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## Ayurvedic Management Of Anovulation - A Clinical Case Report.

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### **ABSTRACT**

**Background:** Primary infertility is defined as the inability of a couple to achieve conception after one year of unprotected coitus. Anovulation is a significant cause of female infertility, contributing to approximately 35% of cases attributed to ovulatory dysfunction. It is characterized by the failure of follicular rupture despite follicular development, resulting in the absence of ovulation. The etiologies of anovulation are diverse and include polycystic ovary syndrome (PCOS), hyperprolactinaemia, premature ovarian insufficiency, hypothalamic anovulation, luteinized unruptured follicle syndrome, and luteal phase deficiency. *Acharya Kashyapa* in the *Revati Kalpa Adhyaya* describes a condition termed *Pushpagni* referring to timely but fruitless menstruation. From an *Ayurvedic* perspective, this clinical presentation can be correlated with anovulation.

Case report: A 31-year-old female patient who has been trying to conceive for the past three years presented for Ayurvedic consultation and treatment. Following evaluation, she was diagnosed with primary infertility due to anovulation and elevated prolactin levels. In this particular case, the primary Doshas involved were predominantly Vata and Kapha, along with vitiation of the Dhatus - Rasa, Rakta, and Artava. Therefore, the treatment was formulated based on the prevailing Dosha dominance and the affected Dhatus incorporating both Shodhana i.e., Vamana, Basti, Uttarabasti and Shamana therapies

**Results:** Patient conceived after over one year of *Ayurvedic* line of treatment with regular follow-up. UPT was found positive on February 2025.

**Conclusion:** This case study concludes that the comprehensive and holistic principles of Ayurveda contribute significantly to the management and alleviation of infertility resulting from ovarian dysfunction

Keywords: Anovulation, Beejadushti, Apraja Vandyatwa, Uttarabasti, Yogabasti

### 1. INTRODUCTION

Vadhyatva or Female infertility is a gynecological condition that, which significantly impairs a woman's ability to conceive and contribute to progeny. Infertility is termed primary if conception has never occurred and secondary if the patient fails to conceive after having achieved a previous conception. The incidence of infertility in any community varies between 5 and  $15\%^{-1}$ .

According to the *Harita Samhita*, the *Anapathya* type of *Vandhyatva* correlates with primary infertility—which means a women who has never conceived <sup>2</sup>. According to *Ayurveda*, four essential factors are required for successful conception are *Ritu*, *Kshetra*, *Ambu* and *Beeja* <sup>3</sup>. Here *Beeja* can be referred as healthy ovum and sperm. Speaking of female infertility, *Beeja dushti* can be considered as ovulatory dysfunction i.e., anovulation. If any derangement in any of these will result in *Vandyatwa*.

According *Acharya Kashyapa* in the *Revati Kalpa Adhyaya* mentions the condition *Pushpaghni Jataharini*, describing the symptom "*Vrutta Pushpa*" referring to a woman who experiences timely menstruation without the result of conception. This condition, from an *Ayurvedic* perspective, can be correlated with anovulation<sup>4</sup>. Anovulation is an important subset in infertility <sup>5</sup>. According to FIGO-Ovulatory dysfunction contributes to 30% - 40% causative factors of infertility <sup>6</sup>.

The ovarian activity is totally dependent on the gonadotropins and normal secretion of the gonadotropins depends on the pulsatile release of GnRH from hypothalamus. Thus the disturbance may result in anovulation <sup>7</sup>.

This paper presents a successful case report of a patient with primary infertility due to anovulation, managed through

Ayurvedic treatment, demonstrating positive clinical outcomes. The treatment protocol focused on enhancing Agni removing Srotodushti facilitating the proper formation of Shuddha Artava along with Beejakarmukta and Vata Shamana.

