Chinese medicine treatment of ovarian dysfunction induced infertility Treatment Experience

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Infertility

Concepts

Married two years, have a normal sex life, yet did not take any contraceptive measures pregnancy (primary, secondary infertility)

Time conflict

Textbook of tradition Chinese medicine refers to 24 months after no pregnant, However WHO refers to the 12 months, a normal sex life 12 months is not pregnant.
Ovarian dysfunction is one of the main causes of ovulation disorders, leading to the generation of female infertility. 1993 World Health Organization (WHO) has developed three criteria: anovulation, WHOⅢ type typical performance: low gonadotropin elevated estrogen is high gonadotropin hypogonadism (ovarian dysfunction).
The reason of ovarian dysfunction

- Genetic causes
  - X chromosome mutation
- Congenital enzyme deficiency
- Hormone synthesis disorders
- Chemotherapy, surgery, Infection drug
- Autoimmune diseases
  - Lupus erythematosus
- Abnormal follicle consumption
  - Insufficient number of follicles
Diagnosis of Ovarian dysfunction

The first 2-4 days of the menstrual hormone test results consistent with FSH > 10IU/L, FSH / LH ≥2, E2 levels low.

Primary or secondary infertility with oligomenorrhea, by reducing the amount of amenorrhea, peri-menopausal syndrome, sexual apathy, etc.; B type ultrasound examination showed a small uterus, ovarian follicles, although no follicles exist or exist, but the number is small, not exceeding 10mm in diameter, monitor follicle development.
Understanding of reproductive medicine axis

Reproductive axis in Chinese medicine

《Neijing》 points out: Kidney Qi Sheng and Tiangui comes when women are 14 years old ...... Ren Mai Tong and Tai Chong Mai Sheng so menstruation comes to nowadays ...... yin and yang balance and it may have a child.
In Kidneys Reproductive core, combined with traditional Chinese medicine, "syncretism between heaven and man" the overall outlook and dialectical concept.

Clinical and Experimental Research 40 years of infertility on ovarian dysfunction combined Tonify kidney and Ovulation soup.
Tonify kidney and Ovulation soup: The efficacy is tonify kidney, regulate Chongmai, tonify Qi and Promoting blood circulation.

Whole prescription by Placenta, Codonopsis, angelica, medlar, dodder, Epimedium, Radix system, Ligustrum lucidum, Salvia components.
Clinical governance debate and experience

1. Menstrual period (the menstrual cycle 1 ~ 7d):
qi and blood circulation, make the best use, so that the uterus vein patency, Blood to help navigate, note both heart and liver physiological functions of coordination and balance.
2. Menstrual (follicular phase): menstrual cycle 8 ~ 14d:
Kidney Yin, Spleen, fill blood, promote follicle growth.

Long endometrial follicle - Note yin Nuangong: You can follow up Zhuojia Radix, Dendrobium, yam, lily, raw Rehmannia, amethyst, psoralen, raspberry, lotus, Huang Jing and so on.
3. Dense phase (ovulation): 14 ~ 16d in the menstrual cycle nourish yin and blood, while adding a small amount of drugs and kidney yang qi and blood circulation of goods, declared scattered context to help the smooth discharge of follicles;

Common drugs: saponins thorns, otopterygium, peach kernel, safflower, red peony, loofah, roses and so on.
4. Premenstrual (luteal phase): Menstrual Cycle 17 ~ 28d
nourishing yin and kidney yang with the use, fully nursed
Chong and Ren uterus, beneficial to maintain luteal
function.

Complement corpus luteum: commonly used drugs:
Morinda, Rou Cong Rong, psoralen, Sichuan off, fried
Eucommia.
Early miscarriage: Tailou often lead to kidney, fetal irritability, skidding. So once found to be pregnant may advance will often improve the success rate of miscarriage miscarriage, miscarriage focus spleen.

