July 15-17, 2013 Courtyard by Marriott Philadelphia Downtown, USA

Influence of chromium, zinc and selenium on nutrient utilization and blood biochemical parameters in goat

Manoj Kumar Gendley and Sita Prasad Tiwari Chhattisgarh Kamdhenu Vishwavidyalya, Anjora, India

Torty eight kids (6-9 months) was taken and divided kids into 12 groups of four in each following 3x4 factorial scheme to study the effects of supplemental mineral (Cr, Zn and Se), on growth performance and other heamato-biochemical parameters. In growing kid concentrate mixture was fed according to NRC, (1981), un-medicated UMMB (ad lid) to group II while medicated UMMB was fed ad lib to group III continuously for 10 days followed by un-medicated UMMB. Diet of kid was supplemented with trace elements: Zn, Cr and Se into four sub groups at the rate of 0, 0, 0 (M₀); 20, 0.5, 0.5 (M1); 40, 1, 1 (M₂) and 60, 1.5, 1.5 (M₃) ppm, respectively. DMI (g/Kg^{0.75} and kg/100 kg) in kids was significantly higher (P<0.01) in MUMMB supplemented group. Kids in group III attained maximum growth of 54.23 g/day due to feeding of medicated urea molasses mineral block as compared to UMMB and control. Balance of N in kid was significantly (P<0.05) highest in group III, however calcium and phosphorus (g/day) balance of kid was significantly (P<0.01) higher for both UMMB and MUMMB supplemented groups than control. There was significant rise in blood glucose in MUMMB supplemented group while ALP was significantly (P<0.01) lower in control of kid. In kid, no significant change in the serum Zn and Cr was found due to supplementation of medicated or un medicated UMMB and minerals however, the level of Se was decreased significantly due to UMMB and minerals (M1) supplementation.

Biography

Manoj Kumar Gendley has completed his Ph.D. at the age of 35 years from Indira Grandhi Krishi Vishwavidylaya, Raipur, India and presently working as Assistant Professor, Chhattisgarh Kamdhenu University, Chhattisgarh. He has published more than 13 papers in reputed journals and serving as an editorial board and executive member of reputed journals.