



LONGITUDINAL DATA ANALYSIS REGARDING MEMORY LOSS (AMNESIA) IN RATS SUBMITTED TO CEREBRAL ISCHEMIA AND TREATED WITH FISH OIL

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ABSTRACT

A study with repeated measures can be performed in different occasions. In many cases no knowledge of the methods associated with the analysis of correlated data may lead to erroneous results. In this study the aim is to, through the methodology of Mixed Models, verify anti-amnesic effectiveness of Fish Oil (FO) in animals with cerebral ischemia. Considering a model with random effect at the intercept, it was used the information criterion and restricted likelihood ratio test to choose the appropriate covariance structure. Statistical analyzes corroborate the biological evidence, statistically indicating the effectiveness of the treatment with fish oil in all therapeutic windows.

Keywords: Repeated measurements, Covariance structure, Latency, Fish Oil.