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**Research Article**

**A CLINICAL STUDY OF *MARICHA CHURNA* AND *PIPPALI MOOL* IN THE MANAGEMENT OF**

***STANYAKSHAYA***

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**KEYWORDS:** *Maricha Churna, Pippali mool, Stanyakshaya, Galactagogue.*

**ABSTRACT**

*Sthanya* is the *Updhatu* of *Rasa dhatu*. Ayurveda explain the importance of *Sthanya* through its main function *Pushti* and *Jeevan*. *Rasa DHATU* is said to *Addidhatu* i.e. *Prathamdhatu*. If *Rasa dhatu* formation is disturbed, its *Updhatusthanya* is also get disturbed. In *Stanyakshaya* there is *Kshaya* due to *Dhatukshaya* and *Dushti*. In present study, “effect of *Maricha pippalimool churna* on *Sthanyakshaya’’* has been designed by taking reference from Kashyapsamhita *Ksheeroudpadya*. The purpose is to analyse and evaluate the complete concept and its etiopathogenesis of *Sthanyakshaya* and treatment with *Ikshumulkashya* as whole in light of Ayurvedic and modern concept. The aim is to study causes of *Stanyakshaya* which occurs with different reasons prescribed in Ayurveda like *Krodha*, *Shoka* etc., and according to modern science stress, anaemia etc., and to determine the effectiveness of *Maricha Pippalimool churna* on galactagogue, improve the detail study about *Stanyakshya* from Ayurvedic and modern text. The drugs used for this clinical study are *Maricha Churna, Pippalimool Churna.* 60 patients clinically diagnosed as *Stanyakshya* patients were selected. Statistical analysis of the parameters: Socio-demographic profile, ejection breast milk, duration of breast feeding, according to *Stanapurnatva,* according to frequency of feeding, weight of infant, frequency of urine, sleep of infant was done. The drug “*Maricha pippalimool churna*” was given for 30 days. Significant increase in parameter had been observed during the study. There was increase in *Stanya* after application of drug “*Maricha pippalimool churna”* given in *Stanyakshaya.* This treatment does not show any toxicity and no side effects were seen during the follow up. This remedy is economical and easy to use, store and carry.

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## INTRODUCTION

Ayurveda is ancient and precious gift by god and nature to the whole world is the since of life and basic principles. Ayurveda stands for knowledge of life, Ayu means life and Vedas means to know or to attainment. Acharya charaka has describe the definition of Ayurveda in Charaka samhita as, Ayurveda is the since where advantages and disadvantages as well as happy and unhappy (state of) life along with what is good and bad for life, its measurement and life itself are described.

The objects of this science are the maintenance of the equilibrium of tissue elements.

The number of branches of Ayurveda is to be limited only to eight. The subject of the Prasutitantrastriroga and Balaroga (obstetrics, gynecology and paediatrics) all should be accepted in *Kaumarabhrutya* as *Acharyaharita* says. This changing world, old values ancient tradition and outdated concepts crumbling fast under the impact of fast life style attracts human being and leads to disturbed *Swastha*. That mean supports *Sharir* (body), *Mann* (mind) and *Prann* is *Dhatu*.

*Sthanya* is the *Updhatu* of *Rasadhatu*.

Ayurveda explain the importance of *Sthanya*

through its main function *Pushti* and *Jeevan*. *Rasa Dhatu* is said to *Addidhatu* i.e., *Prathamdhatu*. If *Rasa dhatu* formation is disturbed, its *Updhatusthanya* is also get disturbed.

The abnormalities of *Sthanyas* are *Sthanyakshaya, Sthanyavriddhi, Sthanyadushti, Sthanyakshaya* is one of the *Vikruti* of *Sthanya*. In *Stanyakshaya* there is *Kshaya* due to *Dhatukshaya* and *Dushti*. In present study, “effect of *Ikshumul- kashya* on *Sthanyakshaya’’* has been designed by taking reference from Kashyapsamhita *ksheeroud- padya*. The purpose is to analyse and evaluate the complete concept and its etiopathogenesis of *Sthanyakshaya* and treatment with *Ikshumulkashya* as whole in light of Ayurvedic and modern concept. Exclusive breast milk is the ideal form of nourishment in neonates and infant till 6month. Adequate lactation has been defined as secretion of 300 ml daily by 5th day and 480 ml by 10th day, if this amount is not achieved, a baby of normal weight will not be adequately fed and such a situation is termed clinically as lactation deficiency. In Asian and Tropical countries like India, prevalence of lactational deficiency may be 30-40%. Breast feeding promotes close physical and emotional bonding between mother and child leading to better parent - child adjustment. It is clean, uncontaminated, contains several anti- infective factors that protect baby from infection. Enhance development and intelligence, social and psychomotor capabilities.

