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Case Report

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Asthenospermia

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Ayurvedic modalities in the management of Sukraksheena w.s.r. to Asthenospermia - A Case Study

Khatun A^{1*}, Majumder M²

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- 1* Anuja Khatun, Post Graduate Scholar Final Year, Department of Roga Nidana Avum Vikriti Vigyana, Institute of Post Graduate Ayurvedic Education and Research at Shyamadas Vaidya Shastra Pith Hospital, Kolkata, West Bengal, India.
- ² Madhumita Majumder, Lecturer, Department of Roga Nidana Avum Vikriti Vigyana, Institute of Post Graduate Ayurvedic Education and Research at Shyamadas Vaidya Shastra Pith Hospital, Kolkata, West Bengal, India.

Infertility is usually defined as the inability of a couple to conceive even after a year of unprotected, frequent sexual intercourse. It affects about 15% of all couples in the United States and at least 180 million couples worldwide. WHO data from 2023 suggests that 1 in 6 people globally experience infertility and that roughly one-third of infertile couples have a male factor contributing to infertility. The main causes of male infertility are low sperm count (oligospermia) and reduced motility of sperms (asthenospermia) and according to the ancient it can be correlated with Shukravaha Srotas Dushti. Acharya Sushrut has explained 10 types of Shukra Dushti which are incapable of producing a progeny. Shukravaha Srotas Dushti leads to Aharsa(loss of libido), Klaibya etc. According to Ayurveda there is no direct correlation of Oligospermia or Asthenospermia but we can correlate it with Shukra Kshaya or Ksheena Shukra. A 45-year-old male who had been diagnosed as Asthenospermia (Non motile sperm) with 5 years of married life and his wife with regular menstrual cycle, were treated successfully with Ayurvedic management based on Sukrasodhana followed by Sukrajanana Therapy. After Deepanpacana, Abhyantara Snehana, Sodhana (Virechana Karma) and Samana Chikitsa with Phalaghrita, Pushpadhanya Rasa, Chagaladya Ghrita etc. were administered. There was a significant improvement in Subjective and Objective (seminal) parameters markedly improved.

Keywords: Shukravaha Srotas Dushti, Ksheena Shukra, Male infertility, Virechana, Chagaladya Ghrita

Corresponding Author

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Anuja Khatun, Post Graduate Scholar Final Year, Department of Roga Nidana Avum Vikriti Vigyana, Institute of Post Graduate Ayurvedic Education and Research at Shyamadas Vaidya Shastra Pith Hospital, Kolkata, West Bengal, India.

Email: anumondal0711@gmail.com

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Introduction

Male infertility is defined by the World Health Organization (WHO) as the inability of a male to make a fertile female pregnant for a minimum of at least 1 year of regular unprotected intercourse. The male is solely responsible for about 20% of cases and is a contributing factor in another 30% to 40% of all infertility cases.[1]

Infertility is two types Primary infertility denotes those patients who have never conceived. Secondary infertility indicates previous pregnancy but failure to conceive subsequently.[2]

This is a case report of a 45 years old male patient with 5.2 years of married life, presented with primary infertility with investigation report of complete absence of actively-motile sperm count, was diagnosed as Asthenospermia with Sperm concentration 95 million/ml and Immotile sperms 90%, Sluggishly motile 10% and actively motile 00%. He has no history of any addictions or any systemic diseases.

In Ayurveda the chief constituents of our body, throughout the life is maintained by -tridosa, dhatus and malas (दोषधातुमला मूलं सदा देहस्या).[3] So long as they are in their normal quantity, qualities and function, maintain the health of the body and when they become abnormal, causes many diseases.[4]

There are seven *Dhatu*, all *Dhatus* have their *Prakrita Karma*. *Shukra* is the important essence of the body, which is the *Antim Dhatu* (last *Dhatu*) among seven *Dhatus*. The specific function of *Shukra* is *Garbhotpadan*.[5] *Sukra* is the *Prasada Bhaga* of *Majja* and from the *Prasada Bhaga* of *Sukra Garbhautpatti* occurs.[6]

