

33. Bacterial diseases-E.coli-Coryza-Salmonellosis-Protozoan–Coccidiosis-casulative organism – symptoms and preventive measures. Nutritional deficiency diseases and its control.

Bacterial Diseases

Coli Bacillosis

Escherchia coli infection

Aggravated by other stress factors

Symptoms- Diarrhoea, swelling of joints, comb, and wattle.

mortality – very high

Prevention- Proper sanitation and management, avoiding stress
addition of antibacterials and anti biotics in feed and water

Infectious coryza

Haemophilus gallinarum

Symptoms- all ages – affected, Acute respiratory infection, high morbidity and low mortality,
oedema of face, wattle and comb, discharge from nostrils

Recovered birds – carriers

Prevention and control- Better hygiene, Addition of Anti bacterials and antibiotics – Sulpha in
feed, Tylosin, tetracycline

Salmonellosis

Paratyphoid, Pullorum

visceral organs –affected

S.pullorum- pullorum disease

, **S. gallinarum**-typhoid/bacillary white diarrhoea

, **S.typhimurium**- paratyphoid

Symptoms- Chalk like diarrhoea, huddling, weight loss, pasted vent.

Treatment: Sulpha drugs, Hygienic management, hatchery hygiene is important.

PROTOZOAN

Coccidiosis:

Eimeria tenella, *E.necatrix*

Severe upto 10 weeks of age, due to poor litter management, bloody droppings, high mortality, production performance is hampered
Prevention and control: Anti coccidials, litter management and hygiene.

Amprolium, sulpha drugs. Coccidiostats may be mixed with feed.

Nutritional Deficiencies and control:

Vitamin:

Vit A: Xerophthalmia- Gout, - retarded growth, discharge from eyes and nose. – Cod liver, fish liver oil, vit A supplementation

Vit D3: Rickettsia, - leg weakness, swollen hock joints, rubbery beak, thin shelled eggs.- Cod liver, fish liver oil, vit D3 supplementation

Vit E: Encephalomalacia- crazy chick disease – paralysis of leg – retraction of head, convulsions, death- vegetable oils, synthetic Vit E.

Vit B1: Thiamine – poly neuritis – paralysis of wing and neck.- yeast products, synthetic vit B1

Vit B2- Riboflavin – curled toe paralysis- tendency to walk on hocks – dermatitis on corners of mouth, vent and foot pads – fish products, Vit B2, rice bran.

Vit B12- Cyanacobalamine- retarded growth, increased mortality, drop in production and hatchability- fish meal, meat meal, synthetic B12.

Choline – Fatty liver syndrome- poor feed utilization, ruffled feathers, increase in liver fat, -fish, meat, ground nut meal.

Mineral deficiency:

Manganese: slipped tendon – deformity of hock joints – fish, meat meal

Goose stepping – Zinc, magnesium deficiency – bone formation affected.

Calcium, Phosphorous: def of vit D, deficiency during laying- imbalance in Calcium and Phosphorous- poor egg shell formation, curved beak, bone deformities.- supplementation with ca and p.

External And internal parasites; Lice , ticks and mites- deticking, delicing round worm, tape worm infestation – deworming regularly.