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Ayurvedic Interventions for PCOS: A Single- Case Analysis

Dr. Swathi Ramamurthy¹, Dr. Arpitha C Rao², Dr Tammana Sheokand³

¹Head, Research & New Product Development, Herbal Chakra Pvt Ltd.

^{2,3}Ayurveda Consultant, Herbal Chakra Pvt Ltd.

Abstract

Polycystic ovarian syndrome (PCOS) is a multifaceted disorder marked by elevated androgen levels, as well as irregular menstrual patterns or the presence of small cysts on either one or both ovaries. It manifests 20-30% more commonly in individuals of childbearing age. The condition gets its name because there is often an increased number of small painless cysts within the ovaries. It is also a metabolic problem that affects various body systems. It is very difficult to cure, in contemporary systems which provide short-term relief. In Ayurveda, PCOS is considered Yonivyapad, Rajo dosha, and Arthava dusti, depending on its clinical presentation. A case of a 29-year-old female complaining of irregular menstruation, prolonged bleeding, Dysmenorrhoea, acne, facial hair growth, and weight gain confirmed PCOS based on symptoms and USG. She was treated based on Ayurveda principles with Shamana oushadis and lifestyle changes for 3 months. The analysis of results was based on the alleviation of clinical symptoms and the findings from the USG report. The results demonstrate a notable improvement in both clinical symptoms and USG reports post-treatment. Adherence to Ayurvedic principles is found to be helpful in PCOS for a healthy and fruitful life.

Keywords: Arthava dusti, Polycystic Ovarian Syndrome, Rajo dosha, Yonivyapad

1. Introduction

Polycystic ovarian Syndrome (PCOS) stands out as the prevalent endocrine disorder among women of reproductive age, arising from insulin resistance and the subsequent compensatory hyperinsulinemia. The prevalence of this condition is unclear but it affects 5.8% to 10% of women of reproductive age worldwide¹. It is found in around 70% of women who have ovulation difficulties leading to subfertility. Polycystic ovarian Syndrome is a condition that has cysts on the ovaries that prevent the ovaries from performing normally. Symptoms of Poly Cystic Ovarian Syndrome include Amenorrhea or infrequent menstruation, irregular bleeding, infrequent or no ovulation, multiple immature follicles, increased levels of male hormones, male pattern baldness or thinning of hair, excess facial and body hair growth, acne, oily skin or dandruff, dark colored patches of skin especially on neck, groin, underarms, chronic pelvic pain, increased weight or obesity, diabetes, lipid abnormalities, and high blood pressure².

It is a hormonal disorder causing enlarged ovaries with fluid-filled sacs on the outer edges because of abnormal hormonal levels. In which the ovaries produce an abnormal amount of androgens, i.e. male sex hormones that are usually present in women in small amounts³.

According to the Ayurvedic view, PCOS can be correlated with Aarthava Kshaya, Yonivyapad, Rajodosha, and Vishamarthava. Ayurveda places a strong emphasis on preserving Shudha Arthava (healthy ovum)



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during the fertile period. Practices such as Rutumaticharya, Dinacharya, and Rajswalacharya play a vital role in achieving and maintaining a healthy life⁴. Neglecting these charyas (manners) can result in stress and tension, leading to the consumption of unhealthy foods that adversely affect the formation of Rasa Dhatu, impacting all dhatus, especially Medho Dhatu (fat tissue) and Rakta Dhatu (blood cells).

By the concept of Asrayi Asraya Bhavas, Kapha Dosha becomes affected, leading to blockages in srotas (channels), which in turn aggravate Vata and cause Dhatu kshaya (depletion). Consequently, there is a decrease in Rasa Dhatu, ultimately contributing to the Kshaya of its Upadhatu, namely Arthava Kshaya (anovulation). Additionally, hormonal imbalances manifest as Pitta Dushti in this context.

2. Case Study:

A 29-year-old married female patient apparently healthy presented herself at Purely Yours online consultation platform with a complaint of an irregular menstrual cycle, and prolonged and excessive uterine bleeding persisting for the past 4 years. The menstrual cycle was once in 3 months for the past 1 year along with dysmenorrhea. She had other symptoms like mild acne, facial hair growth, hair fall, and weight gain of 15 kg. She also had sour belching and pain in the epigastric region. Her USG findings reveal bilateral PCOS.

