# An International Journal of Research in AYUSH and Allied Systems

# **Review Article**

# A REVIEW ON ROLE OF *UTTAR BASTI* IN THE MANAGEMENT OF ERECTILE DYSFUNCTION Dipanjan Jana<sup>1\*</sup>, Gouranga Maity<sup>2</sup>, Raghunath Das<sup>3</sup>

\*1 Assistant Professor, Dept. of Panchakarma, Raghunath Ayurved Mahavidyalaya and Hospital, Contai, Purba Medinipur, West Bengal, India.

<sup>2</sup>Assistant Professor, Dept. of Sharir Rachana, Raghunath Ayurved Mahavidyalaya and Hospital, Contai, Purba Medinipur, West Bengal, India.

<sup>3</sup>Intern, Raghunath Ayurved Mahavidyalaya and Hospital, Contai, Purba Medinipur, West Bengal, India.

# **KEYWORDS:** *Klaibya*, *Dhwajabhangaja Klaibya*, Erectile dysfunction, *Uttarbasti*.

## \*Address for correspondence Dr.Dipanjan Jana

Assistant Professor, Dept. of Panchakarma, Raghunath Ayurved Mahavidyalaya& Hospital, Contai, PurbaMedinipur, West Bengal, India.

Mobile: 8159862581/9432309733

Email:

dr.dipanjanjana@gmail.com

#### **ABSTRACT**

In Ayurveda classics, Klaibya refers to erectile dysfunction i.e., a man who is unable to perform satisfactory sexual intercourse. Various Acharyas has mentioned different causes of the Klabiya likes psychogenic, neurogenic, vascular pathological factors. Male sexual dysfunctions are the most common of the psychosexual disorders in clinical practice. It refers to a problem during any phase of the sexual response cycle that prevents the man from experiencing satisfaction from the activity. Mainly Dhwajabhangaja Klaibya can be compared with the erectile dysfunction on the basis of symptoms. Basti is unique form of treatment modality that not only expels the vitiated *Doshas* rapidly but also nourishes the body. Charaka considered Basti as Ardhachikitsa, Uttarbasti is an important Panchakarma procedure where the medicated oil, Ghrita or decoction is administered into urinary bladder or uterus and is indicated in genitourinary disorders of both male and female. *Uttarbasti* is the prime line of treatment in the case of Klaibya; it deliberates to overcome the Dhatukshaya, Shukrakshaya and Jara-avastha. Probably Uttarbasti acts by following mechanisms first pass metabolism, bladder permeability barrier, neurological stimulation, psychological stimulation. In the results of aphrodisiacs as well as rejuvenation therapy (i.e., Uttarbasti) and medication therapies are more effects on erectile dysfunction that may helps in process of erection.

#### INTRODUCTION

Vajikarana is the branch of Astanga ayurveda deals with successful sexual life is one of the most basic needs for the process of human lives. All Ayurveda literatures deal with all the aspects of love and sex, with its personal, social, cultural and medical importance. Modernised lifestyle consists of food habits like fast food, junk food and spicy food, irregular meal timings, mental factors like fear, anxiety, stress, shy, tension excess use of electronic gadgets (mobile, computer etc.), excess data consumption, exposed to various radiations and long driving which produced heat and vibration are the Nidans of Klaibya. These life styles originates various sexual dysfunctions are more common among people now-a-days.[1] Erectile

dysfunction is defined as the complete or persistent inability to maintain or achieve a penile erection sufficient for satisfactory sexual performance for a couple. Its etiological factors are also includes age, diabetes mellitus, neurologic diseases, smoking, cardiovascular diseases (CVD), and others.<sup>[2]</sup> Its incidence increases drastically from about 6% in the age group 20-29 years, to 50-70% in the age group 40-79 years.<sup>[3]</sup> Its incidence has been projected to increase significantly to over 320 million by the year 2025.<sup>[4]</sup> India has been dubbed as the impotence capital of the world due to the high incidence of the life style diseases and probably the largest population of males in the world.<sup>[5]</sup> *Uttar Basti* is the best therapy in the

purpose of erectile dysfunction. It is the best among all types of *Basti* because of its excellence property. [6] In erectile dysfunction, *Uttarbasti* effects on the penile muscle tone by its proper absorption on bladder muscle, systemic circulation in bladder permeability barrier and neuropsychogenic pathways. Aims of the article - review on erectile dysfunction, review on *Uttarbasti* and erectile dysfunction management through *Uttarbasti*.

