Case Report

ISSN: 2320 5091

Impact Factor: 5.344

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MANAGEMENT OF KSHEENA SHUKRA (OLIGOZOOSPERMIA) AYURVEDIC PROSPECT: A CASE STUDY

Jitendra Varsakiya¹, Kishore Patel², Alisha³, Divyarani Kathad⁴

¹ Assistant Professor, Department of Kayachikitsa, Chaudhary Brahm Prakash Ayurved Charaka Samasthan, Najafgarh, Khera Dabar, New Delhi 110073, India

² Research officer, Central council for research in Ayurvedic Science, Janakpuri, New Delhi, India

³ MD Scholar, Department of Kayachikitsa, Chaudhary Brahm Prakash Ayurved Charaka Samasthan, Najafgarh, Khera Dabar, New Delhi 110073, India

⁴MS Scholar, Department of Shalakya Tantra, Government Akhandanand Ayurveda College, Ahmedabad, India

Email: jeet12989@gmail.com

ABSTRACT

Background: Male infertility is one of the major issues now a day's and incidences of this problem increases day by day due to the disturbed pattern of living style. Men may not know they have this unless they are having trouble in conceiving with a partner. The oligozoospermia is one of the conditions related to male infertility defined as low sperm count. Ayurveda the science of Indian medical system described various terms related to male infertility such as; *Kshina Shukra, Kshina Retasa, Alpa Retasa* and *Shukra Dosha* which resembles conditions associated with Oligozoospermia. Other system of medicine has very expensive treatment with no any surety. Ayurveda is best choice of this disease to manage with use of herbs and herbo- mineral formulations with life style and diet control, etc. **Aims and Objectives**: To evaluate the role of Ayurveda medicine in the oligozoospemia. **Material and Method:** A 33 years old, healthy male patient visited the OPD of Kayachikitsa with complains of unable to conceive her partner even after having nine years of married life. Semen analysis of this patient revealed low sperm count (10 million/ml) with no other abnormalities. This case was managed with *Virechana* procedure followed by *Shaman Chikitsa* for eight month. After this treatment, sperm count increased to 65 million/ml. The detail of this case highlights the role of *Shodhan* and *Shaman Chikitsa* in the management of Oligozoospemia.

Keywords: Infertility, Oligozoospermia, Shaman, Shodhan, Shukra, Virechana

INTRODUCTION

Infertility is on the rise in India with about 27.5 million couples, who are actively trying to get pregnant, suffering from it. Among them 30-40 percent cases are due to male infertility. The traditional text of Ayurveda provides great knowledge related to various diseases and their management including sexual problem. Oligozoospermia is the male infertility issue defined as low sperm concentration in the ejaculation. As per World Health Organization (WHO), a low sperm count is less than around 15 million per ml^{[1],[2]}. *Vajikarana* is one of the branches of Ayurveda that deals with the preservation and amplification of sexual potency of a healthy man and conception of healthy progeny as well as management of defective semen, disturbed sexual potency and spermatogenesis along with treatment of seminal related disorders in man^[3]. *Ksheena Shukra* is denoted among eight type of *Shukra Dushti*, enumerated in Ayurveda classics. Acharya Sushruta clearly defines the condition of *Kshina Shukra* to be *Vata- Pitta* predominant and *Upachaya* is stated as treatment in this condition.^[4] In present case study, a patient suffering from Oligoozoospermia has been treated with *Virechana* procedure followed by administration of Shaman drugs those are *Agnitundi Vati, Ashwagandha Churna, Pippali Churna, Vang Bhasma, Sh. Makardwaj* and Cow Ghee.

Materials and Methodology:

Patient came to CBPACS, *Kayachikitsa* OPD. After taking full history of patient he was advised to investigate for Semen Analysis. After the investigation and proper history taking of patient was diagnosed with *Ksheena Shukra* (Oligozoospermia). Patient became treated with *Shodhan* (*Virechana*) followed by *Shaman Chikitsa* for eight month. After three and eight month, he was investigated again for Semen Analysis and then he was kept under observation for few months with advice of *Pathya- Apathya* for further period.

