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ANATOMICAL STRUCTURES INVOLVER OF MUTRAVAHASTROTAS IN VATAKUNDALIKA.

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Abstract:

For better health, waste products should be removed from the body completely. If it remains behind, then it will lead to the start of many diseases which will hamper quality of life. In samhita waste products excreted out of the body are mala, mutra and sweda. Mutra is excreted out of the body to remove toxins from blood and purify it. Mutra is evacuated out of the body through the specified channel called mutravasrota. Srotas is explained by all acharya as it is an important channel for the body to move all the bhavpadhartha from one place to another. The pathway has to be clear in such a way that mala should be excreted out of the body effortlessly. Any deformity progresses which causes the obstruction will make it be retained in the body, causes disease. One of the mutravahastrotas vyadhi is "Vatakundalika" under mutraghata chapter. It is explained that aggravated vata moves in a circular direction in the bladder which cause severe pain, and heaviness of the bladder urine is passed as dribbling micturition that too in less quantity with the expulsion of feces. This disease is called vatakundalika.

Keywords: Mutravahastota, Vatakundalika, Mutraghata, Uroflometry, Mutravittasang,

Srujedaalpaalpamathwa, Sarujaskam Shaneeshanee, Mutravihanti sasatambha.

INTRODUCTION

It is claimed that in order to be healthy, waste products should be entirely evacuated from the body; if they do not, they will cause a slew of ailments that would degrade one's quality of life. The samhita describes the waste materials ejected from the body as mala, mutra, and sweda. Mutra are excreted from the body in order to eliminate toxins from the blood and purify it. If urine is not entirely evacuated from the body, it can lead to a variety of disorders such as UTI, sepsis, mutrakrucha, mutraghata, and others. Mutra is removed from the body via the mutravasrota channel. Allacharya describes srotas as a vital route for the body to move all the bhavpadhartha from one location to another. Except for sira and dhamani, which have moolasthana for the creation of specific bhavpadartha or dhatu and its conveyance in the body, srota is the lumen in sharir. Mutracarrying srota have their origins in the basti and medhra, according to Sushruta samhitas. The channel must be clear so that mala can be eliminated easily from the body. However, if any deformity progresses and produces obstruction, it will be retained in the body, causing sickness. The name Vatakundalika is characterized as a mutravahastrotas vyadhi in the Samhita under Mutraghata. The vyadhi vatakundalika is defined in the samhita as exacerbated vata moving in a circular manner in the bladder, causing great agony. The heaviness of the

bladder urine is passed as dribbling micturition, and in smaller quantity than the feces. This condition is known as vatakundalika. The disease and its cure are explored in the classics, although the physical structures involved in vyadhi are not explicitly described. The urine retention should be due to a restriction in the pathway, which is also not explained. As a result, the research is being carried out in order to see and identify the structures involved in vatakundalika vyadhi. There are various tools available in modern science to examine and comprehend the structure's participation and the pathophysiology of the disease. The investigation was carried out with the use of a diagnostic examination to see the involvement of the structure of mutravasrota, which is helping in the samprapti of the vyadhi. The goals of this study are to conduct a literature review on mutravahasrota and vatakundalika and to comprehend the clinical anatomy using USG, radiographic findings, and uroflowmetry in the case of vatakundalika.

AIM & OBJECTIVES:

AIM:

To study anatomical structures involved of mutravahastrota in vatakundalika.

OBJECTIVES:

- -To study the concept of vatakundalika.
- -To study the structural changes of mutravahasrota in vatakundalikaby using urine test, USG, Uroflowmetry and X-ray examination.

REVIEW OF PREVIOUS WORK

Various studies have been carried out on Vata Vyadhi, mutra vyadhi all over India. But study on anatomical structure of mutravahasrotas involved in vatakundalika, the meaning and diagnosis of the Vata have not been carried out. Hence to evaluate clinical efficacy of the above siddhanta the present study titled anatomical structures involved of mutravahastrota in vatakundalika, was selected for the study.

REVIEW OF LITERATURE

In the classics the disease is elaborated with its treatment, but the anatomical structures involved in the vyadhi are not clearly mentioned. The retention of urine should be there because of obstruction in the pathway which is also not explained. So the study is carried out to see and identify the structures involved in vatakundalikavyadhi. Now in allopath there are somany techniques from which we can study and understand the structures involvement and the pathophysiology of the disease. So with the help of diagnostic examination the study was carried out to see the involvement of the structure of mutravasrota which are helping in thesamprapti of the vyadhi. Objectives of this study are to review the literature on mutravahasrota and vatakundalika and to know the structure involved of mutravasrota on clinical examination by, USG, radiological findings, uroflowmetry in case of vatakundalika and thereby to understand the clinical anatomy.

