

Mycotic Diseases

1-Aspergillosis Disease (Brooder Pneumonia)

***Definition:** it is **acute mycotic** disease affecting **young bird**, characterized by **respiratory system**, sometime involvement of **eye**, the disease is associated with **bad management**.

***Etiology:** **Aspergillus flavus** .

***Susceptibility:**

- 1-Chicken, turkey are susceptible to disease.
- 2-Young birds more susceptible than older one.

***Predisposal factor:** (**Aspergillus opportunistic microorganism**), the factors:-

- 1-Bad management.
- 2-Mal nutrition.
- 3-Overcrowding.
- 4-Chiling.
- 5-Using Antibiotic.

***Transmission:-**

- 1-When the **hyphae and spores** present in the environment, **inhalation of litter, hay, dust, hatchery, and incubator are source of infection**.
- 2-Egg born contamination (egg shell).
- 3-Aspergillosis is **not a transmissible**, the infections are **acquired from environmental exposure**.

***Incubation Period:** Vary from (5-15) days.

Clinical Signs:*1-Acute form (Brooder pneumonia):-**

- 1-**Gasping**, loss of appetite, **thirst**, diarrhea in the late stage, **difficult breathing**, **last 4-5 days**, mortality **10-50%**, **3rd-4th** weeks of rearing.
- 2-**Eye** may be involved, and **accumulate of yellow cheesy** material in the **eye**, lacrimation.

2-Chronic form (in adult chicken).

Last several weeks, mortality low, affected bird show **difficult breathing**, diarrhea, **emaciated**.

***Gross lesion:-**

1-In acute form, there is **multiple yellow nodule**, vary in size in **lung** of chicks (these nodule seen in pullorum disease).

2-Chronic form (in adult birds).

The lesion characterized by **large decay masses**, **yellow** in color in air sac, **lung** or heart.

*In some cases there is **greenish or black fur like growth** in **air sac and chest**.

***Diagnosis:-**

- 1-Clinical signs.
- 2-Isolation and Identification of fungus.

***Control:-**

- 1-Affected bird must be destroyed, and must also **strict cleaned** utensils, house, **brooder and equipment**.
- 2-Moldy litter must be removed.
- 3-Disinfectant like **phenolic disinfectant** is commonly used fungicidal agents.

***Treatment:-**

- 1-Affected bird with **nystatin**, **mycostatin**.
- 2-Cleaning **hatchery**, **incubator**, **house**.