

# Important notes

For Respiratory Block

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- ✓ most common bacterial infection that cause pharyngitis Group-A  $\beta$ -hemolytic Streptococcus and treated by penicillin
- ✓ Epiglottitis caused by H.Influanza and can be diagnosed by x-ray (thumb sign) .Also, treated by Ceftriaxone
- ✓ Corynebacterium diphtheriae infection can be detected by ELIK's Test
- ✓ most common organism for community acquired pneumonia is S.pneumonia
- ✓ We don't treat atypical pneumonia with beta lactam
- ✓ Legionella pneumophila will culture in a special media called BCYE
- ✓ Pregnant women can have a very severe Pneumonia with Psittacosis

- ✓ The BCG is a vaccine given to the new borns to prevent TB
- ✓ M.tuberculosis is staining by Z-N stain (Ziehl-Neelsen) stain, Not stained by gram stain due to (mycolic acid).
- ✓ To detect the Immunity to tuberculosis we use Tuberculin Skin Test But, "IF- $\gamma$ " has a specific significance than tuberculin skin test.
- ✓ The incidence of nosocomial pneumonia is highest in ICU
- ✓ Vancomycin and colistin are "empiric therapy" for Nosocomial Pneumonia
- ✓ P.aeruginosa which will be positive oxidase and can be treated by Antipseudomonal (e.g.Carbapenem).

- ✓ For the diagnosis of pulmonary Aspergillosis we can use ELISA test for galactomannan Antigen
- ✓ *Aspergillus Flavus* will cause fungal sinusitis and will show septate fungal hyphae
- ✓ Zygomycetes (e.g. *Rhizopus*) will show Non-septate hyphae (no cycloheximide) and treated by Amphotericin B
- ✓ *Candida albicans* is the most common species causing candidiasis
- ✓ candidiasis can be diagnosed for Antigen by e.g. Mannan antigen using ELISA but Blood culture useful to diagnosis Candidemia
- ✓ Cryptococcosis doesn't appear pseudohyphae just budding yeast cells and can be treated with Amphotericin B

- ✓ Rhinovirus is the 1st cause of common cold.
- ✓ Coronavirus will cause SARS. A new mutation can happen in the animal reservoir may be cat, and cause atypical pneumonia
- ✓ influenza virus type A will Infect human and Animal Causes epidemic & pandemic. Also, it can make antigenic drift and shift and can be treated by these drugs Amantadine , Rimantadine, Oseltamivir (Tamiflu) or Zanamivir (Relenza)



**I hope this file will be helpful for you ^^**

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