Srotas

ग्,किं ग्,निंगिर्रिंद्य

The word srotas is derived from Sanskrit sru.

ग् निीोिद्दिंदप न्गोिं०न्०न उिद्धितर्गित ग् निीोिपिं

;बेर्षिं उद्दीिंगर्डिं 30/12)

Meaning of sru is to secrete, to permeate, to flow. The structure through which substance is either secretes or circulated or transported is called srota.

'र्हिंसि'गॄर्िंपर्हिंगिं

;फûंûीिंद्ध

Those structure having kha are called as srota.

ुर्ड्डिपिँप्रिं 'र्गिर्सपर्नि"०० उर्डिगिर्×पििंपनर्टिचर्निर्हिं ûतर्पि चि ग्,िर्गिंपर्गिपर्दिंदपिंदनर्जि०तििंटगर्निर्गुर्दिसर्निर्ट्टमर्ड्डिप्रिंग्रिं द्यद्य

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(गर्किं णगर्ड्डिं ण्९/१३)
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It is explained as the hollow channel, except sira and dhamani, which originating from root space spreads whole over the body and carries specific entities.

All the bhavpadartha are carried from one place to another for e.g. urine is taken out of the body with a specific pathway only, no other substance then urine can pass through it. So the specific pathway for micturition is called as mutravahasrotas.

Type of srota

परिंािं.

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उर्हिगिँिंड्यंर्डिन्गिर्मिट्टिंह्यर्गिर्दैहिंधुर्ड्डिंहुंर्डिहंस्ट्रिंधुर्ड्डिंह्यर्गिनिटेंनिर्धेर्सिर्डिद्दपर्यं निर्पिद्दिंगिर्धेर्पिर्हेन्द्रिनिटेंह्यर्गिर्धेर्पिर्हेहिंद्यार्थे निर्पिद्देश्यार्थे पर्टिहें। पर्टिहेंहिंदुन्दिनिटेंहिंद्यार्थिर (cÉç. luÉ. 5|6)
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Srota are the one who are carrying prana, udaka,anna,rasa,rudhira, mansa,medas, asthi, majja,sukra, mutra, purisa,sveda. Vata,pittaand kapha moves all over the body,hence all the channels of the body cater to their needs for monement.

In samhita these srota are explained mostly in 2 groups that are

- 1)Bhirmukh srota(9)
- 2) Antarmukh srota.(13)

Bahirmukh srota

These are the srota explained as whose outlet is out of the body.

The nine channels of the body, such as the ears, the eyes, the mouth, the anus, the urethra, the nostrils, open on the outside. Females have three more such ducts or channels as the two breasts or milk channels and the one which carries off the menstrual blood.

Antarmukh Srota

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पर्षिंस पिर्कृं उर्हिगिँडिंड यन्गन्खियुगिँगुिँ र्डिंकृं <mark>चूर्किं</mark> यपिंड्विंन निर्पिर्दिसरिं तर्र्न्निर्हिगर्डिंय र्पिर्टें
(xÉÑ. zÉÉ. 9/12)
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The symptoms produced by a srota or channels pierced at its root or starting point. The ducts or channels specifically carrying the life, the food, the water, the rasa, the blood, the muscles, the fast, the urine, the stool, the semen, and the menstrual blood, naturally fall within the scope of surgery.

Srota dushti Hetu

These are general causative factors of srota dushti. Every srota has its specific causative factors but they all can be categorized under these general factors. Charakacharya described that aahar and vihar which is similar to dosha guna and opposite of dhatu guna are all hetu of srotadushti.

Srota Dushti lakshana

In samhita acharya have explained 4 main types of srota dushti lakshana. These are general symptoms.

All specific symptoms can be categorized under these 4 lakshana that are-

- 1. Atipravrutti
- 2. Sanga
- 3. Granthi
- 4. Vimargagaman

Mutravaha Srota

There are two channels in number and there root being Urinary bladder and penis, If injury to it can cause hardness in urinary bladder, retention of urine and stiffness of penis.

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ुर्ड्डि, निर्पिर्सिर्गि गर्डिं विंपिर्गिर्गि वर्डिंगप्रिङ्के हो निर्में, निर्में, निर्में, निर्में,
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(cÉ.zÉÉ 5/8)

Mutravaha srota have their roots in basti and vanksana.

