Teratogenic Effects of *Coffea canephora* (Robusta Plant) stem extract on *Mus musculus*

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ABSTRACT

This study on teratogenic effects of *Coffea canephora* (Robusta Plant) stem extract on *Mus musculus* (Albino Mice) aimed to determine its effects on the weight of the dams using sublethal concentration of 50%, 75% and 100% extract. In addition, this determined the concentration of the *Coffea canephora* plant extract that has a greater teratogenic effect on the litters and which can induce mortality. The Gavage Method was used as a means of administering Robusta stem extract on the mice. Administration of the extract started on the first day of pregnancy until parturition. The results showed that all dams that were treated exhibited decrease in weight after treatment. Upon parturition, the litters exhibited change in the length of limbs and tails. Enlargement of the snout was also observed at different concentrations. The 75% and 100% coffee extracts have greater teratogenic effect compared to the 50% coffee extract. The 100% coffee extract has the higher mortality rate compared to lower concentrations. It is recommended that histopathological examinations be done to determine the effects of the extracts to other organs. Furthermore, observation of other parameters such as the cranial morphology and size, fetal resorption and digital length and increase of the number of subjects other than those mentioned in the study be conducted.

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