Clinical Study on the Treatment of Male Immune Infertility with Sheng Jing Zhong Zi Tang

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Using Sheng Jing Zhong Zi Tang (生精种子汤 Decoction for Promoting Generation of Vital Energy), we have in recent years treated 90 cases of masculine infertility and obtained quite good therapeutic effects. A report follows.

General Data

All of the 90 cases were married males who had been living together with their spouses for at least two years (Infertility factors from the females were ruled out). SIT and GAT were tested and IgA, LgG and IgM were measured. The patients were randomly divided into a control group and a treatment group. Among the 30 cases in the control group, there were 7 cases with positive SIT, 9 with positive GAT and 14 with positive SIT and GAT. And of the 60 cases in the treatment group, there were 11 cases with positive SIT, 23 with positive GAT and 26 with positive SIT and GAT. Statistically, there were no obvious differences between the two groups ($P>0.05$).

Method of Treatment

Sheng Jing Zhong Zi Tang was prescribed to the treatment group, which consisted of Prepared Shu Di Huang (熟地黄 Radix Rehmanniae Preparata) 15g, Shan Zhu Yu (山茱萸 Fructus Corni) 6g, Zi He Che (紫河车 Placenta Hominis) 10g, Bai Zhu (白术 Rhizoma Atractylodis Macrocephalae) 9g, Xu Duan (续断 Radix Dipsaci) 9g, Xi Yang Shen (西洋参 Radix Panacis Quinquefolii) 6g, Hong Hua (红花 Flos Carthami) 2g, Xian Mao (仙茅 Rhizoma Curculiginis) 12g, Lu Rong (鹿茸 Cervi Pantotrichum) 3g, Tu Si Zi (菟丝子 Semen Cuscutae) 15g, Yin Yang Huo (淫羊藿 Herba Epimedii) 12g, Gou Qi Zi (枸杞子 Fructus Lycii) 12g, Fu Pen Zi (覆盆子 Fructus Rubi) 12g, Wu Wei Zi (五味子 Fructus Schisandrae) 15g and Sang Shen (桑椹 Fructus Mori) 12g.

The decoction was taken one dose a day, and the patients were allowed to have normal sexual life as usual.

For the control group, Prednisone (5mg) and Clomiphene (1 tablet) were prescribed once daily. The patients were encouraged to use condoms during their sexual life.

One therapeutic course consisted of 60 days for both groups. SIT and GAT were measured after each therapeutic course. For those with negative findings, drugs were withdrawn, but for those with positive findings, the above-mentioned drugs were provided
continuously for another therapeutic course. IgA, IgG and IgM were also tested after completion of each therapeutic course so as to observe the changes.

Criteria for the Therapeutic Effects

Cured: With negative findings in SIT and GAT tests after the first therapeutic course, the patient's wife became pregnant within one-year drug-free observation.

Effective: With negative findings in SIT and GAT tests after 2-3 therapeutic courses, the patient's wife became pregnant after one-year drug-free observation.

Failed: SIT and GAT were positive after three therapeutic courses.

Therapeutic Results

Of the 30 cases in the control group, 4 cases were cured, 13 case effective, and 13 cases were failed. The total effective rate was 56.6%. Of the 60 cases in the treatment group, 15 cases were cured, 35 cases effective, and 10 cases failed. The total effective was 80.0%.

Table. The Changes in immunoglobulin indexes before and after the treatment (M ± S)

<table>
<thead>
<tr>
<th></th>
<th>Cases</th>
<th>IgA (mg/dl)</th>
<th>IgG (mg/dl)</th>
<th>IgM (mg/dl)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Treatment group</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Before treatment</td>
<td>60</td>
<td>1086±190</td>
<td>1986±510</td>
<td>442±174</td>
</tr>
<tr>
<td>After 1st course</td>
<td>60</td>
<td>735±185**</td>
<td>1426±294**</td>
<td>322±104**</td>
</tr>
<tr>
<td>After 2nd course</td>
<td>45</td>
<td>608±127**</td>
<td>1229±204**</td>
<td>227±81**</td>
</tr>
<tr>
<td><strong>Control group</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Before treatment</td>
<td>30</td>
<td>974±214</td>
<td>1830±470</td>
<td>386±165</td>
</tr>
<tr>
<td>After 1st course</td>
<td>30</td>
<td>849±233*</td>
<td>1579±320*</td>
<td>376±89</td>
</tr>
<tr>
<td>After 2nd course</td>
<td>26</td>
<td>704±198**</td>
<td>1335±221**</td>
<td>277±70**</td>
</tr>
</tbody>
</table>

Compare with the data before treatment. *P<0.05, **P<0.01

Comment

Sheng Jing Zhong Zi Tang has the actions of supplementing the kidney and reinforcing yang. When this recipe is used, it might be able, directly or indirectly, to inhibit the complements in the circulating blood, decrease the contents of IgA, IgG and IgM, inhibit the content of antigens in the testes, seminal vesicle, spermatic duct and prostate gland, and regulate the functions of the hypothalamus-hypophysis-sexual gland and the adrenal cortex. However, the mechanism needs to be further studied.

(Translated by Ye Huan 叶环)