

# Viral Infections

## Herpes Viruses

- HHV-I Herpes Simplex virus-I
- HHV -II Herpes Simplex virus -II
- HHV III – Varicella Zoster virus

- HHV - IV - Epstein Barr virus
- HHV - V - Cytomegalovirus
- HHV - VI - Roseola(Exanthema subitum)
- HHV - VII - ?Ch. Fatigue syndrome
- HHV –VIII -Sexually acquired Kaposi's  
sarcoma

# Herpes virus infections

Grouped vesicular lesions

## Herpes Simplex

- HHV I
- HHV II



# Mode of Infection

Direct contact

Skin : Skin

Mucosa : Mucosa

Mucosa : Skin



# PRIMARY HERPES SIMPLEX

- Gingivo-stomatitis
- Genitalis
- Kerato-conjunctivitis
- Inoculation - whitlow





# PRIMARY HERPES SIMPLEX

- Gingivo-stomatitis



# Recurrent herpes simplex

Same site - Unilateral

Dorsal root ganglia





# Herpes Labialis





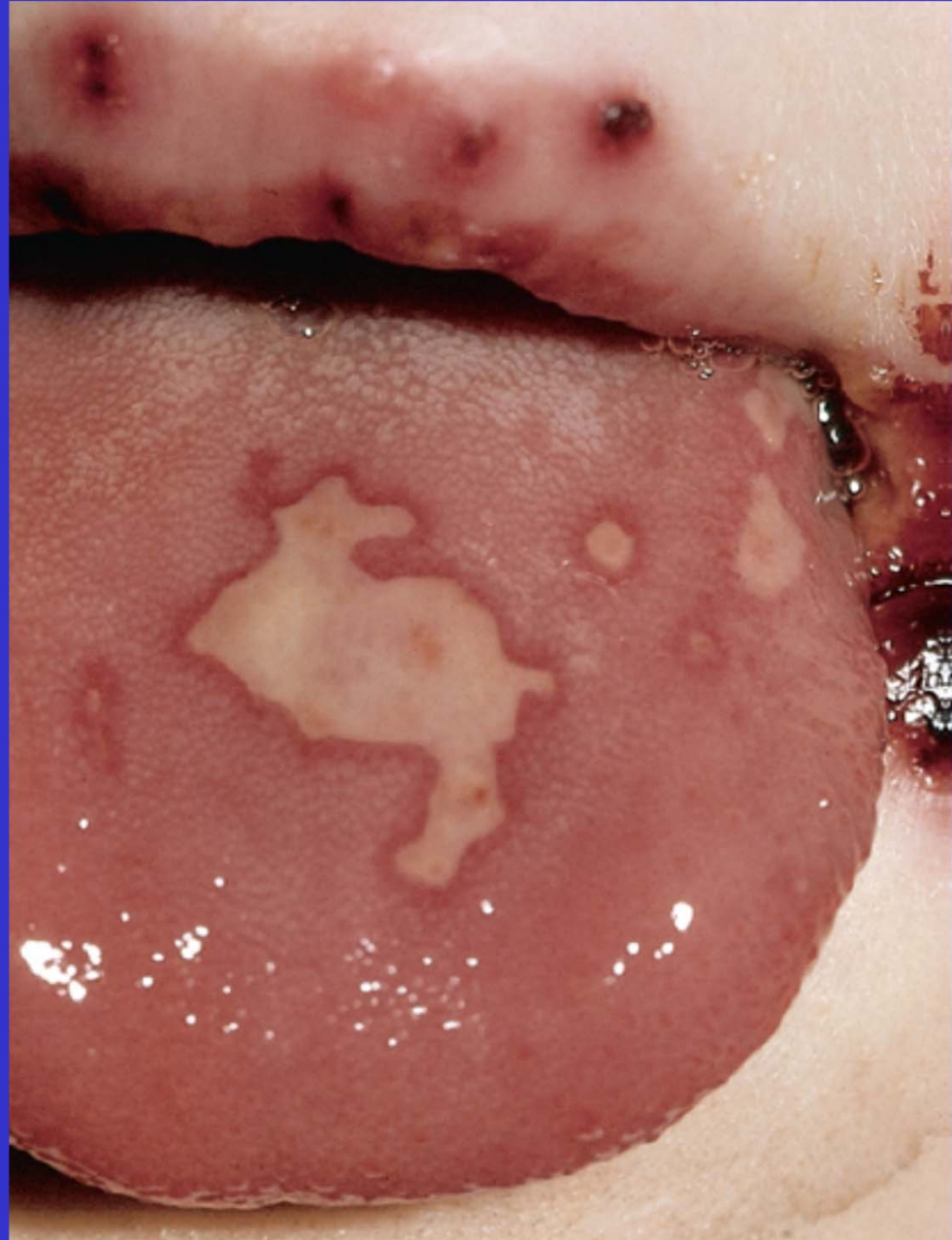
# Herpes Simplex

- Inoculation - whitlow



# Herpes Simplex

Chronic ulceration in  
immunocompromised



# Herpes Genitalis





# Herpes Genitalis





# Neonatal herpes simplex



# Herpes Simplex

Chronic ulceration in  
immunocompromised



# Dissemination of herpes simplex

Immunocompromised patient





# Eczema herpeticum





# DIAGNOSIS

## Clinical Features

Pain, burning sensation

