

# Predisposing factors for respiratory diseases in birds.

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The global poultry is ever changing and is influenced by factors whether genetic, environmental or new and emerging diseases.

Most of the commonly occurring diseases in birds belong to the respiratory group, which are predisposed by a number of factors.

## **Predisposing factors for respiratory diseases-**

1. **Over crowding**- means giving less space to individual bird for rearing.It can lead to stress, uneven growth, overproduction of ammonia etc.leading to increased susceptibility of birds to diseases.
2. **Poor ventilation**- one of the most important predisposing causes of respiratory diseases as poor ventilation leads to excessive production of ammonia which causes severe damage to tracheal mucosa making the bird prone to respiratory diseases.
3. **Improper litter condition**- respiratory diseases can be caused if the litter is too dusty or too wet.
4. **Poor immune status**-is also an important predisposing factor.Birds can have improper status due to-
  - a) Improper nutrition-
    - 1-Imbalanced diet.
    - 2-Deficient diet.
  - b) Mycotoxicosis
  - c) Immunosuppressive diseases -
    - 1-IBD
    - 2-CAV
    - 3-MD
  - d) Improper vaccination-
    - 1-Choice of vaccine.
    - 2-Method of vaccination.

### 3-Handling of vaccine.

**5.Concurrent diseases**- some diseases can be predisposed by the other,like ND,IB,and VVND predispose CRD.Certain strong strain of vaccines also predispose diseases.

**6.Environmental stress**- high temperature leads to severs stress.Improper or insufficient cooling procedures can lead to immunosupression and disease outbreak.

**7.Poor biosecurity**-most important predisposing factor. Breach in the biosecurity can be caused by-

- a) Man and material transport.
- b) Improper disposal of dead birds.
- c) Improper disposal of litter material.
- d) Poor hygienic conditions.

Proper management of the predisposing factors can prevent the huge economic losses caused by respiratory diseases.