

Efficacy of Ayurvedic formulation on *Raktapradara* W.S.R. dysfunctional uterine bleeding: A case report

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ABSTRACT

Dysfunctional uterine bleeding is one of gynecological disorders the reproductive age group. Heavy bleeding interferes with the physical, emotional, social life of the concerned woman. According to Ayurveda it can be correlated with Raktapradara. This case study was done to evaluate the efficacy of the drugs which are used for treating DUB. The treatment was done for the duration of six months. The response to treatment was recorded therapeutic effects were evaluated with the help of symptomatic relief and ultrasonography. The results revealed that DUB can be cured with Ayurvedic regimen and can avoid hysterectomy or other surgical intervention.

Key words: Dysfunctional uterine bleeding (DUB), Raktapradara, Ayurvedic Regimen.

INTRODUCTION

Abnormal uterine bleeding is a condition that affects approximately 30% women during their reproductive years¹.One national study shows that menstrual disorders were the reason for 19.1% of 20.1 million visits physicians office for gynecologic conditions over a two period². Furthermore, a reported 25 % of gynecologic surgeries involve abnormal uterine bleeding³.

It is a considerable health care burden for a woman and has a definite effect on her quality of life.DUB has various definitions and classifications. It is define as a state of abnormal uterine bleeding without clinically any detectable organic, systemic, and iatrogenic cause (pelvic pathology e.g. tumor, inflammation or pregnancy is excluded). Currently many authors define DUB as a state of abnormal uterine bleeding following an ovulation due to dysfunction of hypothalamus pituitary axis⁴.Ovulatory ovarian **DUB**



predominantly associated with decreased endometrial vasoconstriction and vascular haemostatic plug formation. Anovulatory DUB is very poorly understood, but may be associated with disturb angiogenesis, fragile vessels and defective haemostatic process⁵.

The current concept related to abnormal uterine bleeding is most likely due to the local cause in the endometrium. There is some disturbance in the endometrial vessels and capillaries coagulation factor of blood in and around these vessels. These are probably related to alteration in the ratio of prostaglandins which are delicately balanced haemostasis of menstruation. It is more prevalent in extremes of reproductive period, adolescence and premenopause or following childbirth. Some iatrogenic like induction of bleeding by medications, including anticoagulants, selective serotonin reuptake, corticosteroids, hormones. tamoxifen causes abnormal bleeding .Some herbal substance including ginseng, ginko and soy supplements may cause menstrual irregularities by altering estrogen levels parameters⁶ clotting .Emotional influences, worries, anxiety or sexual problems are enough to disturb the normal hormonal balance. Hormonal abnormalities that thyroid dysfunctions, elevated prolactin, obesity, excessive weight loss, liver disorders are other causative factors of DUB.

In Ayurvedic classics it described as *Asrigdara* which comes under the heading of *artavavyapada*. Mahrshi Charaka has written one gynecological disorder i.e.yonivyapada named

raktayoni or asrija having same clinical features.Maharshi Charaka Asrigdara as a symptom i.e. presence of bleeding excessive menstruation⁷. Maharshi Sushruta defines it as that when menstruation occurs in excess amount, for prolonged period, and or even without normal period menstruation i.e. during menstruation excessive in amount and for prolonged period but in intermensuaal period even scanty and for short duration⁸. It is said to be one of the disorder of rakta dhatu i.e. blood ⁹,symptom of *pittavrut apana* vayu¹⁰, complication yonirogas¹¹.Charaka describes its pathophysiology. He says that aggravated *Vata* affects uterine vessels and boosts amount of blood and this increase in blood thus causes increase in menstrual blood and creates raktapradara¹². Modern science also accepts that because of the faulty life style estrogen disturbance occurs, which causes increase in vasodilatation and blood supply in endometrium.

Severe bleeding affects on woman's happiness and causes great discomfort. In modern science it is treated with hormones, antiprostaglandins, NSAIDs, antifibrinolytic synthetic agents; analogue of arginine etc.which causes several side effects. If oral therapy fails then surgical intervention is the option. To overcome this problem herbal drugs can be used.

AIMS

To establish the efficacy of the ayurvedic regimen on DUB.



