

Modern Analysis of Traditional Chinese Medicine for Chronic Abacterial Prostatitis

Jing LIU, Tan WANG, Huan LI, Ming BAI and Ming-san MIAO*

Henan University of Chinese Medicine, China

*Corresponding author

Keywords: Chronic nonbacterial prostatitis, Traditional Chinese medicine(TCM), Chinese patent medicine.

Abstract. Objective: To explore the therapeutic principles of modern Chinese medicine for chronic prostatitis and the application of TCM in CNP. **Procedures and Methods:** Analysed the relevant information and literature, to explore the mechanism of Chinese medicine for the treatment of prostatitis, sum up TCM and Chinese patent medicine of treatment prostatitis, Put forward ideas for the development of TCM treat CNP. **Results:** Various active ingredients of TCM played a role in reducing fever and causing diuresis and other effects, to achieve anti-infection, improve microcirculation, regulate the role of prostatic fluid PH value, significant efficacy in the treatment of CNP is safe and reliable, with little side effect. **Conclusion:** To summarize TCM on CNP of the exact curative effect and active ingredients, to provide more scientific and accurate basis for the TCM treatment of prostatitis, to develop new drugs for treatment of prostatitis and to promote Chinese medicine to the world.

Related Study on Prostatitis of Chinese and Western Medicine

Western Medicine for Chronic Non-Bacterial Prostatitis in Modern Research

The incidence of prostatitis for outpatient department of Urology is more common, accounting for about 20% to 25%, divided into bacterial and non bacterial type, according to the microscope prostate massage fluid, semen, terminal urine routine results, chronic non-bacterial prostate (CP / CNP) is divided into inflammatory and noninflammatory, The clinical manifestations of urgent urination frequent urination, urinary obstruction, perineal, testicular and lumbosacral tingling or pain and body age increasing, decreased resistance, reduce the secretion of male hormones and other reasons will aggravate the disease, causing obstruction, stones and other complications, seriously affect the quality of life of patients. Because of the special physiological structure of the pathogenic causes and pathological changes is not clear, prostatic epithelial lipid membrane is a variety of antibiotics into the acinar barrier, the clinical treatment by depending on experience, which lead to poor efficacy of prostatitis.

Western medicine in the treatment of CNP mainly through the inhibition of neurotransmitter release, smooth muscle relaxation, improve the patients with depression and anxiety to alleviate pain, sedation, improve urine flow rate, improve voiding symptoms, alleviate perineal pain, antidepressants etc.. Commonly used drugs are: non steroidal anti-inflammatory drugs; α blockers, 5 α reductase inhibitors; anti spasm analgesic (such as Gaba Martin), tricyclic antidepressants; antibiotics, etc.. However, due to the lack of understanding of the etiology and pathology of Western medicine, often lead to poor efficacy or poor compliance of patients.

Chinese Medicine for Chronic Non-Bacterial Prostatitis in Modern Research

The name of "prostatitis" did not appear in the ancient books of traditional Chinese medicine. According to the symptoms of urination, prostatitis belongs to the category of essence turbidity, stranguria and albinuria or leukorrhagia etc.. "Traditional Chinese medicine clinical diagnosis and treatment of the disease part of the disease," the essence of the turbidity of the disease: because of the hot and humid bet, fire excess from yin deficiency, Blood stasis of the essence chamber, etc.. That the cause of disease related to damp invasion of lower energizer, imbalance of spleen and stomach, renal fire, blood stasis, thinking to fail and so on, kidney deficiency, damp heat as the standard, pathogen usually intruding into collateral in protracted disease, collateral stasis, is a pathological condition of chronic process. Some scholars put the cause of chronic prostatitis classified as wet, heat, fatigue, virtual, clinically with damp heat stasis were more common^[1], clinical Chinese medicine think CNP with kidney deficiency as the source of the disease, mostly hot and humid bets, bladder gasification adverse, turbid damp and sticky, blocking the genital tract blood, lead to Qi stagnation and blood stasis, heat and blood stasis for the onset of the standard. Damp heat, blood stasis and kidney deficiency are the basic pathogenesis^[2]. Therefore, promoting blood circulation and removing blood stasis, clearing away heat and dampness, invigorating kidney and warming yang are the main methods for treating CNP. Due to blood stasis in the role of CNP in the process of the disease, so as to put forward "from the stasis, the treatment" from the viewpoint of treatment of complex, early to heat and dampness, blood stasis, regulating qi to alleviate pain, inducing diuresis for treating stranguria the latter should be tonify the kidney to arrest spontaneous emission, relieving Qi Stagnancy in Liver, combined with Acupuncture, massage, bath, prostatic massage, exercise^[3] and other comprehensive treatment, combination of internal and external treatment, the effect is more satisfactory.

