# CHILD HOOD TUBERCULOSIS

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### **ETIOLOGY**

- There are 5 closely related by cobacteria in the M. tuberculosis complex.
   M. tuberculosis Mebovis, M. africanum, M. microti, and M. canetti.
- M. tuberculosis Most important cause of Tb in humans
  - Non-spore-forming
  - Non-motile
  - Pleomorphic
  - Weakly gram-positive curved rods 2-4 μm long
  - Obligate aerobes
  - Grow best at 37-41°C
  - > Hallmark of all mycobacteria is acid fastness

### • PRIMARY INFECTION Notes ale. - 1st infection from 9 of 35 - another at apyage, but commonly before age 5

- - The lung is the site in >98% of cases
  - On completion, TST usually becomes positive
  - Usually asymptomatic
  - Low grade fever, malaise and anorexia maybe present
  - Erythema nodosum and phlycternular conjunctivitis possible
- Primary (Ghon's) focus small area of inflammatory exudate at the alveoli where the inhaled bacilli first lodge
- Primary (Ghon's) Complex primary focus + the draining lymphatics + the inflamed regional lymph node

## EXTRAPULMONARY TB DTB - Most common in infants and young children - Prestring Postenths of primary infection

- Results from haematogenous spread
- Onset of symptoms can be explosive with a fulminant course
- Wt loss, anorexia, low grade fever
- Generalized lymphadenopathy and hepatosplenomegally
- Respiratory manifestations as in PTB
- Symptoms of meningitis and peritonitis in 20-40% Of cases

- TB AND BCG VACCINATION

   Efficacy for roult pyloionary TB 0-80% in randomise Pelhical trials
- Best efficacy against serious childhood disease
  - 64% protection against TB meningitis
  - 78% protection against DTB
- BCG important for young children, inadequate as a single strategy