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## Effects of experimental lead toxicity on hematology and biochemical parameters in Lohi sheep

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The present study was conducted to investigate the hazardous effects of lead on blood, liver and kidney of Lohi sheep. The adult Lohi sheep (n=48) were divided into treatment and control groups. The treatment group was administered lead acetate at a dose of 70 mg/kg live body weight daily for a period of 90 days orally. Six sheep from both groups were randomly selected and necropsied at day 0, 30, 60 and 90. The serum and tissue samples were collected and analyzed for Pb concentration by atomic absorption spectrophotometry. The lead has significantly decreased the values of RBC, Hb and PCV; whereas ALT, AST, ALP, urea and creatinine levels were found higher in the treatment group. It is concluded that the tissue damage in Lohi sheep was dependent on the accumulation of Pb residues in liver and kidney. This indicates that the lead intoxication could be harmful to sheep and ultimately poses threat to public health. This is a first long-term experimental study which correlates the effects of chronic Pb toxicity on blood and edible tissues of Lohi sheep.

### Biography

Muhammad Younus professor and principal of College of Veterinary and Animal Sciences, Narowal, Pakistan; Post Doctorate from University of Minnesota, USA and Doctorate in Pathology and Public Health from University of Veterinary and Animal Sciences, Lahore-Pakistan; Won at least six academic merit scholarships, Star Award 2009 by South Asians Publications, Excellence Award 2013, 2014, 2015 and 2016 by PVMC and PVMA, Research Productivity Award 2013, 2014 and 2015 by PCST, Govt. of Pakistan, Best University Teacher Award 2014 by HEC, Islamabad. Distinguished leadership award international, 2016 by University of Minnesota, USA.

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