Study on the Treatment of Related Chinese Medicine Research of Chronic Nonbacterial Prostatitis

Progress of TCM in the Treatment of Chronic Nonbacterial Prostatitis

Studies have shown that CNP patients with severe disease, will lead to changes in blood circulation and microcirculation, such as blood rheology, causing local tissue ischemia, hypoxia, metabolic disorders and dysfunction. Therefore, the mechanism of TCM in the treatment of CNP is mainly reflected in: inhibiting the release of inflammatory factors and immune cells (T cells, B cells, NK cells) activity, regulate immune function; anti fibrosis, anti infection, improving microcirculation; relaxat bladder detrusor and prostate smooth muscle, reduce urethral resistance, improve the urinary dynamics; promote non-specific immune; regulating the osmotic concentration of zinc, pH and drug penetration.

Research shows that TCM in flavonoids, saponins, anthraquinones, alkaloids, volatile oil, safflower glucoside, safflower quinone glycoside and new saffloside^[5-6], sinomenine hydrochloride, procyanidins and other active ingredients play an important role in the process for the treatment of CNP, Table 1 the pharmacological effects of some Chinese Herbs.

Table 1. TCM for treating prostatitis and its active components and pharmacological effects

TCM	active site	pharmacological action
Fritillaria thunbergii	adenosine	To reduce the inflammation of CNP mice model and fibroblast proliferation, reduce the level of NO.
Verberna[7]	Iridoid glycoside	Verbenacea glycosides can reduce the number of white blood cells in prostate tissue of CNP model mice, increase the density of lecithin bodies and reduce the
Plantago depressa Willd.[8]	the components of the extracts contain the components of caffeic acid esters and iridoid	Significantly reduced PI and PSA in CNP model rats induced by carrageenan, high dose of extract significantly reduced TNF- α , IL-1 β , COX-2, PGE2, TGF- β 1 and CTGF levels, reduce the degree of chronic inflammatory cell infiltration and interstitial fibrosis
Astragalus membranaceus	Polysaccharides, saponins, flavonoids,	To reduce the PI, PSA, inflammatory factors of prostate tissue, inhibit the infiltration of chronic inflammatory cells and reduce the degree of interstitial fibrosis in CNP
Clematis terniflora[10]	Water extract	To reduce the number of white blood cells and increase the density of lecithin body in castrated rats induced by estradiol benzoate, decrease the content of IL-1 β , TNF- α , COX-2 in serum and iNOS expression of CNP
Macrothelypteris oligophlebia[11]	Flavonoids	To reduce the content of IL-10, TNF- α , COX-2 and PGE2 in serum of CNP SD rat model induced by carrageenan, and to reduce the degree of tissue fibrosis and inflammation symptom.
Bamboo leaf[12]	Orientin, isoorientin, Vitexin,	To inhibit the increase of the quality of the ventral lobe of the prostate of CNP rats induced by carrageenan, reduce inflammation
Paeonia lactiflora Pall	Total glucosides of paeony	Down regulation of IFN- γ , TNF- α and IL-10 levels in CNP rats, promote Th1/Th2 balance
Tripterygium wilfordii Hook. f.	Tripterygium wilfordii polyglycoside	To reduce the number of white blood cells in CNP rats, down regulate the expression of NF- κ B, iNOS, ICAM-1, TNF- α , and inhibit the inflammatory reaction
Motherwort	Hydrochloric acid stachydrine,	Increase the volume of urine in rats, reduce platelet count,
Cortex Phellodendri	berberine	Objective to reduce the exudation and inflammation of prostate protein and improve the level of endogenous metabolites in CNP rats model induced by prostate injectcapsaicin.
Turmeric[13]	curcumin	After intraperitoneal injection of curcumin in rats, the levels of IL-1 β , TNF- α , MCP-1 and MIP-1 α were reduced, and the peripheral nerves were repaired.
Gardenia	Geniposide	The levels of IL-1 β , IL-6 and TNF- α in the prostate were increased and IL-10 was increased in a dose-dependent manner, and the proliferation of prostatic fibrosis was inhibited.
bastard speedwell [14]	Bastard Speedwell Total flavonoids	The white blood cell count and the IL-2 and IL-8 levels in the prostate homogenate were significantly decreased in the model rats, and the inflammatory symptoms were improved
Lysimachia christinae	The flavonoids of Quercetin and Isoquercitrin	To reduce the degree of edema, inflammatory cell infiltration and necrosis of prostate gland in rats with CNP induced by carrageenan

