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# A HOLISTIC APPROACH ON KEETA VISHA: AN AYURVEDIC **REVIEW**

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#### **ABSTRACT**

Agadatantra is a branch of Ayurveda dealing with the study of bites from snakes, insects, spiders, rats and so on, various poisons and of poisonous combinations- both natural and artificial and their treatment. Any substance which, on entering the body through any route, vitiates bodily tissues and leads to destruction of health or life can be called Visha. Jangam Visha constitutes animal poisons. Animate poisons are mainly described under Sarpa Visha (snake poison), Keeta Visha (insect poison), Mooshika Visha (Rat poison) and Alarka Visha (Rabies). The term 'Keeta' refers to all living creatures which are small in size, but visible; having two or more legs, with or without wings, some living in soil, some in water, some in crevices of buildings, walls, roofs etc., some moving in air; possessing different shapes, colors; some crawl, some fly, some swim, some hop and so on. Some bite man

with their teeth, some sting, some scratch the skin with their claws and some poison man with their urine and so forth. Hence there are four types, viz. Vayavya(Vatika), Agneya(Paittika) and Soumya(Kaphaja) Keetas and a fourth variety -constituted of all the three doshas. Definition of Visha, classification, Types, Swaroop, Lakshanas and general treatment of *Keeta visha* are included in this review.

**KEYWORDS:** Ayurved, Agadatantra, Visha, Jangam Visha, Keeta.

#### INTRODUCTION

Agadatantra<sup>[1]</sup> is a branch of Ayurveda dealing with the study of bites from snakes, insects, spiders, rats and so on, various poisons and of poisonous combinations- both natural and artificial and their treatment.

# Definition of Visha[2]

Based on the root word "Vish Vyaptou" which means to pervade or to spread Visha has been defined as "Viseshena syandate iti Visham"; Another definition is "Vishnati pranam iti Visham" which means that which results in separation of Prana (life) from the body.

Any substance which, on entering the body through any route, vitiates bodily tissues and leads to destruction of health or life can be called *Visha*.<sup>[3]</sup>

In the classical texts of *Ayurveda*, *Visha* has been defined as that which produces despair (*Vishada*) in the whole world.<sup>[4]</sup>

*Visha* is described in *Charaka Samhita* as a substance having 10 *Gunas* (properties), producing 8 *Vegas* on entering the body, having its origin from the water element, but having action and effects like fire, present in *Sthavara* and *Jangama* substrates and which can be treated with 24 *Upakramas*. [5]

## Classification

Visha is primarily classified, based on its source into two- Akrtrima and Krtrima. Akrtrima is further divided into Sthavara Visha [located in plants and inanimate objects] and Jangama [animal poison]. [6]

### Jangama Visha

It constitutes animal poisons. Animate poisons are mainly described under *Sarpa Visha* (snake poison), *Keeta Visha* (insect poison), *Mooshika Visha* (Rat poison) and *Alarka Visha* (Rabies).

The texts describe it as venom of fanged creatures like snake.<sup>[7]</sup> Insects, spiders, rats, scorpions, house lizards, fish, frog, locusts, dogs, lion, tiger, jackal, hyena, mongoose and the like also transmit poison.

Even though they are said to possess venom in their fangs, they have a wide substrate base and transmit venom through various body parts<sup>8</sup>. 16 substrates have been listed by *Sushruta*, *Vagbhata* and *Bhavamisra*. [8]

Table No. I. 1.3. Table showing the 16 Adhishtanas as per different authors.

Sl. No.	Adhishtanas	S. S	A.S.	B. P
1	Drishti (sight)	<b>✓</b>	✓	✓
2	Niswasa (breath)	<b>✓</b>	✓	✓
3	Damshtra (fangs, teeth)	✓	✓	✓
4	Nakha (nails, claws)	✓	✓	✓
5	Mutra (urine)	✓	✓	✓
6	Purisha (foecal matter)	✓	✓	✓
7	Sukra (semen)	✓	✓	✓
8	Lala (saliva)	✓	✓	✓
9	Artava (menstrual blood)	✓	✓	✓
10	Mukhasandamsa (sucker/proboscis)	✓	Mukha	Mukha
11	Visarddita (flatus)	✓	Sonita	Avamarddita
12	Tunda (tail)	✓	Sparsa	Sparsa
13	Asthi (bones)	✓	✓	✓
14	Pitta (bile)	✓	✓	✓
15	Sooka (bristles)	✓	✓	✓
16	Sava (dead body)	<b>√</b>	<b>√</b>	Guda

