



ABSTRACT

Diabetes, is one of the most common cause of mortality around the world. Modern medication although proven effective has several draw backs like high prices and side effects. Alternative medicine has long been an option in diabetes medication and the *Citrus* spp. is included in this pursuit. The study evaluated the effects of *Citrus microcarpa* peel extracts, a member of the *Citrus* family, at different concentrations on diabetic mice. The calamansi peels were acquired and extracted with the use of ethanol and afterwards was administered to the mice. Blood glucose levels were also collected and recorded in order to observe the effect of the extracts within the duration of the entire study. The results showed that the blood glucose levels of the mice although not returned to normal, were significantly decreased as the concentrations increased and that the effect of the extracts is comparable with a known diabetes medication, the Metformin.

Keywords: *flavonoids, hyperglycaemic, hypoglycemic, metformin, naringin,*