Past History

No relevant history

Family History

The father has been diabetic for the past 2 years and the mother has a K/C/O Hypothyroidism and Hypertension for several years.

Treatment History

Had taken hormonal treatment for the past 3 years and did not find improvement.

Surgical History

No relevant history

Table No 1: Menstrual History

Menarche	12 years
Cycle	Irregular
Interval	Once in 3 months
No days of bleeding	7-8 days
No pads per day	4-5 pads daily
Dysmenorrhoea	++
Clots	++
White discharge	++
Vaginal itching and foul smell	++
LMP	5/03/2023

Obstetric History

P0, A0, L0, DO

Marital History: Married life of 4 years, unable to conceive due to PCOS

Table 2: Personal History

Kshudha	Reduced
Ahara	Mixed



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Nidra	Disturbed
Vihara	Avyayama, Chinta
Vyasana	Fond of junk food

Table 3: Dashavidha Pariksha

Prakruti	Pitta-Kapha
Vikruti	Kapha-Vata
Dushya	Rasa- Medo dhatu
Sara	Madhyama
Samhanana	Madhyama
Satwa	Madhyama
Ahara shakti	Abhyavahara -Madhyama
	Jarana – Madhyama
Vyayama Shakti	Avara
Sathmya	Madhyama
Vaya	Madhyama
Pramana	Pravara

Table 4: Astavidha Pariksha

Nadi	Could not examine
Mala	Normal
Mutra	Prakrita 4-5 vegas/day and 1 vega /night
Jihva	Anupalipta
Shabda	Prakrita
Sparsha	Could not examine
Drik	Prakrita
Akruti	Sthoola

Table 5: General Physical Examination

Appearance	Bulky
Built	Well-built
Nourishment	Well-Nourished
Gait	Normal
Pallor	Absent
Icterus	Absent
Cyanosis	Absent
Clubbing	Absent
Oedema	Absent
Lymphadenopathy	Absent

Systemic Examination- Not examined



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USG Findings

Endometrial thickness measured 14 mm. Fine cysts of 1-2mm size are seen within the endometrium. The ovaries have volumes between 11-12cc. There are 20-25 small follicles in either ovary.

Blood Investigations

CBC- Within the normal limit

Thyroid profile- Within the normal limit

Blood sugar- Within the normal limit

Hormonal assay- Not done

Diagnosis

The diagnosis was done clinically by following symptoms as per Rotterdam criteria⁵

- Irregular menstrual bleeding
- Abnormal menstrual cycle
- Weight gain
- Hyperandrogenism
- Polycystic ovarian morphology in USG

The patient was well built with 70kg. Based on clinical history, physical examination and USG reports the patient was diagnosed with PCOS.

According to Ayurveda, Samprapthi ghataka is as follows

Hetu- Avyayama, Guru- Snigdha ahara, Atimamsa sevana

Dosha- Kapha- Vata

Dushya- Rasa and Medha dhatu

Srotas- Rasavaha, Medovaha and Arthavavaha

Srotodusti- Sanga, Atipravritti

Prathyatma lakshana- Anarthava, Atyarthava, Sthoulya

- 3. Treatment
- a. Nidana Parivarjana
- b. Shamana Chikitsa

Table 6- Internal Medication Given for Three Months

Date		Name of the	Dose	Kala	Frequency	Anupana
		Medicine				
6/05/2023	to	Kanchanara	1 tablet	After food	Twice	Lukewarm
6/06/2023		Guggulu			daily	water
		Cap Flo veda	1 tablet	After food	Twice	Lukewarm
					daily	water
		Cap Femme	1 tablet	Before food	Twice	Lukewarm
		balance			daily	water
		Avipattikara	1 teaspoon	Before food	Twice	Lukewarm
		Churna			daily	water
7/06/2023	to	Kanchanara	1 tablet	After food	Twice	Lukewarm
7/07/2023		Guggulu			daily	water
		Cap Flo veda	1 tablet	After food	Twice	Lukewarm
					daily	water