Dushti lakshana

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उर्हिंभ<sup>1</sup>सिंगी पर्कि 'निंठिंगिहेंगि' दन्मिंठें <mark>दिनर्जिशिंगि' चर्निर्दिपर्यि</mark>
परिंगिः
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ाइपर्गि×िं ुर्दिपविंगिि उर्द्धिडकृ<mark>षद्दर्जिपीं विर्धिक्षित्र निर्धिक्षित्र</mark> प्रिष्टिंशि प्रिप्ति अधिक प्रतिनिर्द्धिक्षित्र पर्दिक्ष किल्ला प्रतिनिर्द्धिक प्रतिनिति प्रतिनिति प्रतिनिति प्रतिनिति प्रतिनिति प्रतिनिति प्रतिनिति प्रतिनिति प्रति प्रतिनिति प्रतिनिति प्रतिनिति प्रतिनिति प्रतिनिति प्रतिनिति प्रति प्रतिनिति प्रतिनिति प्रति प्रतिनिति प्रति प्रति प्रति प्रति

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(cÉ.zÉÉ 5/8)
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Symptomes of their dushti are excessive excretion, excessive obstruction or suppression, vitiated, diminished or frequent thick urine with pain indicate the dushti lakshana of mutrayaha srotas.

Basti is one of the organ present at koshtangain central body cavity explained by acharya and explained in samhitas as.

Mutrashaya

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ो<mark>विनि</mark>र्णि जर्िईउि<mark>वेि हमिर्निर्मिति</mark>र्किउर्धिहैं धीं च
ुर्ह्हि, मिति<mark>िंु निर्मिति</mark> उ<mark>र्हिनिर्मितिर्मिति</mark>र्कि कुर्मित्र
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(xÉÑ.ÌI

É.3/20)

Urinary bladder is like bottle-gourd in appearance and provided with veins and ligaments. It is receptacle for urine, base of excrements and an important vital organ.

Location Of Basti-

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सर्हिंचर्लि×ेंखंधंधेडुर्कूडंधंकिनिर्फृः गिर्विर्नेखंगार्गिर्पें च
स्डü<sup>2</sup>निंगपर्सिर्कृपनीिंधिर्नु तिंतिर्वे वर्डिंगपर्निर्िं हिंगीं चद्य18द्यद्य
(गर्कृण्दसर्णि3ध18)
```

Urinary Bladder is situated in the space surrounded by umbilicus, back, waist, scrotum, rectum, groin, and penis and it has single opening, thin wall and facing downward.

Formation of urine

Urine carrying channels existing in intestines saturate the bladder with urine constantly as rivers do for the sea. Large number of opening of these channels is not visible due to minuteness.

Bladder is filled up with oozing of urine carried day and night by the channels from the region between stomach and intestine.

As a new pitcher put in water up to the neck is filled from sides, in the same way bladder is filled with urine.

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ൃर्तिपिं उर्हिकीिं वर्गिपर्हिं हुं हिंगिंगुर्तिर्डिप्रü उर्हिनपिंर्डिपिं च
दनर्डिंधर्नि दनहिंनिर्गिर्धिर्हिं उर्हिदपीर्िंगुंठिं चर्निर्हिंसपिंदें चय27द्यय
ुर्ड्डिग्हिंगिंगिं उर्ह्हिंûपिंग्किंयेठ्ठिंगिंपरिंद्रिंनि बिंद
ुर्ड्डिगिंगिंगिं तर्ठि ड०ंग्रहबिंगपर्गिनिर्ठिनि चर्निर्हिंसपिंदें चय28द्यय
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(xÉÑ.ÌI

É.3/27,28)

When vayu is favorable in bladder, urine is excreted properly, but when it is in opposite direction various disorders appears.

Types of retention of urine, prameha, abnormalities of semen and urine all these are located in bladder.

As mutra being one of the mala which has to be evacuated from the body so that waist product will remove from the body and health will be maintain. If any structural changes occur in the body in mutravasrotas will lead to obstruction of mutra and it will not be removed which will cause many diseases and will lead as fetal condition.

One of the diseases explained by acharya in the samhita is mutraghata.

Mutraghata is a disease of urinary system or mutravahasrotas in which the urine formation is hampered

Mutraghata

Mutra + Ghata
Mutra is urine and ghata is distruction
Explained in Moneir and Willams

Mutraghata is explained as —urinary disease of 12-13 types.

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ुर्ड्डिं [र्षिं विद्वारिति द्वार्थित विद्वार्थित विद्वार्य विद्वार्य विद्वार्थित विद्वार्थित विद्वार्थित विद्वार
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Mutraghata is one of the mutravahasrota disease in which the formation of urine is hampered, the output is reduced or obstructed as explained by chakradata.

Dhalana has also explained about mutraghata as

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ુર્कृं [िईं।पिँ।ြँ ुर्कृं [िर्निनिँकें।िर्रू
(QûsWûhÉ)
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Mutraghata is mutravharodh. Retention of urine.

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(िर्षं इसर्णिक् इिंपिं ६1)
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Because of suppressing of the Mala, mutra and shukra evacuation, eating more of rukshadi padart the vata dosha get aggravated and leads to 13 different types of mutraghata diseases.

In this study one of the mutraghata vyadhi is taken to understand the anatomical structural involvement of mutravahasrota that is Vatakundalika.

Vatakundalika

Vata + Kundala

Vata is Tridosha vayu and Kundala is a ring, a particular disease of bladder.

In Monier and Williams it is explained as

Vatakundalika as- "The state of being circular"

It is one type of mutraghata vyadhi explained by many vaidya and in samhita. Acharya Charak, Acharaya Sushruta, Acharya Vaghbhata, and in madhavanidanhas explained the disease in there texts clearly and explained about the disease and there treatment.

Sushrut Samhita explaines as:-

