

**12th World Congress on
Pharmaceutical Sciences and Innovations in Pharma Industry**

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**9th Edition of International Conference on
Alternative Medicine**

February 26-28, 2018 London, UK

Lead acetate toxicity on glucose level and liver enzymes ameliorated by camel's milk in Wistar albino rat**Marwan M Draid, Mujahed O Bushwereb and Shadia G Ramadan**
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The present work was conducted to investigate the effects of lead acetate intoxication on glucose and liver functions in albino rats, and the possible effectiveness of using camel milk to protect against lead induced toxicity. Eighteen male albino rats were divided into 3 groups of six. The first was a control group, the second received lead acetate in water orally (2 ml saline containing 5 mg/Kg body weight of lead acetate) and the third received the same lead acetate dose supplemented with 2 ml of camel milk. This experiment lasted for three weeks. The results indicated that exposure of animals to lead acetate caused a significant increase ($p<0.05$) in the activities of aspartate aminotransferase (AST) and decrease ($p<0.05$) in the alanine aminotransferase (ALT) compared with control group. Treatment with camel milk seemed to offer a marked improvement of the blood glucose parameter and the liver enzymes compared with lead acetate group. The parameters were reversed towards the normal values significantly. The ability of camel milk to reduce lead toxicity may relate to its antioxidant actions or enhancing the metal chelating action. In conclusion, supplementation of daily diets with camel milk may be recommended to improve the body in case of lead contamination.

Recent Publications

1. Althnaian T, Albokhadaim I and El Bahr S M (2013) Biochemical and histopathological study in rats intoxicated with carbon tetrachloride and treated with camel milk. Springer Plus 2:57.
2. Allouche L, Hamadouche M, Touabti A and Khennouf S (2011) Effect of long-term exposure to low or moderate lead concentrations on growth, lipid profile and liver function in albino rats. Advan Biol Res 5:339-347.
3. Mohamad R H, Zekry Z K, Al Mehdar H A et al. (2009) Camel milk as an adjuvant therapy for the treatment of type 1 diabetes: verification of a traditional ethnomedical practice. J Med. Food. 12:461-465.
4. Herman D S, Geraldine M and Venkatesh T (2007) Case report - evaluation, diagnosis, and treatment of lead poisoning in a patient with occupational lead exposure: a case presentation. J Occup Med Toxicol. 2:7-10.
5. Agrawal R P, Sahani M S and Tuteja F C (2005) Hypoglycemic activity of camel milk in chemically pancreatectomized rats-an experimental study. Int. J Diabetes Dev. Ctries. 25:75-79.

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