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Treatment of deep vein thrombosis via regulating balance of Th1/Th2 subsets with chinese medicine compound

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Objective: To discuss the changing rule of Th1/Th2 subsets in deep vein thrombosis (DVT) and the mechanism of Chinese medicine compound Xiao Shuan Tong Mai Granules (XSTMG) in regulating the balance of Th1/Th2 subsets.

Methods: Sixty patients with acute DVT were divided into 2 groups; XSTMG and western medicine group (ITCWMG) and western medicine group (WMG), thirty healthy persons were selected to be in normal group. Flow cytometry and ELISA were performed to observe the frequency change of Th1 and Th2 cells in peripheral blood and the level of TNF- α , IFN- γ , IL-4, IL-10 in plasma.

Results: After using Xiao Shuan Tong Mai Granules, the TNF- α and IFN- γ levels in WMG were higher than those in ITCWMG; the levels of IL-4 and IL-10 in ITCWMG were higher than those in WMG ($P < 0.05$); the improvement of circumference was better in ITCWMG than that in WMG after treatment.

Conclusion: Xiao Shuan Tong Mai Granules can inhibit TNF- α and IFN- γ transcription, enhance IL-4 and IL-10 expression, and increase the proportion of Th2 subsets. It also can predominantly induce T cells response bias to Th2 subsets, reduce the inflammatory reaction, protect vascular endothelial cells. Thrombus recanalization can be accelerated and the limb swelling will be reduced.

Biography

Bin Wang completed his PhD degree from Shandong University of Traditional Chinese Medicine in 2008. He is now working in the Peripheral Vascular Surgery Department, Affiliated Hospital of Shandong University of Traditional Chinese Medicine. He had published more than 10 papers in reputed journals in the recent five years.

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