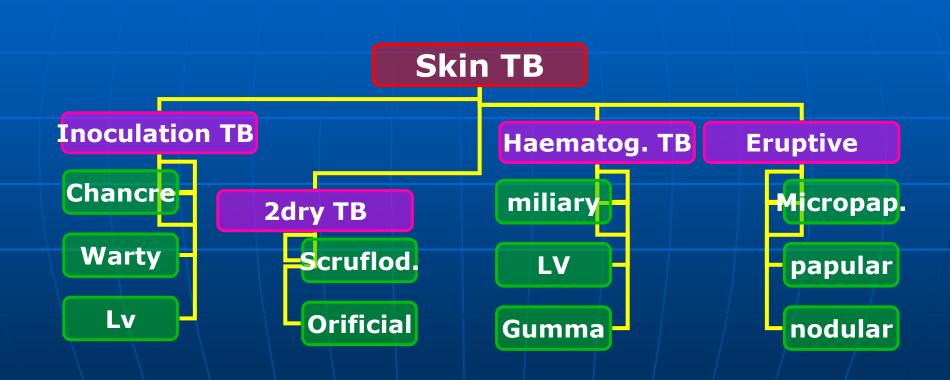


Mycobacterial Infections

Tuberculosis of the skin

Classification



Lupus vulgaris

The most common Either by inoculation or haematogenous spread In patients with high or moderate immunity Pathologically: localized granulomatous reactions

Clinical picture:

On the exposed parts specially face
A plaque composed of soft reddish brown nodules
Active and healed edge
Heal with unhealthy scar
+ve diascopy test







complications

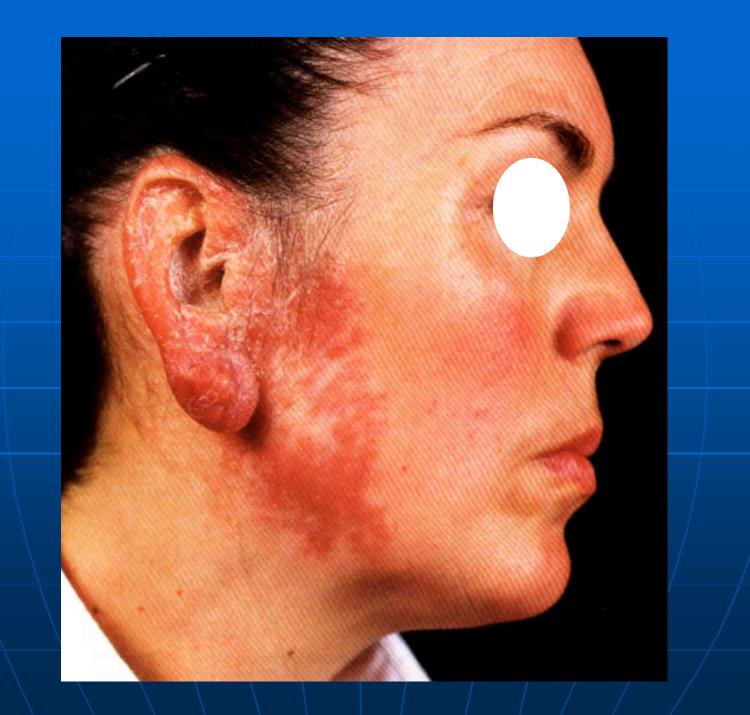
 Ulceration, destruction and mutilation
 malignancy





Lupus vulgaris (Plaque on the cheek - Commonest site)











Tuberculous Chancre

Direct infection to non immune skin Usually in children Skin lesion- lymphangitis- regional Lymphadenopathy Affect extremities, brown red papule, nodule or large ulcer Tuberculin test -ve +ve

Tuberculosis verrucosa cutis

Direct inoculation in skin with moderate or high immunity
On the dorsa of the distal extremities
Single dull red hyperkeratotic plaque



Scrufloderma

Spread from an underlying focus; LN, Joint or bone Deep purplish induration of he skin Breakdown with caseous discharge Sinuses, fistulae, ulcerations, granulations, crusts and hypertrophic scars.





Tuberculosis cutis orificialis: around orifices in patients with vesciral TB Acute miliary TB: in non immune patients with multiple skinlesions Tuberculides: heamatogenous dissimination of bacilli in patients with high immunity.

