## WORLD JOURNAL OF PHARMACEUTICAL RESEARCH

SJIF Impact Factor 8.453

Volume 13, Issue 9, 516-527.

**Review Article** 

ISSN 2277-7105

# A CONCEPTUAL STUDY OF PICHU KALPNA IN VARIOUS VAGINAL **INFECTIONS CORRELATION WITH AYURVEDA**

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Article Received on 08 March 2024.

Revised on 28 March 2024, Accepted on 18 April 2024

DOI: 10.20959/wjpr20249-32105



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#### **ABSTRACT**

Now a days, woman have suffering from many diseases, due to changing life style. Vaginal infections (yonivyapad) is one of the remarkable problems, vaginal infections are identified primarily in sexually active. women In India Bacterial vaginosis (BV) is the most prevalent infection (48.5%) followed by vulvo-vaginal candidiasis (VVC) (31%) and mixed infections (20.5%) Candida albicans was found to be the most prevalent species Out of non-albicans Candida (NAC) species, C. tropicalis was found to be the most prevalent species. Overall distribution of C. albicans and NAC species indicated marginally high prevalence of NAC species (53%) than C albicans (47%).<sup>[1]</sup> Specific screening measures like Pap smear and wet vaginal swab when employed appropriately revealed the cervical pathology. In Ayurveda, acharyas explained about *yoni vyapat* among twenty types of yoni vyapat-kaphaja yoni vyapat, pittaj yonivyapad, sannipataj yonivyapad, upapluta, vipluta(acharna), shushka, yoni vyapad can be

correlated with vaginal infections. There are some sthanika chikitsa (Local Therapies) in Ayurvedic Streeroga shastra described by Ancient acharya's that possess outstanding & satisfactory outcomes in the management of stree rog. Pichu Kalpana is one of them. Which is more useful as sthanik chikitsa in streeroga. Different Taila, Ghrita, Kalka are use for pichu kalpana. The reason behind for chosen the vaginal route because of the rugae of the vaginal epithelium create an involuted surface and results in a large surface area provide, this large surface area allows the trans-epithelial absorption of medications via the vaginal route & the posterior fornix have rich blood supply so actively absorption of drug.

**KEYWORDS:** Which is more useful as *sthanik chikitsa* in *streeroga*.

#### **\*** INTRODUCTION

Vaginal infections are the one of the commonest gynaecological complaint among the women in their active reproductive life. Due to the daily routine, women habituated to modern dietary habits leading to sedentary and stressful life style, this manifests in the female reproductive system with clinical features of unctuousness, itching, burning, curdy white discharge and dull pain in the vagina. BV and VVC involve disturbance in normal vaginal flora which is the main cause of both infections. As the candidiasis is the second commonest cause of vulvo vaginitis caused by excessive growth of Candida species which is normally present in small number and is harmless if left untreated the vaginal pH will get altered to lower acidic range or higher alkaline range and this leads to alteration and replacement of the columnar epithelium of ectocervix with that of squamous epithelium at squamocolumnar junction resulting in immature unstable cells (dysplastic) which may turn to metaplastic changes. [4]

The pH of vagina is varying during different phase of life and menstrual cycle and it is acidic that is 4.5 average. The causative organism of the media is Doderlein's bacilli. This, bacilli converting glycogen in lactic acid to maintain vaginal pH. The process of carcinogenesis starts from transformation zone this is a dynamic zone. The process of replacement of endocervical columnar epithelium by squamous epithelium involves two mechanism that is by squamous metaplasia of subcolumnar reverse cell and by squamous epidermidisation by in growth of squamous epithelium of ectocervix under the columnar epithelium. Risk factors for vaginal infection are hormonal changes such as associated with pregnancy, birth control pills or menopause. Apart from that increasing age leads to the oestrogen deficiency which is more favourable for the infectious agent. [5]

In Ayurveda, acharyas explained about yoni vyapat, among twenty types of yoni vyapat, kaphaja yoni vyapat, pittaj yonivyapad, sannipataj yonivyapad, upapluta, vipluta(acharna), shushka, yoni vyapad can be correlated with vaginal infections. In kaphaja yoni vyapat "kandugrasatamalpavedanam" is the itching sensation of vagina. In acharana(vipluta) yoni vyapat "yonyamadhavanat kandum jatah kurvanti jantavah" indicates the infection, in pittaj yonivyapad "bhrushoshnakunap-strava yoni" means vagina hot smells like a dead body

indicates infection, in upapluta yonivyapad ""pandum satodamasravam shwetam sravati va kapham" means painful white discharge shows the discharge per vagina, indicates vaginal infection. In shushka yoniyyapad "vayurdrushto vinmutrasangraham karoti yonishosham" indicates cause of vaginal infection.<sup>[6]</sup>