Application of Chinese Patent Medicine in Chronic Nonbacterial Prostatitis

Chinese medicine that "early illness in the gas, chronic illness in the blood", the prostate is located under the coke, in the anatomy of Chinese medicine is "fine room" category, its long treatment, recurrent attacks of the blood stasis throughout the prostatitis. wise menprescription formulating,have a light hand withdiscriminate, accurate medication, based on the ancientprescriptions combined with the actual situation of modern patients, modern research and disease differentiation, syndrome differentiation and treatment combined with traditional Chinese medicine in the treatment of CNP mainly through the mechanism of , promoting qi to activate blood; promoting blood circulation for removing blood stasis, promoting qi circulation to relieve pain; Nourishing yin and tonifying kidney, promoting blood circulation for removing blood stasis;; promoting qi to activate blood;promoting blood circulation to remove meridian obstruction and other effectively relieve the clinical symptoms of CNP. Therefore, the commonly used Chinese medicine can be divided into the following categories(See tables 2, 3, 4 and 5):

Damp Heat and Blood Stasis Type

Tables 2. Pharmacological action and clinical application of Chinese patent medicine

Chinese patent drug	Pharmacological action	clinical application
Tong lie shu Capsule	Reduce the number of white blood cells induced by Xiaozhiling prostate tissue in rat CNP model, increased the number of lecithin, reduce the infiltration of inflammatory cells	Each time 4 tablets, 3 times a day, after treatment for 30 days, clinical cure in 5 cases, markedly effective in 8 cases, effective in 11 cases, invalid in 3 cases, the total effective rate was 90%
Qian lie shu tong Capsule	To reduce the inflammatory cell area and prostate injury of CNP model rats induced by agar,	Each time 3 tablets, 3 times a day, the treatment of 41 cases of patients after 4 weeks, clinical cure in 2 cases, markedly effective in 29 cases, effective in 7 cases, invalid in 3 cases, the total efficiency of 92.7%
Cernilto n	To reduce the wet weight of prostate and IL-1 β , IL-6, TNF- α , and inflammation in castrate SD rats with subcutaneous injection of estradiol benzoate	Each time 1 pieces, 2 times a day, CNP patients in 106 cases, after the treatment for 8 weeks, cured in 5 cases, markedly effective in 38 cases, effective in 44 cases, invalid in 19 cases, the total effective rate was 82.1%
Sanjin tablets	To improve the SOD activity and Zn ²⁺ concentration in the prostate tissue of CNP rats, decrease the content of MDA, IL -1 β , TNF- α	Each time 3 tablets, 3 times a day, for 21 days, the treatment of 38 cases, markedly effective in the treatment of 16 cases, effective in 18 cases, ineffective in 4 cases, the effective rate was 89.4%

Blood Stasis and Qi Stagnation Type(Tables 3)

Tables 3. Pharmacological action and clinical application of Chinese patent medicine

Chinese patent drug	Pharmacological action	clinical application
Qian yan tong yu capsule	The levels of PGE2, IL-1 β and COX-2 in prostate tissue of CNP rat model and the level of β -EP were increased were decreased by double immune adjuvant method	30 cases of patients, 0.5g/ tablet, 3 times / day, 4 capsules / time, half an hour after meals, 1 months for a course of treatment, cure in 9 cases, markedly effective in 11 cases, effective in 7 cases, invalid in 3 cases, the total effective rate was 90%
Jiawei Polygonum cuspidatum powder	To reduce the expression of MCP-1, PDGF-BB mRNA and protein in the model of autoimmune CNP rats	68 cases of patients, a daily dose of 1, water decoction, 4 weeks for a course of treatment, cure in 12 cases, markedly effective in 28 cases, effective in 20 cases, invalid in 8 cases, the total effective rate
Forefront of Tongyu capsule	To alleviate the carrageenan induced CNP rat prostate gland index and leukocyte infiltration, increase lecithin body, improve microcirculation disorder	5 tablets / time, 3 times /d, oral, for a period of 1 months, treatment of 40 cases, effective in 13 cases, markedly effective in 15 cases, clinical cure in 6 cases, invalid in 6 cases, the total effective rate of

Liver kidney Yin Deficiency and Blood Stasis Syndrome(Tables 4)

Tables 4. Pharmacological action and clinical application of Chinese patent medicine