Evaluate this topic because only *Shatavari* is popular Ayurvedic drug for *Stanyakshaya* and has satisfactory results. But in *Ayurvedic samhitas* many galactogouges drugs are described. It is necessary to orient the material *Ikshumulkashya* from old text in a systemic manner. *Ikshumul* is a galactagogue drug, used in a *Stanyakshya* as *Stanyavardhana* effect.

As no other milk can be compare with the mother milk, mother milk for the proper growth and development of the baby, who has also recommended that breast milk is the best milk for the growth of the baby.

In a poor socio economic, illiterate community of India, there is feeding can be make the difference between the life and death of baby. The infection rate is high in top feed (bottle feed) babes. Once the baby is malnourished, is fallen ill more often and the infectious are more severe.

Diarrhea and respiratory disease are more common causes of the largest number of the death. In these circumstances, galactagogue drugs can play very valuable role in medicine field.

In these circumstances, galactagogue drugs can play very valuable role in medicine field. This dissertation will include complete review of Ayurvedic literature, modern literature, materials, methods adopted for the clinical study; observation and result follow by discussion as well as summary and conclusion of present work. Thus it is hope that on the basis of clinical study, specific treatment for the *Stanyakshya* will be established certainly and it will surely help for effective management.

## AIM

**Aim and Objective**

* To study causes of *Stanyakshaya* which occurs with different reasons prescribed in Ayurveda like *Krodha*, *Shoka, Bhaya, Irsha, Avastsalyatwa* and according to modern science stress, anaemia, poor economic status, Hyperthyroid, PCOS, medication and to determine the effectiveness of *Maricha Pippali moolchurna* on galactagogue.
* To improve the detail study about *Stanyakshya*

from Ayurvedic and modern text.

## Objective

* To review the literature about *Stanyakshaya* in different Samhitas.
* To determine the efficacy of *Maricha Churna, Pippalimool Churna* in management of *Stanyakshaya*.

## Material and Methods

The aim of thesis is to collect and study detailed clinical pattern of the cases of *Stanyakhaya*. The drugs used for this clinical study are *Maricha Churna, Pippalimool Churna* tried to cover both Ayurvedic and modern parameters. Besides, the results of clinical study have also been scrutinized from both Ayurvedic as well as modern functional and medical point of view to arrive at important conclusion.

## Patients

Total 60 patients clinically diagnosed as *Stanyakshya* patients were selected. During trial, patients were assessed with Ayurvedic and modern parameter.

**Drug:** *Maricha Churna, Pippalimool.*

Raw material was collected from the standard Ayurved shop in market. Authentication and standardization was done at late prin. B.V. Bhide foundation.

**Preparation:** Done at *Rasashala* in our collage according to *Kashayakalpana* described in *Sharangdhar samhita*.

**Follow up**- 0, 7th, 15th, 30th day**.**

## Methodology Selection Criteria Inclusion criteria

1. Age of Patient reproductive age 20 -35years
2. Post-partum 3rd day of delivery
3. Patient with a previous history of lactational deficiency.

## Exclusion criteria

1. Patient with congenital anomalies, breast atrophy, cancers, mastitis, previous menstrual disorder are excluded from the study.
2. Patient with history of alcoholism, infection and systemic diseases.
3. Patient with history of PPH.
4. Mother taking high doses of Anti-epileptic, Anti- psychotic and Anti-cancer drug.
5. Lactose intolerance in infants.
6. Patient of HIV, HBsAg
7. **Assessment Criteria –**Criteria for scoring the

parameters are

## Feeding frequency of baby per day

|  |  |  |
| --- | --- | --- |
| 9 to 10 Times per day | : | 1 |
| 7 to 8 times per Day | : | 2 |
| 5 to 6 times per Day | : | 3 |

**Urine frequency of in baby**

|  |  |  |
| --- | --- | --- |
| 3 to 4 Times per Day | : | 1 |
| 5 to 6 times per Day | : | 2 |
| 7 to 8 times per Day |  | 3 |

## Sleep of baby

|  |  |  |
| --- | --- | --- |
| Not sleep well (crying) | : | 1 |
| Sleep well (baby is happy  and good sleep) | : | 2 |

***Stanya Pravartan***

|  |  |  |
| --- | --- | --- |
| Drop by drop | : | 1 |
| Stream like | : | 2 |
| Forceful | : | 3 |

