Lecture

Theme Damage of the mucous membrane of the oral cavity from infection (pyoderma, mycosis, virus diseases).

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INFECTIOUS AGENTS OF THE MMOC ARE:

- 1. Bacteria
 - 2 Fungi
 - 3 Virus
 - 4 Spirochaete and other

THE CLINICAL PICTURE JF ANY INFECTIOUS DISEASE DEPENDS ON 3 FACTORS

- 1. The condition of the macroorganism
 - 2. Virulence of the agent
 - 3. Collaboration with each other

PYODERMA is purulent disease of the skin

The leading role belongs to staphylococcus and streptococcus, but may be other agents (pseudomonas, corynebacteria, vulgar protei)

While practising a dentist comes across superficial streptoderma and mixed pyoderma

PREDISPOSITIONAL FACTORS:

- Exogenic: trauma, maceration, inflammation
- Skin diseasis
- Endogenic:
- Caries
- Tonsillitis
- Sinusitis
- Supercooling
- Disorder of neuro-endocrine system
- Decrease of immune status
- Diseases of gastro-intestinal tract, liver and others.
 - Take GCS and cytostatics.

PATOGENESIS

- Staphylococcus and streptococcus produce exotoxins:
- hemolysin, leicotoxin, fibronolysin, necrotoxin
- and numerous enzymes melting human tissues.

CLASSIFICATION OF PYODERMA

According to etiology

Staphyloderma

Streptoderma

Mixedas

For depth:

Superficial

Deep

- As for the course:
- Acute
- Subacute
- Chronic

According to the origin:

Primary

Secondary

FEATURES OF AGENTS

- Staphylococcus prefers to damage skin appendages (hair follicles, sebaceous glands, sweat glands).
- Streptpcoccus prefers smooth skin.
- Mixed pyoderma

STAPHYLODERMA IN PRACTISING A DENTIST

SUPERFICIAL

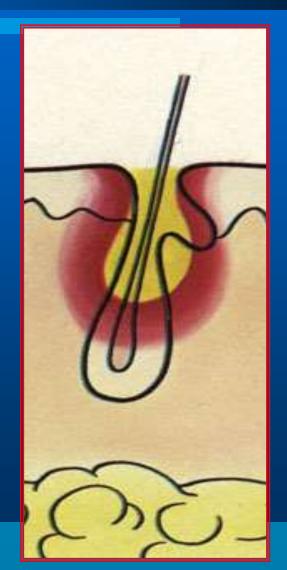
- 1. Ostiofolliculitis
- 2. Folliculitis
- 3. Vulgar cycosis

DEEP

- 1. Furuncle
- 2. Carbuncle

VULGAR CYCOSIS

Vulgar sycosis is a staphilococcus sycosis with numerous follicles and osteofollicles with expressed inflammative reation in the upper dermis layer.



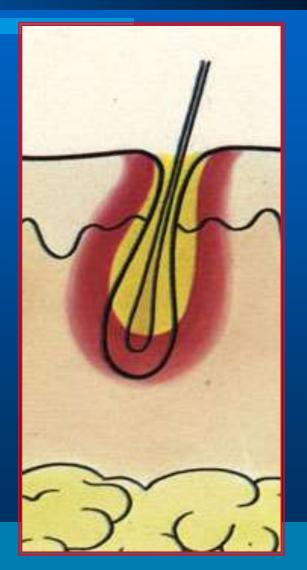
VULGAR CYCOSIS



- Location:
- Beard
- Moustache, Subaxilary cavity

FURUNCLE is a acute purulent-necrotic inflammation of the hair follicle and perifollicle of the connective tissue.

- The primary element is an inflammative- congestive hyperremia node, cone in the form, painful.
 After fluctuation you witness autopsy and formation of necrotic shaft and ulcer.
- Course of the disease depends on its location.
- Furuncles on the face are dangerous.
- Furunculoses is when there are numerous furuncles on the skin.



Complications

- Lymphangit
- Regional lymphadenitis
- Flegmon
- Osteomielitis,MetastasizingAbscesses
- Sepsis
- Meningitis and
- others.