Eruption

Fever

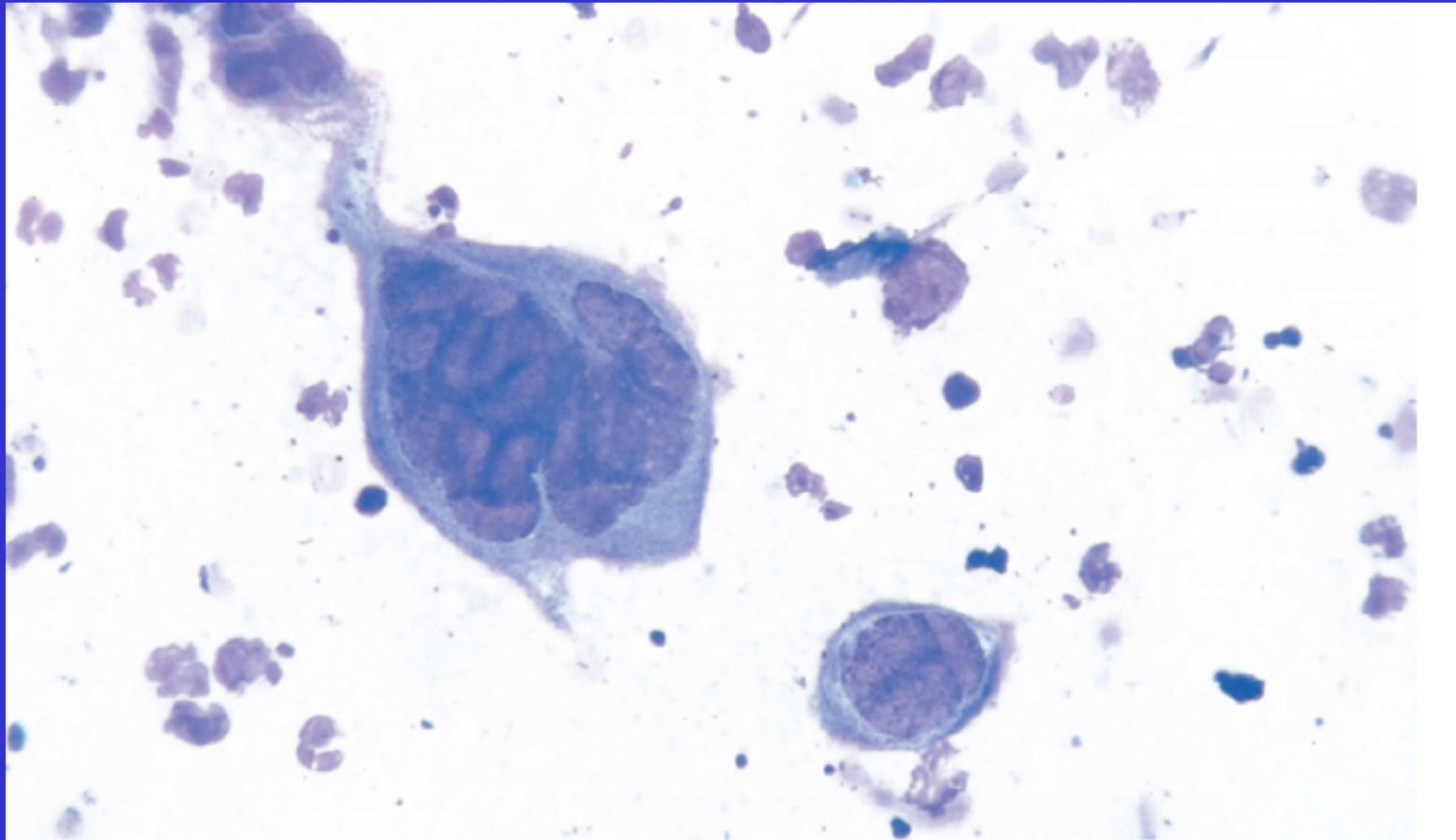
Grouped vesicular lesions

# Investigations

HSV - I,II Ab. - ↑ Titre

Inoculation - chick embryo

# TZANCK SMEAR





# TREATMENT

Acyclovir - 200mgX 5 times x 5 days

Start of therapy - 48 - 72 hours of primary

Recurrent HSV - No prevention

Recurrent episode - Treatment same

Prognosis - Recurrence less frequent with time

# **VARICELLA ZOSTER VIRUS**

## **INFECTIONS**

**First infection :** Varicella(chicken pox)

**Recurrent :** Herpes zoster

# VARICELLA

Age group - 2-10 YEARS

Droplet infection(resp.)

I.P. 2-3 weeks



- **Rash (exanthem)**

Vesicular, umbilicated

Red zone of erythema

Unilocular

Centripetal

Trunk, face, limbs





# VARICELLA



## **Secondary Infection**

Pitted scars

## **Enanthem**

Vesicular, erosion over palate

Crops- 3 – 4

## **Crust**

1 - 2 weeks non – infectious

Pruritus & burning sensation

# COMPLICATIONS

Secondary infection

Cutaneous gangrene

Thrombocytopenic purpura

Encephalitis

Varicella pneumonia

- **Varicella in pregnancy**

Varicella in utero

Miscarriage

Cong. varicella syndrome

Still birth



# TREATMENT

**Acyclovir** 800mg/5 times x 5 days  
(15-20 mg/kg)