Recipe may be added mistletoe, Sichuan off, its implication in Bushenantai, fetal kidney Sheng Yuan to solid.
Clinical governance debate should be combined with related auxiliary examination - targeted

1. BBT determination:

(1) Purpose:

(2) Features:
2 urine LH test:

(1) Purpose:

(2) Features:

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<td>3月14日</td>
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- 每天测一次，直到出现两条杠后（如上图中第③条）。
- 隔3～4小时测一次。
- 测到两条杠一样深或第二条杠比第一条杠还深（如上中第④条），就说明您将在24～48小时内排卵；
3.B ultra-detection:

(1) Purpose:

(2) Detection time:
(3) Experience:

1) Detection time:

Note:

Follicular diameter <10 mm, can be monitored every 5 ~ 7d, three consecutive follicular diameter <10 mm, proposed to abandon the treatment of the cycle.

Dominant follicle diameter 18 ~ 20mm, or the length, width and thickness of three diameters of 2 were > 20mm who urinary LH peak positive immediately with hCG10000IU intramuscular injection, assisted jump rope or ladder to promote ovulation, guidance intercourse;

2) evaluation of mature follicles smooth ovulation to conceive:
3) Classification on endometrial thickness, and pregnancy among follicle size:

Endometrial Category: A, B, C
# The rats ovaries, uterus, adrenal index (x ± s)

<table>
<thead>
<tr>
<th>Group</th>
<th>animal (n)</th>
<th>Ovarian index</th>
<th>Uterus index</th>
<th>Adrenal Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal</td>
<td>10</td>
<td>44.34 ± 2.21</td>
<td>14.46 ± 1.37</td>
<td>14.39 ± 1.12</td>
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<tr>
<td>Model group</td>
<td>10</td>
<td>35.25 ± 3.03*</td>
<td>10.07 ± 0.98*</td>
<td>10.38 ± 0.98*</td>
</tr>
<tr>
<td>Progynova treatment group</td>
<td>10</td>
<td>42.50 ± 2.51**</td>
<td>12.32 ± 1.24**</td>
<td>13.34 ± 1.06**</td>
</tr>
<tr>
<td>Kidney promote bathing Group</td>
<td>10</td>
<td>41.07 ± 2.24**</td>
<td>12.54 ± 1.34**</td>
<td>13.56 ± 1.45**</td>
</tr>
</tbody>
</table>

Note: * and the normal control group P <0.05; ** with the model group than the control group P <0.05.
Each group of rat ovarian granulosa cell apoptosis protein integral optical density of caspase-9 and Apaf-1 comparison (x ± s)

Note: * and model control group P <0.05. a with the normal control group P <0.05.

<table>
<thead>
<tr>
<th>Group</th>
<th>Animal (n)</th>
<th>Caspase-9</th>
<th>Apaf-1</th>
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</thead>
<tbody>
<tr>
<td>Normal</td>
<td>10</td>
<td>0.93 ± 0.08*</td>
<td>0.88 ± 0.04*</td>
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<tr>
<td>Model group</td>
<td>10</td>
<td>3.23 ± 0.12</td>
<td>2.59 ± 0.11</td>
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<tr>
<td>Progynova treatment</td>
<td>10</td>
<td>1.97 ± 0.18*a</td>
<td>1.67 ± 0.14*</td>
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<tr>
<td>Kidney promote bathing</td>
<td>10</td>
<td>1.77 ± 0.16*</td>
<td>1.59 ± 0.09*</td>
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Serum FSH, LH, E 2 levels in 50 patients before and after treatment

<table>
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<th></th>
<th>E2</th>
<th>FSH</th>
<th>LH</th>
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<tbody>
<tr>
<td><strong>Ovarian dysfunction</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>before</td>
<td>55.97 ± 41.35</td>
<td>11.69 ± 6.66</td>
<td>3.90 ± 1.91</td>
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<tr>
<td>after</td>
<td>90.22 ± 10.16</td>
<td>8.45 ± 4.44</td>
<td>3.41 ± 1.56</td>
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</tbody>
</table>

After suffering the treatment of patients with serum FSH, LH, E has a significant change, the difference was statistically significant (P <0.05).
Kidney promote bathing observed by clinical case studies regulate menstruation, the endometrium and follicular development synchronized, so that sex hormone levels return to normal, the role of progesterone in ovulation; animal experiments by observing kidney pro-bathing can intervene regulate animal modeling serum E2, P, FSH, LH levels; increase uterus, adrenal, pituitary, weight and the number of growing follicles and yellow body ovarian ovaries; inhibition of endogenous ovarian granulosa cell apoptosis pathway key protein caspase-9, Apaf 1 expression.
Thank you!