

Clinical observation on effect of combination of zhuanyindan and hormone in treating male infertility with positive antisperm antibody

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OBJECTIVE: To explore the therapeutic effect of combination of Zhuanyindan (ZYD, a self-made Chinese herbal preparation) and hormone in treating male infertility with positive antisperm antibody and its influence on nitric oxide (NO) level. **METHODS:** Eighty-two patients were randomly divided (according to the digital list) into the WM group (n = 20, treated with prednisone), the TCM group (n = 28, treated with ZYD) and the ICWM group (n = 34, treated with prednisone plus ZYD). The clinical effect, negative converting rate of antisperm antibody, changes of NO level in semen and various parameters of sperm motion before and after treatment were observed. **RESULTS:** The total effective rate in the ICWM group was 88.2%, that in the TCM group 75.0% and in the WM group 65.0%. Significant difference was seen in the ICWM and TCM group before and after treatment in NO level, sperm motion parameters, including linear motion speed, linearity, propulsion, whip frequency, sperm vitality and mean moving angle, and quality of semen ($P < 0.05$ or $P < 0.01$). In the WM group, significant difference in comparison before and after treatment was seen in NO level, propulsion, whip frequency, mean moving angle and quality of semen, including vitality and survival rate ($P < 0.01$). **CONCLUSION:** Combination of Chinese herbs and hormone could lower the NO level in semen and improve the quality of sperm.

Publication Types:

Clinical Trial

Randomized Controlled Trial