



EFFECT OF *SHIROPICHU* AND *NASYA* IN MANAGEMENT OF INFERTILITY DUE TO POOR OVARIAN RESERVE- A CASE STUDY

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ABSTRACT

Infertility is defined as a Failure to conceive within one or more years of regular intercourse without any contraceptive measures. (Sixty) 60 to 80 (eighty) millions of couples suffering from infertility in worldwide, approx. 15 to 20 million (25 %) cases reported in India every year . As per world health organization's report, one in every four couples developing countries had infertility problems. Poor ovarian reserve is one of the important cause of infertility in reproductive age groups. This case study was planned, to find an effective, non-invasive *Ayurveda* treatment for infertility due to poor ovarian reserve. A 35-year-old female, unable to conceive since 2 years, visited institutional OPD of *Prasuti Tantra evum Stri Roga* department, in January 2023. She was diagnosed with secondary infertility due to a low Anti Mullerian Hormone(AMH) and raised Prolactin levels. Provisional diagnose was made as *Garbha Sravi* or *Balakashaya Janya Vandhya*. She was Planned for *Shiropichu* (application of cotton pad soaked in medicated oil or *ghrita* on head) and *Nasya* (administration of medicated oil or *ghrita* through nostrils) with *Phala Ghrita* for 07 days, during follicular phase for 03 consecutive cycles. After treatment the patient conceived naturally. Significant increase in the levels of AMH was seen and Prolactin level comes within normal limits. *Shiropichu* and *Nasya* was found to be effective in poor ovarian reserve in reproductive-aged women.

Keywords- *Infertility, Anti Mullerian Hormone, AMH, Prolactin, Phala Ghrita, Shiropichu, Nasya*

INTRODUCTION:

Infertility is defined as a Failure to conceive within one or more years of regular intercourse without any contraceptive measures. Out of 60 to 80 million couples suffering from infertility worldwide, approx. 15 to 20 million cases are reported in India every year. As per world health organization's report, one in every four couples had infertility issues¹. Total number of primary oocytes at birth is estimated about 2 million. At puberty

some 4 lacs primary oocytes are left behind. Out of these some 400 are likely to ovulate during the entire reproductive life.² Anti-Mullerian hormone (AMH) is released by granulosa cells in developing follicles and is an Important biomarker for ovarian reserve. Poor ovarian reserve indicates reduction in the quantity of ovarian follicles.³ Folliculogenesis depends on normal functioning of Hypothalamic pituitary ovarian axis . Pulsatile secretion of

Gonadotropin releasing hormone (GnRH) from hypothalamus triggers proper secretion of Gonadotrophins (FSH and LH) from anterior pituitary. Which in turn leads to stimulate formation of antral follicles, proliferation of granulosa cells and maturation of dominant follicle.⁴

According to classical *Ayurvedic* texts like *Charaka Samhita*, *Sushruta Samhita*, and *Ashtanga Hridaya*, successful conception depends on four essential factors known as *Garbha Sambhava Samagri*.⁵ As favorable season, fertile land, proper watering, and good seeds result in a good crop, similarly, favorable essential four factors described by *Acharya Sushruta* results in healthy progeny. These factors are:

1. *Ritu* (Fertile period)
2. *Kshetra* (Healthy body and Reproductive organs)
3. *Ambu* (Nourishing factor)
4. *Beej* (ovum & sperm)

Abnormality in any of the above said factors causes infertility, Poor ovarian reserve are increasing day by day. The general line of management in conventional medicine system is through DHEA supplements which help in improving the quality and quantity of eggs.⁶

Objective: To find an effective *Ayurveda* procedure to manage infertility due to poor ovarian reserve and to assess effect of *Siropichu* and *Nasya* on AMH level.

