Term	Topic content
Pemphigus Vera	Pemphigus Vera is a malignant autoimmune disease which
<b>I</b> 8	declares itself as elaboration on uninflamed skin and mucous
	coats of bulla being developmental as a result of acantholysis
	and generalized for whole skin integument without appropriate
	treatment.
Etiopathogenesis	Etiology is not investigated fully but autoimmune mechanisms
	are very important in pathogenesis. The circulating
	autoimmune antibodies of lgG type related to intercellular
	substance of prickle-cell layer and membrane antigens of
	prickle epithelial cells were discovered in organism of patient
	with pemphigus. For the now, there is no clear vision of
	autoimmune antibodies' action mechanisms during pemphigus
	vera. The patients have been discovered autoimmune
	antibodies for albumins of skin keratinocyte cell-cell becoming
	a part by
	desmos and forming relations between cells - desmoglein-3
	(DSG3) and desmoglein-1 (DSG1).
	Interaction of autoimmune antibodies with DSG1 and DSG3
	leads to acantholysis (breaking of cytoadherence between
	keratinocytes) resulting in formation of clefts filled up with
	subcutaneous water inside the epidermis and mucous coats and
	appearance of buils. As far as epidermis growths the buils are
	opens resulting in formation of anabrosis on skin and mucous
	coals.
	The difference in damages being observed during penipingus
	distinction in localization and density of DSG 1 and DSG3
	avpression Desmoglain 3 is avpressed in deep layers of
	expression. Desinogram-5 is expressed in deep layers of
	desmoglein $1$ is expressed in facial layer of skin keratinocytes
	The expression of these desmogleins is observed mostly in
	cells of laminated enithelium. It depends on human's age and
	changes in accordance with allocation of cells in epidermis. It
	is understandable that bundling of autoimmune antibodies with
	DSG3 molecules on the surface of keratinocytes plays decisive
	role in process of acantholysis. Great significance in
	acantholysis induction the apoptosis has induced by failure of
	cells normal functioning because of lost contact with adjacent
	cells. It is proved that dominant class of autoimmune antibodies
	at pemphigus the IgG antibodies are of IgG4 subclasses mostly,
	more rarely these are antibodies of IgG, and IgG2 classes. The
	patients with active form of disease have the immunoglobulins
	of IgG, and IgG4classes as main autoimmune antibodies. The

	patients in disease-free
	survival the dominant antibodies are antibodies of IgG, class
	but they also have antibodies of IgG4 class since its dilution is
	much less than at recrudescence of disease. The result of
	antibodies action is
	an attenuation of intercellular substance and destroying by
	desmos i e loss of connection between epidermal cells
	(a can the lysis) As a result of a can the lysis the a can the lysis
	hullas typical of Pemphigus Vera are appear in enidermis (in
	distinction to pemphigoid)
Clinic findings	There are four clinical forms of pemphigus very which are
Child lineary	ulgaria (common) schorrhool (nomphigus vera which are
	vulgans (common), sebonnear (pempingus erymematosus),
D	
Pempnigus	declares itself by bulla which has soft rugate tegmentum,
Jouaceus	layered scaly further and crusts. The differential characteristic of
	this form is absence of regeneration under crusts and formation
D 11	of new bulla on place of cicatrization.
Pemphigus	occurs more often in comparison with other types of
vulgaris	pemphigus vera. As a rule, the disease begins from damage of
	oral mucosa and throat which could exist separately during few
	months. Bulla breaks fast and transforms into painful bright-red
	or covered by whitish deposit of anabrosis bordered by pieces
	of epithelium (residues of bulla cover). Then bulla appears on
	skin. Bulla are located on externally unchanged skin and they
	full of transparent serosal content.
	After existence during few days the bullas are open having
	been left anabrosis of bright red color. Sometimes their content
	becomes opacity or suppurative. Common condition of patients
	is satisfactory at first but it becomes worse gradually. The
	weakness appears and a low-grade fever. Anabrosis are
	epithelized slowly.
Pemphigus	occurs on seborrheal areas of skin (face, hairy part of the head,
seborrheal	cervix, dorsum). It is characterized by occurrence of spots and
(erythematosus)	soft surface bulla with thin tegmentum which are fast-
	transformed into scaly crusts. After crusts being removed the
	wet eroded surface is open. The formation of bulla could be
	hidden resulting in impression of primary appearance of crusts
	which reminds seborrheic dermatitis.
	As distinct from pemphigus vulgaris the course of disease is
	long-standing and relatively nonmalignant. The common
	condition of patients is agglutinin aggravates at condition of
	prominent prevalence rate of process only.
Pemphigus	is characterized by such differential characteristic as
vegetans	appearance on the bottom of bulla of enlargements in form of
	vegetations which overhang over the faying surface. Typical