#### Klaibva

Various *Acharyas* mentioned about *Klaibya*, denotes that

- 1) "Klaibyamiti dhwajanucchayaha" that is absence of penile erection.<sup>[7]</sup>
- 2) "Klaibyaapaharsetyadi,
- 3) *Klaibyamiti shandatetartha*" lack of interest about sex.<sup>[8]</sup>
- 4) "Shandata-streegamanaashaktitwam" not indulging in sexual activity.[9]

According to *Acharya Charaka*, *Klaibya* is classified into 4 types. They are – *Bijopaghataja Klaibya*, *Dhwajabhangaja Klaibya*, *Jaraaja Klaibya* and *Shukra-kshayaja Klaibya*.<sup>[10]</sup> But, *Acharya Susruta* mentioned 6 types of *Klaibya* are.<sup>[11]</sup>

- 1. Manasa Klaibya
- 2. Saumyadhatukshayaja Klaibya
- 3. Dhwajabhangaja Klaibya
- 4. Marmachedaja Klaibya
- 5. Bramhacharyaja Klaibya
- 6. Khara-shukraja Klaibya

#### General Features of Klaibya<sup>[12]</sup>

General features of *Klaibya* are –inspite of lovable with female partners, not indulging in sexual activity with her due to erectile dysfunction, further he goes to activities then produces dyspnea, sweating, premature ejaculation and unable to perform coital activity with his partners due to improper erection.

#### Dhwajabhangaja Klaibya<sup>[13]</sup>

It occurs due to the excessive intake of Amla Lavana (saline), Kshara (alkaline), (sour), Viruddhabhojana (improper combination of foods), Asatmyabhojana (unwholesome foods). Ambupana (excessive intake of water), Vishamabhojana (irregular food habits), Pishtanna (pastry foods), Guru bhojana (intake of heavy foods), Dadhikshira-anupamansasevana (intake of caurd, milk and meat of marshy land animals), Vvadhikarshanat (emaciation of body due to suffering from diseases), Kanyanam (sexual relationship with un-married girls), Gamanaadyoni Gamanaadapi

intercourse in parts except vagina), Deergharogachira-utsrista (sexual intercourse with a woman who suffering from any chronic diseases). Rajaswala (sexual act at menstruation time), Durgandha yoni (whose vagina is foul in smell), Dusta voni (whose has vaginal diseases), Parisruta (has vaginal discharge), Chatuspadavigamanadshephasaavighata (injury of penis by the coitus with the animals), *Medhraadhabanat* (improper washing of penis), Medhrasyashastra-danta-nakhakshata, Kaasthaprahara (injury to the penis by blunt instruments, teeth, nails and wooden parts), Nishpeshad (sinking of urethra), Shukaati-sevana (excessive intake of the medicines which used for penile erection for long time), Retasapratighata (suppression of seminal urges).

Sign and symptoms of the *Dhwajabhangaja klaibya* are *Medhraswayathu-Vedana-raga* (swelling, pain and redness of the penis), *Tibra-sphota-lingapaka* (pustular eruptions and suppuration on the penis), *Mansavriddhi-kshipravrana* (formation of muscular growth and immediate ulceration on the penis), *Pulakaudakasamasrava* and *Shyaba-Arunapra-bhasraba* (exudates of the ulcers like rice water, brownish black or pink in colour), *Balaya-Kathinaparigraha* (circular and hard shaped marks appear below the penis), *Visheeryatemanee-Medhra-mushka* (drooping down of the glans penis, whole body of the penis and also testicles).

#### Erectile Dysfunction[14]

ED is defined as the persistent inability to maintain or achieve a penile erection sufficient for satisfactory sexual performance. Its etiologies are vasculogenic causes (ageing, increased cross-linking of collagen fibres induced by nonenzymatic glycosylation, hypoxia, or altered synthesis of collagen associated with hypercholesterolemia), neurogenic causes (injury or any types of surgery of the spinal cord, multiple sclerosis, peripheral neuropathy), endochrinological causes (decreased level of testosterone hormone due to suppression of gonadotropin-releasing hormone). psychogenic causes (anxiety, depression, relation conflict, loss of attraction, sexual inhibition, conflicts over sexual preference, sexual abuse in childhood and fear of pregnancy or sexually transmitted diseases), medication related causes (like as diuretics e.g. thiazides, spironolactone; anti-hypertensive drugs e.g. calcium channel blokers, centrally acting drugs, beta-blokers; anti-depressants e.g. tricyclic antidepressants, monoamine oxidase inhibitors; H2 antagonists e.g. ranitidine, cimetidine; hormones e.g. progesterone, estrogens, corticosteroids, GnRH antagonists; anticholinergics e.g. anticonvulsants etc.).