Chinese patent drug	Pharmacological action	clinical application
Yanlieping granules	The CNP mice induced by immune adjuvant method have anti-inflammatory effect, improve local blood circulation, accelerate the excretion of metabolites, reduce IL-2 levels, increase the level of TNF- α	50 cases of patients, each packet has 2g, each time 2 packets, 2 times/d 2 months for 1 courses, according to the condition was cured in 13 cases, markedly effective in 19 cases, effective in 12 cases, invalid in 6 cases, the total effective rate of 88%
Qian lie an pill	To reduce the levels of IL-1 β , IL-10 and TNF- α in prostate tissue of castrate rats with CNP induced by estradiol benzoate injection, lighten inflammation reaction of prostatitis	86 patients, each time with 10g, 3 times a day, 4 weeks of 1 courses, were cured in 30 cases, markedly effective in 28 cases, effective in 25 cases, ineffective in 8 cases, the total effective rate was 90.97%
Ai ke he ji	To reduce infiltration of inflammatory cells, inhibit fibroblast proliferation cause by the CNP rat model of hemorrhoid	Each time 20ml, 3 times/d, 1 month 1 a course of treatment, Treatment of 60 cases, the total effective rate

Kidney Yang Deficiency and Blood Stasis Syndrome(Tables5)

Tables 5. Pharmacological action and clinical application of Chinese patent medicine

Chinese patent drug	Pharmacological action	clinical application
Wuji Baifeng pills	To reduce prostate tissues TGF- β 1, improve connective tissue proliferation, inflammation, promote blood circulation for remove blood stasisthe and improve microcirculation of CNP rats caused by Xiaozhiling	Patients 100 cases, each time 1 pills, 2 times a day, 1 months, 1 courses, used for 3 months. The results showed that 100 cases were markedly effective in 39 cases, effective in 50 cases, ineffective in 11 cases, the total effective rate was 89%.
Qian lie kang pills	The content of DNA and the activity of serum acid phosphatase in the prostatic hyperplasia model of mice were decreased, the weight of the gland and the volume were reduced, the glandular cavity was enlarged, and the endocrine function was improved	3 / time, 3 times / day. observe treatment after 8 weeks, the treatment of 65 cases, cured in 22 cases (33.85%), markedly effective in 14 cases (21.54%), effective in 17 cases (26.15%), invalid in 12 cases (18.46%)

Outlook

With the further study of CNP, the etiology and pathogenesis is still not clear, western medicine translate treatment of antibiotics into individual comprehensive therapy, reduce or alleviate the symptoms, the curative effect is significant and rapid; but long course of treatment rebound phenomenon, induced by tumor, high cost and so on, so that the application of Western medicine is limited. Some Chinese medicine think that phlegm, dampness, blood stasis as the main reason of CNP, often with liver depression, kidney deficiency, spleen deficiency, with the rapid development of the times, people addicted to fat and sweet, less labor and more enjoyment, increased survival pressure caused by hot and humid, stasis Blood and other more and more physical quality of patients, according to the clinical changes in patients with the ancient side of the addition and subtraction treatment, the prevention and treatment of CNP and improve the disease, etc., showing significant effect, lasting effect, adverse reactions and recurrence rate low and other unique advantages^[15,16,17]. Adenophorum, safflower, Herba Leonuri, Rhizoma Cyperi, Wujibaifeng pills and other Gynecology of traditional Chinese medicine and its compound preparation for treating CNP has a large number of experiments, and provide a new direction for the treatment of CNP, to expand the scope of application of traditional Chinese medicine.

Traditional Chinese medicine treatment of CNP from the overall concept of traditional Chinese medicine and syndrome differentiation, the theoretical basis of clear, systemic conditioning combined with local treatment, obtained certain results in the prevention aspect, summarizes the Chinese patent drug found that found that the drug problem of large amount, long course of treatment, the effect is slow, some of the traditional Chinese medicine treatment composition is not clear and so on, should be gradually improved in the future study. Actively from the animal experiment, to

provide a reliable basis for the clinical application of traditional Chinese medicine, with new technology to optimize the allocation of resources, improve the utilization of traditional Chinese medicine and sustainable development. In addition, the disease is difficult to cure, easy to relapse, various types of traditional Chinese medicine and other issues should be drug treatment combined with psychological counseling, strengthening medical professional accomplishment, improve the quality of life of patients, strengthen the prevention of the disease and TCM preventive treatment of disease thought, Promote the development of Chinese medicine in the world.

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