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The role and relationship of plasma d-dimer level and autologous serum skin test in the chronic spontaneous urticaria

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Background: It has been reported that the severity of Chronic Urticaria (CU) may be associated with D-dimer level, and patients with CU often have other autoimmune disorders, including autoimmune thyroid disease. Autologous Serum Skin Test (ASST) is thought to identify autoimmune/autoreactive disease in patients with CU.

Objective: The aim of this study was to evaluate whether D-dimer, total Immunoglobin E (IgE), and autoimmune markers, such as Anti-Thyroid Peroxidase (TPO) and Anti-Thyroglobulin (TG), were elevated in ASST-positive patients with CU compared to ASST-negative patients, and whether these laboratory findings were related to the severity of CU.

Methods: Fifty-four adults with CU were recruited (16 ASST-positive, 38 ASST-negative). D-dimer, total IgE, autoimmune markers (anti-TPO and anti-TG), thyroid hormone levels, and Urticaria Activity Score (UAS) were measured.

Results: Serum D-dimer level was not significantly different between the ASST-positive and ASST-negative groups. Additionally, total IgE, anti-TPO, anti-TG, and thyroid function tests showed no difference according to ASST response. UAS was higher in the ASST-positive compared to ASST-negative group, but the ASST-positive group showed better response to treatment. Patients with CU with elevated D-dimer level had high UAS compared to those with normal D-dimer level. Total IgE was related to UAS only in the ASST-negative group, and anti-TPO and anti-TG were not related to UAS.

Conclusion: Laboratory findings, including serum D-dimer, total IgE, autoimmune markers, and thyroid function tests, were not linked to ASST response. UAS was higher in patients with CU with elevated D-dimer level, and total IgE level was related to UAS in the ASST-negative group. The ASST-positive group showed high UAS compared to the ASST-negative group, but showed better response to treatment. Therefore, ASST response, D-dimer level, and total IGE are potential predictors for CU severity.

Biography

Kwang Joong Kim is currently working in Hallym University Sacred Heart Hospital in Republic of Korea. He is doing research in Chronic urticaria, Autologous serum skin test.

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