## PATIENT INFORMATION

A 31-year-old married woman visited the *Prasuti Tantra* and *Stree Roga* outpatient department (OPD) with the concern of being unable to conceive despite trying for three years during her regular and unprotected married life. Patient gave a detailed history that couple consulted allopathic gynaecologist in Bangalore where she underwent hormonal therapy and ovulation induction for 3 cycles and one cycle of intrauterine insemination (IUI) but no any results. Patient also underwent hysterosalpingography (HSG) investigation in 2022 - it was suggestive of bilaterally both fallopian tubes were patent. Later in 2023 she came to JSS Ayurvedic Medical Hospital for the further management

Past History: No history of DM/HTN/hypo- hyperthyroidism or any major medical or surgical history

Family History: Nothing significant

Occupation: Accountant

**Menstrual History:** 

LMP-20/10/2023

Menarche – 13 years

Regularity - regular

Menstrual cycle duration – 4-5 days

Interval – 28 to 30 days

Flow – moderate flow with mild lower abdomen pain

## **Obstetric History:**

Married Life: 3 1/2 years (NCM)

 $O/H - G_0P_0L_0A_0$  (Nulligravida)

Contraceptive History - Nil

## **General Examination:**

Built: lean built

Nourishment: Moderate

Pulse: 73 per min Temperature: 97F

Weight: 45kg

Height: 156 cms

BMI-  $18.1 \text{kg/m}^2$ 

Pallor - Absent

Icterus - Absent

Cyanosis - Absent

Clubbing - Absent

Oedema - Absent

Lymphadenopathy - Absent

## **Systemic Examination:**

CNS - Conscious, well oriented to place, time, person

CVS - S1-S2 heard, Normal

R/S – B/L Air entry clear, No added sound - No abnormality found on other system

## On clinical Examination -

P/A- soft, no palpable mass, no tenderness

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Pelvic Examination - P/S, P/V was normal

# **Investigations -**

USG Abdomen and Pelvis (11/09/2023) -

Uterus is normal in size and retroflexed in position. Echoes returning from myometrium and endometrium are normal. Uterus measures 7.5\*3.9\*4.3 cms.

Endometrial thickness - 9m

Follicular Study - on 12th Day

Right Ovary showing - 6 mm

Left Ovary showing - 10.8 mm

No dominant follicle noted on either side.

ET 9 m

Hormonal assay -

TSH - 3.47mIU/L

Serum Prolactin - 77.23ng/ml

## 2. THERAPEUTIC INTERVENTION

**Table 1: Timeline of Therapeutic Intervention** 

Date	Therapeutic Approach	Medicines With Dosage	Duration
September 2023	1.Deepana Pachana	With Agnitundi Vati and Chitrakadi Vati    (1-1-1) / BF	5 days
	2. Snehapana	• With Varunadi Ghrita (30,60,90,110,130 ml)	5 days
	3. Sarvanga Abhyanga and Bashpa Sweda	• With Mahanarayana Taila	2 days
	4. Vamana karma	With Madanaphala Kalka and Yashtimadhu     Phanta	1 day
December 2023	Oral medicines	Cap Ovarin (1-1-1) A/F	1 month
(follow up)		• Tab Leptaden (1-1-1) A/F	
		Syrup Ovarin 10 ml TID	
January-March 2024	Yonyoniprakshalana     Uttarabasti	With Panchavalkala Qwatha     With Phalaghrita	3 consecutive cycle
(follow up )  Ksheerapaka (1tsp/B  Pratimarsha Nasya v  Mahanarayana taila		<ul> <li>Shatapushpa Churna         Ksheerapaka (1tsp/BD/BF)</li> <li>Pratimarsha Nasya with         Mahanarayana taila (4<sup>0</sup>- 0 -4<sup>0</sup>)</li> <li>Syp Manol (1tsp BD/BF)</li> </ul>	1 month

