Lecture No fourteen

Mycoplsmas

Mycoplasma are group of small, wall less organisims, of which M.pneumonia is the major pathogens .M.pneumon on artificialia caused typical pneumonia

important properties

Are smallestfree living organisim. Their most striking features is the absence of acell wall. M stain poorly with Grams stain, and antibiotic that inhibit cell wall synthesis, e.g pencillin and cephalosporin, are infective. There is the only bacterial M contains cholesterol, asterol found in eukaryotics cell m. M can be grown in the laboratory on artificialmedia, but they have complex utritional requirements including several lipid.

They grown slowly and reqire at least 1week to frm visible colony. The colony has characteristic fried egg shape, with araised center and atheir outer egges.

L.D

Diagnoses is not made by culturing sputum sample. It takes at least 1 week for colonies to appearon special media. Srologic testing is the mainstay of diagnoses. Acold agglutination of 1:128 or higher is indicative of recent infection .

**Treatment** 

Erythromycin