Effect of Shenfu Injection on blood coagulation and inflammatory factors of patients with traumatic hemorrhagic shock

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View from specialist: It is creative, and of certain scientific and educational value.

[ABSTRACT] Objective: To study the effect of Shenfu Injection on blood coagulation and inflammatory factors of patients with traumatic hemorrhagic shock. Methods: A total of 98 cases of traumatic hemorrhagic shock were randomly divided into study group and control group by half. Patients in two groups received routine treatment of western medicine, patients in the study group had conventional treatment combined with Shenfu injection. Coagulation indexes and inflammatory factors of two groups were tested. Results: After the treatment, in control group fibrinogen (FIB) and international normalization ratio (INR) levels of control group were significantly reduced (P<0.05), while prothrombin time (PT), thrombin time (TT) and activated partial thromboplastin time (APTT) levels were significantly increased after treatment (P<0.05). PT and TT levels of study group were significantly reduced after treatment (P<0.05), FIB, INR and APTT levels were significantly increased (P>0.05). There were significant differences in FIB, PT, APTT, TT and INR level between two groups after treatment (P<0.05). TNF-alpha, IL-6, IL-10 levels of two groups were significantly elevated after treatment (P<0.05). There were significant differences in the inflammatory factors between two groups (P<0.05). Conclusions: Shenfu injection can improve the blood coagulation status and inflammatory factors level of patients with traumatic hemorrhagic shock, improve the hypercoagulable state, correct coagulation disorders, and reduce the incidence of DIC, MODS, SIRS.

[KEY WORDS] Shenfu injection; Coagulation function; Inflammatory factor; Traumatic hemorrhagic shock.