# **Physiology of Penile Erection**

erection is Penile produced bv the Sympathetic and Para-sympathetic pathways. The para-sympathetic pathway originates from intermediolateral columns of S2-S4 sacral spinal segments, passes via pudendal nerves to the pelvic plexus. This pathway causes increased smooth muscle tone that helps in erection. Erection is inhibits by cholinergic para-sympathetic pathways and nonadrenergic-noncholinergic pathways. NANC releases nitric oxide (NO) by NOsynthesis that acts on smooth muscle cells. Nitric oxidie (NO), helps in the corporal smooth muscle relaxation by increased production of cyclic 3', 5'guanosine monophosphate (cyclic GMP) and is also defended by endothelin-I (ET-1) and Rho-kinage. which induces vasoconstriction. These may results in penile erection.

The sympathetic pathway originates from the T<sub>11</sub>-L<sub>2</sub> spinal segments and passes through hvpogastric plexus. This pathway causes detumescene. It results sympathetic discharge and ejaculation due to the postsynaptic alphaadrenaergic receptors and activation of Rhokinage.[15] This event increased venous flow into lacunar spaces, indicates increased smooth muscle tone due to intracorporal pressure, at first time. Then, occurs a slow pressure decrease and indicates reopening of venous channels. Lastly, venous outflow is restored and occur flaccid state. [16]

#### Uttarabasti

In Ayurveda, *Uttarabasti* is defined as the procedure by which administration of drugs (e.g. *Kasaya, Kwatha, Taila* or *Ghrita*) through urethral route in males and urethral or vaginal route in females. It is the best among all types of *Basti* because of its excellence property.

# Types of *Uttarbasti*

Uttarabasti is classified into various ways-

#### Based on the route of administration [17]

Mutrashayagatauttarbasti

Garbhashayagatauttarabasti

# Based on the form of drugs [18]

Snehaoranuvasanauttarbasti

Niruhauttarbasti

# Uttar basti yantra

Mainly, *Uttarbastiyantra* having two parts – *Bastinetra* and *Bastiputaka* 

#### Bastinetra<sup>[19]</sup>

It is an instrument, which as hollow tube like structure. It is also called as *Pusphanetra*. It can be made up of *Swarna* (gold), *Raupa* (silver) etc. Its

tip should be like as flower's stalk of *Jati* or *Ashwahana (Karavira)* and *Go-pucchaakriti* (cow's tail) in shape. The diameter of the openings of the *Netra* should be like pass through a mustard seed *(Sarsapachidranyaya)*. It has two *Karnikas* (rings). One *Karnika* is situated at the end where the *Bastiputaka* is tied and another at the length of 6 *Angula* from tip. The length of *Bastinetra* should be 12 *Angula* in length (acc. to *Susruta – 14 Angula* [20]) for males.

#### Bastiputaka<sup>[21]</sup>

The *Bastiputaka* is means to a bag or pouch in which contain the *Bastidravya*. It is connected with *Bastinetra* and made up of the bladder (*Basti*) of cow, goat, sheep, pig etc. It should be firm (*Drudha*), thin (*Tanu*), free from vessels (*Nastasira*), does not having any foul smell (*Vigandha*) in nature.

#### Uttar Basti Vidhi [22]

*Uttarbastividhi* is classified into 3 steps - *Purva karma, Pradhan karma* and *Paschat karma*.

#### Purva Karma

In *Purva karmas*, the patient should be advised for taking bath and then, subjected for taking food along with *Mansa rasa* (meat soup) or *Payasa* (milk). Then, advised to the patient for evacuating the bowel and urine and the patient is made to sit over the soft chair in comfortable position (*Pitha-janusama*). After that, subjected to *Mriduabhyanga* on the penis, surroundings inguinal region, lower abdomen and buttock.