## Table showing the Adhishtanas with examples.

Adhishtanas	Examples
Drishti, Niswasa, Damshtra	Divya Sarpa
Nakha and Damshtra	Swa, Marjara
Mutra	Various <i>Keeta</i>
Shukra	Mooshika
Lala,Mutra, Pureesha, Mukhasandamsa, Nakha, Sukra, Artava	Luta
Aara	Vrischika
Mukhasandamsa	Jalouka, Makshika
Visarddita	Certain Keeta
Asthi, Pitta	Matsya
Sooka, Tunda	Bees, Wasps, Fleas, Mosquitos
Sava	Sarpa, Keeta

# Effects of Jangama Visha[9]

*Jangama Visha* produces somnolence, drowsiness, mental fatigue, burning sensation, inflammation, horripilation, oedema, and diarrhea.

#### KEETA

The term 'Keeta' refers to all living creatures which are small, but visible; having two or more legs, with or without wings, some living in soil, some in water, some in crevices of buildings, walls, roofs etc., some moving in air; possessing different shapes, colours; some crawl, some fly, some swim, some hop and so on.

Some bite man with their teeth, some sting, some scratch the skin with their claws and some poison man with their urine and so forth.

## **Origin**

*Keetas* are so called because they are procreated from the *Kita* i.e., fecal matter and urine of *Sarpas*. [10]

*Keetas* are considered to originate from the *shukra* (semen), vit (fecal matter), *mootra* (urine), *sava* (putrified bodies) and eggs of the serpents (snakes).

# Classification<sup>[11]</sup>

Keetas are classified into different categories based on their Dosha Prakruti, which in turn is dependent on the Dosha prakruti of the snakes from which they originated, and also on their ability to vitiate the doshas (humors). Hence there are four types, viz. Vayavya(Vatika), Agneya(Paittika) and Soumya(Kaphaja) Keetas and a fourth variety—constituted of all the three doshas which is capable of perturbing all the three doshas and possessing high potency- the Pranahara (Sannipathika) Keetas Sushruta describes 67 varieties of Keeta among which Vatika Keetas are eighteen in number, Paittika twenty four Kaphaja thirteen and Sannipatika twelve. [12] Keeta is further classified based on severity into Manda Visha, and Pranahara Visha. [13]

Charakacharya classifies them into two- **Doosheevisha Keeta and Pranahara Keeta**. [14]

The 18 Vayavya Keetas starting from Kumbheenasa cause Vatakopa, the 24 Agneya numerated from Koundinyaka cause Pittavikara, the 13 Soumya numerated from Viswambhara cause Sleshma kopa and the 12 Pranahara starting with Tunganasa cause Tridosha kopa are described as Ghora and are fatal. [15]

# **Table Showing the Different Types of** *Keetas* **Vataja**<sup>[18]</sup>

Sl.No.	Susruta Samhita	Ashtanga Sangraha
1.	Kumbhinasa	Kumbhinasa
2.	Tundikeri	Tundikeri
3.	Srngi	Srngi
4.	Satakuleeraka	Satakuleeraka
5.	Uccitinga	Uccitinga
6.	Agninama	Agninama
7.	Ciccitinga	Ciccitinga
8.	Mayuraka	Mayuraka
9.	Avartaka	Avartaka
10.	Urabhra	Urabhra
11.	Saarikamukha	Saarikamukha
12.	Vaidala	Vaidala
13.	Saravakurda	Sarava
14.	Satabahu	Kurda
15.	Parusha	Parusha
16.	Citraseershaka	Citraseershaka
17.	Abhiraji	Ahija
18.	Raktaraji.	Jaaraka

According to *Nibandha Sangraha*, among the 18 *Vayavya Keetas*, except *Srngi*, *Uccitinga*, *Saravakurda* and *Citraseershaka*, the other 14 are *Mukhasandamsa visha* (injecting poison by bite).

# Pittaja<sup>[24]</sup>

Sl.No.	Susruta Samhita	Ashtanga Sangraha
1.	Kaundinyaka	Kaundinyaka
2.	Kanabhaka	Kanabhaka
3.	Varati	Varati
4.	Patravrschika	Patravrschika
5.	Vinasika	Vinasika
6.	Brahmanika	Brahmanika
7.	Vindula	Vindula
8.	Bhramara	Bhramara
9.	Bahyaki	Bahyaki
10.	Piccita	Piccita
11.	Kumbhi	Kumbhi
12.	Varcahkita	Varcahkita
13.	Arimedaka	Arimedaka
14.	Padmakita	Padmakita
15.	Dundubhika	Dundubhi
16.	Makara	Makara
17.	Satapaadaka	Satapaadaka
18.	Pancaalaka	Pancaala

19.	Pakamatsya	Pakamatsya
20.	Krshnatunda	Sukshmatunda
21.	Gardabhi	Gardabhi
22.	Kleeta	Kleeta
23.	Krmisaraari	Krmisaraari
24.	Utklesaka.	Utklesaka.

