



**THERAPEUTIC POTENTIAL OF *Taraxacum officinale* (DANDELION)
CRUDE EXTRACT ON THE ERYTHROCYTE PROFILE
OF PHENYLHYDRAZINE-INDUCED ANEMIC
Rattus norvegicus (ALBINO RATS)**

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ABSTRACT

Medicinal plants have been used in healthcare since time immemorial. Studies have been carried out globally to verify their efficacy and some of the findings have led to the production of plant-based medicines. This study presents the therapeutic potential of the plant *Taraxacum officinale*, a known plant in culinary, on the RBC count and Hemoglobin concentration of the anemic test organism. Iron is a crucial factor in treating and diagnosing anemia because it is essential for the production of red blood cells. Like Iron, another content of dandelions are crucial in the production of RBCs namely, Folic acid, one of the B vitamins helps the body create new cells including RBCs that carries oxygen. Hence, which the study aimed to determine the potential of *T. officinale* on the erythrocyte profile of anemic albino rats. Twenty albino rats were divided into the following treatment groups: T0+, the positive control group treated with a standard drug (folic acid), T1 and T2 with different concentration of the extract at 50% and 100%, respectively and lastly, T0-, the negative control with water. The administration of treatment for all the groups was done for 7 days. The extract showed considerable response with comparison to that of the folic acid in terms of increasing the RBC count and Hemoglobin concentration of the anemic albino rats. T2 (100%) exhibited the highest increase on the blood components.

Keywords: *Taraxacum officinale*, anemia