According to Charaka Samhita "The man alone without offspring looks like a single tree having single branch, shade less, fruitless and with foul smell"[7]. Prakrita Karma of Shukra is Dhairya, Chyavana, Priti, Dehabala, Harsha and helps in production of progeny.[8]

Charak Samhita and also in Sushrut Samhita explain about the Shukravaha Srotas & its Moolasthana (Vrisana, Sthana)[9] (Vrisana, Sepha/Medra).[10] Acharya Sushrut has proposed the following Shukradoshas - Vata, Pitta, Kapha, Shonita, Kunap, Granthi, Puti, Puya, Ksheena, Mutra, Purish, Retas.[11]

Case Study

A Couple Presented with the Complaint of Inability to Conceive Even After 5 Years of Married Life, having regular unprotected sexual Life, attended to our OPD of Roganidana Evum Vikriti Vigyana of IPGAE & R At SVSP, Kolkata on October 2024. On detailed evaluation of the case, we came to know the female partner had a regular menstrual cycle with normal bleeding pattern. After that they were trying for conceive till now despite unprotected coitus for more than a year but unable to conceive. Investigation shown male partner had a history of absence of sperm motility, semen analysis revealed that, semen volume as 2.20ml, sperm concentration 95million/ml, actively motile 00%, sluggishly motile 10% and immotile sperms 90%. Normal sperm count 50% and abnormal sperm count 50%. There abnormality detected on physical was no examination. He had no other systemic illnesses. Based on the laboratory investigations and the clinical history he was diagnosed Asthenospermia. As per Ayurvedic point of view this can be considered as Ksheena Sukra, one among the Ashtavidha Sukra Dushti. Past family clinical history was non-contributory.

Personal history

Appetite - Moderate Bowel - Irregular (2-3times/day) Bladder - Normal (7-8times/day) Sleep - Disturbed Addiction - No such Occupation - Business

General Examination

Abnormalities seen

Vitals

Blood pressure - 110/70 Pulse Rate - 84bps Respiratory Rate - 19/min Temperature - Normal body temperature (37.6°C) The Patients was conscious, alert and Co-operative Facies - Anxious Nutrition - Moderate Built - Moderate Psychological status - Normal Height - 5'6" Weight - 58kg Pallor - Mild Icterus, Cyanosis, Clubbing, Oedema No

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Lymphadenopathy - Not palpable

Astavidha Pariksha

Nadi - Vata-Pittaja predominent

Mala - Mridukostha

Mutra - Samyak

Jihwa - Amayukta/Alpo-sama

Sabhda - Normal/Spasta

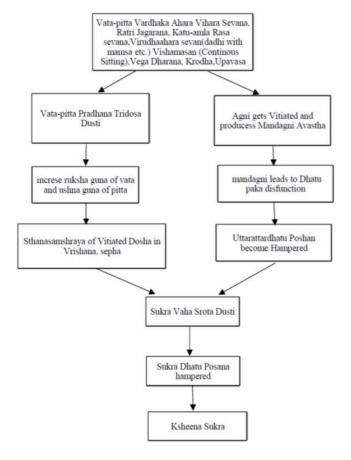
Sparsha - Normal body temperature (Anushna-

Sheeta)

Drik - Samyak Dristi

Akruti - Madhyam

Samprapti



Materials and Methods

Subjective criteria	Objective criteria
Durbalya, Pandutwa, Sadana, Sukra Visarga	Semen Analysis

Deepan-Pachana

For Amapachana and Koshtha Shodhana 10gm Panchakol[12] Churna mixed with 1 litre of Luke warm water to be consumed whole day for 7 days.

Shodhana Chikitsa

After Amapachana - Abhyantara Snehapana Start with Phala Ghrita for 7 days

Day 1	30 ml
Day2	60ml
Day 3	90ml
Day 4	120ml
Day 5	150ml
Day 6	180ml
Day 7	210ml

After proper *Abhyantara Snehana, Virechana Karma*[13] was done with 80ml *Trivrit Avaleham*.

