# **Cutaneous Tuberculosis**

#### Incidence of Tuberculosis

Pulmonary -

90%

Extrapulmonary -

10%

Cutaneous -

1-1.5%

#### Immunology

#### **PRIMARY COMPLEX**

-Ghon focus, Lymphangitis, Lymphadenitis

Tuberculin : PPD

Montoux Test: 5 T.U.

**BCG** vaccination

#### **CLASSIFICATION (BEYT)**

Inoculation tuberculosis (Exogenous)

Tuberculous chancre

Warty TB

Lupus vulgaris

Secondary tuberculosis

(Endogenous)

Scrofuloderma

Orificial TB

Hematogenous (Endogenous)

Lupus vulgaris

Tuberculous gumma

#### **Tuberculous chancre**

Primary complex -Skin

First episode – Non sensitized

Inoculation of mycobacteria onto skin



#### Tuberculous chancre

Tuberculous chancre +

affected regional lymph nodes

- Tuberculous primary complex

# Warty tuberculosis (Tuberculous verrucosa cutis)

Sensitized patient

**Exogenous infection** 

Auto- inoculation

Accidental inoculation



### Warty tuberculosis

(Tuberculous verrucosa cutis)

#### **Sites**

- -Exposed to trauma/
- Infected sputum

#### Clinically

Single warty papule/plaque



# Tuberculosis verrucosa cutis



Chronic progressive form

Commonest - India

Females > Males

Sensitized patient

Entry- Exogeno

- Endogen





Sites -

Head and neck

Limbs, buttock,

Mucosae



Clinically

Solitary papule,
Plaque, ulcer
Vegetating,

**Tumorous** 







### Complications

- -Scarring
- -Contractures
- -SCC
- -Active internal foci



#### Scrofuloderma

Contiguous involvemen

of skin overlying

tuberculous process

-Lymphnodes



#### Scrofuloderma

#### -Joint

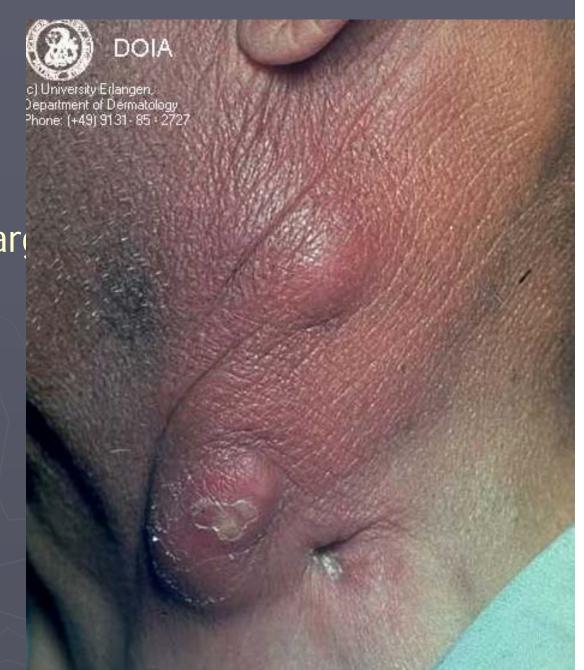


# Scrofuloderma -Bone



## Complications

- -Subcutaneous nodule
- -Ulcers /sinuses
- -Undermined bluish mare
- -Cheesy discharge
- -Heals with scarring



#### Orificial tuberculosis

#### **Active internal TB focus**

**Pulmonary-**

mouth, tongue

Intestinal-

genitalia

Anogenital-

perianal



# Tuberculous Gumma (Metastatic tuberculous abscess)

Hematogenous dissemination

Firm subcutaneous nodule

Fluctuant swelling

Undermined ulcer with sinuses

Miliary Tuberculos

Hematogenous

Infant / Children
Immunosuppressed host
Bluish crop of papules,
Vesicles, pustules



#### **Tuberculides**

Hypersensitivity phenomenon to organisms

Positive reaction to tuberculin

Presence of active proven TB elsewhere in

body

Favorable response to ATT

## Tuberculids (Eruptive)

- -Lichen scrofulosorum
- -Papulonecrotic tuberculid

# Lichenoid papular eruption

Lichen scrofulosorum

#### Papulonecrotic tuberculid

Symmetrical crop of necrotizing papules

Healing with scarring





# **Erythema Induratum**

Nodules

Painful shallow ulcers



### Diagnosis of cutaneous tuberculosis

Clinical history

Physical examination

Investigations

Diagnosis:

- Direct microscopy

-ZN

staining

Culture

- LJ medium

- Guinea Pig

Histopathology - tuberculoid granuloma

**PCR** 

#### **Treatment**

9 months

Initial Phase (2 months)-

-INH,RIF,PZA,E

Continuation phase(7 months)-

-INH, RIF

#### 6 months

Initial Phase (2 months)

:INH,RIF,PZA,E

Continuation phase(4 months)-

-INH, RIF

# DOTS

Regimen: extrapumonary T.B.