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ARIPET.	ANC	ADI CHURNA IN MANAGEMENT OF VULATORY FACTOR OF INFERTILITY RANATMAK APANA VATA DUSHTI): A CASE ORT	KEY WORDS:
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Anovulation or inability to produce a fertile ovum is an important reason among woman facing infertility and still it is a growing problem due to changing life style faulty food habits environment, stress provoking jobs. In such patients ovulation induction is a rescuer. But all these modalities of modern medicine are associated with many complications. A female patient visited our O.P.D on 12-09-2019 with complaining of unable to conceive. On further examination reveals anovulation associated with Avaranatmak and Sanga type Srotodushti. The subject was planned to give mridu shodhana and shaman Chikitsa with Baladi Churna (Bala, sita, Atibala, Madhuka, Vatashung, Nagkesar), A formulation mentioned in Bhavprakash in Vandhya Chikitsa Prkaran. After administration of Baladi Churna for 3months with consecutive ovulation for three months patient conceived on February 2020.

## INTRODUCTION

ABSTRACT

Fertility or Fecundity is the probability of achieving a live birth in one menstrual cycle1.Infertility is defined as a failure to conceive within one or more years of regular unprotected coitus2.According to FIGO manual causes of female infertility are: Tubal and Peritoneal factors(25-35%),Ovulatory factors (30-40%) and Endometriosis (1-10%).In which Ovulatory factor encompass;Anovulation or Oligo-ovulation,Decreased ovarian reserve, Luteal phase defect, Luteinised unruptured follicle<sup>4</sup>.

Anovulation or inability to produce a fertile ovum is an important reason among woman facing infertility and still it is a growing problem due to changing life style faulty food habits, environment, stress provoking jobs. In such patients ovulation induction is a rescuer. Over the past few decades modern medical field developed modalities like Clomid therapy, Letrozole, Insulin sensitizing drugs, Ovarian drilling, hCG injections, Gonadotropin therapy But all these modalities are associated with many complications like Ovarian Hyperstimulation Syndrome (OHSS), Multiple Pregnancy etc. Considering all these drawbacks an appropriate management of anovulation is required.

In Ayurveda; proper functioning of four factors viz. Ritu, Kshetra, Ambu and Beeja is the prime requisites for Garbha(conception)5. Beeja most essential part among the four has been considered as antahpushp,i.e.ovum.so anovulation can be included under Beejadosha. Anovulation is quoted as the result of vitiation of doshas in reproductive system of a woman suffering from menstrual disorders . Vata dosha is controller of any type of movement in the body and regeneration and growth are facilitated by Kapha6. Lower part of the body is seat of vata7. When vata is vitiated by its aggravating factors or vitiated due to the occlusion or obstruction by kapha it cannot govern its normal functions, and anovulation state persists.

Among the three Doshas, Vata plays a major role in physiology and pathology of reproductive tract, As described in Bhavprakash in the treatment of Vandhyatva women who takes Baladi Churna gives birth to a good progeny without doubt 8. It was planned to evaluate the role of Baladi Churna in Anovulatory factor of infertility and conception.

## AIMS AND OBJECTIVES

To see the Efficacy of Baladi Churna9 (mentioned by Bhavprakash in the context of Vandhyatva) on Anovulatory Factor arises due to Avaranatmak Apana Vata Dushti.

CASE REPORT: A 28 years old married , nulliparous female patient having 5 years married life reported to infertility O.P.D. on date 12-09-2019, complaining of irregular menstrual cycle since 4 years and unable to conceive since 3 years .Patient had menarche at 15 years of age At present her last menstrual period was 6-09-2019.While cohabiting with her husband with adequate coital frequency she was unable to conceive .She has history of allopathy treatment for irregular menses and infertility for 2 years.

Hematological reports, Hormonal assay, HSG reports were normal but Follicular Study shows Anovulation.

**FAMILY HISTORY:** No history of same illness in any of the family members.

MENSTRUAL HISTORY: Menarche at-15years of age Menstrual Cycle-2-3/45-60 days No. of Pads -2-3 pads in first 2 days LMP-6-09-2019

O/H-Nulliparous

### **GENERAL EXAMINATION**

BUILT-Medium built NOURISHMENT-moderate PULSE-86 beats/min,Regular BP-120/70 mmHg TEMPERATURE-Afebrile RESPIRATORY RATE-18/min HEIGHT-5feet 2 inch WEIGHT-55 kg TONGUE-Coated PALLOR/ICTERUS/CYANOSIS/clubbing/oedema/lymphade nopathy-Absent

#### SYSTEMIC EXAMINATION:

CVS-S1,S2 normal,No murmur CNS-Well oriented, Conscious RS-B/L Chest clear, no added sound P/A-Soft,Non-tender ASHTAVIDHA PAREEKSHA: Nadi-Pittaja, sama Mala- Constipated Mutra-Normal Jihva-Amayukta, pale Shabda-Normal Sparsha-Samsheetoshna Drika- Avil - netrata Akriti -Heena

## DASHAVIDHA PAREEKSHA:

Prakriti-Vata-Pittaja Vikriti- Prakriti Sam Samveta Bala-Madhyam Sara-Avara

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Samhanana-Avara Satmya-Madhyam Satva-Pravara Pramana-Madhyam Ahara Shakti-Madhyam Jarana Shakti-Avar Vyayaama shakti-Madhyam Vaya-Madhyam

Srotas Pariksha: Rasavaha Srotodushti Lakshana as Mandagni, Gaurav, Tandra was present in patient with Shukravaha Srotodushti Lakshana as decrease in libido and Artavavaha srotas Dushti As Avrita vata.