Treatment

- 1. Isoniazid: 300 mg/day/6 months
- 2. Rifampicin: 600 mg/day/6 months
- 3. **Pyrazinamide:** 2-2.5 g/day/1st 2months
- **Ethambutol:**15mg/kg/day/1st
 2months





* Definition:

Leprosy is a chronic, systemic infectious disease affecting primarily the peripheral nerves and secondarily the skin, mucous membranes, the eye, the bones, and viscera

* Etiology: Mycobacterium leprae

- * Epidemiology:
 - Common in tropical and subtropical areas
 - Infection is usually contracted during childhood
 - Both sexes are affected, but lepromatous leprosy (LL) is more common in males

* Incubation period: 2 – 5 years in tuberculoid leprosy (TL) & 8 – 10 years in LL

Leprosy

* Mode of infection:

- Prolonged close contact with an open case
- By droplet infection (nasal discharge)
- Susceptible individual
- Long incubation period

Classification of Leprosy

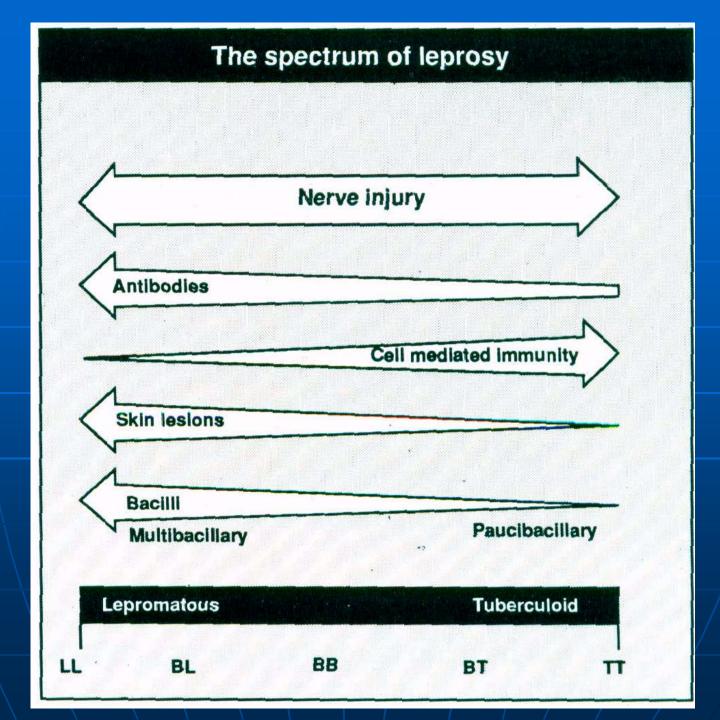
- 1. According to clinical, bacteriological, histopathological and immunological features:
 - Tuberculoid leprosy (TL)
 - Border-line tuberculoid (BT)
 - Border-line border-line (BB)
 - Border-line lepromatous (BL)
 - Lepromatous leprosy (LL)
 - Indeterminate leprosy

Classification of Leprosy

- 2. According to results of slit-skin smears:
- Paucibacillary leprosy: scanty or absent bacilli (TL & BT)
- Multi-bacillary: numerous bacilli (BB, BL & LL)

Diagnosis of Leprosy

Clinical
Slit-skin smears
Skin biopsy
Nerve biopsy
Lepromin test



Reactions in Leprosy

1. Type 1 reaction:

- Occurs in border-line leprosy
- Due to rapid change in immunity
- Nerves are swollen and tender
- Serious neurological complication may occur
- Skin lesions become erythematous, edematous and may ulcerate

2. Type 2 reaction (erythema nodosum leprosum):

- Occurs in BL & LL
- It is an immune-complex disease
- Characterized by painful, red nodules on the face and extremities
- Fever, malaise, myositis, artheritis & orchitis
- Nerve affection is less than in type 1 reactions

Treatment of Leprosy

* Paucibacillary leprosy: (TL & BT)

1. Rifampicin: 600 mg monthly supervised

2. Dapsone: 100 mg daily self-administered

Duration of treatment: at least 6 months

Duration of follow-up: at least 2 years

* Multi-bacillary: (BB, BL & LL)

