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Expression and significance of NKCC1 in axillary sweat glands of palmar hyperhidrosis patients with axillary hyperhidrosis

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Objective: To examine the number of axillary sweat glands and the expression of Na⁺ K⁺ Cl⁻ cotransporter isoform 1 (NKCC1) in axillary sweat glands of palmar hyperhidrosis patients with axillary hyperhidrosis, palmar hyperhidrosis patients and non-hyperhidrosis patients, to investigate its relationship with pathogenesis of palmar hyperhidrosis.

Methods: Axillary sweat glands were gained in 27 cases of palmar hyperhidrosis with axillary hyperhidrosis, 11 cases of palmar hyperhidrosis and 8 cases of non-palmar hyperhidrosis as control group. The number of axillary sweat glands was calculated by hematoxylineosin staining and the expression of NKCC1 was detected by immunofluorescence technique respectively.

Results: The number of axillary sweat glands in three groups had no significant difference in statistics ($P>0.05$). There was significant difference in the expression of NKCC1 between palmar hyperhidrosis with axillary hyperhidrosis and palmar hyperhidrosis patients ($P<0.05$), and there was significant difference between palmar hyperhidrosis patients with axillary hyperhidrosis and control group ($P<0.01$), but there was no significant difference between palmar hyperhidrosis patients and control group ($P>0.05$).

Conclusion: The increase of NKCC1 expression has the relationship with axillary hyperhidrosis of palmar hyperhidrosis patients with axillary hyperhidrosis, but has no relationship with the number of axillary sweat glands.

Biography

Shao Zhongfan has completed his M.D. at the age 25 from Xu Zhou Medical University. He is the Director of thoracic surgery department in the first people's hospital of Lian Yungang city. He is a member of Jiangsu thoracic surgery society. He has published more than 20 papers in reputed journals.

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