On Per-speculum examination discharges was nil, cervix was healthy and nulliparous .On Per-Vaginal examination Uterus size is small, anteverted anteflexed ,all fornix clear.

## **INVESTIGATIONS:**

HSA- TSC-80 million/ml, with 70% motility, and 70% normal forms, pus cells was nill CBC with ESR: Hb-10gm%, ESR-20 Blood Group-B positive TFT-T3-1.07ng/ml,T4-9.66mcg/dl,TSH-2.45mIU/ml HIV-Non-Reactive HBsAG-Non-Reactive VDRL-Non-Reactive LFT-WNL KFT-WNL Urine routine-WNL USG-Normal study

 $\ensuremath{\mathsf{HSG-B/L}}$  patent tubes with free peritoneal spillage of dye, Uterine contour normal.

Follicular study- Unruptured follicle of 38.5 cm diameter on 19th day from left ovary with ET of 6 mm

HormonalAssay-Sr.FSH-5.8mIU/ml,Sr.LH

-11.59mIU/ml,Sr.Prolacti13.42ng/ml,Sr.Estradiol-52pg/ml.

#### TREATMENT

Step 1-Deepan and Pachana with Agnitundi Vati for 7-8 days Step 2- Eranda Taila 30ml with Luke warm water at night for Koshtha Shodhana for 7-8 days.

Step 3- Baladi Churna (Bala, Sita, Atibala, Madhuka, Vatashung, Nagkeshar) 3gm BD with Honey and Ghrita with Anupana of Milk, at Empty Stomach Twice a day after stoppage of menses for 3 months.

Date of intervention	Therapy	Drug
20-09-2019 to 28- 09-2019	Deepan and Pachana	Agnitundi Vati
29-09-2019 to 6-	Koshtha	Eranda taila 30ml with
10-2019	shodhana	Luke warm water at night
10-10-2019 to 25-	Oral drug	Baladi Churna
10-2019		(Bala,sita,Atibala,madhuk
8-11-2019 to 25-		,Vatashung,Nagkesar)
11-2019		3gm BD with honey and
10-12-2019 to 28-		Ghrita with Anupana of
12-2019		Milk at empty stomach
		after stoppage of menses
		for 3 months.

## DISCUSSION:

## **Discussion on Drug**

Baladi Churna has five plant origin ingredients as Bala,Atibala,Madhuka,Vatashunga and Nagkesar. Bala and Atibala have madhura rasa with guru ,Snigdha guna,sheeta veerya perform action of Vata pitta shaman and work as Balya , Vrishya, Oja vardhak. Madhuka have Madhura Rasa, Guru, Snigdha guna, Shita veerya, Madhur vipak and Vatapitta shamak by these properties it acts as Brinhana , Shukrala Nagkesar have Madhura,Kashaya rasa,Ruksha, laghu in guna,sheeta veerya, Kapha Pittanashaka act as Stambhan. Flower extract of M. ferrea has also been shown to possess estrogen and progesterone-like effects which were proposed to be helpful in the correction of hormonal imbalance during menstrual disorders Vatashunga have Kashaya Rasa, Guru, Ruksha in guna,sheeta virya,Katu Vipak and acts as Kapha pitta jita.

#### Analytical Study of Baladi Churna 1. Organoleptic Parameters of Baladi Churna

Properties	Baladi Churna
Colour	Whitish brown
Odour	Fruity
Appearance	Fine powder
Clarity	

## Results of the drug analysis of on Physico-Chemical parameters of Baladi Churna

SR.NO	TEST	RESULT
1	LOSS ON DRYING	5.83%
2	ASH VALUE	9.83%w/w
3	WATER SOLUBLE EXTRACT 38.73%	
4	METHANOL SOLUBLE	22.66% w/w
	ACID INSOLUBLE ASH	2.52%w/w
5	PARTICLE SIZE	355 micrometer
6	pH	5.25

#### **Discussion on action of Drug**

Tridoshas have an impact over all the process involved in ovulation. Vata stands for proliferation and division of cells (granulosa and theca cells), rupture of the follicle etc. Pitta is associated with its conversion power, like conversion of androgens to estrogen in Graffian follicle, maturity of follicle by its function of Paka Karma. Kapha stands as a building and nutritive factor. It binds all the cells together and gives nutrition for growth and development of the cells. Among the three Doshas, Vata plays a major role in physiology and pathology of reproductive tract.Vata can cause agnimandya because one karma of vayu is(समीरणोअन्ते:)Later on this agnimandya will lead to Dhatvagni mandya which lead to Ama formation, i.e. apakva rasadhatu.