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		Avipattikara	1 teas	spoon		Befor	re food	Twice	Lukewarm
		Churna						daily	water
		Cap Femverve	1 tab	let		Befor	re food	Twice	Lukewarm
								daily	water
		Organic Ova calm	As	a	tea	In	empty	Once daily	Warm water
			repla	cement		stoma	ach		
8/07/2023	to	Cap Femverve	1 tab	let		Befor	re food	Twice	Lukewarm
8/08/2023								daily	water
		Organic Ova calm	As	a	tea	In	empty	Once daily	Warm water
			repla	cement		stoma	ach		
		Cap Flo veda	1 tab	let		After	food	Twice	Lukewarm
								daily	water

c. Yoga and Pranayama

Table 7- Yogasana and Pranayama Advised for Three Months

Asanas /Pranayama	Duration
Nadi shodhana Pranayama	1 minute
Kapalabhati	90-120 repetitions
Warm-up	Neck rotation, ankle
	rotation, torso rotation
Suryanamaskara	12 rounds
Standing posture asanas- Trikonasana, Virabhadrasana, Daivyasana,	8-10 repetitions on each
Anjaneyasana	side
Sitting posture asana- Gomukasana, Ardamatsyendriyasana, chakki	8-10 repetitions on each
chalanasana, Malasana, Butterfly pose, Padmasana	side 0r 1-2 minutes
Supine position- Navakasana, Halasana, Setu bhandasana, Sarvangasana	1 minute each
Prone position- Dhanurasana, Bhujangasana, Tiryak bhujangasana,	1 minute each
Shalabasana	

d. Diet advice

Customized diet charts have been given to the patient

Follow-up and outcome after 3 months

4. Observation and Results

Table No 8- Changes in Clinical Signs and Symptoms Before and After Treatment

Symptoms	Before	After 1	After 2	After 3
	Treatment	Month	Months	Months
Irregular Menstruation	Present	Absent	Absent	Absent
Prolonged Uterine Bleeding	Present	Absent	Absent	Absent
Amount of Bleeding	4-5 pads daily	2-3 pads	2-3 pads	2-3 pads daily
		daily	daily	
Acne on Face	Present	Slightly	Absent	Absent
		reduced		



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Facial Hair Growth	Present	Present	Slightly	Very few are
			reduced	present
Dysmenorrhoea	Present	Absent	Absent	Absent
White Discharge	Present	Absent	Absent	Absent
Vaginal Itching and Foul Smell	Present	Absent	Absent	Absent
Sour Belching and Pain in	Present	Absent	Absent	Absent
Epigastric Region				
Change in Weight	70 kg	69kg	67kg	64kg

Result of investigation

Table No 9 - Ultrasonography Report Before and After Treatment

Before Treatment	After Treatment
Right Ovarian Volume -12 cc	Right Ovarian Volume- 5.8
	cc
Left Ovarian Volume-11 cc	Left Ovarian Volume-7.5
	cc
Endometrial thickness -14mm	Endometrial thickness-
	4.7mm
Polycystic changes of both ovaries. A fine cyst of 1-2 mm is seen within	No significant abnormality
the endometrium	

5. Discussion

Ayurveda, the ancient system of traditional medicine from India, describes gynecological diseases and conditions under the term "Yonivyapad." Yonivyapad refers to disorders and ailments related to the female reproductive system, including the uterus, ovaries, fallopian tubes, and vagina. As there is no direct reference to PCOS in Ayurveda classical texts, depending upon the symptoms it can be correlated to Arthavavaha srothodusti, Rajodoshajavikara, Vishamarthava, and Yonivyapad.

Improper diet and lifestyle choices, referred to as Apathya Aahara Viharas, lead to the accumulation of Aama in Rasa Dhatu, which in turn disrupts Arthava Upadhatu. This pathological condition results in the improper selection and maturation of ova. The Aama generated during this process further vitiates the other Dhatus, resulting in noticeable symptoms such as excessive weight gain and hair loss. These manifestations can be observed as issues like obesity, abnormal hair growth, and hair loss. The imbalances of Kapha and Medho Doshas often arise due to the excessive consumption of unhealthy foods, coupled with a lack of physical activity (Avyayama) and daytime sleep (Divaswapna).

To address these disturbances in Doshas and Dhatus, therapeutic measures involving carminative, digestive (Pachana), Vatanulomana (balancing Vata), Lekhana (scraping or reducing), and Arthava Janana (ovulation-inducing) properties should be employed to restore normalcy to this condition.