# PREVENTION

Vaccination : Live attenuated

Hyper immune - zoster globulin within  
72-96 hours

# HERPES ZOSTER

Dormant VZV

- Dorsal root ganglia

Varicella in childhood

Subclinical VZV infection



# CLINICAL FEATURES

Ac. Neuralgia : Segmental

Vesicular, Eruption  
along dermatome

2 - 3 crops

Self limiting(1-2wks)



## SITES

|                       |   |     |
|-----------------------|---|-----|
| Thoracic              | - | 50% |
| Cervical              | - | 20% |
| Trigeminal/Ophthalmic | - | 15% |
| Lumbosacral           | - | 10% |
| Others                | - | 5%  |



# Herpes Zoster ophthalmicus



# Herpes Zoster maxillary div. (trigeminal)



# Herpes Zoster thoracis



# Complication

Pre herpetic Neuralgia

Herpetic Neuralgia

Post herpetic Neuralgia

- after 1 month

# DIAGNOSIS

- Tissue culture
- Not culturable - chick embryo
- Tzanck smear



# TREATMENT

- Acyclovir 800mg/5times x 5 days
- Analgesics
- Steroids

# Treatment of Post herpetic neuralgia

- Anti Depressants
- Doxepin
- Carbamazepine
- Ablation of nerve

# HHV - IV - EBV

- Infectious mononucleosis
  - Burkitt's lymphoma
  - Nasopharyngeal carcinoma