Seep Pox and Goat Pox

Etiology:

- SPV the causative Capri pox virus affected only sheep.
- SGP V.highly contagious pox infect to sheep and goat and it also Capri pox v.
- - family poxviridae .
- The diseases produced by sheeppox and goatpox viruses are collectively called capripox infections.

Epidemiology:

- Sheep pox highly contagious ,spreading occur by contact with infected animals and contaminated articles .
- By inhalation.
- Capri pox has been spread via stomoxy calcitrance .
- Goat pox virus afford solid immunity in sheep against both goat pox and sheep pox but sheep pox vaccine does not protect goat against goat pox.
- Mortality rate is low 5%, sever losses may occur if the udder is affected due to secondary mastitis .
- -The virus is present in nasal and oral secretions for several weeks after infection and can live in scabs that have fallen off the animal for several months.

Pathogenesis:

-viremia, virus deposited in most tissue include the skin, the V. present in greatest quantities between (7 th and 14th days), after inoculation.

- viremia ,Erythema ,Firmraised papules light in color with zone of hyperemia around base ,
- Vesiculation, a yellow blister with apitted center.
- Pustular stage followed by development of a thick ,red ,tenacious scab.

Clinical signs:

- **In**cubation period 2-14 days.
- In lamb malignant form common type ,depression ,fever, discharge from the eye and nose ,affected lamb may die in this stage befor typical pox lesion develop. ,
- There is papules ,then become nodular ,vesicular,pustular and finally scabs
- Some of them progress from nodules to tumor-like masses
- Skin lesion reappear on unwoolled skin and on the buccal respiratory, digestive and urogenital tract mucosae.
- mortality rate in this form 50%
- Beningn form:
- In adult only skin lesion under the tail and no systemic reaction
- Goat pox in sheep is more sever than sheep pox and lesion occur on lips and oral mucosa ,the teats and udder.
- Goat pox in goat is similar clinically to sheep pox ,mobidity rate 90% and mortality of 40%.

Clinical Pathology:

- -virus culture in tissue culture
- serological test.

Necropsy Finding:

-in malignant form pox lesion extend to mouth, pharynx ,laeynx and vagina

Catarrhal puemonia

Differential Diagnosis:

- 1- Blue tongue
- 2- Contagious ecthyma.

Treatment:

No specific treatment .

Control:

- **D**estruction of affected animal.
- Quarantine.
- Vaccination ,killed vaccine ,live attenuated .