Lecture no Twelve

Rickettsia

The Rickettsia are group of organisims that infect wild animals , with humans acting as accidental hosts in most cases. Most of these organisims are passed between animals by an insect vector. All Rickettsia serologically . I

**Symptoms** 

Fever, headach, and rash.

All rickettsia are pleomorphic Gram negative coccobacilli. The organisims multiply by binary fisson in the cytoplasm of host cell, which are finally lysed during release rickettsia.

Early diagnosis is made on clinical ground based on the symptoms of fever, rash and exposure to ticks. The characteristic spread rash from the extrimities to the trunk help to distinguish Rocky mountain spotted fever (RMSF).from meningococcemia.

L.D.

Biopsy specimens of skin tissue from the rash of RMSF can be stained directly with aspecific edimmunoflourescence reagent. The Giemenez stain is also used for examination of clinical material. by Although the rickettsia can be cultured in embryonated egg and in tissue culture. Diagnosis is primarly accomplished serologically.

The test is Weil felix reaction ,the fortuitions agglutination of certain strains of Proteus vulgaris by serum from patients of which M with Rickettsial disease.