places of hives localization are outer genital organs, big
sentinel piles, inner surface of hips, oral mucosa.
The criteria of diagnostics for pemphigus vera include clinical
and laboratory evidences of presence of acantholysis in
epidermis and epithelium of mucosa coats.
There are seven most criteria distinguished: typical clinical
picture of
damage, the bulla on unchanged skin, long-standing anabrosis
on skin and on unchanged oral mucosa, conjunctiva, nasal
mucosa, genital organs. There are residues of bulla tegmentum
could be observed on the periphery of anabrosis; Nikolsky s
sign on externally unchanged skin. At weak tension by finger
of outwardly healthy skin near the bulla and sometimes far
from them the lamination of epithelium surface layers occurs
with formation of anabrosis. This phenomenon is considered to
be most informative at diagnosis of all types of pemphigus.
However, it is not pathognomonic; Nikolsky s edge sign (while
pulling by forceps of pieces of bulla tegmentum the lamination
of epithelium out of borders of visible anabrosis occurs);
Asboe-Hansen sign. Pushing the bulla leads to increasing of its
square; determination of Nikolsky's and Asboe-Hansen's signs
are important diagnostic clues for establishing of provisional
diagnosis, however, they are non-specific, the cytological,
histologic and immunomorphologic approaches are used for
diagnosis confirmation; cytological approach of diagnostics
(cytodetection by Isank) provides obtaining of impression
smears from the bottom of fresh anabrosis. For this the object
carrier is used which is solidly applied to the surface of fresh
anabrosis. For getting of smears from anabrosis on mucosa coat
of bony and soft palate and throat the mediated approach of its
obtaining is used, the soft scraping of anabrosis surface is
performed by blunt depressor of by nutrient spoon avoiding
visible damage of surface and escape of blood after which the
material being taken from the bottom of anabrosis is applied
calefully to the object sufface in form of smear. Obtained
Sinears are uned and painted by the method of Romanovsky-
Tsank's acoutholytic cells are determined. This is a changed
cells of spinous layer which were subject to acaptholysis
degenerated and thus obtained morphological and tinctorial
properties which differs them from normal cells of this layer
they are round (oval) disengaged and less than normal
enidermal cells by size the nucleus of acantholytic cells are
painted intensively: there are two or three small nucleus could
be discovered inside the enlarged nucleus: cvtoplasm of cells is

	extremely basophilic and is painted unregularly; the light-blue area is formed around the nucleus and the condensation of painting in view of intense blue border occurred on periphery; under pemphigus the acantholytic cells could form a symplast cells which have several nucleus. Histologic approach of examination is one of the most and obligatory while confirmation of pemphigus vera diagnosis. It is necessary to biopsies the fresh bulla or marginal layer of anabrosis with pinch of undamaged skin. The most earlier histologic changes in epidermis under pemphigus vera are vacuolar degeneration and disappearance of cell bridges in bottom part of spinous layer. Because of acantholysis the clefts appears inside the epidermis and then a bulla located suprabasally (i.e. over basal layer of cells, intraepithelial). The typical histologic characteristic under pemphigus vera is also
	discovering of separate changed prickle cells which after loss of connection with each other are left attached to the layer of unchanged basal cells. Immunomorphologic approaches play decisive role in diagnostics of pemphigus vera. Even at early developmental stages the approach of direct ELISA on frozen skin sections allows to discover the deposits of class G immunoglobulines and complement localized in intercellular space of epidermis (greenish fluorescence). The approach of indirect immunofluorescence in blood and bulla liquid allows to discover high dilutions of autoimmune antibodies (IgG) in relation to proteins of elements by desmos. The height of their dilutions is straight correlate with heavy of section for pemphigus vera.
Treatment	Till now, the causation of pemphigus vera is not known so the treatment of this group of diseases is left pathogenetic and directed to depression of fusion of autoimmune antibodies to the proteins of epidermis spinous cells' desmosomal linkages. The main remedy of the systemic medication of patients with pemphigus vera are the glucocorticosteroid hormones. They are assigned independently (monotherapy) of together with cytostatic (combination therapy) - with azathioprine or metatrexate, cyclophosphamide, cyclosporine A. Combination therapy is implemented during treatment of pemphigus which is resistant to the high doses of glucocorticosteroids and in case of necessity of its daily dose decreasing (loading or maintenance). The treatment of patients with pemphigus vera should be started from loading doses of glucocorticosteroids, preferably from prednisolone or prednisone. The dose of prednisolone of