CARBUNCLE



• CARBUNCLE is purulent-necrotic inflammation in the deep derma layers and hyperderma involving a lot of hair follicles during the process

CARBUNCLE

- Carbuncle is a deep and severe form of staphyloderma.
- Clinical picture is red infiltrate?Very painful
- The black colouration because of necrosis.
- After dissection it was called carbo in LATIN COAL.
- There are signs of intoxication, pains.
- After dissection there remains a scar of irregular form.



CLINICAL MANIFESTATIONS OF STREPTODERMA

SUPERFICIAL

- 1. Streptococcus impetigo
- 2. Dry streptoderma
- (vulgaris facial lichen)

DEEP

- 1. Vulga ectima
- 2. Erysipilas

Streptococcus impetigo

- The primary element is a flabby blister FLUCTENA
- FLUCTENA contains serous exudate with a corolla hyperemia.
- It can increase in size
- After breaking they form erosions.
- It is contagious and inclined to autoinoculation
- It can be in several forms—
 annular, slit, bullous
 panaritium. there remain no
 scars.



Erysipilas

- Erysipilas is deep acute streptococcus damage of skin accompanying by fever and intoxication.
- Streptpcoccus gets into through damaged skin and affects lymph vessels of the skin.
- Incubation period can be of several days.
- Clinically it looks like a red hydropic spot.
- It is painful and hot if you touch it.
- It increases in size, the borders are festoon like fire flames.
- The patient suffers from high temperature and headache.



Contagious impetigo



Botriomicoma or pyogenic granuloma

- Botriomicoma or
 pyogenic granuloma arises in
 1-2 weeks after injection or
 trauma.
- Full development is in 10-12 days.
- It is a edunculated tumour.
- Its size can be from a pea to a walnut.
- THE surface looks like a raspberry.



Botriomicoma or pyogenic granuloma



WHEN touched it easily bleeds.

The location is hands, feet, face and seldom mucous membrane.

It will not become malignant.

It can become ulcerated, necrotic and keratinised.

Chancreform pyoderma

- Chancreform pyoderma looks like a lues.
- Its location is on lips, MM ON TONGUE.
- Pustule obducts fast and forms an ulcer with scanty secretions rounded outlines,
- smooth edges
- without any inflammation around,
- pains are weak or there is no pain at all.
- Regionar nodes can be
- increased,
- they are dence(firm) and painless.



Cronical ulcer face pyoderma.



- Ulcer pyoderma is characterised by hard ulcerated skin.
- It is often caused by inflammative diseases of the
- Intestines/
- The real cause of ulcer pyoderma is not clear but the disease has been thoroughly studied.

 Язвенная пиодермия – характеризуется тяжелым изъязвлением кожи, очень часто обусловлена

воспалительным

How to diagnose pyoderma?

Secondary pyoderma



- 1.The clinical picture presence of pustules, blisters, node.
- 2. Microbiological research
- 3. Bacteriological research

Treatment

 1.Topical (for superficial - Aniline dyes, spiritus with antibiotics, desinfectant solutions, oinment with antibiotics, for deep damage- ihtiol, dimecsid

 2. The general (surgical treatment- removal of botriomycome, antibiotecs, immunotherapy- specific and nonspecific, GCS (small doses)

Indications for general pyoderma therapy

- 1. Signs of intoxication
- 2. Deep face pyoderma
- 3. Chronical pyoderma
- 4. When the local therapy fails.

Dermamycosis is fungul skin diseases

- CLASSIFICATION
- 1.Keratomycosis
- 2.Dermamycosis
- 3.Candidiasis
- 4.Deep mycosis (aktinomycosis and others)

Candidiasis. The agent of candidiasis is an yeast-like fungus-candida albicanssaprophyte.

Exogenic reasons

- are long traumatic action by artificial(prosthetic)
- device,
- irritating food.

Endogenic reasons

- taking antibiotecs, corticosteroids, cytostatics
- DISEASES of gastrointestine tract,
- diabetes mellitus,
- a shortage of group B,C VITAMINS,
- Oncology and others.