# Pradhan Karma

At first, physician should hold the penis gently and then, *Ghritayuktashalaka* should be introduced slowly into the penis upto urinary bladder for checking the presence of any obstruction into the urinary tract and it cleared any types of obstruction and also detects the length of urethral passage to urinary bladder. Then, *Bastinetra* (*Pusphanetra*) is smeared with *Ghrita* introduced slowly upto bladder acc. to the direction of perineal suture. *Bastiputaka* (fills with *Bala-ashwagandhataila*) is attached with another opening of the *Bastinetra*. Then, apply gentle pressure over the *Bastiputaka* for administration of the *Uttarbasti* medicine.

**Paschat Karma:** After retention of urine with medicine, *Mansa rasa Yuktayavagu* should be given.

#### DISCUSSION

Acharya Charaka explain Purushartha chatustaya, they are Dharma (virtuous action), Artha (wealth), Kama (desire) and Moksha (salvation).[23] Each and every parts has own

importance of a human life. The *Kama* as one among the fundamental factors of Purushartha for reproduction. The *Kama* means *Sukha*, it is attained by after properly making obligations and good use of the wealth. Even though the Kama is having a broad meaning, in the present study it is used to mention the sexual desire. It comprises many other factors including the normal functioning of behavior, social, psychological and physiological factors. As sexual union is not an individual entity, the partners have equal responsibility in the successful completion of the intercourse; they are assigned with duties to have pleasure and satisfaction. Successful sexual-life is the result of the balance of Sharirik and Manshik Dosha, Vata is the prime reason for vitiation of other Dosha. Basti balances the *Vata*, and is also *Balva*, *Shukravardhak*, and Sarvarogaprashamana. [24] In that case medicine may be used Balaashwagandhatailam, Ashwagandha ghrutam, Phalaghrutam, Kalvanakaghrutam, Phalakalyanghrutam, Sukumaraghurta, Mahakalyanakaghrutam,

#### Probable Mode of Action of Uttar Basti [25]

In Ayurvedic system, *Klaibya* is managed mainly by *Uttarbasti* and also other drugs. *Uttarbasti* is more efficacy on its excellence properties. In *Klaibya*, *Uttarbasti* is perfomed after *Virechana karma* because of proper absorption and affects by its absorption, systemic circulation and neural stimulation in hypothetically.

First pass metabolism: Ausadhis goes to urinary bladder by *Uttarbasti* method. Administered drugs only acts on the desired site either due to less absorption or due to metabolic loss for which systemic therapy in the bladder diseases. Loss can be avoided from first pass metabolism, achieved by administering Interavesical drugs delivery (IDD), for the treatment of disease like cancer. Subsequent drug instillation into the bladder, the concentration of drug in the bladder tissue in linearly depends on the concentration of drug in urine. Logically it can be expected that trans-vesical (across the urothelium) drug transport may be improved if the concentration gradient remains high since passive diffusion is the sole driving force available for intravesical drug absorption.

Urinary bladder is consists of mucosal cell (composed of transitional epithelium and lamina propria), sub-mucosal cell, detrusor muscle and adventitia. *Ausadhis* absorbed on the epithelium cell with the help of capillary.

#### Bladder permeability barrier<sup>[26]</sup>

The Bladder permeability barrier (BPB) for indexing Interavesical drugs delivery. The BPB

formed by Urothelium makes barrier between bold and urine represents through barrier in comparison to others.

#### **Permeability**

The urothelial cells has two parallel pathways to move across vasculation, they are trans-cellular pathway (through the cells), and the para-cellular pathway (through the tight junctions and lateral intercellular spaces). The barriers properties of the urothelium are changed by the modifications of either cellular or tight junction permeability.

# Passive permeability

The bladder is able to maintain large gradients for water, small non electrolytes, ions, protons and ammonium between the urine it stores and blood.

**Neurological stimulation:**  $S_2$ - $S_4$  somatic neural pathway regulates the external urethral sphincters; same continuation for penile erection, so *Uttarbasti* may inhibits para-sympathytic stimulation from hypothalamus.

**Psychological stimulation:** *Uttar basti* may effects on the alteration of psychological factors e.g. stress, anxiety, depression etc. and helps in penile erection

## CONCLUSION

The Klaibya is a disease, affects natural life process of many human beings due to un-healthy sexual life. Un-healthy sexual life is occur mainly due to various psychological problems like where as partner was poor in a considerable majority of subjects in sexual and nonsexual areas and certain partners were shy, feared or negative towards sex. Uttarbasti not only perform to penile erection, also with required mental support of the partners and oral medications also. How Uttarbasti effects on urinary bladder still not clearly known.