# Kaphaja<sup>[13]</sup>

Sl.No.	Susruta Samhita	Ashtanga Sangraha
1.	Viswambhara	Viswambhara
2.	Pancasukla	Pancasushka
3.	Pancakrshna	Pancakrshna
4.	Kokila	Kokila
5.	Saireyaka	Sthairyaka
6.	Pracalaaka	Pracalaaka
7.	Valabha	Vatabha
8.	Kitibha	Kitibha
9.	Sucimukha	Sucimukha
10.	Krshnagodha	Krshnagodha
11	Kashaayavaasika	Kashaayavaasika
12.	Gardabhaka	Dabhra
13.	Trotaka.	Jati.

# Sannipaatika<sup>[12]</sup>

Sl.No.	Susruta Samhita	Ashtaanga Sangraha
1.	Tunginaasa	Tunginaasa
2.	Vicilaka	Cipilaka
3.	Taalaka	Taalaka
4.	Vaahaka	Vaahaka
5.	Koshthaagaari	Koshthaagaari
6.	Krimikara	Krimikara
7.	Mandalapucchaka	Mandalapucchaka
8.	Tundanaabha	Tundanaabha
9.	Sarshapika	Sarshapika
10.	Valguli	Madguli
11.	Sambuka	Sambuka
12.	Agnikeeta.	Agnikeeta.

## Keetaswaroopa

It has not been possible to identify all the insects mentioned by the *Acharyas*.

While commenting on the 24<sup>th</sup> *sloka*, *Dalhana* quotes *Alambayana's* description on *Keetaswaroopa*. <sup>[16]</sup> i.e. The knowledge of *Keetaswaroopa* can be had from the color, spots or lines, wings, legs, mouth, claws or nails, *Suka* (bristles), *Kantaka* (anything pointed-sting,

nail), Langoola (tail, hairy tail, membrum virile) body hairs, sound produced, body measurements and from the site and symptoms of envenomation.

Alambayana mentions features of some of the keetas based on their specific shape, nature, color etc.

The Keeta whose shape is like Aja, absence of Suka (bristles or sting) or hair, white in color and its powdered form used as poison is Sarakuleeraka. The dictionary meaning of Satakuleeraka<sup>[17]</sup> is -a kind of crustaceous animal.

The one with Gairikavarna, big size, wings, clean belly, Gudasuka and which flies is Koundinya; a kind of venomous insect. [18]

The one which possesses the color of *Kuranda pushpa* (yellow), wings and (clean, plain) belly, venom in *Tunda* (tail) and *Suka* (bristles) is *Koshtaagaari*.

The one which is *Laksha varna* or blood red, spotted in white or variegated, small, which appear like flame and shines in dark is *Khadyota* (firefly). If bitten by it burning pain occurs. Sambuka is another Keeta with wings, white spots, black and having seven Mandalas, which envenoms by bite. The term Sambuka is used for a bivalve shell or conch; a snail. [19]

Krkalasa (chameleon or a lizard<sup>[20]</sup>) is a four legged animal with long Patra, Ullalata (raised forehead) which gives birth to many young ones, dwells in trees and possesses poison in teeth.

According to Alambayana, Trikantaka is a type of Krkalasa, which appears similar in color to moon. Madhava Nidana also expresses the same opinion.

In another context *Trikantaka* is mentioned as a type of *Kanabha*<sup>[21]</sup> The word is denoted as the name of a kind of venomous insect and as name of a fish.<sup>[21]</sup>

#### Dosha Predominence of Keetas in General

As per Charaka Samhita and Vagbhata, Keetas in general are predominant in Vata and Pitta (Vatapittottara). Sushruta opines that the poison of Keeta is Manda in nature with high preponderance of *Vata* and *Kapha*. [22]

Specifically, it is opined that Vrischika, Ushtra dhoomaka are Vata predominant, Kanabha is Shlaishmika in nature. [23] But Kanabha is listed under Agneya Keetas by Sushruta and Vagbhata. In Vangasena Samhita, Bheka, Moosha and Pinga (frogs, he and she rats) are enumerated as *Vata* predominant along with *Vrischika*.