1. Rifampicin: 600 mg monthly supervised

2. Dapsone: 100 mg daily self-administered

3. Clofazimine (Lamprene): 300 mg monthly supervised & 50 mg daily self-administered

Duration of treatment: at least 2 years

Duration of follow-up: at least 5 years











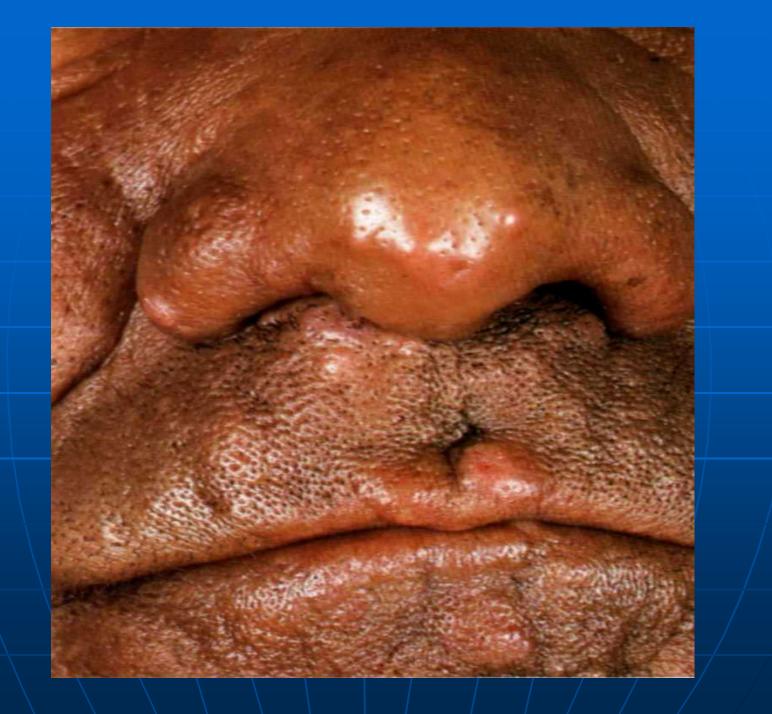


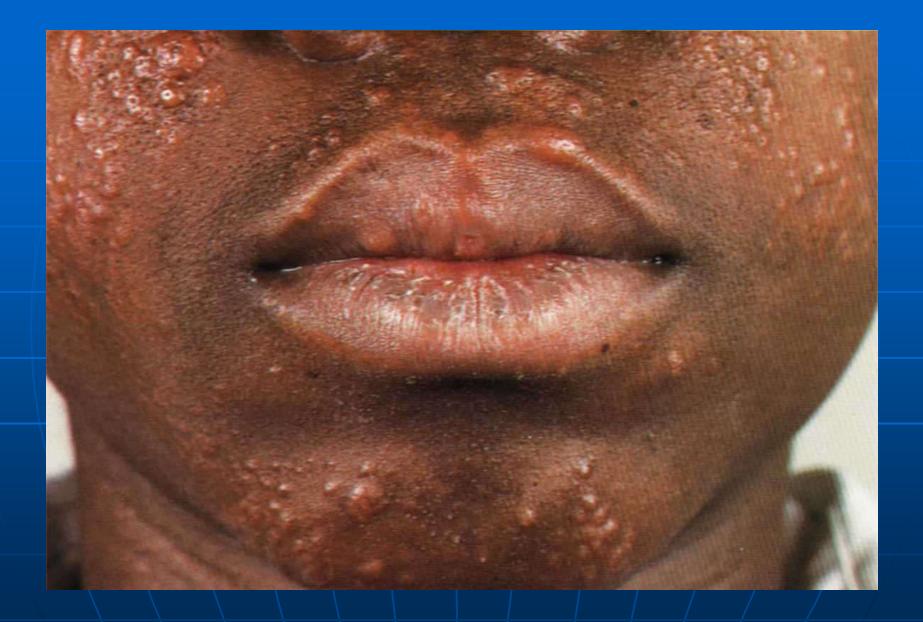


















