

**EFFECTS OF DIFFERENT CONCENTRATIONS OF COFFEE ON
THE PHYSICAL AND CHEMICAL PROPERTIES OF THE
RED BLOOD CELLS OF *SPRAGUE DAWLEY RAT***



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Abstract

The study tested the effect of different coffee concentrations on the physical and chemical properties of red blood cells using Sprague Dawley Rats as test organisms. Randomized Complete Block Design (RCBD) was used with four groups of Sprague Dawleyrat consists of a control group and three different concentrations labeled as T0 (distilled water), T1 (10%), T2 (20%), and T3 (30%). The Sprague Dawley rats undergone acclimatization, formulation and administration of different coffee concentrations. Different coffee concentrations were prepared in a weight volume ratio. Blood was extracted and measured through Complete Blood Count (CBC), and microscopy. As a result, different coffee concentrations proved to have no significant effect on the physical and chemical properties of the red blood cells of the Sprague Dawley rats.

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