# **Mode of Administration of Venom**<sup>[24]</sup>

Vatika Keetas administer venom by Pakshavaata on which Indu comments as Sarvadha or by all methods; Paittika by Sparsa commented by Indu as Mukha or oral route (bite); Slaishmika by Mukha (oral route) and Sannipatika by all routes –(Sarvadha.).

# Routes of administration of visha – Adhishtana<sup>[25]</sup>

In Charaka Samhita it is told that the poison from the fanged animals through whose fangs the venom is transmitted constitutes Jangama Visha. Here Chakrapani adds his comments as-In addition to animals described in the *sloka*, there are several other poisonous creatures like Ucchitinga. The creatures are stated to transmit poison through their Damshtra (fangs); This is a generalized statement in as much as some animals enumerated here like rats do not transmit their poison through fangs.

Comparing Luta and Keeta, the bite of Luta occurs above Nabhi while that of Keeta above and below Nabhi and that contact with clothes and other articles contaminated by their secretions would cause lesions.

## Lakshana (Signs and Symptoms) of Keeta Visha

The Vatika Keetas produces symptoms characteristic of vitiation of Vata, Agneya of Pitta vitiation, Sowmya of Kapha vitiation and Pranahara of all the three doshas.

In Sushruta Samhita, the clinical manifestations of Keeta are explained based on severity of poisoning- those of *Pranahara* and *MandaVisha*.

# Symptoms of Pranahara Keeta<sup>[26]</sup>

A person or animal bitten by *Pranahara Keetas* exhibits stages and symptoms (Vegas) similar to those of snakes and their poison tends to derange and aggravate all the three Doshas and produce manifestations thereof.

The seat of bite seems as if burnt by fire or strong alkali and is characterized by reddish, yellowish (Rakta, Peeta-characteristic of Pitta), white (Sita-characteristic of Kapha) or vermillion (Aruna- characteristic of Vata) colors.

The symptoms and signs developed in the entire course of the poisoning are *Jwara* (Fever), *Angamarda* (Aching pain in the body), *Romancha* (horripilation), different types of pain, *Chardi* (vomiting), *Atisara* (diarrhoea), *Trishna* (thirst), *Daha* (burning sensation), *Moorccha* (loss of consciousness), *Vijrmbhika* (yawning), *Vepathu* (shivering), *Swasa* (dyspnoea), *Hikka* (hiccough), sometimes burning and sometimes cold sensation of extreme intensity (*Darunam Daha Seetam cha*), eruption of *Pidaka* (papules/pustules), *Sopha* (swelling), *Granthi* (appearance of nodules/ nodular glands), Mandala (macula/patches), skin manifestations like *Dadru*, *Visarpa*, *Kitibha* and *Karnika* (elevated *mamsaankura*) as well as other manifestations of vitiation of the three *doshas*. There is breaking pain at the bite site followed by necrotic changes. [26]

The other (minor) characteristic features or complications of poisoning by *Sannipatika* should be ascertained from the respective symptoms of *Dushivisha prakopa* and also those arising from the ingestion or external application of poison.

According to *Charaka Samhita* the *Pranahara Keeta Visha* produces extensive swelling as in cases of snake bite associated with foul smell and oozing of sanguineous fluid from the bite site. The patient suffers from heaviness in the eyes, loss of consciousness, pain, and dyspnea. The patient suffers from thirst, anorexia and later *Dushivisha* symptoms may develop.

## Symptoms of Manda Visha Keeta

The symptoms which manifest in case of *Manda Visha Keeta* are *Praseka* (increased salivation), *Arochaka* (aversion to food/tastelessness), *Chhardi* (vomiting), *Sirogourava* (heaviness in head), *Seetaka* (sensation of cold), appearance of papules, urticarial rashes and itching according to the dosha aggravated by the species of the *Keeta*. As per *Charaka Samhita*, the *Keetas* belonging to the *Dushivisha* category cause red (*Raktam*), white (*Sitam*), black (*Krshnam*) or brown (*Syaavam*) discoloration of the part or the body, with eruption of popular rashes. There is itching, burning sensation, cellulitis, suppuration, sloughing and gangrene. [27]

The powdered body or parts of these *Keetas* mixed with various medicinal formulations and used for internal administration and also external application may be called *Gara* and causes *Dushivisha* symptoms.<sup>[28]</sup>

# Signs and Symptoms based on *Dosha* Predominance<sup>[29]</sup>

Vagbhatacharya described the specific symptoms based on the Dosha and explains local as well as systemic effects.