#### REFERENCES

- 1. Bagde A. B., Sawant R.S., Klaibya (erectile dysfunction)- a bird eye view through Ayurveda and modern science, Journal of Ayurveda and Holistic Medicine; 2013;1(7): 13-21.
- 2. Hafez ES, Hafez SD. Erectile dysfunction: anatomical parameters, etiology, diagnosis, and therapy. Arch Androl. 2005;51: 15-31.
- 3. EO Laumann, ANicolosi, DB Glasser, A Paik, C Gingell, E Moreira. Sexual problems among women and men aged 40-80 y: prevalence and correlates identified in the Global study of Sexual Attitudes and Behaviors. Int J Impot Res. 17:39-57.
- 4. IA Ayta, JB McKinlay, RJ Krane. The likely worldwide increase in erectile dysfunction

- between 1995 and 2025 and some possible policy consequences. BJU Int. 1999;84:50-56.
- 5. Mutha AS, Kulkarni VR, Bhagat SB, Beldar AS, Patel SB. An Observational Study to Evaluate the Prevalence of Erectile Dysfunction (ED) and Prescribing Pattern of Drugs in Patients with ED Visiting an Andrology Specialty Clinic, Mumbai: 2012-14. J Clin Diagn Res. 2015;9(7):PC08-11.
- 6. Vd. Harish Chandra Singh Kushwaha, editortranslator. Charaka Samhita, Ayurveda Dipika's Ayushi Hindi Commentary (Chakrapani commentary on Siddhi Sthana, Chapter 9th, Verse 50) vol. II, 1st Ed. Varanasi: Chaukhambha Orientalia, 2009, P.1078.
- 7. Vd. Harish Chandra Singh Kushwaha, editortranslator. Charaka Samhita, Ayurveda Dipika's Ayushi Hindi Commentary (Chakrapani Commentary on Sutrasthana, Chapter 28th, Verse 18) vol. I, Ed. Reprint, Varanasi: Chaukhambha Orientalia, 2016, P.476.
- 8. Vaidya Jadavji Trikamji Acharya, editor. Susrutasamhita of Susruta, Nibandhasangraha Commentary of Sri Dalhanacharya and Nyayachandrika Panjika of Sri Gayadasacharya, Sutra Sthana, Chapter 24th, Verse 9, Ed. Reprint, 2010, Varanasi: Chaukhambha Sanskrit Sansthan, P. 116.
- 9. Dr. Anna Moreswar Kunte, Ashtangahrudaya of Vagbhata, Sarvangasundara Commentary of Arunadatta and Ayurvedarasayana of Hemadri, Sutra Sthana, Chapter 4th, Verse 20, Edition: Reprint, 2012, Varanasi: Chaukhamba Sanskrit Sansthan, P. 56.
- Vd. Harish Chandra Singh Kushwaha, editortranslator. Charaka Samhita, Ayurveda Dipika's Ayushi Hindi Commentary (Chikitsa Sthana, Chapter 30<sup>th</sup>, Verse 154) vol. II, Ed. Reprint, Varanasi: Chaukhambha Orientalia, 2016, P.822.
- 11. Kaviraj Ambikadutta Shastri, editor. Sushruta Samhita, Ayurveda-Tattva Sandipika Hindi Commentary (Chikitsa Sthana Chapter 26<sup>th</sup>, Verse 9-14) vol. II, Varanasi: Chaukhambha Sanskrit Sansthan, 2015. P. 147-148.
- 12. Vd. Harish Chandra Singh Kushwaha, editortranslator. Charaka Samhita, Ayurveda Dipika's Ayushi Hindi Commentary (Chikitsa Sthana, Chapter 30<sup>th</sup>, Verse 155-157) vol. II, Ed. Reprint, Varanasi: Chaukhambha Orientalia, 2016, P.822.
- 13. Vd. Harish Chandra Singh Kushwaha, editortranslator. Charaka Samhita, Ayurveda Dipika's Ayushi Hindi Commentary (Chikitsa Sthana, Chapter 30th, verse 163-175) vol. II, Ed. Reprint, Varanasi: Chaukhambha Orientalia, 2016, P.823-824.