## Observational Table

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | **1st day** | **3rd day** | **5th day** | **7th day** |
| 1) | Frequency of feeding in baby per day |  |  |  |  |
| 2) | Frequency of urine in baby |  |  |  |  |
| 3) | Sleep of infant |  |  |  |  |
| 4) | *Stanya Pravartan* |  |  |  |  |

**RESULT**

## Distribution of Age of mother

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr. No.** | **Age Group** | **No. of patients** | |
| **Count** | **%** |
| 1. | 18 – 20 | 00 | 00.00% |
| 2. | 21 – 23 | 12 | 20.00% |
| 3. | 24 – 26 | 16 | 26.67% |
| 4. | 27 – 29 | 17 | 28.33% |
| 5. | 30 – 32 | 14 | 23.33% |
| 6. | 33 – 35 | 01 | 01.67% |
| **Total** | | **60** | **100%** |

Out of 60 mothers, 12patients (20%) were with age between 21–23 years, 16 mothers (27%) were

with age between 24–26 years, 17 mothers were with age between 27 – 29 years, 14 mothers (23%) were with age 30 – 32 years while remaining 1 patient (2%) was with age between33–35years.

## Incidence of sex of infant

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr. No** | **Sex** | **Count** | **%** |
| 1 | Male | 27 | 45.00% |
| 2 | Female | 33 | 55.00% |
| **Total** | | **60** | **100.00%** |

Out of 60 patients, 27 infants (45%) were male while 33 infants (55%) were female.

## Incidence of Occupation

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr. No** | **Occupation** | **Count** | **%** |
| 1 | Farmer | 19 | 31.67% |
| 2 | Housewife | 27 | 45.00% |
| 3 | Worker | 14 | 23.33% |
| **Total** | | **60** | **100.00%** |

Out of 60 mothers, 19 mothers (32%) were farmers, 27 mothers (45%) were housewives while 14 mothers

(23%) were workers.

## Incidence of Parity

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr. No** | **Parity** | **Count** | **%** |
| 1 | G1P1 | 32 | 53.33% |
| 2 | G2P1 | 02 | 03.33% |
| 3 | G2P2 | 14 | 23.33% |
| 4 | G3P1 | 01 | 01.67% |
| 5 | G3P2 | 06 | 10.00% |
| 6 | G4P1 | 03 | 05.00% |
| 7 | G4P2 | 02 | 03.33% |
| **Total** | | **60** | **100.00%** |

Out of 60 patients, 32 patients (53%) were with parity G1P1, 2 patients (3%) were with parity G2P1, 14 patients (23%) were with parity G2P2, 1 patient (2%) was with parity G3P1, 6 patients (10%) were with parity G3P2, 3 patients (5%) were with parity G4P1 while 2 patients (3%) were with parity G4P2.

## Incidence of mode of delivery

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr. No** | **Mode of delivery** | **Count** | **%** |
| 1 | FTND | 41 | 68.33% |
| 2 | LSCS | 19 | 31.67% |
| **Total** | | **60** | **100.00%** |

Out of 60 patients, 41 patients (68%) were with FTND while 19 patients (32%) were with LSCS.

## Statistical analysis of different parameters

As grading used for some of the signs and symptoms were ordinal in nature and normality was not followed, “Wilcoxon Signed Rank test” is used for intra-group comparison. (i.e., before and after treatment of a group).

For quantitative parameter, “paired t test” is used. For dichotomous variables, McNemar chi-square test is used. Findings are presented along with appropriate summary statistics like mean, median, IQR (Interquartile range) and graphical methods like -bar diagrams and pie chart. Level of significance has been kept at 5%.

## Ejection Breast milk

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Breast milk**  **quantity** | **Mean**  **score** | **Median**  **score** | **Median**  **diff.** | **IQR of diff.**  **(Q3– Q1)** | **n** | **Wicoxon Signed**  **rank test (T)** | **P- Value (one –**  **tailed)** |
| Before treatment | 1.68 | 2 | 1 | 0(1–1) | 60 | 1431 | < 0.001 |
| After treatment | 2.75 | 3 |

The difference between breast milk quantity before treatment and after treatment (Mdn = 1, IQR = 0) was significant at 5% level of significance (P-value < 0.001). Therefore, it can be said that, there is increase in breast milk after treatment.