Due to Vayavya Keeta Visha there is pricking pain at the bite site which increases in intensity. Pain in the Hrdaya, Urdhwanila (abnormal movement of Vayu), Sthambha (stiffness), Siraayaama (distention of Vessels), Asthiparvaruk (pain in the Bones and joints), Ghoornana (moaning), Udweshtana (twisting pain in the body), and Gaatra syaavata (dark discoloration of the body) are the systemic symptoms manifested in a person poisoned by Vatika Keeta.

In Agneya Keetadamsa there is Daha (burning sensation), Raga (redness), Visarpa (cellulitis) and a little exudation (alpa samsrava); the bite site appears like ripe peelu phala or kharjura phala. The systemic signs include Sajnanaasa (loss of consciousness), Ushna niswaasa (warm expiration), *Hruddaaha* (burning pain in the *hrdaya*, *Katukaasyata* (pungent taste in the mouth), Damsaavadaranam (gangrenous changes at the bite site), Shopha (swelling) and *Raktapitta* (bleeding disorders).

When a person is bitten by Shlaishmika Keeta there is mild pain (Manda ruja,) and copious exudation (Sraaavaatdhya). The systemic signs that manifest are Chhardi (vomiting,), Arochaka (anorexia), Hrillasa (nausea), Praseka (excessive salivation), Utklesha (acid eructation) Peenasa (rhinitis/sinusitis), Saitya (feeling cold), Mukhamadhurya (sweet taste in the mouth).

In case of Sannipatika Keeta Vegas like snake bite may be seen. Extensive, fast spreading swelling (Sopho vardhishnu), foul odor of blood (Visraraktata), Heaviness in head (Sirogoravam), Heaviness in eyes (Akshigouravam), loss of consciousness (Moorccha), dizziness (Bhrama), dyspnea (Shwasa) and severe pain (ativedana) are also present.

### Samanya Lakshana

The common features of any Keeta dansha are Karnika (indurated flesh. Indu points to Karnikaakarapitaka mentioned in Kshudra rogadhikara), Sopha (swelling), Jwara (hyperpyrexia), Kandu (itching), Arochaka (anorexia). [30]

#### **TREATMENT**

Samanya Cikitsa-General Treatment Principles<sup>[31]</sup>

rÉxrÉ rÉxrÉ ÌWû SÉåwÉxrÉ ÍsÉÇaÉÉÍkÉYrÉÉÌIÉ sɤÉrÉåiÉç |
iÉxrÉ iÉxrÉ AÉæwÉkÉæÈ MÑürÉÉïiÉç ÌuÉmÉUÏiÉ aÉÑhÉæÈ Ì¢ürÉÉqÉç ||
(C.S.Ci.23/166)

In all cases of *Keetavisha* the physician should employ therapeutic measures having attributes opposite to the those of the aggravated Doshas, which can be ascertained from the signs and symptoms presented by the patient.

xÉÉkÉrÉåiÉç xÉmÉïuɬ¹ÉlÉç ÌuÉwÉÉåaÉëæÈ MüĐOûuÉ×ͶÉMæüÈ | (A.S.U.43/51)

Acute poisoning should be treated as for *Sarpavisha*; and those therapeutic procedures carried out based on the *Dosha* predominance as for the 3 varieties of snakes.

# Treatment Based on *Dosha* Predominance<sup>[32]</sup>

Vatika Visha: Affliction by Vatika Visha should be treated with application of *Khanda* (paste of sugar) [or *Pinyaka* (paste of sesame)- according to *Vagbhata*] over the wound, Abhyanga with *Taila*; *Nadisweda* or *Pulakasweda* and *Brimhana* therapies.

Paittika Visha: In Paittika Visha Sthambhana therapies along with Seka and Pradeha which are of Seeta potency is necessary.

*Kaphaja Visha*: *Kapha* aggravating venom should be treated with *Lekhana* (scrapes out the tissues), *Chhedana* (incision into the tissues), *Swedana* and *Vamana*.

Sannipatika Visha:

ÌuÉwÉblÉÇ cÉ ÌuÉÍkÉÇ xÉuÉïÇ MÑürÉÉïiÉç xÉÇzÉÉåkÉlÉÉÌIÉ cÉ | (A.S.U.43/50), (S.S.K.8/42).