So, it is clear that due to dhatvagnimandya, there will be formation of ama that will lead to Avrodhatmaka dushti, Sanga and Khavaigunya in Artavavaha srotasa.Due to improper rasadhatu, adequate nutrition will not be available for the formation of Artava.This will lead to poshanatmak dushti.Due to vatapitta prkopa, it leads to kshyatmak dushti and due to vatkapha prakopa, it leads to avaranatmaka dusht

These all ultimately leads to improper function of Beeja Granthi and produces "Viphala Artava" (Anovulation). As Acharya Charak mentioned the chikitsa sidhhant of Avrutta apaanVata as-

> अपानेनाव्रते सर्वं दीपनं ग्राही भेषजं | वातानूलोमनं यच्च पक्वाशय विशोधनम् | | 10

So for this type of conditions we need drug which have following properties-

- The drugs by which the obstruction (Sanga / Srotodushti) is removed
- Drugs increase the Dhatu and keep in normal balance.
- The drugs act as controller of Vayu by which Vata performs its function normally.

In Baladi Churna all ingredients are Balya, brinhan, shukral,vrishya.Bala is mentioned as best for vataja disorders-

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बला संग्राहिकम् बल्यं वातहराणाम् | (अग्र्य प्रकरण ) 11

#### **RESULT:**

Primary Outcome: Ovulation Secondary Outcome: Conception

Objective Parameters: Trans Vaginal Sonography was used to see the study outcome.

Objective parameters of Treatment Outcome

Date	Investigation	Outcome
20-09-	TVS for Follicular	Unruptured follicle of 38.5 cm
2019	Study	diameter on 19th day from
	(Before Treatment)	left ovary with ET of 6 mm
14-10-	TVS for follicular	Ovulation occurs from left
2019	Study	ovary at 14th day with follicle
		size of 18 cm, with ET-9.7mm
12-12-	TVS for Follicular	<b>Ovulation occurs from Right</b>
2019	Study	Ovary at 21st day of follicle
		size 21cm, ET-10.6 mm
11-02-	USG early	An Intrauterine gestational
2020	pregnancy	sac (6weeks 2 days) with
		good decidual reaction, FHR-
		124bpm, yolk sac seen

#### **Before treatment**

TVS for follicular Study shows Unruptured follicle of 38.5 cm diameter on 19th day from left ovary with ET of 6 mm

#### **DuringTreatment**

After 1 month of course:

TVS shows Ovulation from Left Ovary at 14th day with follicle size of 18 cm and Endometrial Thickness was 9.7mm

#### After 3 months of course

TVS showed Ovulation from Right ovary at 21st day with Follicle Size of 21cm and Endometrial thickness was 10.6mm

## After 5 months of Course

USG Reports Showed An Intrauterine gestational sac (6weeks 2 days) with good decidual reaction, FHR-124 bpm, yolk sac seen

## **REPORTS OF THE PATIENT**

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FIGURE 1:TVS (follicular Study) report before treatment.



# FIGURE 2: Follicular study after 1 month of oral drug administration



FIGURE 3:Follicular Study after 2 months of oral drug administration

Name ( - Ann	Ageface- 24 RevF
Ref Re: - All 4	But > 11.82.2629
LMP, University	
99.00mm	
An introuterine Gratational sc	ac is seen with good decidual reaction.
+ CRL:- 0.54 cm 06 who 0	2 days =1-3 day
<ul> <li>Yok sac seen .</li> <li>Fatal heart activity seen. Feb</li> </ul>	t- 124 8PM
+ EDD > 04.10.2020	
<ul> <li>Cervical length is normal.</li> </ul>	
· Both the adhesia are normal	
Bladder is adequately dis- pathology	unded and dots not show any intraluminal
No free fluid in POD	
IMPRESSION: An inits after	ine sinhle programsy of GA- 06 who 02 days 41-3
den	
And a state of the set of the line of the	one graphy: Beage sciences; J. He and expect declary deal
	nge scanning ut lift filmte atsonichte ogs geher Jose is orgiteid, os oop manner
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And a	M.B.S., M. (anadomi Pethologia

## FIGURE 4: USG Early Pregnancy (After 3 months of oral drug administration)

#### CONCLUSION:

The Case report demonstrate successful management of a case of Infertility associated with Anovulation by oral Administration of Baladi churna contains 6 ingredients which are having brinhan, balya and vrashya properties . This case successfully explain the modern concept that LH only acts on FSH primed follicle which indicates The follicle which have proper anatomical and functional growth in the follicular phase only than it can ovulate properly by the action of LH.

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