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A comprehensive drug review of *Mushikavishari Agada* on *Mushika Visha* as *Vishagna*

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ABSTRACT

Introduction: *Mushika Visha* is categorized under *Jangama Visha*, which is also known as *Akhu Visha*. Teeth bites, scratches caused by sharp nails, urine and semen all have toxic effects on the body and can cause symptoms. There are two types of symptoms, Curable and Incurable. There are many ways to treat *Mushika Visha*, with numerous combinations and single drugs. **Materials and Method:** A literary review to know the action of *Mushikavishari Agada* in *Mushika Visha* from contemporary texts. **Observation:** Considering twenty six drugs with its *Rasa, Guna, Veerya, Vipaka, Karma* and *Doshagnata* literature proves that individual drugs mentioned in this *Mushikavishari Agada*^[4] formulation can be used in condition such as *Pandu* (Anaemia), *Jwara* (Fever), *Daha* (Burning sensation), *Aruchi* (Anorexia) and acts as *Vishagna* (Anti-poisonous). **Result:** By literary review it can be inferred that formulation *Mushikavishari Agada* consisting twenty-six drugs can counter the spread the toxin thus negating symptoms of *Mushika Visha* mentioned by *Acharya Caraka*. **Conclusion:** A literary review conclude that the formulation *Mushikavishari Agada* mentioned in *Sushrutha Samhitha Kalpa Sthana* can subside *Mushika Visha* and acts as *Vishagna*.

Key words: *Mushika Visha, Mushikavishari Agada, Anti-poisonous, Vishagna*

INTRODUCTION

Mushika Visha is classified under *Jangama Visha*^[1], also known as *Akhu Visha*. In modern science it can be correlated to Rat poisoning. *Visha* can enter body

through Semen, Faeces, Urine, Scratches by nails and bites with teeth of *Mushika*.^[2] In *Brihat Trayees*^[1-3] reference related to types, signs, symptoms and treatment is available. There are eighteen types of *Mushika* according to *Acharya Sushrutha*^[5] and Sixteen varieties according to *Malayalam* traditional book *Prayoga Samuchaya*.^[6] Considering the signs and symptoms *Carakacharya* classified under *Asadhya / Incurable* type and *Sadhya / Curable* type.^[3] According to signs and symptoms seen in a person if he is bitten by a *Mushika* of *Sadhya* type are *Adamsha Shonita* (Exudation from bite site), *Pandu* (Anaemia), *Mandalani* (Circular Patches), *Jwara* (Fever), *Aruchi* (Anorexia), *Loma Harsha* (Horripilation), *Daha* (Burning Sensation) and Similar to *Dooshivisha* (Slow Poisoning).^[7]

Mushikavishari Agada^[4] one among the formulation explained in *Sushrutha Samhitha* contains twenty six

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drugs and can be used for treating *Sadhya Lakshana*^[7] of *Mushika Visha*. This formulation acts on varieties of *Mushika* mentioned in classics (*Sarva Mushika Visha Hanti*). This medication should be consumed with *Madhu* and *Sharkara* (*Anupana*), Hence the review study as under taken to highlight the *Vishagna* action of drugs mentioned in *Mushikavishari Agada*.

AIM AND OBJECTIVE

1. A literary review on twenty six drugs of *Mushikavishari Agada*^[4] as *Vishagna*.
2. To analyse *Mushikavishari Agada*^[4] for its effect on *Sadhya Mushika Visha Lakshana*.^[2]

MATERIALS AND METHODS

A comprehensive literary review of *Mushikavishari Agada*^[4] in *Mushika Visha* from contemporary texts.

LITERARY REVIEW

Review of twenty six drugs in *Mushikavishari Agada*.

