

## **Modelling Occupational Exposure Using a Random Effect Model: a Bayesian Approach**

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In this research we develop a similar method to Krishnamoorthy and Mathew (2002), who used a generalized confidence interval and p-value approach for the occupational exposure limit (OEL), using Bayesian methodology for the one-way random effects model in order to determine the performance of different non-informative prior distributions.

**Key Words:** Occupational exposure limit (OEL), one-way random effects model, Bayes, non-informative prior