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The short-term efficacy and safety of treatment of HA280 immunoadsorption column in the polymyositis

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Objective To evaluate the short-term efficacy and safety of treatment of HA280 immunoadsorption (IA) column in the polymyositis.

Methods The clinical data of 72 patients with polymyositis admitted to the Department of Rheumatology of Xiangya No.2 Hospital of Central South University from January 2015 to march 2018 were analyzed. Of these patients, 22 patients were treated with HA280 immunoadsorption column for three times (immunoadsorption group) and 50 patients were treated with only drugs (control group). The changes of clinical symptoms and signs, autoimmune antibodies, myocardial enzyme spectrum, the inflammatory markers (ESR, CRP and ferritin), immunoglobulin, complement, other biochemical indexes and pulmonary imaging of the patients were detected and analyzed before and after the treatment.

Results Compared with the control group, the symptoms and signs were obviously improved after treatment with HA280 immunoadsorption column ($P<0.05$). And the clearance of autoantibody, myocardial enzyme spectrum, the inflammatory markers (ESR, CRP) and immunoglobulin were more efficient in immunoadsorption group than the control group ($P<0.05$). Moreover, the lung CT scan showed that the immunoadsorption group could better improve the pulmonary lesions of the patients after 3 months follow-up ($P<0.05$). No serious adverse reactions occurred during the observation period.

Conclusion HA280 immunoadsorption therapy can significantly clear the autoantibodies, muscle enzymes, inflammatory markers and immunoglobulin, improve the lung imaging of some patients in a short time. It shows safety in patients with polymyositis. HA280 immunoadsorption therapy could be an effective treatment for polymyositis.

Keywords: polymyositis; immunoadsorption; HA280 immunoadsorption (IA) column