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Toxopathological effects of *Ambrosia maritima* (Asteraceae) in Sudanese Nubian goats

Ilham M O and Halima M O
Veterinary Research Institute (VRI), Sudan

Toxicity of indigenous plant *Ambrosia maritima* was investigated. Twenty four, 6-8 month old, 12 female and 12 male of Sudanese Nubian goats were used. Dried leaves powder of *Ambrosia maritima* were mixed with water and given orally by drench to the animals at a dose of 1000 or 2000 mg/kg/day for 18 week. Two females drenched with the plant at a dose of 1000 mg/kg/day, died at day 8 and 9 post treatment and one female drenched with the plant at a dose of 2000/kg/day died at day 13. The results revealed that female goats drenched with the plant for 18 weeks, showed chronic toxicity evident by clinical symptoms, pathological and biochemical changes. The main symptoms were watery diarrhea, inappetance, respiratory distress and depression. Later these symptoms disappeared and the animals appeared healthy. The most evident pathological features were hydrothorax, hydropretonium, hydropericardium and enlargement of the liver. Histopathological changes were exemplified by degeneration and necrosis of the hepatic cells. The various changes noticed are focal necrosis, congestion and haemorrhag of proximal convoluted tubules, necrosis of intestinal vili with severe infeltration of inflammatory cells, and congestion of alveolar capillaries and pancreatic hyperplasia. These changes were correlated to the activity of Asparate Aminotransferase (AST), Alkaline phosphate (ALP), the concentration of cholesterol, sodium and potassium in the serum, and with the haematological values. The effect of the plant on males was less marked compared to that on female goats. There was gradual increase in mean body-weight of both sexes.

Biography

Ilham M O has completed here PhD from Sudan Academy of Science (SAS) Khartoum, Sudan. She is senior researcher in Veterinary Research Institute (VRI), Animal Resources Research Corporation (ARRC), Ministry of Livestock, Fisheries and Rangelands, Khartoum, Sudan. She attended the 2nd & 3rd International Conference and Exhibition on Traditional Medicine-2014, published more than 20 scientific papers in reputed journals.

elhamsud@hotmail.com

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