



## Case Report

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# Effect of a Unani Formulation in Unexplained Primary Infertility - A Case Report

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### Abstract

**Background:** Unexplained infertility is a frustrating diagnosis both for the patient and the clinician, with a prevalence of 16%-37%. It commonly refers to a 'diagnosis' made when tubal, ovulatory and husband factors are ruled out. A couple is usually referred for evaluation after 1 year of unsuccessful trials of conception with unprotected intercourse in the fertile phase of the menstrual cycle. Unani formulation comprises of baikh asgand (*Withania somnifera* Dunal), baikh piyabansa (*Barleria prionitis* Linn), gule dhawa (*Anogeissus latifolia*) and gule nilofar (*Nymphaea alba* Linn) were used for the treatment of uqr, possessing the properties of muqawwi rahim, moaene hamal, moallide mani, etc.

**Case presentation:** A married couple (22 years female partner & 26 years male partner) presented to NIUM Hospital OPD, with chief complaint of failure to conceive since 5 years. The couple report a high degree of stress related to their lack of success. Investigations were carried to check for tubal patency, ovulatory function and semen analysis. Diagnosis of unexplained infertility was made after thorough evaluation of the case. The powder of above mentioned formulation was given 6g twice a day orally with milk from 5th day of cycle for 5 days. Patient got conceived after taking treatment for two consecutive cycles.

**Discussion:** Here we report evidence based management with Unani medicine to help combat the significant physical, psychosocial and economic toll on couples.

**Keywords:** Unexplained infertility; Primary infertility; Uqr; Muqawwi rahim; Moaene hamal; Moallide mani; Unani medicine

### Introduction

Infertility is usually described as 1 year of unwanted non-conception with unprotected intercourse in the fertile phase of the menstrual cycle [1]. Upto 30% of couple who are unable to conceive are determined to have unexplained infertility & this diagnosis is made only after the basic infertility evaluation fails to reveal an obvious abnormality [2]. A couple is usually referred for evaluation after unsuccessful trials of conception for a period of 1 year [1,3]. The basic evaluation should provide evidence of ovulation, patency of fallopian tubes & adequate sperm production. Couples with unexplained infertility suffered from both diminished & delayed fecundity [1,2]. Some couples suffer from unexplained infertility either due to undetected, subtle defects of reproductive process or by chance alone, couples have low fecundity. Question of low fecundity must be raised after six cycles of unprotected intercourse without conception regardless of age. Decision of treatment depends on prognostic factors such as duration of infertility and age of female partner; shorter duration

of infertility (<2 years) and female age <30 years are related to higher cumulative pregnancy rates. Each additional month of infertility beyond the average reduces the chance of pregnancy by 2% or about 25% per year [1].

In classical Unani text, uqr (infertility) is defined as when conception fails to occur or when there is a difficulty in conception either due to the defect in male or female partner. Concept of idiopathic infertility [4] is also mentioned in classical literature. Various formulations have been mentioned for the treatment of uqr, possessing the properties of muqawwi rahim, moaene hamal and moallide mani which are to be used from the 5th day of menstrual cycle [5,6] (corresponds to ovulation inducing drugs), as conception is most likely to take place after menstruation. Such types of drugs are known to contain phytoestrogens and may induce ovulation by maintaining hormonal balance. We report a case of unexplained primary infertility in which the effect of Unani formulation was explored. The study is aimed to exhib-

it the implication and usefulness of Unani medicine synergistic effect to obtain optimal patient outcome in case of unexplained primary infertility.

**Case Presentation**

A married couple (22 years female partner & 26 years male partner) presented to OPD of NIUM Hospital with the complaint of a possible fertility issue. The couple has been married for 5 years and since then has been trying to conceive and report a high degree of stress related to their lack of success. Patient had regular menstrual cycle of 28-30 days with 4-5 days' duration of flow of moderate amount. The couple had never sought any treatment for the same. She had moderate built with no significant medical or surgical history. There was no history of consanguineous marriage and family infertility on either side of partners. The patient was a housewife, belongs to low socio economic group and had no history of STDs, smoking, alcohol or other drug. The patient's partner also reported good health and no problems with erection, ejaculation or pain during intercourse. He had no prior urogenital infections or exposure to STDs & no significant medical or surgical history. He works as a garment factory worker and had no habits of smoking, alcoholism, drug abuse or self-medications. The couple had vaginal intercourse 3-4 times per week.

On examination, her vitals were stable, breast revealed no tenderness or palpable lump, bilateral chest was clear, normal vesicular breathing sound & S1 & S2 were audible with no murmur and per abdomen was soft and nontender. Per vaginal examination revealed anteverted, normal sized, mobile and firm uterus with no fornicial tenderness. Investigation recommended were semen analysis for male partner and CBC, ABO Rh typing, CUE, FBS, AMH, D2 S. FSH, S. LH, PRL, TSH levels & TVS for antral follicle count and HSG on D9 of cycle for female partner. Husband semen analysis was normal with 104 million sperm count, normal morphology and good motility, while female partner had B positive blood group, Hb% 12.5gm/dl, FBS 88mg/dl, AMH 2ng/ml & her hormonal profile was FSH 7.8IU/L, LH 2.45IU/L, PRL 15ng/ml, TSH 2.3mU/L on D2 of cycle. HSG showed normal uter-

ine cavity and fallopian tube with bilateral spillage in peritoneal cavity. TVS on D2 of cycle showed good antral follicle count without any pelvic pathology.

