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Research Title/ Graphical Abstract

Article Information/ Abstract

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Animal and Meat Production in Ghana-An Overview
Original Article, C1
Adzitey F.
*J. World's Poult. Res.* 3(1):

**ABSTRACT:**
Animal production is an integral part of Ghana's agricultural economy and a major source of livelihood for many rural communities. Understanding the impact of animal production on the economy and society is crucial for policy makers, farmers, and other stakeholders. Data on animal production in Ghana is limited, and current statistics often do not represent the true picture. This study aims to provide an updated and comprehensive overview of the animal production sector in Ghana. The results will be used by policy makers and other stakeholders to make informed decisions. The study will also provide useful information for farmers to improve their production practices.

**Key words:** Agricultural economy, Animal production, Animal species, Meat production, Ghana.

Conventional and molecular detection of Newcastle disease and infectious Bursal disease in chickens

Original Article, C2
Majed H.M., Zahid A.A.H., Kadhim L.I., and Hasoon M.F.
*J. World's Poult. Res.* 3(1):

**ABSTRACT:** The present study was undertaken to compare different diagnostic procedures for the detection of Newcastle disease and infectious Bursal disease in chickens. The study evaluated the sensitivity and specificity of conventional diagnostic methods (such as hemagglutination inhibition test (HI) and agglutination-inhibition diagnostic test (AGIDT)) and molecular diagnostic methods (such as real-time polymerase chain reaction (RT-PCR) assay). The results demonstrated that molecular methods were more reliable, sensitive, specific, and accurate compared to the conventional methods. These findings highlight the importance of using molecular methods for the confirmatory diagnosis of these diseases, which can help in the control and prevention of outbreaks.

**Key words:** Clinical diagnosis, NDV, IBDV, HI, AGIDT, RT-PCR assay.
ABSTRACT: An experiment was conducted to study the nutritional value of yellow maize when it substitutes sorghum as a source of energy in broiler feed. The experiment lasted for 6 weeks. Feed intake and body weight gain were recorded weekly. The results showed significant increase in feed intake and body weight gain with the substitution of yellow maize for sorghum.

Key words: Broiler, Maize, Sorghum, Performance
Seroepidemiological studies on poultry salmonellosis and its public health importance

Original Article, C4
Ibrahim M.A., Emeash H.H., Ghoneim N.H. and Abdel-Halim M.A.
J. World’s Poult. Res. 3(1): 18-23

ABSTRACT: Non-typhoid Salmonella serovars remain a potential threat to human health, and poultry species are possible sources of these organisms. In this study, trials for Salmonella isolation from poultry and humans were conducted in the period April 2009 through March 2010 in Beni-Suef Governorate, Egypt. A total of 3000 poultry and 100 human samples were subjected to bacteriological examination and serological identification for Salmonella spp. The recovered Salmonella strains were found belonging to S. Kentucky, S. Typhimurium and S. SaintPaul. The obtained results demonstrated that the occurrence of Salmonella spp. accounted for 16.66, 10.0, 2.0, 6.0 and 2.0% in broilers, breeders, layers, ducks and turkeys respectively. Investigation of litter samples revealed that the occurrence of S. Kentucky was 53.33, 66.66 and 28.57% in broiler’s, breeder’s and duck’s litters respectively. Examination of human samples declared that 8 out of 90 hand swabs were found positive for S. Kentucky whereas all stool samples reacted negatively to all Salmonella spp. In the present study, conclusively Salmonella serovars (S. Kentucky) isolated from chickens were frequently isolated in the poultry environment. This provided evidence that direct contact with poultry or poultry environment may pose health hazards for humans.

Key words: Salmonella spp.; Poultry; Humans; Litter

Rural poultry farming with improved breed of backyard chicken
ABSTRACT: Livestock and poultry rearing is an imperative factor for improving the nutritional security of rural poor in India. Rural farmers rear Desi type chicken with low egg and meat production in backyard system. For developing the rural poultry farming, improved breeds with high egg and meat production is needed. Furthermore, research and development is required on poultry medicines, vaccines and etc. to avoid diseases and improve poultry production. Also, the farmers require proper knowledge about poultry farming. By providing a solution to food security to the needy villagers paving a way for sustainable agriculture in rural areas of India.

Keywords: Backyard Chicken, Gramapriya, Rural, Vanaraja

A study on Cestode Parasites of *Corvus* Species of Kashmir, India

Original Article, C6

Ahmad Dar J., Tanveer S., Ahmad Kuchai J. and Ahmad Dar Sh.

J. World's Poult. Res. 3(1): 28-34
During the present study, three species of the genus *Corvus* namely *C. monedula*, *C. splendens* and *C. macrorhynchos* were collected from different localities of Kashmir valley and investigated for the presence of cestode parasites. *Anomotaenia galbulae* (Gmelin, 1790) Furhrmann, 1932 was recovered from all the three host species. While, *Choanotaenia micracantha* was recovered only from *C. monedula* and no specimen of this cestode was obtained from *C. Splendens* and *C. macrorhynchos* during the present study. The specimens thus collected were identified as *Anomotaenia galbulae* and *Choanotaenia micracantha* on the basis of various morphological and morphometric characters when compared to the known species of genera *Anomotaenia* and *Choanotaenia* respectively. However, some intraspecific variations were observed.

Key words: Cestode, Crows, *Anomotaenia*, *Choanotaenia*, Kashmir, Morphology.

**Effect of Dietary Inclusion of *Zataria multiflora* on Histological Parameters of Bursa of Fabricius in Broilers**

Regarding the remarkable role of bursa of Fabricius as a primary lymphoid organ in poultry, this study aimed to evaluate the effect of long term administration of *Zataria multiflora* as an herbal immunomodulatory agent on histological features of this organ in broiler chickens. To this end, fifty, one-day old chickens were randomly divided into five equal groups and fed with diets contained 0.5, 1, 1.5, and 2% of *Z. multiflora* (experimental groups) or basal diet (control group) for 45 days. On day 46, birds were slaughtered and bursa of Fabricius was excised and sectioned for microscopic examination. Histomorphometric parameters were measured using a linear graticule. Number of follicles in plicae was also counted under light microscope. The results showed a dose dependent increase in all histomorphometric parameters due to *Z. multiflora* administration and the highest increase was in the thickness of follicular cortex of birds treated with 2% *Z. multiflora*.

In conclusion, dietary inclusion of *Z. multiflora* during the rearing period of broilers, dose dependently affects histological structures of bursa of Fabricius in a way that may enhance its role as a lymphoid organ.

Key words: Bursa of Fabricius; Histology; *Zataria multiflora*; Broilers.