#### **♣ PICHU KALPANA**

Pichu kalpana means chikitsa done by pichu. Pichu kalpana firstly described by charaka in Atisaara chikitsa adhyaya. [7] pichu is made up of sterile medicated cotton swab covered with gauze piece tied with a long thread, it shapes like a pottali. pichu is immersed in medicated oil, ghrita or kalka before insertion in vaginal canal. Oils are preferred for tamponing due to its retention properties. The treatment name is derived from Sanskrit word yoni meaning genital tract. Treatment involves procedure that cleanses the vaginal area using medicated oils.[8,9,10,11]

So, depending on site where it is used size of Pichu varies. For clinical trial pichu is made of sterile cotton swab and wrapped with gauze piece and tied with a long thread. Oils are the most preferred media because of its retention ability. [12]

#### Types of pichu

- 2 types
- 1. Elongated
- 2. Circular.
- 1) Elongated: it is 4 finger length & 1 finger breadth.

Site: elongated pichu placed in prathmavarta (vagina), pichu used for deep insertion inside the vagina.

2) Circular: 1 inch in length & breadth.

Site: Circular pichu placed in Dvitiyaavarta mukha (external os), is used for shallow insertion.

#### Position of patient during procedure

Dorsal lithotomy.

#### **Procedure**

1) Pichu should be autoclaved.

- 2) Patient should void urine before pichu insertion.
- 3) Patient should be in supine position with flexed knee.
- 4) Sterile pichu soaked in media like siddha taila should be inserted with index finger or swab holder into vagina in such a way that the thread of Pichu should come out of vagina. This facilitates easy removal of Pichu after 5-6 hrs.
- 5) Yoni pichu helps in improving musculature of vaginal canal
- 6) Pichu can act as wound healing or antibacterial depending.

### Mode of action<sup>[13]</sup>

- 1. Drugs used in pichu Kalpana generally are Vata Sahamaka, anti-inflammatory, nervine tonic.
- 2. Base oil of all the oils formations is Tila Tail; which penetrate the tissue and also helps in absorption of other drug and due to its Sukshma Vyavayi Guna and lipophilic property and nourish the pelvic tissue.
- 3. Pichu remains the medicine in vagina for longer period for better action; so it helps to normalize Apana Vata, heal wound and maintain healthy environment.

# VAGINAL INFECTIONS CORRELATION WITH AYURVEDA WITH PICHU KALPANA USED IN VARIOUS VAGINAL INFECTIONS

#### A. KAPHAJ YONIVYAPAD (Trichomonas Vaginitis)

- Lakshanas
- 🕨 श्लेष्मला पिटिछला योनिः कण्डूयुक्ताऽतिशीतला ॥( स्रू . उ ३८ / १७) 🖽
- कफोऽभिष्यध्निदिभः कुद्धः कुर्याद्योनिमवेदनाम् ।
   शीतली कण्डुलां पाण्डुपिटिछलो तद्विधस्रुतिम् ॥सा व्यापच्छलैष्मिकी॥(अ ह उ ३३ / ४४, ४५)<sup>[15]</sup>

Chief characteristic features of this condition are presence of itching in vagina and unctuous discharges, which are found in trichomonas vulvovaginitis. Charaka has mentioned dull pain while Vägbhaţa explained painless state. In very severe trichomonas infection, there may be mild pain due to inflammation, however, in majority of cases it is a painless disease, thus both the statements are correct. In this infection of vaginal canal is sometimes covered with strawberry-coloured patches as well as frothy, white or yellowish thick curdy foul-smelling discharges, these features may give yellowish appearance to the vaginal canal. Considering all clinical features in totality, the condition appears to be resembling with trichomonas vaginitis.<sup>[16,17]</sup>

#### • Pichu Kalpana

- श्यामादीनां कफातुरा ॥ (च॰ सं॰ चि॰ ३०/६२)<sup>[18]</sup>
- 🕨 'श्यामादीनां कफातुरा || (अ॰ सं॰ उ॰ ३९/४८)<sup>[19]</sup>

Local application of paste (kalka)/ tail of shyamadi gan siddha pichu used in kaphaj yonivyapad.