Table 1: Drug profile of *Mushikavishari Agada*

SN	Drugs	Botanical Name	Family	Part Used
1.	<i>Kushtha</i> ^[8]	<i>Saussurea lappa</i> C.B. Clarke	Asteraceae	<i>Mula</i>
2.	<i>Maricha</i> ^[9]	<i>Piper nigrum</i> Linn.	Piperaceae	<i>Phala</i>
3.	<i>Shunti</i> ^[10]	<i>Zingiber officinale</i> Roscoe	Zingiberaceae	<i>Kanda</i>
4.	<i>Pippali</i> ^[11]	<i>Piper longum</i> Linn.	Piperaceae	<i>Phala</i>
5.	<i>Darvi</i> ^[12]	<i>Berberis aristata</i> Dc.	Berberidaceae	<i>Mula</i> <i>Mulatwak</i>
6.	<i>Madhuka</i> ^[13]	<i>Madhuca indica</i>	Sapotaceae	<i>Puspa</i> <i>Beeja</i>
7.	<i>Saindava Lavana</i> ^[14]	-	-	Rock salt
8.	<i>Souvarchala Lavana</i> ^[15]	-	-	Salt petre

9.	<i>Malathi</i> ^[16]	<i>Jasminum grandiflorum</i> Linn.	Oleaceae	Flower
10.	<i>Nagapushpa</i> ^[17]	<i>Mesua ferrea</i>	Clusiaceae	<i>Keshara</i>
11.	<i>Kakoli</i> ^[18]	<i>Lilium polyphyllum</i> D.Don	Liliaceae	<i>Moola</i>
12.	<i>Ksheerakakoli</i> ^[19]	<i>Fritillaria roylei</i> Hook.	Liliaceae	Bulb
13.	<i>Jeevaka</i> ^[20]	<i>Microstylis muscifera</i>	Orchidaceae	Bulb
14.	<i>Rishabaka</i> ^[21]	<i>Microstylis wallichii</i>	Orchidaceae	Bulb
15.	<i>Mudgaparni</i> ^[22]	<i>Phaseolus trilobus</i> Ait. Hort.	Papilionaceae	<i>Panchanga</i>
16.	<i>Mashaparni</i> ^[23]	<i>Teramnus labiatus</i> Spreng. Syst.	Papilionaceae	<i>Panchanga Mula</i>
17.	<i>Chinnaruha</i> ^[24]	<i>Tinospora cordifolia</i> Miers	Menispermaceae	<i>Kaanda</i>
18.	<i>Karkatakashringi</i> ^[25]	<i>Pistacia chinensis</i> Burgo	Anacardiaceae	Gall
19.	<i>Tugaksheerj</i> ^[26]	<i>Curcuma angustifolia</i> Roxb.	Zingiberaceae	<i>Kanda</i>
20.	<i>Padmaka</i> ^[27]	<i>Prunus cerasoidus</i> Linn.	Rosaceae	<i>Twak</i> , <i>Beeja</i> , <i>Majja</i>
21.	<i>Prapaundarika</i> ^[28]	-	-	White lotus
22.	<i>Jeevanti</i> ^[29]	<i>Leptadenia reticulata</i>	Asclepiadaceae	<i>Moola</i>
23.	<i>Maduka</i> ^[30]	<i>Glycyrrhiza glabra</i>	Papilionaceae	<i>Moola</i> <i>Stolons</i>
24.	<i>Rudhi</i> ^[31]	<i>Herbenaria intermedia</i> D.Don	Orchidaceae	Tuber
25.	<i>Vridhhi</i> ^[32]	<i>Herbenaria edgeworthii</i>	Orchidaceae	Tuber

		Hool.f.ex Collett		
26.	Mrudhivika ^[33]	Vitis vinifera Linn.	Vitaceae	Phala

Signs and Symptoms/ Sadhya Lakshana of Mushika Visha

Signs: Adamsha Shonita (Exudation from bite site), Mandalani (Circular Patches), Loma Harsha (Horripilation), and Poisoning are similar to Dooshivisha (Slow Poisoning).

Symptoms: Jwara (Fever), Aruchi (Anorexia), Pandu (Anaemia) and Daha (Burning Sensation).