Shaman Chikitsa

After Virecana Karma and Samsarjan Karma, Samana Chikitsa started on opd basis

1. Chagaladya Ghrita - 10gm BDAC with Luke warm water in empty stomach.

Krishnachaturmukha + Pushpadhanya Rasa - 1 pill each, 1 dose BDAC with honey

2. Vaiswanar Churna - 3 gm BDPC with Luke warm water

For Two months, after that

- 1. Pushpadhanya Rasa -125 mg + Sidhamakardhwaj 125mg, 1 dose BDAC with honey
- 2. Vaiswanar Churna 3gm BDPC with Luke warm water

Pathya-Apathya

Pathya

Madhurayukta Sadarasa Sevan, Ghee, milk, green vegetables etc. along with good sound sleep.

Apathya

Night awake, long standing, avoid *Vata-Pitta* aggravating diet (sour, spicy, oily etc.) and excessive physical work.

Results

Subjective Parameters Result

Clinical	Before	After treatment (after	Follow-up after 3
features	treatment	1 month)	months
Dourbalya	+++	+	+
Pandutwa	++	+	-
Sadana	+++	+	+
Sukra	++++	+++	++
Visarga			

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Before treatment the Sperm count was 50.4 million/ml and after treatment, it increased to 82.7 million/ml and after 3 months of follow-up. Actively motile % increased from 50% to 58%.

Test Name	Before	After	Follow up after 3
	Treatment	Treatment	months
	(16/09/24)	(30/10/24)	(27/01/25)
Volume	2.20ml	3.0ml	3.5ml
Color	white	white	white
Reaction	Alkaline	Alkaline	Alkaline
Viscosity	Normal	Translucent	Translucent
Liquefication time	60 mins.	45 mins	45 mins
Total Sperm Count	95million/ml	50.4 million/ml	82.7million/ml
After Ejaculation	00%	60%	70%
Actively motile	00%	50.0%	58.0%
(After 1 hour)			
Sluggishly motile	10%	18.0%	18.0%
(after 1 hour)			
Non motile	90%	32.0%	24.0%
(after 1 Hour)			



Figure 1: Before Treatment Report

Prof Dr. D Roy Barman
Dr. Biswaroop Seal Dr. Parinata Roy
MD (Pathology Dip RC Path)
MB.B.S., D.M.R.D.
MB.B.S., ICALL
MD. (Medicine)
MD. (Medicine)

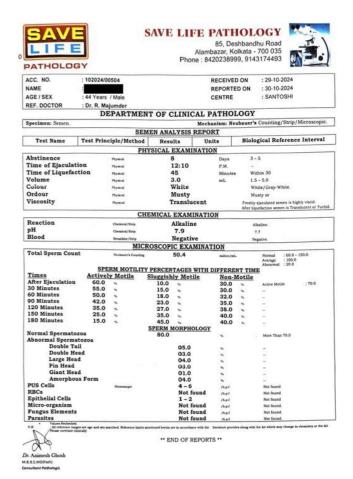


Figure 2: Report after one month of treatment

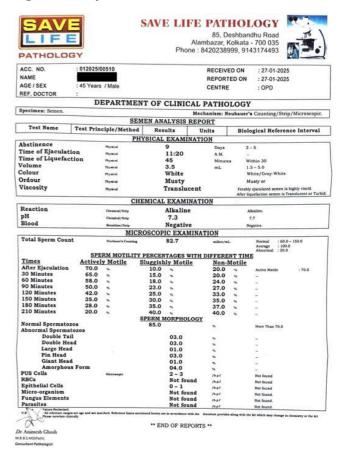


Figure 3: Follow up Report after 3 months

Path(London)fellow in Oncopathology Head,Department of Oncopathology Calcutta

Medical Colleage Consultant Pathologist, Reg. No:49908

ilta Chowdhury Dr. Ashis Chakraborty Dr. G.K. Ganguly M.D. (Radiodiagnosis) M.B.B.S., D.M.R.D.

Discussion

Asthenospermia, is the reduced or poor sperm Mortality, a condition in which sperm have difficulty moving or reducing their ability to reach and fertilize an egg. [15] Shukradushti Is the Causative Factor for The Infertility. Ksheenashukra is a type of Shukradushti, the Lakshana of Sukrakshaya is-Chirata Prashichate (Karmakartari)[16] that means Takes long time to ejaculation or difficulty in ejaculation or we can consider that means reduce the sperm mortality. So, Sukra Kshaya/Sukra Ksheena can be correlated to Asthenospermia.