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May 2024	Oral medicines	• Sukumara Kashaya (10 ml TID) A/F 2 months	
(follow up)		Tab Gynakot (1-0-1) A/F	
	2. Pratimarsha Nasya	• with <i>Phalagritha</i> (0-0-2 drops)	
July (1/7/2024)	Yogabasti	Niruha basti with Erandamooladi Kashaya	for 8 days
		Anuvasana basti with Mahanarayana taila (80 ml)	
July (24/7/24)	1.Pratimarsha Nasya	• with <i>Phalagritha</i> (0-0-2 <sup>0</sup> )	2 months
(follow up)			
	2. Oral Medicines	• Streevyadihara Rasa (2-0-2) A/F	
		Cap Nashtapushpantaka Rasa (2-0-2) A/F	
		Varunadi Kashaya 10ml BD/AF	
October 2024	1. Oral Medicines	• Tab Torchnil (1-0-1) A/F,	3 months
(follow up)		• Cap Shatavari (1-0-1) A/F	
	2. Pratimarsha Nasya	• with Mahanarayana Taila	
January 2025	1.Pratimarsha Nasya	• with Mahanarayana Taila (0-0-2 drops)	For one
(Follow up)		• Tab Torchfree (1-0-1) A/F	month
	2.Oral Medicines	• Pushpadanwa rasa (2-0-2) A/F	
	(Advised For Follicular Study on 12 <sup>th</sup> day of cycle		

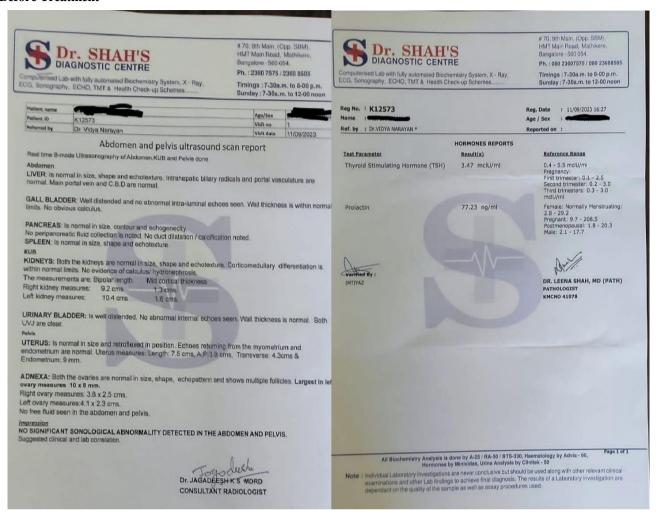
## 3. RESULTS

After over a year of undergoing *Ayurvedic* treatment, patient missed her menstrual cycle in February 2025, UPT was done, which showed a positive result, later confirmed by ultrasound (USG).

**Table 2: Shows Before and After Treatment Results** 

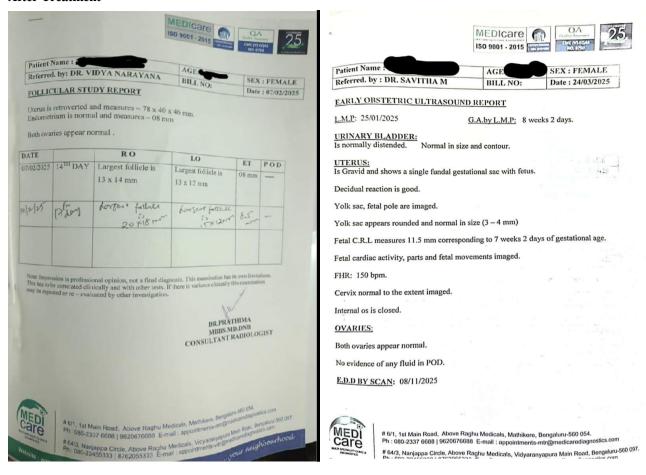
SI no	Date	BT Report	AT report
1.	31/10/2023	Follicular study	
		Impression: Anovulatory cycle	
2.	10/02/2025		Follicular scan : Ovulation
			Occurred

### **Before Treatment**





### **After Treatment**









## IMPRESSION:

SINGLE LIVE INTRAUTERINE GESTATION OF ESTIMATED GESTATIONAL AGE 7 – 8 WEEKS +/ - 1 WEEK.