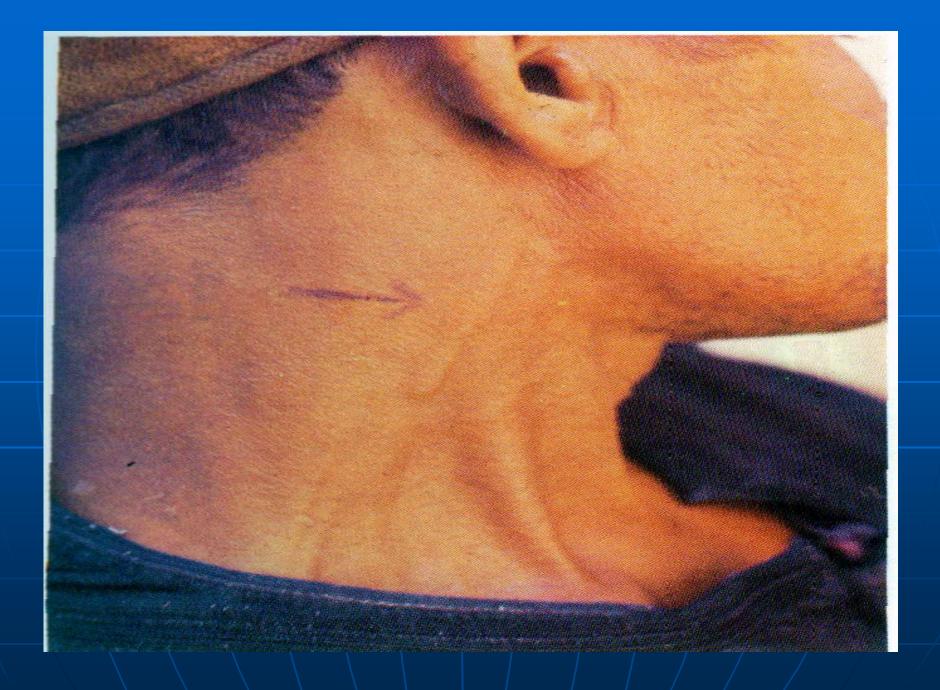
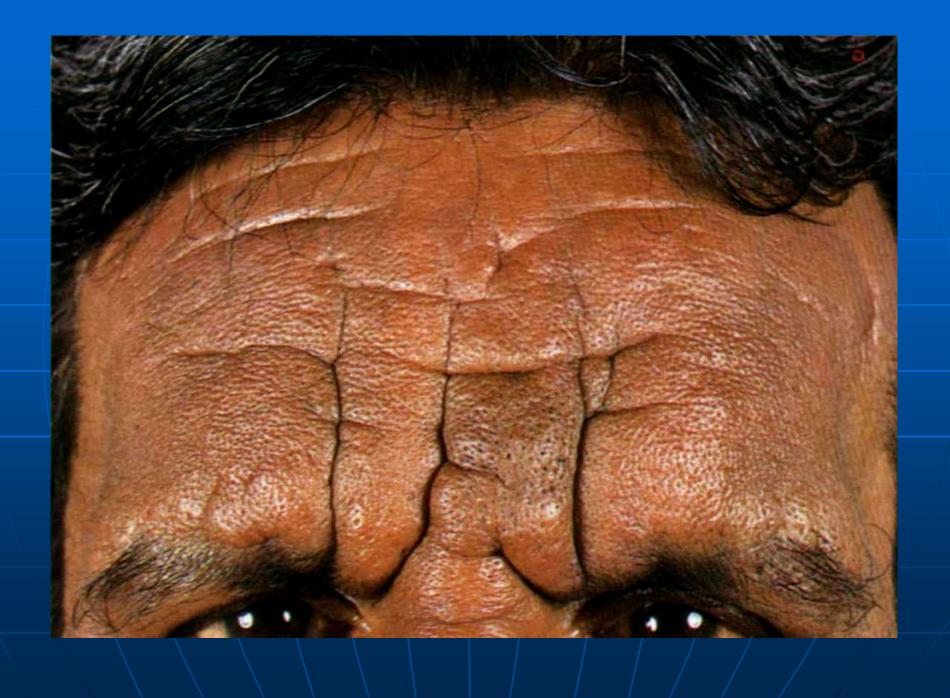


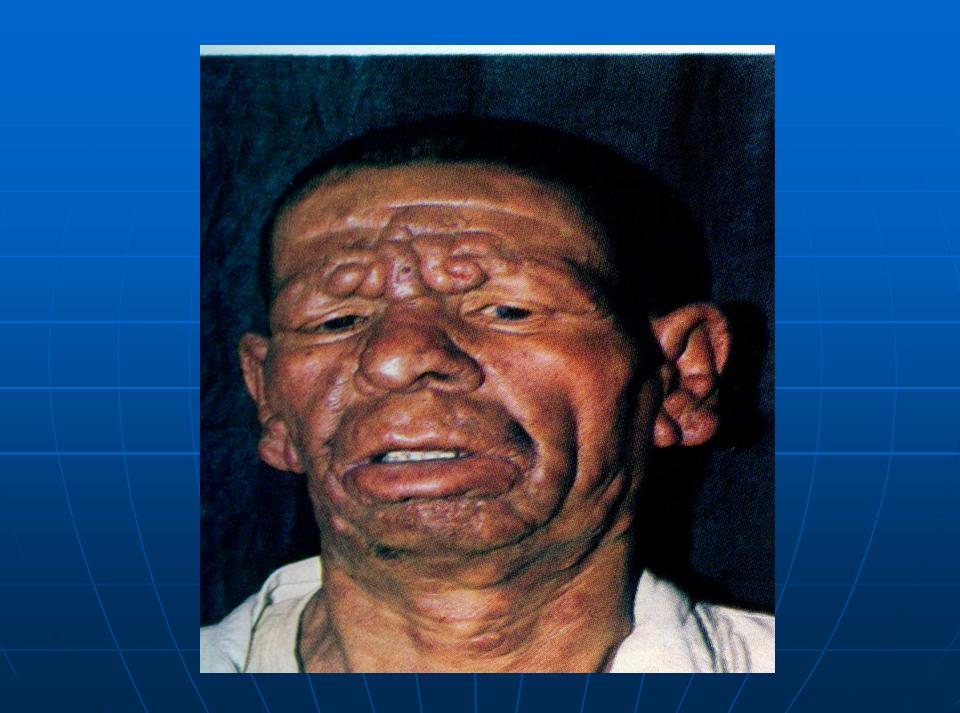


Fig. 46 : Leprosy - Acquired Ichthyosis

The leg shows ichthyotic changes. The foot is deformed due to paralysis of its small muscles.













Histopathology of lepromatous leprosy