Table 2: Ingredients of Mushikavishari Agada, Its Rasapanchaka, Doshagnata, and Karma according to Sadhya Lakshana (Symptoms) of Mushika Visha.

SN	Drugs	Rasa	Guna	Veerya Vipaka	Karma	Doshagnata
1.	Kushtha ^[8]	Tikta Katu Madhu ra	Laghu Ruksh a Tikshn a	Sheeta Katu	Vishagna	Kaphava ta Shamaka
2.	Maricha ^[9]	Katu	Laghu Tikshn a	Ushna Katu	Vishagna Ruchikara ka	Kaphava ta Shamaka
3.	Shunti ^[10]	Katu	Laghu Snigd ha	Ushna Madur a	Aruchi Nashini	Vatakap ha Hara
4.	Pippali ^[11]	Katu	Tikshn a Laghu Snigd ha	Ushna Madur a	Jwarahari Aruchinut Pandunut	Kaphava ta Shamaka
5.	Darvi ^[12]	Tikta	Ruksh a Laghu	Katu Ushna	Vishagna	Pittakap ha Shamaka
6.	Madhu ^[13]	Madhu ra	Guru	Sheeta Madhu ra	Dahahanti	Vatahara
7.	Saindava Lavana ^[14]	Lavana	Snigd ha Laghu	Mridu Veerya	Ruchiprad a	Tridosha Shamaka

8.	Souvarchala Lavana ^[15]	Lavana	Visha da	-	Ruchikara ka	Vata nasahan a
9.	Malathi ^[16]	Tikta Kashay a	Laghu Snigd ha Mridu	Katu Ushna	Vishagna	Tridosha shamaka
10.	Nagapushpa ^[17]	Kashay a Tikta	Ruksh a Laghu	Ushna Katu	Jwaragna Vishagna	Kaphapit ta shamaka
11.	Kakoli ^[18]	Madhu ra	Guru Sheet a	Sheeta Madhu ra	Jwaragna Dahasham aka	Vatapitt a Shamaka
12.	Ksheerakako lji ^[19]	Madhu ra	Guru Snigd ha	Sheeta Madhu ra	Dahagna, Jwaragna Rakthados ha	Vatapitt a Shamaka
13.	Jivakah ^[20]	Madhu ra	Snigd ha Picchil a	Sheeta Madhu ra	Dahahara	Vatapitt a Shamaka
14.	Rishabaka ^[21]	Madhu ra	-	Sheeta	Jwarahara Dahahara	Vatapitt a Shamaka
15.	Mudgaparni ^[22]	Madhu ra	Laghu Ruksh a	Sheeta Madhu ra	Jwarahara Dahahara	Tridosha Hara
16.	Mashaparn ^[23]	Madhu ra Tikta	Laghu Snigd ha	Sheeta Madhu ra	Jwarahara Dahahara	Vatapitt a shamaka
17.	Chinnaruha ^[24]	Tikta Kashay a	Guru Snigd ha	Madhu ra Ushna	Jwarahara Dahahara Vishagna	Tridosha shamaka
18.	Karkatakash ringi ^[25]	Kashay a Tikta	Guru	Ushna Katu	Rochaka Jwarahara	Kaphava ta shamaka
19.	Tugaksheeri ^[26]	Madhu ra	Laghu Snigd ha	Madhu ra Sheeta	Pandunut h Jwaraghn a Dahasham aka	Vatapitt a Shamaka
20.	Padmaka ^[27]	Kashay a Tikta	Laghu Snigd ha	Katu Sheeta	Dahanash aka Jwaraghn a Vishahara Ruchikara	Pitta kapha Shamaka

