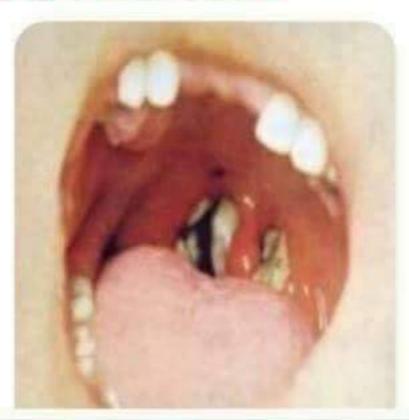
What Is Diphtheria

Nurse Info

What is Diphtheria

An infection of local tissue of Upper respiratory tract with production of toxin which causes systemic effects on Heart and Peripheral tissues,





Definition

- Diphtheria is an acute, toxinmediated disease caused by toxigenic Corynebacterium diphtheria.
- It's a very contagious and potentially life-threatening bacterial disease.
- It's a localized infectious disease, which usually attacks the throat and nose mucous membrane



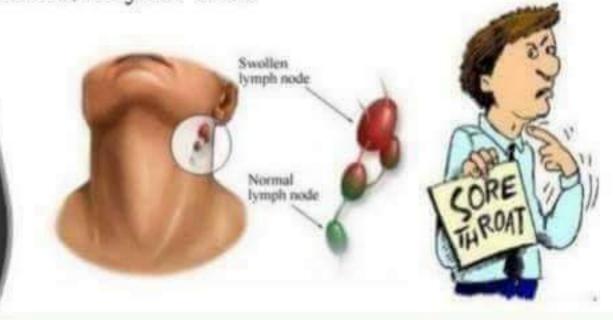
Diphtheria

- Greek diphtheria (leather hide)
- Caused by Aerobic Gram +ve rods
- Corynebacterium diphtheria
- Exotoxin production only if infected by virus phage infected carrying toxin gene

Signs and symptoms

Signs and symptoms usually begin two to five days after a person becomes infected.

- A sore throat and hoarseness
- Painful swallowing
- Swollen glands (enlarged lymph nodes) in your neck





breathing hard.

Symptoms include sore throat, fever, swollen lymph nodes and weakness.

Treatments include antibiotics and an antitoxin that neutralises the diphtheria toxin. A vaccine is available.

How it spreads

By airborne respiratory droplets (coughs or sneezes).

By saliva (kissing or shared drinks).

Symptoms

Requires a medical diagnosis

Symptoms include sore throat, fever, swollen lymph nodes and weakness.



People may experience:

Whole body: fatigue, fever, or malaise

Respiratory: noisy breathing or shortness of breath

Speech: hoarseness or impaired voice

Throat: difficulty swallowing or soreness

Also common: coughing, runny nose, swelling, or swollen lymph nodes

Schick Test (Out dated)

 Schick test: It is an intradermal test, the test is carried out by injecting intradermally into the skin of forearm 0.2 ml of diphtheria toxin, while into the opposite arm is injected as a control, the same amount of toxin which has been inactivated by heat.



Treating Contacts

All contacts are advised to receive

500 mg Erythromycin 4 times a day.





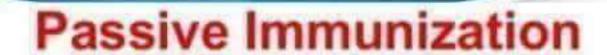
Treatment

- Antibiotic not useful in Acute infections,
- Antitoxin a must.
- Anti toxin obtained from horse serum
- Mild 20,000 to 40,000
- Moderate 40,000 to 60,000
- Severe 80,000 to 1,00,000
- Commonly used antibiotics,
- Penicillin parentally,
- Oral Erythromycin



Vaccination: Immunisation with diphtheria toxoid, combined with tetanus and pertussis toxoid (DTP vaccine), should be given to all children at two, three and four months of age. Booster doses are given between the ages of 3 and 5.

The child is given a further booster vaccine before leaving school and is then considered to be protected for a further 10 years (16 – 18 years).



- Given in Acute infections
- Give Subcutaneously
- 500 1000 Units of Antitoxin
- Given as Horse Serum
- Combined in Acute Infections (Both Active Immunization with Toxoid and Antitoxin.