	100-120 mg per day is an adequate loading dose allowing to
	stop the forming of hulla and to enforce the epithelialization of
	anabrosis
	When the alucocorticoid therapy is assigned it is necessary to
	remember that afficiency of treatment is increased if doily dose
	of hormono is divided in accordance with physiclesical rhythm
	of normone is divided in accordance with physiological mythin
	of provisional cortex secretion normones. Maximum dose of
	glucocorticosteroids (usually it is a two thirds of daily dose) is
	being used after meal in morning and one third more at day.
	The therapy should be started after complete clinical
	examination of the patient and verification of diagnosis (biopsy
	of damaged skin, immune histochemical tests). Unfortunately,
	there are no such drugs which will decrease selectively the
	formation of autoimmune antibodies of pemphigus only
	without simultaneous depression of biosynthesis of many other
	protective antibodies. A variety of other undesirable effects
	(Exogenetic (medicamental) Cushing syndrome,
	immunosuppression, water-salt balance failures,
	hypoproteinosis, intestine issues and other) is opposed to the
	same anti-inflammatory and antiproliferative action of
	glucocorticosteroids.
	There are water and alcohol solutions of aniline colorants used
	for local therapy as well as aerosols, unctures and creams
	containing glucocorticosteroids.
	The course is chronicity with intermitting remissions and
Course and	recrudescence. The using of glucocorticosteroids and
prognosis.	immunosuppressants rapidly improves the prognosis. Cause of
	death for the now is generally results of continuous treatment
	by glucocorticosteroids and immunosuppressants.
Erythema	Erythema multiforme (EM) is an acute, self-limited, and
multiforme (FM)	sometimes recurring skin condition that is considered to be a
	type IV hypersensitivity reaction associated with certain
	infections, medications, and other various triggers
Ftionathogenesis	The cause of erythema multiforme is not fully understood. It is
Euopathogenesis	most likely a skin directed immune reaction which occurs
	following exposure to a trigger in certain 'predisposed'
	individuals.
	The most common triggers are infection in around 90% of
	cases, and medications in less than 10% of cases
	The most commonly associated infection is herpes simplex
	virus (the cold sore virus). An uncommon bacterial infection
	called mycoplasma pneumoniae is the most common bacterial
	trigger to have been identified. Many other viral, bacterial and
	fungal infections have been implicated.
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	Medications are an uncommon trigger of erythema multiforme.
	when medications are the trigger it is more likely that an
	individual will develop erythema multiforme major. Drugs
	which have been identified as precipitating EM include non-
	steroidal anti-inflammatory drugs (given for joint and muscle
	pain), antibiotics and anticonvulsants (used to treat epilepsy).
Clinic findings	Erythema multiforme is characterised by the sudden
	development of few to hundreds of red papules (spots). The
	papules usually begin over the back of the feet and hands, and
	spread upwards towards the trunk. The face is often involved
	The hands and arms are more commonly affected than the feet
	and less Over time these papules evolve to plaques (raised
	and legs. Over time these papties evolve to plaques (faised
	patches) and then typical target shaped lesions. These target
	lesions have a dusky red centre, a paler area around tins, and
	then a dark red ring round the edge. Sometimes the centre of
	the target can be crusted or blistered. The targets can be
	different shapes and sizes, hence the latin name: erythema
	(redness) multi (many), forme (shapes). Erythema multiforme
	is usually mild - 'erythema multiforme minor' – with only skin
	involvement, causing little trouble and clearing quickly. There
	is also a rare but more severe type, 'erythema multiforme
	major', which has similar skin features to EM minor.
Erythema	The spots usually develop over the course of 3 - 4 days, starting
multiforme minor	on the hands and feet, and then spreading up the limbs to the
	trunk and face.
	At first the spots are small, round, slightly raised red areas.
	some of which turn into the 'target lesions' described above.
	These are $1 - 3$ cm (0.3 - 1 inches) across, but may fuse
	together to produce larger areas Small blisters form in the
	centre of some of the targets
	The rash usually fades over 2 - 4 weeks
	There are usually no complications from this type of erythema
	multiforme
	Pocurrances are common in some individuals, especially where
	hormon simplex virus is the trigger
Figtheres	Detients feel ill and have a high temperature
	The spots are usually larger and mu into each other more then
muluionne major	these of emitteened multiformed minor (Terest lesions' on
	those of erythema multiforme minor. Target lesions can
	usually still be seen.
	Large blisters may form, and then burst to leave red oozing
	areas.
	Your lips may be covered with crusts, large raw areas may
	appear inside your mouth, and your eyes may swell up and turn
	red.
	Complications are rare and are mainly from scars of the

	mucous membranes in the mouth or the eyes.
Diagnostic	There are no specific blood tests for erythema multiforme. The diagnosis is usually made by identifying the characteristic rash on the skin and a story of recent exposure to one of the known triggers discussed above. Occasionally it is necessary to do a skin biopsy (to remove a small sample of skin under a local anaesthetic) to confirm the diagnosis under the microscope and exclude other possibilities.
Treatment	Mild rashes will clear up in a few weeks spontaneously, though moisturisers and topical corticosteroids can be given to hasten recovery and reduce symptoms of itch or burn. Severe rashes can be life threatening. Patients may need to be nursed in hospital, occasionally in a burns unit, using dressings like those needed for an extensive burn. The pain from the raw areas can be severe and regular pain control may be required. The oozing areas can leak large amounts of fluid and this will be monitored and replaced with intravenous fluid through a drip if oral intake is inadequate due to mouth sores. In the absence of infection, oral corticosteroids are sometimes given in the early stages of the eruption. Antibiotics help if the damaged skin is infected. An eve specialist may be needed if
	in the early stages of the eruption. Antibiotics help if the damaged skin is infected. An eye specialist may be needed if the eyes are severely affected.