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RESEARCH AREA

The Hungarian Angioedema Centre of Reference and Excellence (the member of the ACARE Network https://acare-network.com) at the Department of Internal Medicine and Haematology, Semmelweis University was established in 1998. Our centre is the founder and organizer of The International C1-Inhibitor deficiency and Angioedema Workshop which has taken place on 12 occasions since 1999 in Budapest, established the HAENETWORK project and Central Eastern European Angioedema Centre. Our research focuses on pathomechanism of angioedema, especially bradykinin mediated forms. Complement, molecular genetic and cell laboratories, patient registry, biobank provides the appropriate background for both clinical and basic research. We are investigating the function of plasma enzyme systems, white blood cells and endothelial cells involved in the development of angioedema, mainly in hereditary angioedema due to C1 inhibitor Deficiency. We have very good partnership and collaboration with colleagues from 44 countries.

TECHNIQUES AVAILABLE IN THE LAB

Our centre has both clinical and basic research facilities. These are based in part on the Angioedema Registry, which contains clinical and laboratory data on patients at diagnosis and follow-up. A biobank is also available in which patient serum, plasma (EDTA, citrate) samples are stored at minus 80 degrees Celsius. On the other hand, our genetic, complement and cellular laboratories are able to provide various methods (Sanguer sequencing, ELISA, umbilical cord endothelial cells) for research.

SELECTED PUBLICATIONS

Farkas, H. et al. (2017) International consensus on the diagnosis and management of pediatric patients with hereditary angioedema with C1 inhibitor deficiency. **Allergy 72:** 300-313.

Andrási, N., Veszeli, N., Kőhalmi, K.V., Csuka, D., Temesszentandrási, Gy., Varga L., **Farkas, H.** (2018) Idiopathic Nonhistaminergic Acquired Angioedema Versus Hereditary Angioedema. **J Allergy Clin Immunol Pract 6:** 1205-1208.

Farkas, H., Kőhalmi, K.V., Visy, B., Veszeli, N., Varga, L. (2020) Clinical Characteristics and Safety of Plasma-Derived C1-Inhibitor Therapy in Children and Adolescents with Hereditary Angioedema—A Long-Term Survey. **Journal of J Allergy Clin Immunol Pract 8:** 2379-2383.

Balla, Zs., Zsilinszky, Zs., Pólai, Zs., Andrasi, N., Kőhalmi, K.V., Csuka, D., Varga, L., **Farkas, H.** (2021) The Importance of Complement Testing in Acquired Angioedema Related to Angiotensin-Converting Enzyme Inhibitors. **J Allergy Clin Immunol Pract 9 :** 947-955.

Kajdácsi, E., Veszeli, N., Mező, B., Jandrasics, Z., Kőhalmi, K.V., Ferrara, A., Cervenak, L., Varga, L., **Farkas, H.** (2021) Pathways of Neutrophil Granulocyte Activation in Hereditary Angioedema with C1 Inhibitor Deficiency. **Clin Rev Allergy Immunol 60:** 383-395.