OBJECTIVES

- 1. To evaluate the therapeutic efficacy of the drugs
- 2. To study the recurrence rate

MATERIAL AND METHODS

Ayurvedic literature related to abnormal uterine bleeding i.e. Artavavyapada. Raktapradara, Yonivyapada was searched. **Books** related to pharmacology of Ayurvedic drugs which are used in formulation and related research papers also searched for their mode of action. Other research books related iournals. papers. abnormal uterine bleeding are also explored to collect the matter.

Case history

This study was done at government Ayurved Autonomous College, Jabalpur.M.P. A 40 years old female came to OPD on date 3-5-2013 (OPD No.5574) with complaint of excessive, on and off vaginal bleeding with clots and dysmenorrhoea since one month. She was under allopathic treatment since two years for the same complaint. But due to recurrence she requested for Ayurvedic treatment. She had associated symptoms like pain in abdomen, backache, loss of appetite, constipation, migraine anxiety.

Thorough history was taken. She had no history of medical illness or known allergies. There was no family history of coagulopathic disorders or breast cancer. Her menstrual history included excessive per vaginal bleeding on and off since one

month and was suffering from such episodes of bleeding since two years.

Amount of bleeding-4-5 pads/day which were fully soaked.

Consistency-watery with clots++.

Colour-Raktavarna (bright red, sometimes blackish).

Mild dysmenorrhoea was present.

Obstetric history includes $G_3P_2A_1$, both deliveries were full term and spontaneous with no complaints and obstetric complications, one spontaneous abortion of 2 months gestation after first baby.

examination Her physical revealed normal vitals, nadi was Vatapradhana, and pallor was present. All physical examination findings were remarkable. Result of PAP smear was normal. Before planning the treatment ultrasonography was done which shows bulky uterus with normal ovaries, and no adenexal mass. Endometrial thickness was mm. Thyroid profile was normal. Blood reports showed Hb 8 gm %, BT CT normal, Urine analysis shows pus cells 2-3/hpf, weight was 53 kg.

Management

In active phase of bleeding she was treated with

1. Combination of,

Nagkeshra churna: 2 gms

Lodhra churna: 2 gms

Bolbaddha rasa: 250 mg



Prawal pishti: 250 mg

Given 3 times a day before meals with water.

- 2. *Chandraprabha* vati 1 tablet 3 times a day with water after meals
- 3. Panchatiktaghrita guggula ,2 guggula 2 times a day with lukewarm water after meals.
- 4. Darvyadi Qwath 20 ml 2 times a day with same amount of lukewarm water after meals.

She was advised to take plenty of oral liquids, light diet, and to avoid spicy, food. The same treatment was continued.

In passive phase of bleeding,

Lohasava 20 ml 2 times a day with equal amount of lukewarm water for 3 months

Chitrakadi vati 1 tablet 3 times a day with water before meals for 7 day for aamapachana

Triphala churna 5 gm at night with lukewarm water for 7 days

She was asked for regular follow-up, first after 7 days and thereafter 15 days interval. Duration of treatment was 6 months.

OBSERVATIONS

During this period menstrual cycle of the patient becomes regular with duration of 3-4/28 days with average amount of bleeding. Ultrasonography reports showed no evidence of endometrial hyperplasia. Endometrial thickness was 7 mm. Hb% improves, it was 11.2 %, with

good sense of living. The patient is on follow-up without any medicine on normal cyclic rhythm till date. There is no evidence of recurrence of dysfunctional uterine bleeding.

DISCUSSION

Shuddha artava is one of the most important factor for the healthy progeny. Dysfunctional uterine bleeding can be correlate with Asrigdara.DUB is very severe and life threatening condition requires which hospitalization sometimes. In classics as the disease is characterized by excessive flow of blood out of the body and rakta is known to be vital substance hence (jiva),raktasthapana chikitsa becomes Charaka important. explained treatment of raktayoni. He said it to be treated as the treatment like raktatisara, raktapitta, raktarsha¹³.So according to line of treatment raktasthapana, dosha pachana, and deepana-pachana chikitsa should be done by using tikta, kashaya rasa pradhana dravya. Hence such drugs are selected which can workout at the different level of samprapti.