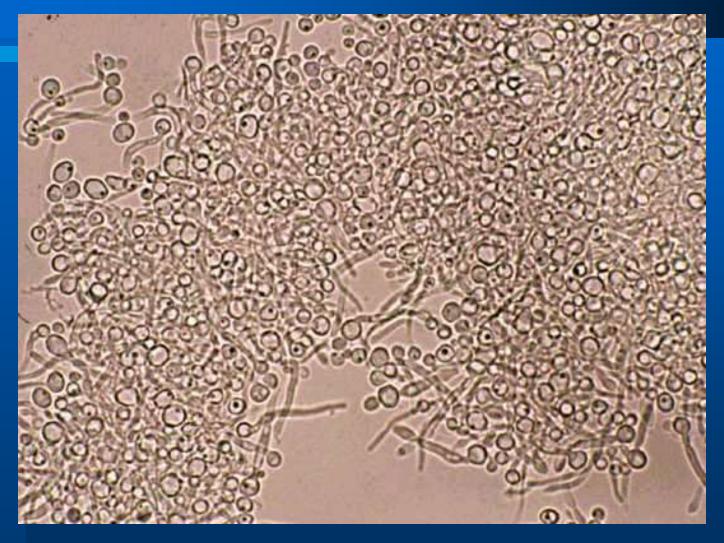
Clinical picture candidiasis of oral caviti:

- 1. Candida stomatitis
- 2. Candidiasis of gingivae
- 3. Candidiasis of tongue
- 4. Candidiasis of angular.
- Hyperemia and white patch can be easily removed.
- there are symmetrical cracks in the corners of the mouth.
- Subjectively pain

Diagnosis and differential diagnosis

- DIAGNOSIS:
- 1.Clinical pictures.
- 2. Microscopic examination: Smears show yeastlike fungi.
- Differential diagnosis:
- Leukoplakia is a white film without inflammation, cannot be removed by shpatel
- LRP— a white net cannot be removed.

Direct microscopy



KOH preparation of candida showing pseudohyphae

Treatment of candidiasis:

- 1. Investigations
- 2. Local treatment: aniline dyes,
- disinfection remedies- betadine solution, 10-20% borax solution in glycerol,
- Lugol solution, cream Candid (Clotrimazol), nystatin and leverin ointment on the lips.
- 3. General treatment: systemic antimycosis- fluconasols, amfoterisin B

Actinomycosis is a disease caused by radiant fungi - actinomisetamy

- Any organs and tissues can be damaged.
- More than 70% are affected by MM and face.These fungi locate:
- in various teeth,
- periopical focuses
- gingivai pockets
- tonsils
- salivary
- Endogenic way of fungus invasion.
- The reasons are traumas, inflammation.



Actinomycosis of MM

- Primary (after trauma)
- Secodary (from submucous π/ж periosteum, bones).
- Typical area of location: MM of the lower lip,
- cheek, under tongue,
- side surface of the Tongue.
- Clinics: inflammation infiltrate of congestive-red colour, then softening, more bright
- Color, abscess formation
- Subjective feeling : painful



Diagnosis of actinomycosis

- Hystologically: a specific granuloma around mycelium
- Criteria of diagnosing:
- 1. Clinics
- 2. Microbiological investigation
- 3. Hystological research
- 4. Skin-allergic reaction with actinolisate.

Treatment of actinomycosis

- General treatment:
- 1. Actinolisat or actinomisetic polyvalence vaccine
- Locally:
- 1. Autopsy of focus, curretage of granulation, antiseptic solutions.
- 3. Physic treatment: electrophoresis of calcium, the iodine, lidasum (depends on the stage)

 Prevention: avoiding traumas, removal of foreign body, keeping mouth cavity in order.

Viral dermatoses

- 1. Simplex herpes
- 2. Zoster herpes
- 3. Contagious molluscum
- 4. Warts

Types of simplex viruses

- The first type affects the upper part of the body and persist in ganglion of the trigeminal nerve.
- The second type affects the lower part of the body and persist in sacral ganglion.

Ways of passing:

- 1. Airborne
- 2. Contactive(direct and indirect).
- 3. Transplacental
 - 4. Transfusionall

Simplex herpes - skin disease caused by vulgar viruses

- Clinics:
- Erythema
- Edema
- Grouped vesicles
- Erosions are formed, They dry
- Up and crusts are formed.