ADVICE NT SCAN AT 12 - 13 WEEKS.

I, Dr. Prathima do Hereby declare that while performing the antenatal ultrasonography for the patient Mrs. SANJANA that, I have neither detected nor disclosed the sex of her fetus to anyone any in any manner. Not all anomalies can be detected by ultrasound. Scan done beyond 30 weeks are not anomaly scans.

DR.PRATHIMA. MBBS.MD.DNB Consultant radiologist.

## 4. DISCUSSION

In this case, evaluation of the follicular study confirmed anovulation, and laboratory investigations revealed elevated serum prolactin levels as contributing factors to primary infertility. Also involvement of *Vata* and *Kapha Doshas* was observed, along with *Dushti* of *Rasa*, *Rakta*, and *Artava*.

Therefore the primary line of treatment focused on Agnideepana and Pachana.

The next step was *Snehapana* with plain *Varunadi Ghrit*a which became the ideal medicine for *Snehana* in the conditions where predominance of *Kapha* and *Vata Dosha*. After *Abhyanga and Swedana*, *Vamana* was the selected *Shodhana* therapy because of the involvement of *Kapha Doṣha* <sup>8</sup> as it removes the vitiated *Doshas* and clears *Abhishyandi* from *Srotas* and

helped for proper absorption of medicines.

In anovulation, *Uttara Basti* is an effective treatment as it helps remove *Srotosangha* and restores *Artava*. It stimulates ovarian hormone secretion, supports follicular development, and promotes ovulation. *Phalaghrita* was used in *Uttar Basti*, because *drugs* possess the properties like *Yonishukradoshahara*, *Prajasthapana*, *Ayushya*, *Medhya*, *Pachana*, *Deepana*, *Lekhana*, *Shothahara*, *Balya*, *Anulomana* <sup>9</sup>.

Basti was selected as the next line of treatment. This was due to the predominant involvement of Vata Doṣha in the pathogenesis. Acharya Charaka stated that conception occurs only in a Shuddha Yoni. He highlighted Basti as the most effective treatment, as Yonivyapad are primarily caused by Vata dosha <sup>10</sup>. He especially recommended Niruha Basti for infertility, comparing it to nectar for a Vandhya <sup>11</sup>, as it helps to balance Vata and Raja, thus promoting conception. Therefore Eraṇḍa mooladi niruha basti was selected, as it balances Vata-Kapha and removes Srotorodha <sup>12</sup>. Taila used for Anuvasana Basti was Mahanarayana Taila which is Brimhana and Vatahara.

Mahanarayan Taila and Phalaghrita were used as Pratimarsha Nasya, it reaches to Shringataka Marma (Siro Antarmadhyam) through the route of nasal. It spreads all over Urdhwajatrugata part. It eliminates the morbid Doshas. It stimulates the Gonadotropin Releasing Hormone (GnRH) neurons <sup>13</sup>. Thus, it regulates the pulsatile secretion of Gonadotropin Releasing Hormone. Finally, it leads to ovulation aids in conception.

### 5. CONCLUSION

The present case study demonstrates that the integrative and holistic approach of *Ayurvedic* medicine shows significant efficacy in the management of infertility associated with ovarian factors, particularly anovulation. Anovulation, defined as the failure of the ovary to produce and release a mature oocyte, is a leading cause of female infertility. In this study, *Srotoshodhana* was achieved through *Vamana Karma* and *Basti*, which facilitated the elimination and pacification of vitiated *Doshas*. The administration of *Uttar Basti* helped remove *Srotorodha* and corrected *Artava*, thereby promoting ovulation. Additionally, the *Pratimarsha Nasya* procedure was employed to stimulate the hypothalamic-pituitary-ovarian (H-P-O) axis, further supporting the induction of ovulation. Throughout the course of treatment, no adverse effects were observed

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