CASE REPORT-

A 35 years old female came to OPD of *Prasuti Tantra* and *Stri Roga* Department at Pt. Khushilal sharma govt. Ayu. hospital on 23/02/23 OPD no. 20230011631). She complained of difficulty in conceiving after first issue. Husband's Semen analysis report was found to be within the normal values. Female routine hematological history was

found to be within the normal limits. The serological report found, low AMH value of 0.38 ng/mL dated 04/06/22 The patient was advised for ovulation induction under conventional medical system with assisted methods of reproduction. Hysterosalpingography (HSG) was performed on 08/06/2022, found to be normal with bilateral peritoneal spillage. Follicular study done on 30/06.2022 showed only 1-2 antral follicles. After ovulation induction, no dominant follicles were seen in Follicular study. Hence, they consulted for *Ayurvedic* treatment and visited PTSR OPD of Pt. Khushilal sharma Govt. Ayurvedic college and hospital..

Marital history: (Married in the year 2018)

Married and Active married life- 6 years

Menstrual history:

Duration- 2 days

Cycle- 28 days

Flow- 2days

Pad- 1/ day

Clots- absent

Pain- mild

Obstetric history: G₂ P₁ L₁ A₁

G₁-Fch- 5 years (full term normal delivery)

G₂- Spontaneous abortion at 6 weeks of gestation, 3 years before.

Occupational history:

1. Occupation (wife)– House maker.
2. Occupation (Husband)– Photographer, running photo studio.

Clinical findings:

Darshan Sparshan Pariksha-

The patient had a normal build with a body weight of 57 kg and height of 152 cm. with body mass index of 24.7 kg/m². There was no evidence of pallor, lymphadenopathy, clubbing of fingers, or edema noticed on physical examination.

The findings obtained on per vaginal and per speculum examination were normal.

- Uterus: Anteverted - Anteflexed, Normal in size and shape
 - Cervix: Downward, Firm
 - Cervical motion tenderness: Absent
 - All fornices: Non -tender
- On per speculum examination -
1. No abnormal discharge seen
 2. Cervix-Normal size, few nabothian cyst present, No erosion,
 3. Vaginal walls: Healthy, Pinkish

DASHVIDHA PARIKSHA:

Prakriti: Vatapittaj

Vikriti: Vishmasamveta

Sanhana: Madhyama

Pramana: Madhyama

Satmaya: Sarvarasa satmaya

Satva: Madhyama

Ahara shakti: Madhyama

Vyayama shakti: Madhyama

ASHTAVIDHA PARIKSHA:

Nadi: Vatapittaj

Mala: Sama

Mutra: Samanya

Jivha: Malavrat

Shabda : Madhyama

Sparsha: Ruksha

Drika: Samanya

Akriti: Madhyama

Declaration of patient consent:

The author certifies that; appropriate consent has been obtained from patient. Before treatment.

Diagnostic assessment:

Provisional diagnosis : Garbha Sravi Vandhya, Balakashaya Janya Vandhya

Final diagnosis: Secondary infertility associated with low ovarian reserve.

This condition could be considered as Kaka Vandhya. Sapraja Vandhya or Dhatukshayajanya Vandyatva from an Ayurvedic perspective.

SAMPRAPTI:

According to Ayurveda vitiation of *Vata dosha*, leads to *Jatharagni Vaishamy* (Digestive fire imbalance) which hampers the formation of proper *Rasa Dhatu*. This results in formation of *Äma*. This *Sāma Rasa* is *Sarvdosha Prakopaka* and ultimately results in *Strotorodha* (depletion of nourishment in microchannels) afflicting *Garbhashaya*, leading to *Dhatukshayajanya Vandyatva*.⁷ Acharya Caraka has mentioned *Kleevata* (infertility) as *Rasa Pradoshaja* disease.

