

# PHARMACOLOGICAL EVALUATION OF COMMERCIALY AVAILABLE POLYHERBAL FORMULATIONS FOR HEPATOPROTECTIVE AND ANTIOXIDANT ACTIVITIES

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(Received 08 December 2023) (Accepted 10 March 2024)

## ABSTRACT

Polyherbal formulations, are frequently used to treat liver dysfunction, preserve the liver, and regenerate the liver. This research was carried out to determine whether or not polyherbal formulations could protect the livers of mice exposed to carbon tetrachloride -induced hepatotoxicity. 13 groups (n = 6) were generated at random from 78 male albino rats: Group I (serving as the normal control), Group II (containing only carbon tetrachloride), Group III (combining silymarin at a dosage of 100 mg kg<sup>-1</sup> with carbon tetrachloride), and Groups IV–XIII (combining carbon tetrachloride with different brands of commercially available formulations). Serum levels of hepatic enzymes were analyzed to determine hepatic biochemistry and the extent of liver damage. Antioxidant activity analysis and histopathological analysis of the formulations were also conducted. The commercial formulations significantly ( $P < 0.01$ ) lowered high liver biochemical markers, as validated by histological findings. Likewise, these formulations also displayed a strong antioxidant potential.