## **Epidemiology of Fungi** Week 7

- Fungi can be found everywhere on earth
- Most of them are soil saphrophyte and no transmission is observed between humans or animals (except Candida and some dermatophytes)
- Beside these fungal epidemies can be observed. However these epidemies would happen due to the intensive environmental exposure.

• Initiation of a fungal infection depends on the inoculum (the number fungal agent) volume and host immunity.

- Because of this a veterinerian's decision must be settled Accord, ng to the patient's general condition, laboratory results and clinical parameters.
- The decision mustn't be given by chance. Because systemic fungal infections' treatment is performed with randomly toxic therapeutics which are used in variable schedules.

• The severity of disease depends on the host immunity.

## **Fungal Immunity**

- Chronic fungal infections leads to granulomatous reactions in host
- Rather than humoral immunity the cellular immunity developes in fungal infections
- Antibodies could not protect the host in fungal infections except ringworms
- In hosts hypersensitivity reactions could ocur and this will lead to skin redness in humans
- Mycoses are classified as deep (systemic) and supeficial mycoses. However, some pathogenic fungi like *Candida albicans* and *Aspergillus fumigatus* could lead to both systemic and superficial infections