



Effects of Essential Oil From Leaves of *Eugenia sulcata* Spring ex Mart. (Myrtaceae) on Hemodynamic Parameters of Wistar Rats

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SUMMARY. *Eugenia sulcata* is an endemic species from Brazil, which is widely spread in the sandbanks of "Parque Nacional da Restinga de Jurubatiba". Essential oils can be part of an integrative approach to managing hypertension. The aim of the present study was to evaluate the influence of essential oil from leaves of this species in hemodynamic parameters, such as systolic blood pressure, diastolic blood pressure and heart rate in Wistar rats. It was observed a statistically significant decrease on both systolic ($p < 0.05$) and diastolic ($p < 0.01$) arterial pressure, while no effect on heart rate was detected. The hypotensive effect may be partially related to the volatile content provided by the evaluated essential oil. However, absence of any effect on heart rate suggests that possible participation of other constituents in the mediation of cardiovascular effects cannot be excluded. To our knowledge, this is the first study regarding cardiovascular effects induced by essential oils from a Myrtaceae species.

KEY WORDS: Essential oil, *Eugenia sulcata*, Hemodynamic parameters, Restinga de Jurubatiba.

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