Nagkeshara-It is ruksha,laghu in guna, kashaya rasa, katu vipaka ,sheeta veerya.It is vedanasthapana, shonitsthapana ,kaphaghna, mastishkabalya,having deepana pachana activity..Due to these said properties it helps to relieve the pain, stops the bleeding, it may act on H-P-O axis as it is a brain tonic and helps to improve its deepana-pachana appetite by property. It cures hemorrhage 14. It is coagulant causes excellent vasoconstriction of capillaries thus



stopping bleeding and reducing swelling. It is useful in inflammation of uterus and menorrhagia¹⁵ Mesuol reduces two phytoconstituent measuone Nagakeshara shows antibiotic activity. Mesuol is more active than measuone against mycobacterium phlei¹⁶,it means it may protect against genital tract infection which is more susceptible for infections during menstruation as the vaginal pH changes. Ethanolic extracts of whole plant showed antibacterial activity. It is antifungal, lowers blood hypertensive pressure in patients, antispasmodic, anti-inflammatory.

Lodhra- It is ruksha, laghu in guna, kashaya rasa, katu vipaka; sheeta veerya.It pacifies kapha and pitta. Being a vasoconstrictor it is used in bleeding disorder and inflammation. It reduces meda and rakta (hemostat- bleeding disorder)¹⁷. It is good hepatoprotective, anti-inflammatory, analgesic, immunomodulator having antimicrobial property. Compounds carbohydrates, sterls and flavonoids in the ethanolic extract of the plant may responsible for these activities¹⁸.It has antiandrogenic effect, helps to recover ovarian and uterine weight. It stimulates FSH levels along with rise in Sr. LH. Bark has antifibinolytic, haemostatic, stomachic and antioxidant ¹⁹ property.

Prawal Pishti-It is laghu, ruksha, sweet, slightly sour, madhur vipak, sheeta veerya, tridoshaghna.It contains calcium carbonate 83%,magnesium carbonate3.5% Iron 4.5%, organic compound8%²⁰.It is a rich source of calcium. Recent studies have shown that calcium has a positive role in treating

menstrual cramps effectively ²¹.Withdrawl of estrogen cause significant loss of bone calcium^{22,} so it helps to prevent osteoporosis. It can reduce the pain as well as fluid retention which is seen in PMS. It helps for the function of blood clotting. Prawal pishti reduces hyperacidity. It has deepanapachana property and is beneficial for bleeding disorders, calcium deficiency, and general debility. It has antiinflammatory action and used in uterine bleeding, dysmenorrhoea specifically membranous type, breast tenderness.²³It exhibits cytotoxic activity against breast adenocarcinoma.²⁴.It prevents osteoporosis²⁵.

Bolbaddha rasa-It is a herbomineral drug having ingredient like kajjali, due to which it possesses *Rasayna property* and act as *yogwahi* potentiating the effect of bhawna dravya (shalmali pushpa). The other ingredients which are used in the formulation acts by their rasa, guna, vipaka and veerya,tridosha shamaka action ,they acts fully uprooting the disease.²⁶.It is haemostatic, used in menorrhagia, dysfunctional uterine bleeding²⁷.

Chandraprabha vati-It is useful in the menstrual disorders of female. It helps to cure pradara, rejuvenates the body, increases bala, appetite and ojas²⁸. It has anti-inflammatory effect, haematinic, heamatogenic (helps in formation of RBCs), analgesic and muscle relaxent²⁹.

Panchatiktaghrita guggula-It improves digestion, purify the blood. The drugs used in this preparation are also has tikta, katu, kashaya rasa property



.Guggula contains essential oils, it is ushna, snigdha, and picchila, pittaghna by kashaya and madhura rasa, kaphaghna by katu,tikta ,tikshna guna. It is tridoshhara. It is analgesic, good appetizer, liver stimulant hence useful in liver disorder. It increases hemoglobin and leukocyte count and enhances blood quality. It helps in edema, glandular enlargement, dysmenorrhoea, leucorrhoea and other gynecological disorders. It rejuvenates the body tissues and increases strength. It is good rasayna³⁰

Owath-It Darvyadi cures pradara³¹.Kashaya rasa plays important role to relieve the bleeding due to its stambhana action

In nut shell the drugs used in formulation are rakta shodhaka, raktasthapaka having garbhashaya shothhara property.

CONCLUSION

The above treatment protocol was found to be effective in dysfunctional uterine bleeding. There is no recurrence of such type of bleeding episodes till date. This single case study shows encouraging result in dysfunctional uterine bleeding and need of further study for its scientific validation.

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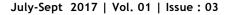
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