**Intervention**

Unani formulation comprises of baikh asgand (Withania somnifera Dunal), baikh piyabansa (Barleria prionitis Linn), gule dhawa (Anogeissus latifolia) and gule nilofar (Nymphaea alba Linn) 4 were taken in a dose of 50g each and grinded to make fine powder. Patient was advised to take 6g powder twice daily orally with milk for 5 days started from 5th day of menstrual cycle for 2 consecutive cycles. Patient was instructed to have timed intercourse.

**Follow Up & End Result**

Patient took the Unani medicine for two consecutive cycles. No response was observed in first cycle, and then she was counselled and advised to continue the same in the next cycle. After receiving Unani medicine in second cycle, she had missed her period & urine for pregnancy test was positive. This pregnant woman had regular ANC till 9 months at NIUM Hospital & successfully delivered a male baby of 3kg weight at Govt. Hospital and her pregnancy & puerperal period was uneventful.

**Discussion**

A couple is usually referred for evaluation after unsuccessful trials of conception for a period of 1 year.<sup>2,3</sup> The Practice Committee bulletin on unexplained infertility mentioned that the basic evaluation should provide evidence of ovulation, adequate sperm production and fallopian tube patency, all of these were evaluated in this case [2]. Decision of treatment depends on prognostic factors such as duration of infertility and age of female partner, shorter duration of infertility (<2 years) and female age <30 years are related to higher cumulative pregnancy rates. Each additional month of infertility beyond the average reduces the chance of pregnancy by 2% or about 25% per year [1]. In this case, though the patient's age was 22 years but she fails to conceive even after 5 years of unprotected intercourse, which indicates the need for the treatment.

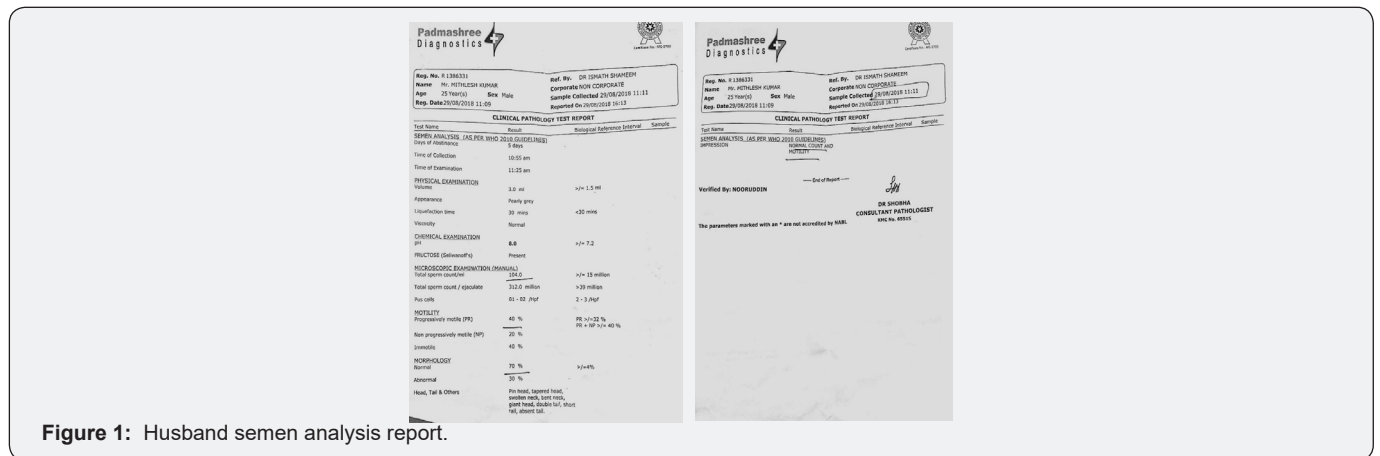


Figure 1: Husband semen analysis report.



Figure 2: Hysterosalpingography.

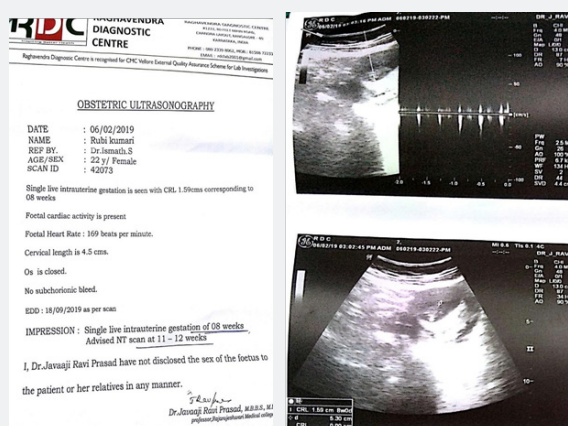


Figure 3: Dating ultrasonography.

Baikh asgand (*Withania somnifera* Dunal), baikh piyabansa (*Barleria prionitis* Linn), gule dhawa (*Anogeissus latifolia*) and gule nilofar (*Nymphaea alba* Linn) are muqawwi rahim, moaene hamal and increases the madda manwia; hence useful in uqr as it induces the ovulation [4,7]. Asgand contains alkaloids and steroidal lactones are the main constituents, gul dhawa consist of (saponins, tannin quercetin, phenolic compounds), gule nilofar is rich in alkaloids, whereas piyabansa contain anthraquinone pigmented, barleriaquinone, all are responsible for phytoandrogen-oogenic, antistress and insulin sensitising activities [8-10]. For detection of ovulation, serial follicular monitoring is the gold standard method which was not done in this case as she was not affordable, but the confirmatory test is pregnancy which was positive in this case. Unani medicine helped the patient to conceive within two cycles of treatment, without any observable side effects. Further comparative studies, with serial follicular monitoring & mid luteal serum progesterone may be helpful to establish the effectiveness of Unani medicines in such cases (Figure 1-3).

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