## Duration of breastfeeding

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Duration of Breast Feeding** | **Mean score** | **Median score** | **Median diff.** | **IQR of diff. (Q3–Q1)** | **n** | **Wicoxon Signed rank test (T)** | **P- Value (one**  **–tailed)** |
| Before treatment | 1.85 | 2 | 1 | 1 (1 –0) | 60 | 946 | 0.001 |
| After treatment | 2.62 | 3 |

The difference between duration of breast feeding before treatment and after treatment (Mdn = 1, IQR = 1) was significant at 5% level of significance (P-value < 0.001). Therefore, it can be said that, there is increase in duration of breast feeding after treatment.

***Stanapurnatva***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Before treatment** | **After treatment** | | **d.f.** | **Chi Squared (McNemar)** | **p-value** |
| **Absent** | **Present** |
| Absent | 6 | 52 | 1 | 50.019 | < 0.001 |
| Present | 0 | 2 |

Out of 60 patients, 52 patients (86.67%) were such that they were not having *Stanapurnatva* before treatment and were observed with *Stanapurnatva* after treatment. As McNemar’s Chi-squared test at 5% level of significance suggests this change in distribution is significant (P- value < 0.001), it can be said that treatment is significant effective in *Stanapurnatva*.

## Frequency of feeding

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Frequency of feeding** | **Mean Score** | **Median score** | **Median diff.** | **IQR of diff. (Q3–Q1)** | **n** | **Wicoxon Signed rank test (T)** | **P- Value (one–tailed)** |
| Before treatment | 1.63 | 2 | 3 | 2 (4 – 2) | 60 | 1540 | < 0.001 |
| After treatment | 4.40 | 5 |

The difference between frequency of feeding before treatment and after treatment (Mdn = 3, IQR = 2) was significant at 5% level of significance (P-value < 0.001). Therefore, it can be said that, there is increase in frequency of feeding after treatment.

## Weight of infant Increase in weight (gm)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Parameter** | **Mean Score** | | | **n** | **SD** | **SE**  **(±)** | **Paired**  **“t”** | **“p-value”**  **(One tailed)** |
| **B.T.** | **A.T** | **Diff.** |
| Weight | 2724.67 | 2835.42 | 110.75 | 60 | 114.78 | 14.82 | 7.474 | < 0.001 |

Using paired t test, p – value is less than 0.001 i.e. the difference between mean weight before and after treatment is significant at 5% level of significance. i.e. we can say that There is increase in weight for after treatment.

## Frequency of urine

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Frequency of Urine** | **Mean score** | **Median score** | **Median diff.** | **IQR of diff. (Q3 –Q1)** | | **n** | **Wicoxon Signed rank test (T)** | **P-Value (one – tailed)** |
| Before treatment | 1.68 | 2 | 3 | 1(32) | – | 60 | 1482 | <0.001 |
| After treatment | 4.25 | 4 |

The difference between frequency of urine before treatment and after treatment (Mdn = 3, IQR = 1) was significant at 5% level of significance (P-value < 0.001). Therefore, it can be said that, there is increase in frequency of urine after treatment.

## Sleep of Infant

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Before treatment** | **After treatment** | | **d.f.** | **Chi squared (McNemar)** | **p-value** |
| **Absent** | **Present** |
| Absent | 18 | 41 | 1 | 39.024 | < 0.001 |
| Present | 00 | 01 |

Out of 60 patients, 41 infants (68.33%) were such that they were not having proper sleep before treatment and were observed with proper sleep after treatment. As McNemar’s Chi-squared test at 5% level of significance suggests this change in distribution is significant (P- value < 0.001), it can be said that treatment is significant effective in sleep of infant.

## Recent improvement in various signs and symptoms

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameters** | | **% Improvement** | **Remark** |
| Mother parameter | Breast milk (ml) | 37.78% | Significant |
| Duration of Breast feeding | 26.39% | Significant |
| *Stanapurnatva* | 89.66% | Significant |
| baby parameters | Frequency of feeding | 58.53% | Significant |
| weight of infant | 3.79% | Significant |
| Frequency of urine | 55.17% | Significant |
| Sleep of infant | 69.49% | Significant |

**Overall Effect of Therapy**

All 7 assessment parameters were considered while evaluating overall efficacy of treatment. The criteria for assessment of overall effect of therapy are:

|  |  |
| --- | --- |
| **Overall Effect (patient wise)** | **Criteria** |
| Unchanged | Improvement in 0 – 1 parameters |
| Mild improvement | Improvement in 2 – 3 parameters |
| Moderate improvement | Improvement in 4 – 5 parameters |
| Marked improvement | Improvement in 6 – 7 parameters |

## Distribution of patients according to relief

|  |  |  |
| --- | --- | --- |
| **Overall Effect (patient wise)** | **No. of patients** | |
| **Count** | **%** |
| Unchanged | 05 | 08.33% |
| Mild improvement | 02 | 03.33% |
| Moderate improvement | 09 | 15.00% |
| Marked improvement | 44 | 73.33% |

Out of 60 patients, 44 patients (73%) were

markedly improved, 9 patients (15%) had

moderate improvement, 2 patients (3%) were observed with mild improvement while 5 patients (8%) were unchanged.

