Term	Topic content
Pemphigus Vera	Pemphigus Vera is a malignant autoimmune disease which
I Same and	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	Aetiology 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 bulls. As far as epidermis growths the bulls are
	opens resulting in formation of anabrosis on skin and mucous
	coats.
	The difference in damages being observed during pemphigus
	vulgaris and during pemphigus foliaceus is aligned with
	distinction in localization and density of DSG 1 and DSG3
	expression. Desmoglein-3 is expressed in deep layers of
	epidermis and in epithelium of mucous coats while desmoglein-
	1 is expressed in facial layer of skin keratinocytes. The expression of these desmogleins is observed mostly in cells of
	laminated epithelium. 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 IgG/classes as main autoimmune antibodies. The
	of IgG, and IgG4classes as main autoimmune antibodies. The patients in disease-free
	patients in disease-nee

survival the dominant antibodies are antibodies of IgG, class by they also have antibodies of IgG4 class since its dilution much less than at recrudescence of disease. The result of antibodies action is an attenuation of intercellular substance and destroying be desmos i.e. loss of connection between epidermal cel (acantholysis). As a result of acantholysis the acantholytic bullat typical of Pemphigus Vera are appear in epidermis (indistinction to pemphigoid). Clinic findings Clinic findings Clinic findings Clinic findings There are four clinical forms of pemphigus vera which as vulgaris (common), seborrheal (pemphigus erythematosus vegetans and foliaceus. Pemphigus declares itself by bulla which has soft rugate tegmentum, layered scally furfur and crusts. The differential characteristic of the form is absence of regeneration under crusts and formation on new bulla on place of cicatrization. Pemphigus vulgaris occurs more often in comparison with other types of pemphigus vera. As a rule, the disease begins from damage of oral mucos and throat which could exist separately during few month Bulla breaks fast and transforms into painful bright-red covered by whitish deposit of anabrosis bordered by pieces depithelium (residues of bulla cover). Then bulla appears on skir 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 aftered to the interest and the properties of the interest and some properties of the interest and some properties.	is of by ls as a scalar state of ls as a scalar state
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left anabrosis of bright red color. Sometimes their content becomes opacity or suppurative. Common condition of patien is satisfactory at first but it becomes worse gradually. The weakness appears and a low-grade fever. Anabrosis at epithelized slowly.	nt ts ie re
Pemphigus occurs on seborrheal areas of skin (face, hairy part of the head	
seborrheal cervix, dorsum). It is characterized by occurrence of spots an	
(erythematosus) soft surface bulla with thin tegmentum which are fast transformed into scaly crusts. After crusts being removed the	e
wet eroded surface is open. The formation of bulla could be	
hidden resulting in impression of primary appearance of crus which reminds seborrheic dermatitis.	S
As distinct from pemphigus vulgaris the course of disease	ie
long-standing and relatively nonmalignant. The commo	
condition of patients is agglutinin aggravates at condition of	
prominent prevalence rate of process only.	-
Pemphigus is characterized by such differential characteristic as appearance	e
vegetans on the bottom of bulla of enlargements in form of vegetation	
which overhang over the faying surface. Typical places of hive	
localization are outer genital organs, big sentinel piles, inno	' U

	surface of hips, oral mucosa.
Diagnostic	The criteria of diagnostics for pemphigus vera include clinical and laboratory evidences of presence of acantholysis in
	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 Tsank) 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 or by nutrient spoon avoiding visible damage of surface and escape of blood after which the
	visible damage of surface and escape of blood after which the material being taken from the bottom of anabrosis is applied carefully to the object surface in form of smear. Obtained smears are dried and pointed by the method of Romanovsky Gimza
	are dried and painted by the method of Romanovsky-Gimza. During further microscopic evaluation of specimens the Tsank's acantholytic cells are determined. This is a changed cells of spinous layer which were subject to acantholysis, 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 epidermal 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; cytoplasm 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 The of indirect fluorescence). approach 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 (monotherapy) assigned independently of together with cytostatic (combination therapy) - with azathioprine 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

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 bulla and to enforce the epithelialization of anabrosis.

When the glucocorticoid therapy is assigned it is necessary to

remember that efficiency of treatment is increased if daily dose of hormone is divided in accordance with physiological rhythm of provisional cortex secretion hormones. 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. variety other undesirable effects (Exogenetic of (medicamental) Cushing syndrome, immunosuppression, watersalt 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.

Course and prognosis.

The course is chronicity with intermitting remissions and recrudescence. The using of glucocorticosteroids and immunosuppressants rapidly improves the prognosis. Cause of death for the now is generally results of continuous treatment by glucocorticosteroids and immunosuppressants.