In this case study the treatment principle is follows as *Sukrasodhana* followed by *Shukrajanan*. Before *Sukra Sodhana* we have to maintain the *Agni*, if *Agni* is properly function *Dhatupaka* will be occur properly and *Uttarattar Dhatu Poshan* will be maintained and the *Antim Dhatu*, that *is Sukra* formed properly. Thats why we firstly gave *Panchokol Churna*, it is best *Deepan-Pachan* drug, contains *Pippali*, *Pippali Mula*, *Chavya*, *Chitraka Mula* and *Sunthi*. *Rasa* and *Paka Properties of Panchkol* is *Katu and Ruchi Vardhak* (Increase Appetite and Digestion). According to ancient it is best *Deepan-Pachan* Drugs for *Amapachana* and *Agni Vardhana*. [17] So, it helps to increase and maintain the *Agni* and *Dhatu Paka*.

After proper Amapacana, Abhyantara Snehapana given with Phalagrita. In Astanga Hridaya mentioned, in male Infertility should be given Madhura Gana Ausadhiya Samskara with Ghrita or Milk.[18]. So, in terms of increasing the Sperm Motility and sperm count by Using Milk/Ghrita Samskrita Madura-Ausadha like- Jeevaniya Gana Drugs. Sharangadhara, Vagabhata, Yogaratnakar and Bhavaprakash also mentioned Phalaghrita in the treatment of Vandhyatva. Sukra Kshaya is the Vata-Pitta aggravated disease.[19]

In Sukrakshya the Ruksha Guna of Vata and Ushna Guna of Pitta is increased.[20] In Phalagrita the ingredients like Manjistha, Kustha, Tagara, Meda, Kakoli, Satavari, Milk, Ghrita etc. Ghrita has Tridosh Shamak Guna,[21] Milk is Vata-Pitta Shamaka and the other ingredients are Sukra Sodhak and some Sukra Janak. So, Phala Ghrita has Tridosha Samak, Rasayana and Vajikarana properties. So, this drug was selected for oral administration for Abhyantara Snehapana.[22]

Virechana Karma is also indicated in Sukra-Sonita Ashraya Janita Roga.[23] Astanga Hridaya also mentioned that after Snehapana Virechana Karma given to achieve Sudha Sukra.[24] After completion of Virechana Karma and Samsarjan Karma properly, Samsamana Chikitsa started with above mentioned medicine on OPD basis with regular follow-up.

Chagaladya Ghrita is herbal ghee containing Chagmamsa along with Jeevaniyagana drugs (Meda, Mahameda, Kakoli, Khseera Kakoli, Ridhi, Vridhi, Rishavak etc), Sarpi, Sarkara and Madhu etc, indicated in Vrishya, Agni Deepak etc.[25] Krishna Chaturmukha Rasa is a Vata Samak, helps in Vata Anulomona, also indicated in Mandagni, Pandu Roga etc.[26]

Pushpadhanya Rasa is one of the good Vajikarana drug, helps long and healthy life.[27]. Sidha Makardhwaj is also a good rejuvenating drug and Vaiswanar Churna contains Haritaki Churna, that is one of the best Vata-Anulomak drugs, and also helps to maintain the Agni.[28]

Conclusion

Asthenospermia is a condition where sperm motility is reduced, which is the main cause of male infertility. In ayurveda this condition we can be correlated with *Sukrakshaya/Sukraksheena*. According to the patient condition, *Dosik* involvement, on the basis of Ayurvedic classic treatment principle was given as *Sukrasodhana-Sukrajanan* followed by *Deepan-Pachan, Abhyantara Snehapana, Virechana* and *Samana Chikitsa* accordingly with the help of above-mentioned drugs.

After completion of proper treatment and changes in diet and daily regimen there was significant improvement in subjective and objective (semen analysis) parameters. Though it is single case study, it needs further evaluation with large sample for stablished of this therapeutic management.

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Declaration of Patient Consent

The authors certify that they have obtained all appropriate patient consent. The patient has given his consent for his clinical information to be reported in this journal. The patient was assured that his initials will not be published and due efforts will be made to conceal the identity.

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