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Clinical observation of anticoagulation and endovascular mechanical thrombectomy with Solitaire AB stents in the treatment of cerebral venous sinus thrombosis

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Purpose: To present the clinical outcomes of National Institutes of Health Stroke Scale (NIHSS) and visual analog scale (VAS) response after patients treated for cerebral venous sinus thrombosis with endovascular mechanical thrombectomy compared to patients treated with anticoagulation (control).

Materials: 42 patients were diagnosed as cerebral venous sinus thrombosis by clinical MRI, and MRV examination. They were divided into anticoagulation therapy group (group A, n=22) and mechanical thrombectomy group (group B, n=20). Heparin 100 mg/24h was infused intravenously during the first 3 days, and after that warfarin was administered orally for half a year in patients of group A; Mechanical thrombectomy with stents were performed and anticoagulant therapy was continued for 6 months in patients of group B. The present symptom (headache) of the patients was scored by VAS at the different time points before and 3 days, 3, 6 and 12 months after the treatment. The neurological function of the patients at the different time points before and after the treatment were evaluated by NIHSS.

Results: The VAS scores was 6.4 ± 1.7 three days after the treatment in group A, and it was 3.2 ± 1.2 in group B; the VAS score was 4.2 ± 1.1 three months after the treatment in group A, and it was 2.0 ± 1.3 in group B. There were significant differences between the two groups ($P < 0.05$). The NIHSS scores were 14.8 ± 2.1 , 10.2 ± 1.3 , 9.7 ± 1.8 , and 7.1 ± 1.2 respectively at 3 day, 3, 6, and 12 months after the treatment in group A, and they were 9.0 ± 0.6 , 7.1 ± 1.4 , 5.9 ± 2.1 , and 5.3 ± 2.2 in group B. There were significant differences between the two groups at the same time point ($P < 0.05$).

Conclusions: There was a significantly better improving and neurological function in patients treat with endovascular mechanical thrombectomy compared to controls.

Biography

Ji Ma has completed his PhD at the age of 31 years from Zhengzhou University. He is the director of XXXX, a premier Bio-Soft service organization. He has published more than 20 papers in reputed journals and has been serving as an editorial board member of repute.

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