Place of study: Ch. Brahm Prakash Ayurveda Charak Sansthan, New Delhi, *Kayachikitsa* special OPD Name of patient: xxxx Registration No. - 42176 Date of first visit: <u>20/06/18</u> Age: 33 years Wt-65 kg BMI-29.16 KG/M²

Chief Complaints: Patient was married since 9 years and the couple had an issue. His wife failed to conceive in spite unprotected frequent intercourse even during 12 to 18th day of menstruation since last 8years. The woman was normal at the clinical and Endocrinological examination. On inquiry, his complain premature ejaculation, decreased sexual desire, general debility and fatigability. Personal history revealed that he worked in company as manager, he continue deal with the laptop with habits of tobacco, drinking occasionally, with stressful life. He was not having past medical history of tuberculosis, mumps, orchitis, hydrocele, vericocele, trauma to gonadal part or history of any other long-term debilitating disorder or life threatening emergency, he was not having history of previous surgical intervention like herniorrhaphy, vasectomy reconstruction and no history of consumption of gonadotoxic agent. No other parameters except sperm count, motility and morphology were altered in the male subject. He was advised semen analysis after proper abstinence of 3 days. Before starting medicine semen examination report revealed very low sperm count 10 million/ml out of which about 50% sperms were motile and 10% sperms were sluggishly motile while 40% were non-motile. 10% sperms were abnormal. Smear showed 8-10 pus cells.

General Examination: On Examination of patient, pallor was absent, tongue was clear and he is vegetarian in diet style. His appetite was good and he usually prefers salty and spicy diet. He has disturbed sleep and frequency of micturition was 7-8 times in day time and 1-2 times in night time. His bowel habits are irregular with the complain of constipation.

Investigations: 1. Semen Analysis

Diagnosis: *Ksheena Shukra* (Oligozoospermia) TREATMENT PLAN:

Shodhan:

Virechan Karma: Dipan Pachan with Agnitundi Vati 500 mg 2 tab twice a day with lukewarm water before meal was done for 3 days before starting Snehapana. Snehapana was done with Go-ghrit for 5 days starting with 30 ml, 60 ml, 100 ml, 130 ml, and 150 ml in increasing pattern. Snehpana was done until Samyak Snehasidhdhi Lakshan was achieved. After Snehapana, 3 days Sarvang Abhyang Swedan was done with Bala Taila. Next day Virechana was done in classical method with Triphala Kwath, Munakka 100mg and Trivrat Avleha. Pravar type of Shudhdhi (29 Vegas) was gained. Sansarjan karma was advised for 7 days.

Drug	Dose	Anupana	Time		
Ashwagandha Churna	Mixer 4-5gm	With cup of luke warm milk	Before food earl morn-		
(Withania somnifera) 2 gm		and Cow ghee	ing and after food at		
Pippali Churna			night		
(Piper longum Linn) 2 gm					
Vang Bhasma (Sn.)125 mg					
Sh. Makardhwaja 125mg					

Drug Posology:

Shudhha Makaradhwaja is an important metalomineral formulation of which herbs are also as inevitable and vital part and is an effective Kupipakva preparation (a specific type of pharmaceutical practice in which medicines are prepared by gradually increasing heating patterns using a vertical electric muffle furnace). The main components are Suddha Swarna (purified gold), Suddha Parada (purified mercury), Suddha Gandhaka(purified sulphur) in the ratio 1:8:24 and titurated (Bhawana) with herbal juice like Kumari Swarasa (juice of Aloe Vera Barbadensis) and Rakta Karpas Pushpa Swarasa (juice of Gossypium Herbaceum).^[5]

Pathya-Apathya^{[6],[7]}

Pathya:

Patient was asked to take *Shalidhanya, Godhuma, Mamsa, Ksheera, Dadhi, Ghrita, Navnita, Kharjura, Amalaki phala, Lashuna, Guda-sharkara.* Patient was

RESULT:

Table 1: Examination of	Seminal Fluid
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advised to take proper *Nidra* (Adequate sleep at night), *Abhayanga* (Oil Massage), *Sanana* (Bath), Stay clean environment, *Padatraana dharna* (Brisk walking) and *Vyayam* (light exercises), *Vega Adharana* (Evacuation of urges like Urine, Faeces etc. at proper time)

Apathya-

Patient asked to avoid *Dahi Sevan, Ati Katu- Tikta-Lavan Rasa Sevana, Sarshap Taila, Guru-Virudha Bhojan,* Excessive intake of Oily, fried, Spicy food items, Fast food, Ice cream, Cold drink, Bread, biscuit, Alcohol, Tobacco, Tea and Coffee.

