

Veterinary World 1 (10) : 306-309

## An Evaluation of comparative effects of feeding synthetic and herbal choline on broiler performance, nutrient balance and serum activities

Jadhav N. V., V. Nagbhushana, Shivi Maini and S. M. Kartikesh

Veterinary College,  
KVAFSU, Nandinagar, Bidar-585401, India.

### Abstract

An experiment in broiler chickens was conducted to evaluate comparative efficacy of herbal and synthetic choline on body weight, weight gain, FCR, nutrient balance serum activities and economic benefit for 35 days on deep litter. A significant ( $P < 0.05$ ) increase in body weight gain (110, 181 & 149 g) was observed in synthetic and herbal fed groups. The findings also recorded significant ( $P < 0.05$ ) improvement in FCR (1.93, 1.88 & 1.90) in choline-supplemented broilers when compared with low choline diet fed (control) birds. The results indicated significant ( $P < 0.05$ ) elevation in serum glucose levels (212.6 223.4 mg/dl) and notable reduction in serum cholesterol levels in herbal choline incorporated broilers. The herbal choline added birds noted enhanced nutrient retention and boosted overall economy of broiler rising.

Key words: Broiler chickens, economy, synthetic and herbal choline, nutrient balance, serum activities.