```
नर्द्रं तर्शि°ंदिंनर्डिंगिंपींिं निर्तिर्कुन्सपर्निर्ट्विंअपिंधिं
्रिहुं (बिंन्दिपर्गिर्ड़ित्û) दनिर्फिर्गिर्डिकधीफûर्डिड×üपर्गि द्यदाऽद्यद
 गिर्भिविंडीिंडी्रिंनिंगिंर्तिमिंडिंधेर्सिद्रींसिंद्रींसिंद्रींहिं
 निर्पिर्डिक पीफ भेट्टेर्डि पिपिपिकिनति हिं। दिनिर्पिर्पि निर्मे विद्या
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(xÉÑ /E /58)

The bodily vayu deranged and aggravated through an extremely parched condition or through the voluntary repression of an urging towards micturition affects and retains the urine in the bladder, causing it to revolve in eddies within the cavity of that organ. It allows the urine to pass in small quantity or to dribble out in drops with pain. This disease is known as Vatakundalika.

Charak samhitas explains as:-

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दिंपर्गिर्३िंµोर्भेर्नि×ोर्िंग र्गिईं,गिंरर्सिंग्<mark>रिहेंति</mark>िंद्य
ुर्ड्डि गिंतर् दनर्षिंगीिँ नर्तिंकिंचर्ड्डिस<mark>र्नितर्हिंनर्डिक्</mark>धीफ<mark>ûर्ड्डिद्यद्य39द्यद</mark>
ुर्ह्हुं हिं हुनार्धे हुसपि गिरिंप चिंचिं ईं धं हिं न्नर्नि र्िं सिट्ठीं छ
 पर्डिनर्हिÂ७ॾॣ, दिंनर्टिगर्डिंद्रûनर्डिंपर्डिक् धीफûट्टेर्डि॰ üदपर्गिटिंद्य४०द्यद
 (cÉ /lxÉ /9/44,45)
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Because of the obstruction in the urinary passage, the vitiated vayu moves upwards, and afflicts the bladder as well as urinary channel as a result of which urination takes place in broken, curved and spiral manner. This ailment is called Vatakundalika.

It is characterized by morbidities of urinary tract like stiffness, breaking pain, heaviness, twisting, excruciation pain and retention of urine as well as feces.

Acharya Vaghbhata explained as :-

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द्दनिर्कितिर्रेत डकृधीफûिडुंचिट्टिपिटिं वर्गिपिट्टिं
                                                           पर्डिनर्हिनतरिंि । इसोिं
  ।र्दिन्प्रति ्रिंहुं, िंचिंद्विंदिंप िंगिंग्रेंन्जिं <sup>2</sup>ं विंद्विंन्जीं
ुर्ड्डि, र्शिउंशिउं रिनिर्धि दन्युर्किं हबिर्दिप ्रिडिं× üपगिर्श्रेमिसिप्रिं
 निर्पिर्डिकृषीफûहेर्डि० यपतर्िं
                          (A.WØû.ÌIÉ.9/25)
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Vata aggravated and moving in a circular way in the bladder, causes sever pain, circular movemet of urine inside the bladder itself, obstruction to the flow and heaviness of the bladder, urine is released out little accompanied with elimination of faeces. This disease is called as vatakundalika.