Action of medicine

a) Femverve Capsule – Femverve capsule is a proprietary Ayurvedic formulation from Purely Yours having Shatavari, Gokshura, and Methika as the ingredients. This capsule brings balance and strength to the menstrual system and it helps to regulate Arthava Dhatu. It improves and harmonizes levels of testosterone and estrogen in women, thereby helping to improve symptoms of PCOS. Insulin resistance



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and androgen excess are the major concerns in PCOS, Methika in this capsule checks insulin resistance, and both Sharatavri and Gokshura correct androgen excess. This helps in relieving symptoms like hair fall, acne, and facial hair growth. It averts the formation of new cysts and also prevents the remission of the disease.

- b) Flo Veda Capsule- Flo Veda capsule is a proprietary Ayurvedic formulation from Purely Yours that is primarily beneficial for treating menstrual problems including Dysmenorrhea, abdominal pain, and heavy menstrual flow. It has Lodhra, Ashoka, Lajjalu, and Kumari as the key ingredients. Most of the herbs in this capsule have Sheeta veerya[cold potency] and Sangrahi[absorbent] properties. The astringent property of the herbs acts as a hemostat (that stops bleeding). It strengthens the female reproductive organs, manages the menstrual cycle, and triggers ovulation thereby stimulating the ovaries to produce eggs that mature into follicles and also helps in the development of the corpus luteum. It improves fertility when an individual is trying to conceive. Its anti-androgen action reduces testosterone levels and manages PCOS.
- c) Femme balance Capsule- Femme balance capsule is a proprietary Ayurvedic formulation from Purely Yours that is used to treat Shweta pradara or white discharge. It has Lodhra, Dhataki, Rasanjana, and Vanga Bhasma as the key ingredients. It targets both bacterial and fungal infections, along with restoring vaginal pH and providing relief from itching, odor, and burning sensation to maintain optimal vaginal health. It helps to control aggravated Kapha and reduce the symptoms of leucorrhea. helps in controlling vaginal infections that cause white discharge. Its cold potency helps to relieve a burning sensation. It also helps to heal rashes and prevent recurrence.
- d) Organic Ova Calm Herbal tea- Organic Ova Calm is a proprietary Ayurvedic formulation from Purely Yours that addresses most gynecological disorders. It provides instant relief in conditions like dysmenorrhoea. Properties of Deepana and Pachana of the herbs elevate the Jatharagni, Dhatvagni as well as Arthavagni. It has the ingredients of Kanchanara, Shatapushpa, Gokshura, Jeeraka, Vrikshamla, Shatavari, and Ajamoda. Shatavari is rich in phytoestrogen that regulates the menstrual cycle by regulating testosterone levels. It nourishes and rejuvenates ovarian function. Kanchanara reduces the size of the cyst and arrests its further growth. Shatapushpa, Ajamoda, and Jeeraka due to their Deepana-Pachana properties induce the menstrual cycle and help in ovulation. Gokshura helps to fight glucose intolerance and helps to improve libido. Vrikshamla helps in managing obesity and boosts metabolism.
- e) Kanchanara guggulu- Kanchanara Guggulu is a time-honored and classical polyherbal remedy employed in the management of conditions like tumors, cystic swellings, PCOS, and ulcers. Its action involves diminishing swellings and masses by addressing the excess Kapha and bodily fluids, effectively promoting their reduction. It helps to destroy cysts on ovaries and stimulate follicular maturity. This remedy is highly proficient in harmonizing Kapha dosha. The guggulu's bitter, astringent, and pungent flavors contribute to the burning of abdominal fat and fat from various body regions, while also improving the digestive process. Moreover, this Ayurvedic medication enhances metabolism, facilitating weight loss efforts.
- f) Avipattikara Churna- Avipattikara Churna is an Ayurvedic medicine used for treating conditions that affect the normal functioning of the digestive and excretory systems. It helps to relieve symptoms of Amla pitta like Sour belching, pain in the epigastric region, and nausea. Its Vatanulomana action helps in managing dysmenorrhoea. Administering it daily acts as nitya virechana and helps in expelling doshas associated with PCOS.



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6. Conclusion

The results obtained from this case study suggest that Ayurvedic treatment effectively contributes to the management of PCOS. Nevertheless, further research involving a larger number of patients is necessary to enhance the assessment and validation of these findings.

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- 8. Abbreviation- Not applicable
- 9. Source of support- None

10. Conflict of interest

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