Patient also asked to avoid *Ati maithun (excessive* coital act), *Amaithun (*ignorance of coital act), *Atisahasa* (excessive exercise), *Shukra Vega Dharan (*Suppression of urge of ejaculation), Suppression of natural urge, intercourse during menstruation cycle, Fasting, Stress and strain etc.

Test	On 23/06/18	On 08/09/18	0n 15/02/19
Method	Masturbation	Masturbation	Masturbation
Abstinence	3 days	4 days	3 days
Collected At	09:35 A.M	11:45 A.M	09:30 A.M
Examined At	09:55 A.M	12:05 P.M	09:50 A.M
Physical Examination			
Quantity	2.00ml	2.0ml	2.0ml
Colour	Grey White	Grey White	Grey White
Odour	Normal	Normal	Normal
Viscosity	Viscid	Viscid	Viscid
Liquefaction	Within 30 min.	Within 30 min.	Within 30 min.
Reaction (pH)	Alkaline	Alkaline	Alkaline
Microscopic Examination			
Total Sperm Count	10 mill/ml	46 milL/ml	65 mill/ml
Sperm Motility			

Actively Motile	50%	35%	50%
Sluggishly Motile	10%	25%	30%
Non-Motile	40%	40%	20%
Abnormal Forms	10%	8%	8%
Other Abnormalities			
Pus Cells	8-10/HPF	2-3/HPF	2-4/HPF
R.B.C Cells	NIL	0-1/HPF	1-2/HPF
Epithelial Cells	1-2/HPF	1-2/HPF	0-1/HPF

DISCUSSION

The main line of treatment in Oligozoospermia is "Ksheene Sukrakari Kriya"^[8] means the Dravyas, which increases Shukra i.e. having Sukrakara properties^[9] like Madhura Rasa (Sweet Taste), Snigdha (unctuous) Guru (heavy quality), Jivana (promotes quality of life) and Brmhana (nourishing property) Dravyas should be given. Sukra Dusti should be treated on the lines of involved Dosa i.e., in case of Oligozoospermia (Ksheenasukra) treatment has to be planned in line with Vataja Pittaja Sukradustihara Yogas.^[10]

Effect of Virechana Karma: In Ayurveda classics mentioned the fruitfulness of Shodhana Karma as, by the administration of these therapies disease are cured and his normal health is restored; the sense faculties, mind become clear; he gains strength, plumpness, offspring and virility.^[11] With the Shodhana procedure Shukra also increased in qualitative as well as quantitatively^[12]. In Ksheen aShukra main vitiated Dosha are Vata and Pitta, In order to remove the vitiated Pitta Dosha. Virechana is administered. It also eliminates the Srotorodha and active transformation of Dhatu through Dhatvagni Vyapara and the most desirable Shuddha Shukra is procured. The whole process helps in eliminating the free radicals (oxidants) present in the micro circulatory channels of Shukra Vaha Srotasa, which interferes with the function of Shukra and by doing so, increases the activity of Shukra (motility) as well as Shukra Vaha Srotasa and the respective Dhatwagni thereby facilitating the production of more Shukra Dhatu. (Volume, Count). Virechana is an important modality and eminent bio cleansing process for vitiated Pitta Dosha. Through Shodhana, Srotoshudhi (Clearing of channels) can be accomplished.^[13]

Ashwagandha (Withania somnifera) effectively reduced oxidative stress as assessed by decreased levels of various oxidants and improved level of diverse antioxidants. Moreover, the levels of Testosterone, LH, FSH and PRL were increased which are good indicators of semen quality^[14]. Acharya Charaka included it in *Balya* and *Brimhana-gana*. It is attributed with *Balya*, *Vrishya* and *Rasayana* properties.^[15]