In **madhavanidan** also the topic as vatakundalika explained as

```
नर्द्रें,तािं oंर्हिनर्डिंपिंपिं निर्तिर्कृविद्विगपर्दि गर्निर्वेसाें च
्रिह्नं गिर्देन्प्रति बिन्दिपि दनिकिती उक्षीफûिईंड×üपीि द्याद्यदा
ृङ्किं ीिं पिंहिं निंहिं गिर्तिमािं गर्जिर्हिनपिं डिंगिं हो
        निर्पिर्डिकृ धोफ û ट्रेडिं स्वी पिर्जि नितिष्टिं। दिनी पिर्जि गिकि स्वी पिर्जि विद्यारा विकास व
                                                                                                                                                                                                                                                                                                                                                                         ुर्गिं इसर्णिकृं हिंगिं ६२ए३द्ध
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1JCR

Indulgence in dry food, suppression of natural urges etc. causing

Aggravation of vata inside the urinary bladder begins to move inside the urinary bladder along with urine in a circular manner and manifest vatakundalika. Patient passes urine often in small quantity associated with pain is known as vatakundalika which is difficult to treat.

Lakshanas of vatakundalika

The overall lakshanas explained by acharyas are as followes

1. Tivra vyatha:- (sever pain)

It is explained that patient suffers from sever pain in abdomin

2.Gauravam:- (Heaviness)

The patient explains about the heaviness in abdomen and at bladder.

3.Mutravittasang:- (urine and stool passes together.)

Patient complains of urine and stool passes together.

4. Srujedaalpaalpamathwa:- (micturition in small quantity)

Patient complains of micturition in small quantity

5. Sarujaskam Shaneeshanee:- (dribblingmicturition)

Patient complains of dropping of micturition

6. Mutravihanti sasatambha):- (Retention of urine)

Patient complains of retention of urine.

In allopathi science the urine formation and excretion is explained under the topic of excretory system. It is said that the toxins are formed whole over the body by breakdown of food and the waist is then collected in blood and travels to kidney so it can be purified and the filtration takes place. The important organs involved in urinary system are kidney, ureter, urinary bladder, and urethra.

The examination done for the study are:-

- 1) USG (Abd+pelvis) pre void and post void
- 2) X-RAY
- 3) UROFLOWMETRY
- 4) URINE ROUTINE TEST



MATERIAL AND METHODS

MATERIAL

- a) Compilation of all references of the term srota, mutravahasrota, mutraghata and vatakundalika are collected from Brihatrayi, Laghutrayi & classical ayurvedic text & other literature was done.
- b) For present study 30 patients of vatakundalika were taken.
- c) Case report form was prepared by the symptoms explained in samhitas & consent paper were prepared.
- d) Modern Investigations like uroflowmetry, USG, Xray urine routine test were done to find out structural involvement and changes in mutravahasrotas.

INCLUSION CRITERIA

- 1. Pre-diagnosed patients of vatakundalika were selected.
- 2. Age group: 30 to 90 years.
- 3. Irrespective of Gender.
- 4. Irrespective of socioeconomic status.

EXCLUSION CRITERIA

- 1. Patients with Congenital changes in mutravahastrotas.
- 2. Patients with history of trauma on urinary tract and causing deformity after trauma.
- 3. Post Operative patients suffering from retention of urine.
- 4. Patients who are contra indicated to undergo Uroflometry.
- 5. Patient those are contra indicated to radiological examination.

METHODS

- 1. The literal word meaning of mutraghataand vatakundalika was referred from dictionaries and the context where the vatakundalika was mentioned in the classical texts was studied. The subject related to modern also reviewed. The subject was reviewed from various journals and articles.
- 2. In present study pre diagnosed 30 cases of vatakundalika weretaken according to inclusion criteria.
- 3. After appropriate counselling, written consents were taken from thepatients. A case record form which has the general details of patients and detailed information regarding the disease was prepared.
- 4. All the details of patients & disease were noted on case record form.
- 5. Assessment of sign and symptoms were done as mentioned in classical texts
- 6. After making note on the sign and symptoms, the patient undergone the investigation uroflowmetry, USG, XRay, urine routine test were done. Structural involvement and structural changes were noted.