TREATMENT PLAN:

On the basis of diagnosis patient was planned for *Shiropichu* and *Nasya* with *Phala Ghrita* for 7 days, during follicular phase for 3 consecutive cycles, to stimulate Hypothalamic Pitutary Ovarian axis and thus folliculogenesis. *Shiropichu* with *Phala Ghrita* acts by cellular absorption through trans-dermal route. It corrects the brain circulation, normalizes *vata* functioning and stimulates peripheral nerves.⁸

Nasya Karma application of medicated substances via the nasal passages. It is stated in *Ayurvedic* texts, that the nose serves as a vital portal to the head, medicine administered through Nose stimulates olfactory nerves and limbic system, which in turn stimulates hypothalamus leading to pulsatile secretion of GnRH, resulting in proper secretion of FSH and LH hormones. leading to folliculogenesis, dominant follicle development and ovulation.⁹

Probable Mode of action of Phala ghrita:

Folliculogenesis is a crucial process in a woman's reproductive cycle, and its disruption can have significant implications for fertility. *Phala ghrita* contains *Shatavari*, *Ashwagandha*,

Pippali, Trifala and drugs of Jeevaniya gana. and has Tikta, Madhura and Katu rasa, Laghu, Snigdha Guna, both Katu and Madhura Vipaka and also Ushna and Sheeta Veerya.

According to Bhaisajya Kalpana it has Tridosha Shamaka, Shothahara, Krimighna, Balya Garbhashthapak, Rasayana etc. properties which helps in

development of antral follicle and nourishing the developing follicle to grow as a dominant follicle and also helps in proper development of the endometrium which is required for the implantation and nourishment of the zygote. Application of Shiropichu and Nasya with Phala Ghrita can promote ovulation induction.

Image 1. Investigation reports



Table no. 1- AMH and Prolactin before and after treatment report

Investigations	Before treatment (04/06/2022)	After treatment (01/05/23)
AMH	0.38 ng/ml	0.98 ng/ml
Prolactin	354.1 uiu/ml	18,9 uiu/ml

Table no. 2- Serum FSH and Serum LH before and after treatment report

Investigations	Before treatment (24/01/2023)	After treatment (17/05/23)
Serum FSH	52.8 miu/ml	35.2 miu/ml
Serum LH	10.9 miu/ml	10.7 miu/ml
Estradiol	518.14 pg/ml	187 pg/ml

OBSERVATION AND RESULT:

After completion of the treatment, the patient conceived naturally. Significant increase in the levels of AMH was seen and Prolactin level comes within normal limits. Shiropichu and Nasya found to be

effective in infertility in poor ovarian reserve in reproductive-aged women.

DISCUSSION:

Anti-mullerian hormone (AMH), known as mullerian -inhibiting substance, is a dimeric glycoprotein hormone belonging

to the transforming growth factor-beta family. It is produced by ovarian granulosa cells in females. AMH level reflects the ovarian reserve. With increasing age of females, pool of follicles I.e. number of follicles decreases

gradually. Likewise, their blood AMH levels and the number of ovarian antral follicles visible on ultrasound also decreases. AMH is sensitive marker of ovarian reserve than FSH, estradiol, and antral follicle count (AFC)¹⁰.

Table no 3- AMH levels in different reproductive age group females:¹¹

S.no.	Age Range	Good AMH Level (ng/mL)	Normal Range (ng/mL)
1.	Under 25	4.1	2.5 – 6.0
2.	25-29	3.5	2.0 – 5.5
3.	30-34	2.8	1.5 – 4.5
4.	35-39	1.5	1.0 – 3.0
5.	40-44	0.9	0.5 – 2.0
6.	45+	0.4	0.1 – 0.9

CONCLUSION: Cases of infertility are increasing day by day due to various factors including Poor ovarian reserve, where AMH is a useful marker that helps in detecting and planning for infertility management. Infertility has been a great challenge even after the advancement treatment. *Ayurveda* offers a potential remedy for infertility due to poor ovarian reserve, that has not responded to conventional treatments like ovulation induction. *Shiropichu and Nasya* found to be overcoming the barriers of low quantity and quality of eggs in women with poor ovarian reserve in the present case where the patient conceived naturally after a course of treatment. Hence, a large sample study should be conducted to validate the current treatment modality.

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