Banga Bhasma[^{16]} (calcined tin) is one of the most popular drugs used as *Vrishya*, i.e. to improve the quantity of *Shukra* as well as to treat the Shukra Dosha (vitiation of *Shukra*). *Vanga Bhasma* has been acclaimed to be efficacious in *Shukra Dosha*, *Swapanmeha* (night emissions), and also for prevention of *Shukrakshaya* (diminution of sukra). It is also used as *Balya* (increases strength), *Shukra Vardhak* (increases *Shukra*) and has a *Medohar* (hypolipidemic) effect. Based on these properties of *Vanga Bhasma*, it was taken as trial drug for evaluation of its property as *Vrishya* on seminal parameters, sexual dysfunction and quality of sexual life.

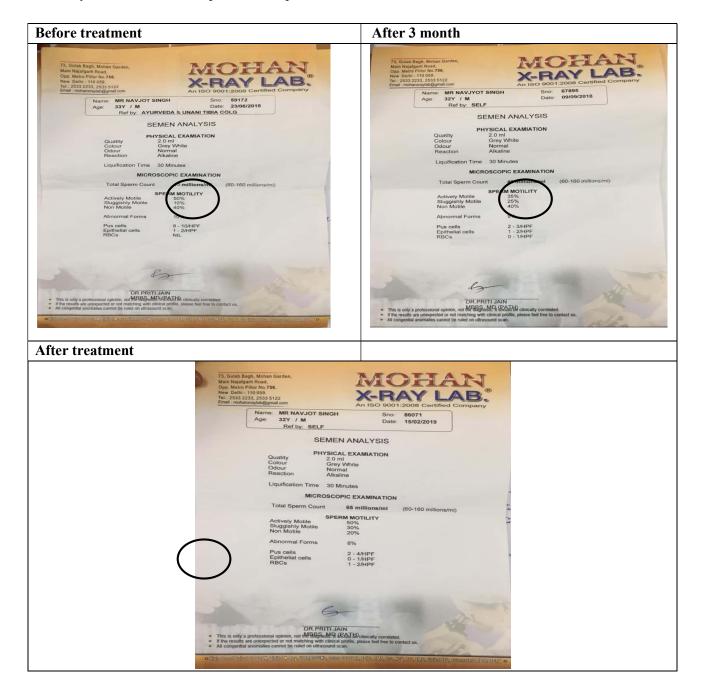
Makaradhwaja Rasa: Charaka says "*Nakra Retaso Vrishyanam*" *ie Nakra Retasa* is best for fertility^[17]. *Nakra* refers to *Makar* or crocodile; *Dhwaja* refers to *Veerya / Shukra*, therefore the preparation which gives the power of fertility like *Makar* is *Makaradhwaja rasa*. The term *Makardhvaja* is a synonym of *Kama Deva*, the god of lust and love. The *Swarna Bhasma* is aphrodisiac, cardiac tonic, promoter of eye sight as well as intellect and rejuvenating. Parada has *Yogavahi* property (incorporating and enhancing the properties of drugs with which it is used). *Gandhaka* is rejuvenating agent, *Yogavahi*, aphrodisiac, alleviates *kapha, vata. Karpasa Pushpa* has *Saumanasyajanana* effect (soothing to mind), an essential factor for *Garbha Dharana* (conception).

Kumari increases the blood circulation to *Garbha-shaya* (uterus).^[18]

CONCLUSION:

Ayurvedic drugs are key to clinical success. The application of *Virechana* is a broad spectrum clinical modality, and well known purification process for

Pitta Dosha. Srotoshuddhi is achieved by its virtue of *Shodhana*, and thus it improves the *Dhatu Poshana Krama*. Application of *Vajikarana Aushadha* following *Virechana* gives better result due to better absorption and utilisation without any other complications as compared to modern medication.



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Source of Support: Nil Conflict Of Interest: None Declared

How to cite this URL: Jitendra Varsakiya et al: Management Of Ksheena Shukra (Oligozoospermia) Ayurvedic Prospect: A Case Study. International Ayurvedic Medical Journal {online} 2019 {cited June, 2019} Available from: http://www.iamj.in/posts/images/upload/984_989.pdf