#### B. PITTAJ YONIVYAPAD (allergic vaginitis or acute inflammatory vaginitis)

#### • Lakshanas

- दाहपाकज्वरोष्णार्ता नीलपीत सितार्तवा ।
   भुशोष्णकृणप्रशावा योनिः स्यात्पित्तदृषिता ॥ १२ ॥ (च वि ३०)<sup>[20]</sup>
- अत्यर्थं पित्तला योनिर्दाहपाकज्वरान्विता। सु उ ३८ /१४<sup>[21]</sup>
- यथा स्वैर्दुषणैर्दष्टं पित्तम् योनिसमाश्रितम् । करोति दाहपाकोषा पूतिगन्धज्वरान्वितम् ॥ भृशोष्णकुणपनीलपीतासितार्तवाम् ॥ सा व्यापत् पैतिकी....... (अ ह उ ३३ / ४२, ४३-योनिमुपाश्रितम्-पाठ)<sup>[22]</sup>

Burning, fever, suppuration, soreness, Purulent vaginal discharge, dyspareunia are the clinical features of acute inflammatory condition. The hyperemia due to inflammation produce menstrual irregularity or meno-metrorrhagia, besides suppuration may give rise to foul smelling discharges. *Suśhruta* has not described menstrual irregularity, while *Charaka* has, this difference might have come due to individual variation, as acute infective disorders may or may not produce menstrual irregularity. Considering above facts, the *pittaja* gynecologic disorder resembles the description of acute allergic & inflammatory vaginitis. [16.17]

#### Pichu Kalpana

- पञ्चवल्कस्य पितार्ता ॥ (चिच ३० / ६२)<sup>[23]</sup>
- **प**ज्ववल्कस्य पितार्ती ॥ (अ० सं० उ० ३९/४८)<sup>[24]</sup>

Local application of paste (kalka)/ tail of panchvalkal gan siddha pichu used in kaphaj yonivyapad.

#### C. SANNIPATAJ YONIVYAPAD (bacterial vaginosis)

- Lakshanas
- 🕨 योनिगर्भाशयस्थाः स्वैयोंनि युञ्जन्ति लक्षणैः। सा भवेदाहशूलार्ता श्वेतपिच्छिलवाहिनी ॥ 🖽

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-(च चि ३० / १४, १५)
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- 🕨 सर्वतिङ्गसमुत्थाना सर्वदोषप्रकोपजा ॥ (सू॰ उ॰ ३८।१६)<sup>[26]</sup>
- त्रिभिदर्दोषयोनिगर्भाशयाथितः । यथास्वोपद्रवक रैद्रयापत् सा : सान्निपातिकी ॥<sup>27</sup>

Bacterial vaginosis having Fish like smell, creamy, sticky off white or grey coloured discharge per vagina, sometimes pelvic discomfort, dyspareunia, dysuria & No inflammation. Thus, fish like smell explained by acharya in pittaj yonivyapat, sticky discharge from kaphaj yonivyapad, dyspareunia, pain & dysuria due to vataj yonivyapad. Considering above facts, the *sannipataj* gynecologic disorder resembles the description of bacterial vaginosis. [16,17]

### • Pichu Kalpana

सिन्नपातसमुत्थायां । दशाङ्ग्री श्रीमदाक्वाथपिचुर्हितः ॥ (यो॰ २० योनिन्या॰ चि॰)

Local use of tampon of dashangi & shrimada is beneficial for sannipataj yonivyapad.

#### D. UPAPLUTA YONIVYAPAD (Candida vaginitis /moniliasis)

- Lakshanas
- गर्भिण्याः श्लेष्मलाभ्यासाच्छर्दिनिः श्वासिनग्रहात्। वायुः कुद्धः कफं योनिमुपनीय प्रदूषयेत्॥ पाण्डुं सतोदमास्त्रावं श्वेतं स्रवित वा कफम्। कफवातामयव्याप्ता सा स्याद्योनिरूपप्लुता॥ -(च॰ सं॰ चि॰ ३०/२१,२२)<sup>[29]</sup>
- वाताश्लेष्मामयन्याप्ता श्वेतिपिच्छितवाहिनी ॥ उपप्तुता स्मृता योनिः ।<sup>[30]</sup>
   -(अ॰ सं॰ उ॰ ३८/४९ एवं अ॰ हु॰ उ॰ ३३/४८, ४९)