Pathogenesis

- VV intrude into DNA cells and turn them into ballon. There appears balloting degeneration in the cells of prickly layer.
- Blood and lymph vessels expand.



Laboratory diagnosing of simplex herpes

- 1.Serological method- detection of antibodies JgG
- JgM tells us about primary infection

2.Polymerase chain reaction (ПЦР) or DNA diagnosing

CLASSIFICATION OF SIMPLEX HERPES

- 1.Easy (relapse 1-3 times a year)
- 2. The average degree of gravity (4-6 times a year)
- 3. Severe (more than 7 times a year)
- **4.Extremely severe (** more then 19 relapses times a year)
- 5. Constantly relapsing herpes

Topical treatment of SIMPLEX herpes

- Aniline dyes: diamond green, methylene blue, Hentiavill, betadin solution
- Antiherpetic cream,

- 1.Frequent exacerbation(more than 4 times a yearParticular circumstances (vacation, wedding, jubilee and other important events). Psycho-
- sexual disorders.
- 1. Synthetic nucleosides: aziclovir, Zovirax,

Indications for general SIMPLEX herpes therapy

- 1.Frequent exacerbation(more than 4 times a year
- 2. Particular circumstances (vacation, wedding, jubilee and other important events).
- 3.Psycho-sexual disorders.

General therapy SIMPLEX herpes

- **1. Synthetic nucleosides:** Aziclovir, Zovirax, Famvir, Valaziclovir.
 - 2. Specific immunotherapy: herpes vaccine vitaherpavak
 - 3. Non-specific: interferon or inductors of interferons

Herpes zoster

- The virus varicella zoster (VVZ)
 - causes 2 different diseases:

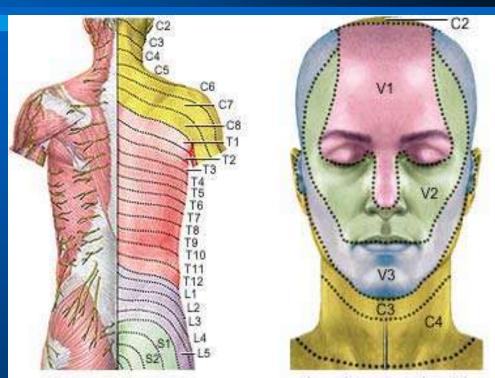
- 1. Chickenpox.
- 2. Herpes zoster

Clinics herpes zoster

- Pain in one side on one or two branches of trigeminal nerve or face nerve,
- Clinics:
- Erythema
- Edema
- Grouped vesicles
- May be one focus, may be more

Herpes zoster

- Typical location:
- Asimmetric
- Face
- MM
- Back
- Chest
- Extremities



Dermatomes are areas on the skin supplied by sensory fibers of the spinal nerves



Treatment for herpes zoster

- 1. General therapy
- 2. Topical treatment
 - 3. Physiotherapy

General therapy

- 1. Synthetic nucleosides (aziclovir, valtrex, famvir, panavir)
- 2.Anesthetic medicines: phynlepcin according to the scheme
- 3. Antiflammatory remedies: salizilats, antibiotics

Topical treatment and physiotherapy

- Local treatment: aniline dyes, anti-virus creams, gel, spray.
 - Physiotherapy:
- Ultraviolet irradiation
- Bernar toque (electricity)

Warts

- Warts are caused by human papilloma.
- Types of warts:

- 1. Vulgar
- 2. Flat.
- 3. Plantar
- 4. Pointed condylomas (warts)



Treatment for warts:

- 1. Cytoxic medicines
- 2. Destructive method(creodestruction, laserdestruction,
- 3. Immunological: interferon, inductors of interferon
- 4. Combined
- There are no specific anti-virus remedies to treat warts



Contagious molluscum

- Contagious molluscum caused by viruses.
- Clinic:
- papules,
- noninflamation,
- small size
- Meet of child more often



Contagious molluscum

- Location:
- Fase
- Neck
- Eyelids
- Chest
- Hand



Treatment for contagious molluscum

- 1. Destructive method
- 2. lodine



Thanks

