONENTIAL DISTRIBUTION OF DERIVATIVE BIVARIATE COPULA FUNCTIONS: AN APPLICATION TO GASTRIC CANCER DATA

Juliana BOLETA[1]
Jorge Alberto ACHCAR[1]

- *ABSTRACT: In this paper, we introduce the use of generalized exponential distributions to analyze multivariate lifetime data in presence of censored data and covariates derived from Farlie-Gumbel-Morgenstern copula functions. We assume different priors for the parameters of the model and we have used MCMC (Markov Chain Monte Carlo) methods to get the posterior summaries of interest.*

- *KEYWORDS: Generalized exponential distribution; copula functions; Bayesian models; gastric cancer.*

[1] Universidade de São Paulo – USP, Faculdade de Medicina de Ribeirão Preto – FMRP, Departamento de Medicina Social, CEP: 14048-900, Ribeirão Preto, SP, Brasil. E-mail: *jujuboleta@yahoo.com.br / achcar@fmrp.usp.br*