## DISCUSSION

As per the research design data has been collected, presented in tabular form in chapter no 6 and data analysed statistically. Statistical analysis gave the proper findings and conclusion thoroughly which is discussed as follows. The data is discussed into two parts.

## Socio-demographic profile

Out of 60 respondents, 78 percent respondents are in the age group 24 to 32 years. While discussing sex of infant we found that 55 percent are female and 45 percent are male which is in proportion 9:11.While studying, it is observed that 31 percent were farmer, 45percent were house wives 23.33 percent were workers. While discussing the parity it is observed 53.33 percent were primi and 23.23 percent were second gravida. Mode of delivery of the respondents it is observed that 68.33percent respondents were full term normal delivery and rest 31.67percent were L.S.C.S.

## Ejection Breast Milk

After analysis it was found that the difference between mean ejection of breast milk is 1.68ml before treatment and after treatment, mean ejection breast milk is 37.61 ml percent .The percent of increase ejection breast milk is 37.78 percent. This was proved by one tailed Wilcoxan Sign Rank test significantly and conclude that there is a significant increase in ejection breast milk after the treatment.

## Duration of Breast feeding

After analysis it was found that the difference between mean score of duration of breast feeding before treatment is 1.85min and after treatment mean of duration of breast feeding is 2.62min. The percent of increase duration of breast feeding is 26.39min percent. This is proved with one tailed Wilcoxan Sign Rank test significantly and conclude that there is significant increase in duration of breastfeeding.

**According to *Stanapurnatva***

After analysis it was found that before treatment no *Sranapurnatva*, observe but after treatment *Stanapurnatva* was observe. The percentage of increasing *Stanapurnatva* is 89.66 percent. The percent of increasing *Stanapurnatva* was proved with McNemar test significantly and concluded that there is significant increase *Stanapurnatva* after the treatment.

## According to Frequency of Feeding

It is found that the difference between mean frequency of feeding before treatment is 1.63 times and after treatment mean frequency of feeding is 4.40times.The percentage of increase frequency of feeding 58.53 percent. This was proved with one tailed Wilcoxon Signed Rank test significantly and concluded that there is a significant increasing that there is significant increase frequency of feeding after treatment.

## Weight of infant

After analysis it was found that the difference between mean weight before treatment is 2.72467kg and after treatment weight has been increased to mean weight 2.83542. The percentage of increase in weight is 3.79 percent. This was proved with paired t test significantly and conclude that there is significant increase in weight of infant after treatment.

## Frequency of Urine

After analysis it was found that the difference between mean frequency of urine before treatment is 1.68 times and after treatment mean frequency of urine 4.25 times. The percentage of increase of frequency of urine is 55.17 percent. This was proved with one tailed Wilcoxan Signed Rank test significantly and concluded that there is significant increase in frequency of urine after treatment.

## Sleep of infant

It is found that the infant was not sleeping well before treatment and he slept well after the treatment. The percent of increase in sleep of infant is 69.49 percent. This was proved with Mc Nemar test significantly and conclude that there is significant increase in infant.

## CONCLUSION

In the year of 2014-16 researcher studied on research problem of “Role of *Maricha Pippali Mool Churna* In *Stanya Kshaya’’* for 60patients in Annasaheb dange Ayurvedic medical collage Ashta in the time duration of 9 months. For the patient, drug “*Maricha pippalimool churna*” is given for 30 days. Significant increase in parameter had been observed during the study.

Since in all the symptoms, after treatment given to respondents shows better results. We conclude that there is increase in *Stanya* after application of drug “*Maricha pippalimool churna”* given in *Stanyakshaya.* This treatment does not show any toxicity. This drug does not show any side effects during the follow up. This remedy is economical and easy to use, store and carry. This can easily be used by poor class women also. Results of this study are very encouraging. As per study, there is significant increase in, Feeding frequency of baby per day, Urine frequency of baby, Sleep of baby, *Stanya Pravantan a*fter the treatment of drug “*Maricha pippalimool churna*”.



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