Chicken Faecal Analysis

The colour and texture of chicken faecal material can indicate the health status of the digestive tract. This poster shows abnormal droppings and suggests the possible causes.





Pictures 2a, 4a, 9, 10a and 12 are courtesy of: www.thegardensmallholder.wordpress.com



Surrounded with large amounts of brown watery and foamy urates excreta. 1): Malabsorption syndrome in young chicks (adenovirus, reovirus). Dietary changes: High lactose content in feed ingredient that is not digested and absorbed in small intestine, but fermented by cecal flora. Clostridium perfringens infection, coccidiosis, worm infestation.



Contains large amounts of solids paste, white to milky urates



In clincical cases, only the white urates are being passed.



In subclinical cases, orange-reddish drops of intestinal linings in the faeces can be observed.





In clinical cases, orange drops of gut mucosa discharge in the faeces can be observed.

Viral infections (Infectious bronchitis), bacterial infections. e Disease: Infectious bursal disease, lymphoid leukosis. edient: Mycotoxin (aflatoxin, ochratoxin). Drugs (sulfa, gentamycin) have been over used. Heavy metals (zinc, lead) are not digested and absorbed. Combination of high calcium levels, high vitamin D, low vitamin A, high dietary protein in the diet, fed to older chickens (e.g. layers> 60 weeks old.) ehaviour changes: Lack of drinking, excitement, stress. Worms, coccidiosis, toxoplasmosis.



astrointestinal tract disease: Necrotic enteritis (Clostridium perfringens), Salmonella Typhimurium, coccidia, ascarids, enteric virus (torovirus-like virus), histomoniasis. Microbial imbalances.

n: Aflatoxin, fumonisins, sterigmatocystin, ochratoxin, and undefined toxins of Penicillium. Toxic injury: Oxidised, rancid fats, biogenic amines.









Clear or watery, runny droppings show normal faecal matter







Brown runny dropping which appear loose and watery in clinically infected chicken.

Undigested maize can be seen in the feces. Poor feed quality.

Coarse and large particle size of grinded corns. Gizzard erosion. malabsorption syndrome.

but notably more fluid around the faeces.

Malaborption/maldigestion syndrome: Enteric virus (reovirus, rotavirus, bacterial enterotoxins, (E. coli, Clostridium, chostridium, cholera, Salmonella).

Dietary Changes: High in salt, excess levels of magnesium (carbonate, sulfate, and oxide farms), non-starch carbohydrates (e.g. raffinose in soybean meal, lactose in whey, pentosans in small grains, or sucrose). Increased water consumption during heat stress.

gical stress: Vaccination, environmental temperature, drastic change in feed formulations.



The sulphur yellow colour, blood stained and foamy dropping is due to a disease called Blackhead or Histamonosis, which is caused by a protozoan parasite which affects the gut.















Greenish dropping combined with very little faecal matter and condensed ureates, which contains little mucus around it.

E. coli infection; Newcastle disease, infectious bronchitis, Leucocytozoonosis, coryza, CDR, avian influenza, lymphoid leukosis.

Mycotoxins, fatty liver, heavy metals.

: Infection, acute stressors (vaccination, medication, environmental temperature).



Light greenish droppings are due to sudden change in environmental conditions.



Bloody droppings are due to cecal coccidiosis.

Cecal droppings are normally expelled two or three times a day (once in every 8 to 10 droppings). They look pasty, smell worse than regular droppings and are often mustard to dark brown in colour.





Usually voided as digestive waste with white uric acid crystals on the outer surface and have no odour.

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