Though doshas always invade yoni in all the conditions, however, special mention of the word indicates that here pain, pinkish or whitish and thick or thin discharges and itching etc. features of vata and kapha invade entire vaginal canal. Thus, it appears to be description of vaginal thrush caused by candida albicans or monilial vulvovaginitis. Though the disease can afflict any woman, however, pregnant women are more susceptible for this infection. There are great individual variations in clinical features, as one may have pain and tenderness, or itching, or watery discharges, or flaky curdy thick white discharges (cottage cheese like)

Entire vaginal canal is covered with thick white discharge. Thus, all the clinical features of monilial vulvovaginitis or candida albicans simulate description of upaplutā yonivyāpad. [16,17]

#### Pichu Kalpana

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    धातक्यामलकीपत्रस्रोतोजमधुकोत्पतैः ॥ जब्वाम्मस्यकासीसलोधकट्फलितन्दुकैः । सौराष्ट्रिकादािडमत्वगुदुम्बरशलादुभिः ॥ अक्षमात्रैरजामूत्रे क्षीरे च द्विगुणे पचेत्। तैलप्रस्थं पिचुं दद्याद्योनौ च प्रणयेत्ततः ॥ कण्टीपृष्ठित्रकाभ्यङ्गं स्नेहविस्तं च दापयेत्। पिट्छिला स्राविणी योनिर्विप्तृतोपप्तृता तथा ॥ उत्ताना चोन्नता शूना सिध्येत् सरफोटशूलिनी ॥<sup>31]</sup>
-(च॰ सं॰ चि॰ ३०/७८ से ८२)
    धातक्या......उत्पतैः । जगब्वाम्मसार......। शलादुभिः ॥ अक्षमात्रै........ पचेत् । तैलप्रस्थं तदभयङ्गपिचुबिस्तषु योजयेत् ॥ शूनोत्तानोत्रतास्तन्धापिट्छलास्राविणी तथा । विप्तृतोपप्तृता योनिः सिध्येत्सरफोटशूलिनी ॥<sup>32]</sup>
-(च॰ सं॰ सहश) (अ० सं॰ उ० ३९/६९ एवं अ० ह० उ० ३४/५१ से ५४)
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Dhātakyādi tail should be prepared and used in following way: -Paste of flower of dhataki, fruit of amalaki, patra, srotoja, madhuka, utpala, kernel of jambu and amra, kāsīsa, lodhra, katphala, tinduka, saurāṣtrikā, stem bark of dadima and unripe young fruits of udumbara each one akṣa, goat urine and milk each in double quantity of total paste, should be mixed with one prastha oil and cooked. Once this oil is properly prepared it should be used in the form of tampon, massage over hips, back and sacral region and enema. Use of this oil cures the yoni associated with excessive unctuousness or discharges, viplutā and upaplutā yonivyāpad and uttānā, unnatā or sunā yoni and the one which is full of sphota (blisters) and pain.

#### E. ACHARANA / VIPLUTA YONIVYAPAD (Pruritus valvae)

- Lakshanas
- योन्यामधावनात् कण्डूं जाताः कुर्वन्ति जन्तवः ।<sup>[33]</sup>
   -(च० सं० वि० ३०/१८)
- विप्तुताख्यात्वधावनात् । सञ्जातजन्तुः कण्डूता कण्ड्वा चातिरतिप्रिया ।<sup>[34]</sup>
   -(अ० सं० उ० ३८/५० एवं अ० ० उ० ३३/४९)

The microbes/parasites developing due to non-cleanliness of vagina, produce vaginal itching, which in turn causes excessive sexual desire this condition is described by charak in acharana

yonivyapad & as a vipluta yonivyapad by vagbhata. We can co- relate it with priritus valvae meaning – itching of vulva.

None of the infective disorders of reproductive system show presence of intense sexual desire, thus cannot be considered here for congruence. On the basis of above description, this condition can be equated with pruritus valvae because of itching; not on the basis of intense sexual desire.[16,17]