- 14. Fauci, Braunwald, Kasper, Hauser, Longo, Jameson, Loscalzo, editors, Harrison's Principles of Internal Medicine, Alterations in Sexual function and Reproduction, Sec. 8 (Sexual Dysfunction by Kevin T. McVary, 49th Chapter), 17th Ed. The McGraw-Hill Companies, 2008, P. 297-298.
- 15. Fauci, Braunwald, Kasper, Hauser, Longo, Jameson, Loscalzo, editors, Harrison's Principles of Internal Medicine, Alterations in Sexual function and Reproduction, Sec. 8 (Sexual Dysfunction by Kevin T. McVary, 49th Chapter), 17th Ed. The McGraw-Hill Companies, 2008, P. 296.
- 16. El-Sakka, A.I. and Lye, T.F. (2004) Physiology of penile erection. The Scientific World Journal 4(S1), 128-134.
- 17. Dr.Bramhananda Tripathi, editor, Astanga Hridaya of Srimadvagbhata, Nirmala Hindi Commentary (Sutrasthana, Chapter 19, Verse 70), Ed. Reprint, Delhi: Chauwkhamba Sanskrit Pratisthan, 2011, P. 240.
- 18. Dr.Prof.Jyotir Mitra, editor. Astanga Samgraha of Shrimad Vriddha Vagbhata, Sasilekha Sankrit Commentary by Indu (Sutra Sthana, Chapter 28th, Verse 10) 4th Ed, Varanasi: Chowkhamba Sanskrit Series Office, 2016, P.213.
- 19. Vd. Harish Chandra Singh Kushwaha, editortranslator. Charaka Samhita, Ayurveda Dipika's Ayushi Hindi Commentary (Siddhi Sthana, Chapter 9th, Verse50-51) vol. II, Ed. Reprint, Varanasi: Chaukhambha Orientalia, 2016, P.1078.
- 20. Kaviraj Ambikadutta Shastri, editor. Susruta Samhita of Maharsi Susruta, Ayurveda Tatva Sandipika Hindi Commentary (Chikitsa Sthana, Chapter 37<sup>th</sup>, Verse 101) vol. I, Ed. Reprint, Varanasi: Chaukhambha Sanskrit Sansthan, 2016, P.205.
- 21. Vd. Harish Chandra Singh Kushwaha, editor-translator. CharakaSamhita, Ayurveda Dipika's Ayushi Hindi Commentary (Siddhi Sthana, Chapter 3<sup>rd</sup>, Verse 10-11) vol. II, Ed. Reprint, Varanasi: Chaukhambha Orientalia, 2016, P.980.
- 22. Vd. Harish Chandra Singh Kushwaha, editortranslator. Charaka Samhita, Ayurveda Dipika's Ayushi Hindi Commentary (Siddhi Sthana, Chapter 9th, verse 53-56) vol. II, Ed. Reprint, Varanasi: Chaukhambha Orientalia, 2016, P.1078.
- 23. Vd. Harish Chandra Singh Kushwaha, editortranslator. Charaka Samhita, Ayurveda Dipika's Ayushi Hindi Commentary (SutraSthana,

- Chapter 1<sup>st</sup>, verse 15) vol. I, Ed. Reprint, Varanasi: Chaukhambha Orientalia, 2014, P.9.
- 24. Vd. Harish Chandra Singh Kushwaha, editor-translator. Charaka Samhita, Ayurveda Dipika's Ayushi Hindi Commentary (Siddhi Sthana, Chapter 1st, verse 38-40) vol. II, Ed. Reprint, Varanasi: Chaukhambha Orientalia, 2016, P.953.
- 25. Dr.Pulak Kanti Kar, Mechanism of Panchakarma and Its Module of Investigation, Mechanism of Uttarabasti, Chpt. 5,1st Ed. Chhonya Publisher's, 2012, P. 104-109.
- 26. Lilly JD and Parsons CL, Bladder surface glycosaminoglycans is a human epithelial permeability barrier, Surg Gynecol Obstet. 1990 Dec; 171(6):493-6.

#### Cite this article as:

Dipanjan Jana, Gouranga Maity, Raghunath Das. A Review on Role of Uttar Basti in the Management of Erectile Dysfunction. AYUSHDHARA, 2018;5(5):1919-1924.

Source of support: Nil, Conflict of interest: None Declared

Disclaimer: AYUSHDHARA is solely owned by Mahadev Publications - A non-profit publications, dedicated to publish quality research, while every effort has been taken to verify the accuracy of the content published in our Journal. AYUSHDHARA cannot accept any responsibility or liability for the articles content which are published. The views expressed in articles by our contributing authors are not necessarily those of AYUSHDHARA editor or editorial board members.

