ULTRASTRUCTURAL CHANGES OF ACANTHOLYTIC CELLS AT DIFFERENT STAGES OF DEVELOPMENT OF PEMPHIGUS VULGARIS

About the author	Kutasevych Ya.F., Oliynyk I.O., Lukashova O.P., Repin M.V., Abdalla A.E.-S.E.-S.
Heading	ORIGINAL RESEARCHES
Type of article	Scientific Article
Annotation	Objective: To study ultrastructural changes in the contents of intraepidermal blisters and their covers to improve diagnostic and therapeutic approaches in pemphigus vulgaris (PV). Materials and methods. To investigate the ultrastructure of the contents of intraepidermal vesicles, including acantholytic cells (AC),and caps in 8 patients with PV using electron microscopy. Results. Electron microscopic study of the material of patients with PV revealed structural features of AC at different stages of PV development. Conclusions. Ultrastructural features of AC depended on the stage of development of PV and existing complications. Dystrophic AC and other types of their death were noted, in particular, autoimmune, dark cell, autophagic and apoptotic changes. Signs of cytotoxic action of lymphocytes and neutrophil leukocytes on AC and necrotic processes in pyoderma were revealed.
Tags	*pemphigus vulgaris, acantholytic cells, ultrastructure, contents of intraepidermal blisters*
Bibliography	1. Abdalla A.E-S.E-S. Suchasni aspekty dyferentsiinoi diahnostyky akantolitychnoho pemfihusu [Modern aspects of differential diagnosis of acantholytic pemphigus]. Dermatolohiia ta venerolohiia. 2020. № 4. S. 17–21. 2. Kutasevych Ya.F., Oliinyk I. O., Lukashova O. P., Riepin M. V., Abdalla A.E-S.E-S. Vulharnyi pemfihus. Ultrastrukturna kharakterystyka [Pemphigus vulgaris. Ultrastructural characteristics]. Dermatolohiia ta venerolohiia. 2021. № 4. S. 8–10. 3. Electron microscopy in biology: a practical approach / Ed. By J. Robin Harris New York, US: Oxford University Press; 1991. 308 p. 4. Ingold C. J., Khan M. A.B. Pemphigus Vulgaris. [Updated 2022 Aug 8] / StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing, 2022. 5. Kridin K., Sagi S. Z., Bergman R. Mortality and cause of death in Israeli patients with pemphigus. Acta Derm Venereol. 2017; 97: 607–611. 6. Li X., Ishii N., Ohata C. et al. Signalling pathways in pemphigus vulgaris. Exp Dermatol. 2014; 23(3):155–156. 7. Fu X., Liu H., Huang G., Dai S-S. The emerging role of neutrophils in autoimmune-associated disorders: effector, predictor, and therapeutic targets. MedComm. 2021;2:402–413. 8. Witte M., Zillikens D., Schmidt E. Diagnosis of autoimmune blistering diseases. Front Med (Lausanne). 2018; 5: 296.
Publication of the article	«DERMATOLOGY AND VENEREOLOGY» №4(106), 2024 year, 10-14 pages,
DOI	10.33743/2308-10667-2024-4-10-14