- 7. Collection of data was done on basis of case study.
- 8. A master chart was prepared by making note on all the points mentioned in case record form.

ASSESSMENT CRITERIA

There are various lakshana (sign and symptoms) of vatakundalika explained in samhitas.

All the diagnosed patients of vatakundalika were assessed on the basis of sign and symptoms present in the patient, if lakshana present, it was assessed as 1, & if lakshana are absent was assessed as 0.

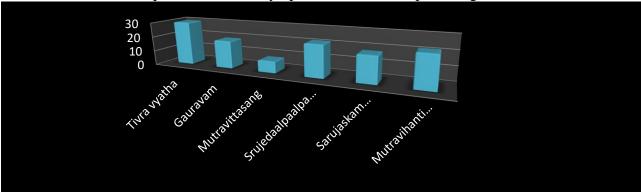
OBSERVATIONS

Total 30 diagnosed patients of vatakundalika were observed in this study. All 30 pre diagnosed patients were taken. The observations were recorded & necessary charts & graphs were made.

Table: Incidence of Lakshnani observed in vatakundalika.

Sr.No	Symptoms	Number of Patients	Percentage
1	Tivra vyatha:-(sever pain)	30	100%
2	Gauravam:-(Heaviness)	19	63.3%
3	Mutravittasang:-(urine and stool passes together.)	08	26.7%
4	Srujedaalpaalpamathwa:- (micturation in small quantity)	22	73.3%
5	Sarujaskam Shaneeshanee:-(dribbling micturation)	18	60%
6	Mutravihanti sasatambha:- (Retention of urine)	22	73.3%

Table: shows that no of patients with the symptoms and the total percentage



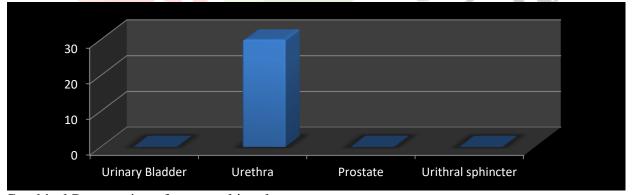
Graphical Presentation of symptoms and the number of patients

Structural Involvement

During the study it was observed that some of structures of mutravahasrotas are involved in vatakundalika vyadhi.

Sr. No	Visible Structures	Number of Patients	Percentage
1.	Urinary Bladder	0	0%
2.	Urethra	30	100%
3.	Prostate	0	0%
4.	Urethral Sphincter	0	0%

Table: Structures involved in vatakundalika.



Graphical Presentation of structural involvement

DISSCUSSION

Srota is a significant topic in Ayurveda. However, the counting of them varies among the acharayas, with the Charaksamhita explaining it as thirteen major srota and the Sushrutasamhita explaining it as eleven pairs of srota. Every one of them explains their mulasthanas differently.

One of the type of mutraghata vyadhi is vatakundalika explained by the acharyas. The detail explanation about clinical features, pathology and treatment of vatakundalika was mentioned, but the anatomy of the disease is not explained.

In the lakshana of vyadhi it says retention of urine is present, dribbling micturition is present but without any obstruction retention will not form. So to understand the structure involved of mutravasrota in vatakundalika vyadhi modern diagnostic examination was done.

The case record form was prepared by lakshana explained in ayurvedic texts and those lakshanas was observed in the patient to enroll in the study. They were advised for the investigation so to understand the structural involvement and the changes found.

The main examination done for the patients was USG, Xray, Uroflowmetry and urine routine test. From the lakshana explained in samhitas the patients were selected and enrolled. Then the patients were subjected to all the examination. We could find a bit fear and excitement on their faces when they were subjected to investigations. Before starting the procedure, detailed explanation regarding the procedure given to patients. For Xray examination mostly female patients were not cooperating so many female patients were not enrolled in this study. After the procedure the changes were noted and explained to the patients. The patients were guided for the further line of treatment according.

In the study the number of patients of the lakshana found for tivra vyatha 100%, the lakshana for gauravam63.3%, the lakshana for mutravittasang was 26.7%, the lakshana for srujedaalpaalpamathwa 73.3%, the lakshana for sarujaskam shaneeshanee 60% and for the lakshana for mutravihanti sasatambha 73.3% were observed.

In the examination the structure involved and the anatomical changes were observed in Urethra was 100%, for prostate 0%, for urinary bladder 0% and sphincter was 0%. All the patients were having structural change present in urethra. No any other anatomical structure involvement was observed.

Regarding this topic, there is no previous work done. This work is helpful for physicians, to diagnose on the basis of modern parameter. These modern investigations precisely give the idea of affected structures in vatakundalika.

CONCLUSION

From this study it can be said that the structures are involved in vatakundalika

Urethra

All the other structures remain normal.

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