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**A STUDY OF THERAPEUTIC POTENTIAL OF CARICA PAPAYA
LEAF EXTRACT IN THE MANAGEMENT OF
THROMBOCYTOPENIA**

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ABSTRACT

Thrombocytopenia is a disorder that is defined by unusually low platelet counts. The purpose of this research is to examine the therapeutic potential of Carica papaya leaf extract (CPLE) in the treatment of symptoms associated with thrombocytopenia. Thrombocytopenia is a condition that is often linked to a number of illnesses, including dengue fever, and it presents considerable hazards to individual health. Since ancient times, traditional medicines have made use of the leaves of the Carica papaya plant for its alleged health advantages, notably in terms of increasing platelet counts. The purpose of this study is to investigate the effects of CPLE on platelet production in order to verify the claims that have been made. An exhaustive investigation into the nutritional content and phytochemical characteristics of the extract is included in the research. The purpose of this investigation is to discover the bioactive chemicals that are responsible for the therapeutic benefits of the extract. Key results from the examination of the nutritional content indicate that the leaves of the Carica papaya plant have a high concentration of vital vitamins, minerals, and antioxidants, all of which have the potential to contribute to an improvement in general health. Phytochemical analysis reveals the existence of flavonoids, alkaloids, glycosides, and other bioactive chemicals that are recognized for their potential therapeutic use. These findings provide credence to the traditional use of Carica papaya leaf extract as a natural treatment for thrombocytopenia and offer a scientific foundation for the possibility of its incorporation into contemporary therapeutic procedures.