#### Pichu Kalpana

- शल्लकीजिङ्गनी जम्बूधवत्ववपञ्चवत्कलैः॥ कषायैः साधितः रनेहपिचुः स्याद्विप्लुतापहः ॥<sup>351</sup> -(च० सं० चि० ३०/१०८, १०९)
- धातक्यामलकीपत्रस्रोतोजमध्कोत्पतैः॥ जन्वाम्रमध्यकासीसलोध्रकट्फलतिन्द्रकैः । सौराष्ट्रिकादाडिमत्वगुद्रम्बरशलाद्रिभः ॥ अक्षमात्रेरजामूत्रे क्षीरे च द्विगुणे पचेत्। तैलप्रस्थं पिचुं दद्याद्योनौं च प्रणयेत्ततः ॥ कण्टीपृष्ठत्रिकाभ्यङ्गं रनेहवरितं च दापयेत्। पिच्छिता स्राविणी योनिर्विप्तृतोपप्तृता तथा ॥ उत्ताना चोन्नता शूना सिध्येत् सरफोटशूतिनी ॥[31] -(च० सं० चि० ३०/७८ से ८२)
- 🕨 धातक्या......उत्पर्तेः । जगब्वाम्रसार......। शलादुभिः ॥ अक्षमात्रे......पचेत् । तैलप्रस्थं तदभ्यङ्गपिचुबरितषु योजयेत् ॥ शूनोत्तानोत्रतास्तब्धापिच्छितास्राविणी तथा। विप्लृतोपप्लृता योनिः सिध्येत्सरफोटशूलिनी ॥[32] -(च० सं० सहश) (अ० सं० उ० ३९/६९ एवं अ० हु० उ० ३४/५१ से ५४)

Application of a tampon soaked with sneha (oil, ghrita or fat) medicated with decoction of fallaki, jingini, stem bark of jambů and dhava alongwith pañcavalkala is beneficial in viplutā yonivyāpad.

Dhātakyādi tail should be prepared and used in following way:-Paste of flower of dhataki, fruit of amalaki, patra, srotoja, madhuka, utpala, kernel of jambu and amra, kāsīsa, lodhra, katphala, tinduka, saurāştrikā, stem bark of dadima and unripe young fruits of udumbara each one akşa, goat urine and milk each in double quantity of total paste, should be mixed with one prastha oil and cooked. Once this oil is properly prepared it should be used in the form of tampon, massage over hips, back and sacral region and enema. Use of this oil cures the yoni

associated with excessive unctuousness or discharges, viplutā and upaplutā yonivyāpad and uttānā, unnată or sună yoni and the one which is full of sphota (blisters) and pain.

#### F. SHUSHKA YONIVYAPAD (Atrophic/senile vaginitis)

- व्यवायकाले रुन्धन्त्या वेगान् प्रकुपितोऽनितः ॥
   कुर्याद्विणमूत्रसङ्गार्ति शोषं योनिमुखस्य च ।<sup>36]</sup>
   -(च॰ सं॰ वि॰ ३०/३२, ३३)
- वेगरोधाहतौ वायुर्दुष्टो विण्मूत्रसङ्ग्रहम्।
   करोति योनिशोषं च शुष्काख्या सातिवेदना ॥<sup>[37]</sup>
   -(अ० सं० उ० ३८/४० एवं अ० हु० उ० ३३/३७, ३८ 'योने:' पाठ

Vāyu, aggravated due to suppression of natural urges during coitus (Charaka) or menstruation (Vägbhaţa) produces retention of urine and feces, and dryness of orifice of vagina (Caraka) or whole vagina (Vägbhaţa). This dryness is due to absence of moistening fluid. There is also very severe pain. This condition is known as śuṣhka.

With above very short description, it is very difficult to establish congruence with any disease known today. Psychological upset caused by suppression of natural urges may influence pituitary via hypothalamus. This in turn may produce hypoestrogenic condition resulting into dryness and pain in vagina. Effect on autonomic nervous system may cause retention of urine and faces., thus this disease appears to be description of estrogen deficiency.

In atrophic vaginitis, vaginal defense is lost. Vaginal mucosa is thin due deficiency of estrogen and is more susceptible to infection and trauma. There may be desquamation of the vaginal epithelium. Having symptoms like, yellowish or blood-stained vaginal discharge, discomfort, dryness, soreness in the vulva or even dyspareunia.

From this information, shushka yonivyapad can co-relate with atrophic vaginitis. [16,17]

#### Pichu Kalpana

अतिचरणादिषु सर्वास्वनिलजा स्वयमेवक्रमः । धारयेच्चातिचरणायां यवगोधूमिकण्वकृष्ठशतपुष्पाश्रयाहृप्रियङ्गुबलाखुकर्णी कल्ककृतामृत्कारिकाम् ॥<sup>[38]</sup> (अतिचरणादिषु दशस् वातिकीविहितः इन्द) (अ० उ० ३९/३८) All the measures capable of suppressing the vata should be done, besides, poultice made with pestled barley, wheat, kinva, kustha, śatapuṣpā, śrayāhwa, priyangu, balā and ākhukarni should be applied locally as a form of tampon.

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