21.	Prapaundarika ^[28]	Madhura Tikta Kashaya	-	Sheeta Madhura	-	Kaphaita shamaka
22.	Jeevanti ^[29]	Madhura	Laghu Snigdha	Sheeta Madhura	Daha prasshamana Jwaragna	Tridosha shamaka
23.	Maduka ^[30]	Madhura	Guru Snigdha	Sheeta Madhura	Vishagna Dahahara Ruchya	Vatapitta shamaka
24.	Riddhi ^[31]	Madhura	Guru Snigdha Picchila	Sheeta Madhura	Jwarahara	Vatapitta shamaka
25.	Vridhhi ^[32]	Madhura	Guru Sheeta	Sheeta Madhura	Dahahara Jwarahara	Vatapitta shamaka
26.	Mrudhvikai ^[33]	Madhura	Snigdha Guru	Sheeta Madhura	Jwaragna Dahashamaka Ruchiprada	Vatapitta shamaka

DISCUSSION

The most of the drug present in *Mushikavishari Agada* have *Vishagna* Property.

Rasa Panchaka of Mushikavishari Agada

Chart 1: Analysis of Rasa of ingredients in Mushikavishari Agada

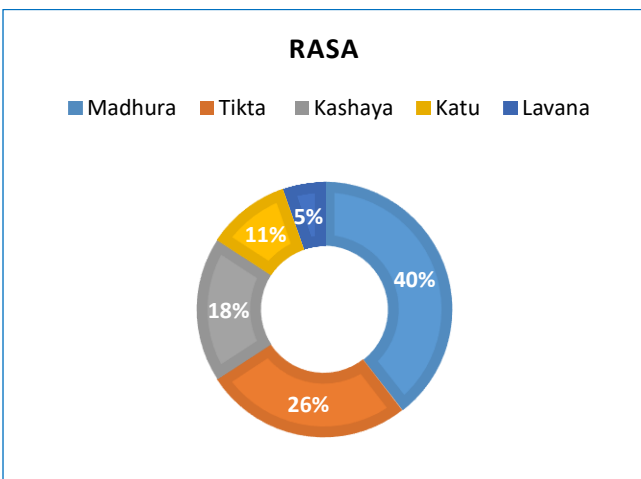


Chart 2: Analysis of Guna of ingredients in Mushikavishari Agada

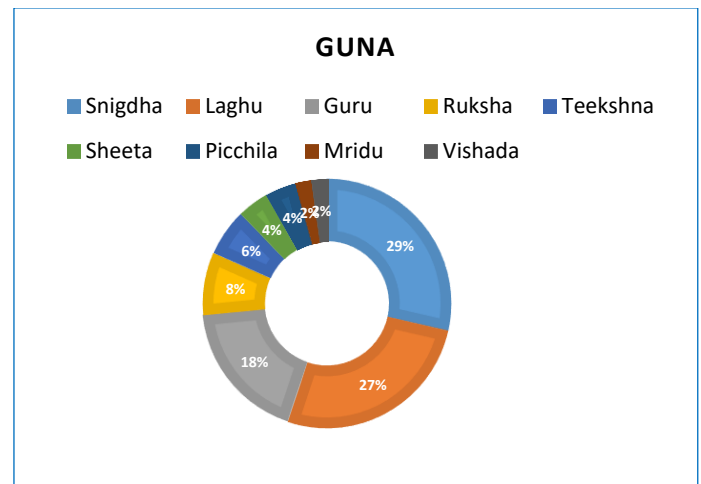


Chart 3: Analysis of Veerya of ingredients in Mushikavishari Agada

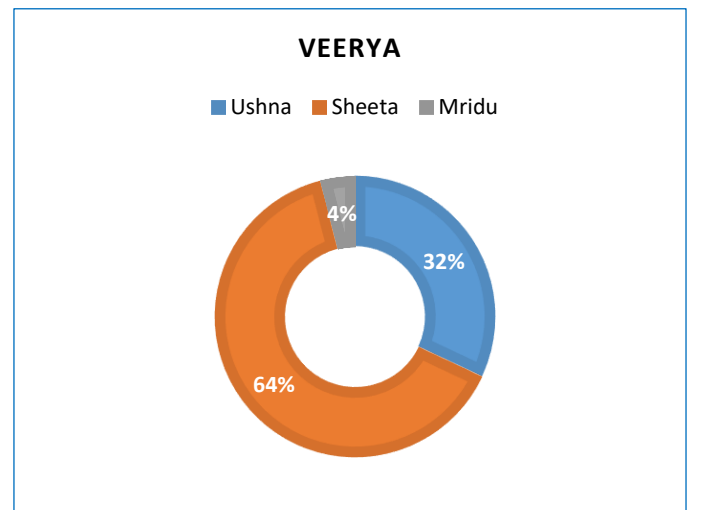


Chart 4: Analysis of Vipaka of ingredients in Mushikavishari Agada

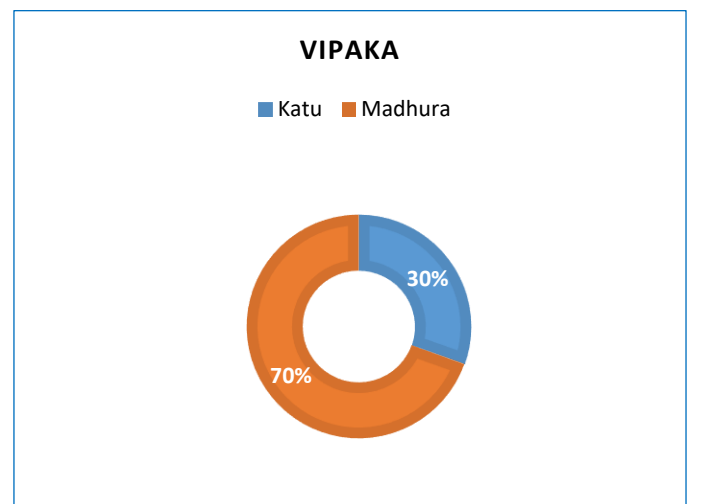


Chart 5: Analysis of Doshagnata of ingredients in Mushikavishari Agada

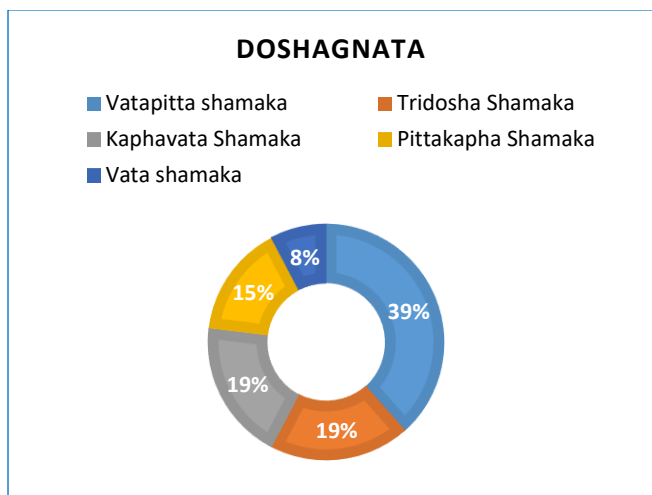
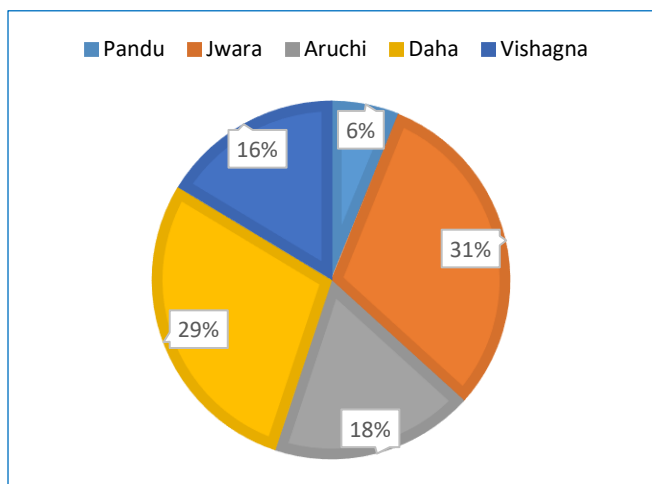