All kinds of *Vishahara* treatment (*Samsamana* measures like *Pana*, *Nasya*, *Abhyanga*, *Alepana*, *Parisheka*, *Anjana* etc. based on the *Dosha* afflicted) and the different *Samsodhana* therapies should be resorted to the management of *Keeta visha*.

Charaka Samhita exhorts the use of Chaturvimsatyupakrama as deemed fit in appropriate stages. (C.S.Ci.23/179)

xuÉåSÉsÉåmÉlÉ xÉåMüÉÇxiÉÑ MüÉåwhÉÉlÉç mÉëÉrÉÉåfuÉcÉÉUrÉåiÉçA AlrɧÉ qÉÔÎcNïûiÉÉiÉç SÇzÉmÉÉMüiÉÈ MüÉåjÉiÉÉåÌmÉ uÉÉ || (S.S.K.8/ 43, A.S.U.43/48)

Sweda, Alepana and Seka should be Ushna except in conditions like unconsciousness and inflammatory or suppurative or gangrenous changes locally.

Envenomation by a highly venomous *Keeta* should be treated as snake bite to all intents and purposes.

Since all sorts of poison is *Teekshna* in nature and *Ushna* in potency, in all *Visha* cases Parisheka should generally be cold. But since Keeta visha is Manda (mild) in nature and not very Ushna being predominantly Vatakapha, Swedana procedures are not forbidden. In yet another context where the avoidance of Ushna in a victim of envenomation is again emphasized, the use of *Seeta* is admonished in *Keetavisha* as it provocates the *Visha*.

Sushruta Samhita contradicts Swedana of Damsa sthana in Vrscika Visha, but advocates Dhoopana and mentions a few Yogas for Dhoopana while Charaka advises to do Swedana and insists that though for all types of Visha pervading various parts of the body Seeta measures are indicated, in Vrscika and Ucchitinga visha it is contraindicated. (In Manda visha Vrscika Utkarika swedana is recommended. Application of the paste of Ksheerivrksha twak after Sodhana therapy (Vamana and Virecana according to Sarvanga Sundara) is effective in Keeta Visha.

# Some Common Yogas for All Keeta Visha<sup>[33]</sup>

Dashanga Agada

uÉcÉÉ ÌWÇûaÉÑ ÌuÉQû...¡ûÉÌIÉ xÉælkÉuÉÇ aÉeÉÌmÉmmÉÍsÉ| mÉÉPûÉ mÉëliÉluÉwÉÉ urÉÉåwÉqÉç MüÉzrÉmÉålÉ luÉllÉÍqÉïiÉqÉç

SzÉÉ...jûqÉaÉSÇ mÉÏiuÉÉ xÉuÉï MüĐOûÌuÉwÉÇ eÉrÉåiÉç|| (A.H.U.37/27-28)

As per Kotasseri margam the drugs (here, Saindhavam is not mentioned instead the two varieties of *Pippali* are added) are to be triturated in *swarasa* of *Gojihwa* and administered as Pana and Lepana along with the same swarasa.

Panchasireesha Agada (S.S.K. 5/77), Vamsatwagadi Agada (S.S.K.5/75-76), and Rishabha Agada (S.S.K. 5/65-69) Tanduleeyakadyagadam (A.H.U.37/25-26) are specifically indicated for Keetavisha.

For Lepana Ksheerivrksha twak is specifically indicated; if sopha,toda, daha and Jwara are associated, the *Lepana* of *Mukta* (pearl) is very effective. (A.H.U.37/26-27)

Dhoopana Yoga

lÉÚMåüzÉÉÈ xÉwÉïmÉÉÈ mÉÏiÉÉ aÉÑQûÉå eÉÏhÉï¶É kÉÔmÉlÉqÉç ÌuÉwÉSÇzÉxrÉ xÉuÉïxrÉ MüÉzrÉmÉÈ mÉUqÉoÉëuÉÏiÉç ||

### **CONCLUSION**

In brief it must be reckoned that the descriptions of *Keeta* told in the classical texts are inconsistent and comprise a wide variety of animal species. The modern science also describes a wide variety of organisms which may be included in this group. Some of the Keetas told in Ayurvedic classics cannot be specifically correlated with a particular known species. Besides, a patient attending the OPD with complaints of Keeta Visha might not possibly be familiar with the name or type of the *Keeta* or rather might not even have seen the creature. Hence it is imperative that knowledge of the clinical manifestations and the ability to decipher them based on the *Doshas* affected is acquired.

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