Chart 6: Analysis of Lakshanausara Rogagnatah Karma of ingredients in Mushikavishari Agada



According to Rasapanchaka of Mushikavishari Agada its probable mode of action is:

Mushikavishari Agada is mentioned in Sushrutha Samhitha Sarpadastavishachikitsita Kalpa Adhyaya as Sarva Mushika Vishahara. On considering Rasa, Guna, Veerya, Vipaka, Karma and Doshagnatha:

Rasa Anusara [Chart 1] almost 40% of drugs have Madhura Rasa, 26% of drugs have Tikta Rasa, 18% of drugs have Kashaya Rasa, 11% of drugs have Katu Rasa and 5% of drugs have Lavana Rasa. Most of the drugs are Madhura, Tiktha, Kashaya and Katu Rasa acts as Vatapitta shamaka and Vishagna.

Guna Anusara [Chart-2] almost 29% of drugs have Snigdha Guna, 27% of drugs have Laghu Guna, 18% of

drugs have Guru Guna, 8% of drugs have Ruksha Guna, 6% of drugs have Teekshna Guna, 4% of drugs have Sheeta and Picchila Guna, 2% of drugs have Mridu and Vishada Guna.

Veerya Anusara [Chart-3] almost 64% of drugs has Sheeta Veerya, 32% of drugs have Ushna Veerya and 4% of drugs have Mridu Veerya.

Vipaka Anusara [Chart-4] almost 70% of drugs has Madura Vipaka and 30% of drugs have Katu Vipaka.

Dosha Anusara [Chart-5] 39% of drugs acts as Vatapitta Shamaka, 19% of drugs acts as Tridosha Shamaka, 19% of drugs acts as Kaphavata Shamaka, 15% of drugs acts as Pittakapha Shamaka, 8% of drugs acts as Vata Shamaka.

Among symptoms Jwara (Fever), Aruchi (Anorexia), Pandu (Anaemia) and Daha (Burning Sensation). Karmagnatha Anusara [Chart-6] almost 28% of drug acts as Jwaragna, 27% of drug acts as Daha Shamaka, 17% of drug acts as Ruchikaraka / Aruchi Nashana, 6% of drug acts on Pandu Nashana, 13% of drug acts as Vishagna. Hence it proves that this formulation acts on Mushika Visha as symptomatic management.

While considering twenty six drugs with its Rasa [Chart-1], Guna [Chart-2], Veerya [Chart-3], Vipaka [Chart-4], Doshagnata [Chart-5] and Karma [Chart-6] came to know that single drugs mentioned in this formulation is used in condition such as Jwara (Fever), Daha (Burning sensation), Aruchi (Anorexia), Pandu (Anaemia), and this combination also acts as Vishagna.

CONCLUSION

In Sushrutha Samhitha^[3], Kalpa sthana there is contribution for Visha Chikitsa. In which various types of Visha (i.e., Jangama or Sthavara Visha) and its Lakshana, treatment procedure with formulation is explained. In Sarpadastavishachikitsita Kalpa Adyaya, A formulation consisting twenty six drug act as an anti-poisonous for Mushika Visha known as Mushikavishari Agada is mentioned. According to Rasa, Guna, Veerya, Vipaka, Doshagnata and Karma of drugs mentioned in Mushikavishari Agada Yoga acts on Sadhya Lakshana of Mushika Visha. In this formulation most of the drug are having Jwaragna, Dahagna, Ruchikara action,

which helps in pacifying *Jwara* and *Agnimandya* disease and *Maduka*, *Chinnaruha*, *Padmaka*, *Nagapushpa*, *Malathi*, *Darvi*, *Maricha*, *Kusta* these eight drugs have *Vishahara* property that acts on *Mushika Visha* as *Vishagna* and other drugs helps to reduce the symptoms manifested by *Mushika/Akhu*.

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