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A classical drug review on *vidangadi lauha* w.s.r. To *madhumeha* (diabetes mellitus type - ii)

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### **ABSTRACT**

Background: Medhumeha is a Santarpanajanya Vyadhi. In India, it is increasing rapidly in the urban population and today become the diabetic capital of the world with approximately 33 million adults with diabetes and is likely this number will increase to 57 million by 2025. Vidangadi Lauha is a formulation consists of herbal drugs as mentioned in Bhaishaja Ratanavali with the applicability in Medumeha (Diabetes mellitus Type - II). Material and Methods: Ayurvedic texts, as well as the data bases web-based search engines, journal, were used to search for relevant literature and information. Result: Vidangadi Lauha referred in Bhaishaja Ratanavali was reviewed, analysed in detail and showed the dominance of Tikta-Katu-Kashaya Rasa, Laghu-Ruksha Guna, Ushna Virya, Katu Vipaka and Deepan Paachan properties might have corrected Kapha Dushti and removes Medodhatwagnimandya which corrected Medo Dhatu Dushti and having Pramehara property directly acting on etiopathogenesis of Madhumeha. Pharmacological activity like anti-diabetic effect were also reported. Conclusion: Scientific validation of Vidangadi Lauha has proved the efficacy in reducing the sugar level could be considered as of possible therapeutic value.

**Keywords:** Diabetes mellitus Type - II, Madhumeha, Medo Dhatu Dushti, Vidangadi Lauha. **1. INTRODUCTION** 

Hyperglycemia, hyperlipedemia, hyperaminoacidemia, and hypoinsulinemia are the hallmarks of diabetes mellitus, a systemic metabolic disease that results in a reduction in the amount of insulin secreted by the pancreatic beta cells. Hyperglycemia, hyperlipedemia, hyperaminoacidemia, and hypoinsulinemia are the hallmarks of diabetes mellitus, a systemic metabolic disease that results in a reduction in the amount of insulin secreted by the pancreatic beta cells. The prevalence of diabetes is predicted to rise globally from 4% in 1995 to 5.4% by 2025. This is a growing issue worldwide, particularly in India, where the urban population is growing at a rapid rate, making it the diabetic capital of the world. There are currently about 33 million adults with diabetes in India, and by 2025, that number is probably going to rise to

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57 million.

Ninety percent of people with diabetes have type II diabetes, or insulin-independent diabetes, which is more common and can be treated with diet, exercise, and medication. Both of these conditions cause hyperglycemia, which in turn causes the acute signs of diabetes, such as blurred vision, nausea, vomiting, lethargy, irritability, mood swings, and frequent urine production, which results in unusual thirst and increased fluid intake2.

In Ayurvedic texts the given characteristic features of Madhumeha shows marked similarity with the syndrome of Type 2 Diabetes. It is Tridoshaja Vyadhi, Acharyas have mainly emphesized on vitiation of Kapha Dosha, Medovriddhi and Medodhatwagnimandhya. According to Charak major causative factor (Nidana) of Madhumeha are Madhura, Amla, Lavana Rasa dominant diet mentioned as 'Gramya Udaka Aanupa Rasa Payansi Dadhini' and life style such as 'Aasya Sukham Swapna Sukham' are similar to the causes quoted as over eating, eating of large amount of carbohydrates mainly sugar rich substances, dairy products, practicing sedentary life style, overweight in modern medical literature. Sushrata has mentioned Sahaj and Apathya-Nimattaja varieties of Madhumeha. All these factors described in different texts of Ayurveda implies that life style plays important role in progression of Madhumeha.

Vidangadi Lauha is a formulation consists of herbal drugs as mentioned in Bhaishaja Ratanavali . Present review is aimed at gathering the information about the details of the constituents of this formulation along with the applicability of this formulation in Medumeha (Diabetes mellitus Type - I

#### 2. MATERIALS AND METHODS

#### 2.1. Method of review

All the relevant Ayurvedic texts, as well as the data bases Google scholar, PubMed, Medline, AYUSH Research Portal, and Digital Helpline for Ayurveda Research Articles (DHARA), dissertation works from Ayurveda colleges, studies available on Research Gate web-based search engines, journal, were used to search for relevant literature and presented in systematic manner.

#### 2.2. Procurement of Trial Drugs

All the trial drugs i.e. Vidangadi Lauha was identified.

#### 2.3. Preparation of Drugs

All the drugs were prepared as per the method of preparation of Vatikalpana as mentioned in Sharangadhara Samhita in Pharmacy of S.G.M.P.G Ayurvedic Medical College and Hospital Saheri, Ghazipur.

#### 2.4. Materials for Vidangadi Lauha

Description of Ingredients of Vidangadi Lauha, with English / Latin name, Part used and its quantities are as given in Table 1:

Table 1: Ingredients of 'Vidangadi Lauha'

Sr. No	Name of Drugs	Botanical name/ English Name	Part used	Proportion
1.	Vidanga	Embelia ribes Burm.	Fruit	1 part
2.	Haritaki	Terminalia chebula Retz.	Fruit	1 Part
3.	Bibhitaki	Terminalia belerica Roxb.	Fruit	1 Part
4.	Amalaki	Embelica officinalis Gaertn.	Fruit	1 Part

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5.	Musta	Cyperus rotundus Linn.	Rhizome	1 Part
6.	Pippali	Piper longum Linn.	Root	1 Part
7.	Sunthi	Zingiber officinale Roxb.	Rhizome	1 Part
8.	Jiraka	Cuminum cyminum Linn.	Fruit	1 Part
9.	Krishnajiraka	Carum carvi Linn.	Fruit	1 Part
10.	Lauha Bhasma	Ferrum		9 Part

### 3. RESULT

The pharmacological properties of the formulation can be explained on the basis of the individual drug properties as mentioned below:

### 1. VIDANGA

I. VIDANGA		
Latin Name	Embelia ribes Burn.	
Family	Myrsinaceae	
Synonyms	Vidanga, Chitratandul, Jantunasan, Jantug, Krishnatandula, Vatari.	
Vernacular Name	English Name: Embelia	
	Hindi Name: Vaividanga	
Classical	Charakasamhita: Krumighna, Kusthaghna, Truptighna	
Categorization:	• Susrutasamhita: Sursadi, Pippalyadi	
Part Used	• Fruits	
Rasapanchaka	• Rasa: Katu	
	• Guna: Laghu, Ruksha, Tikshna	
	• Virya: Ushna	
	Vipaka: Katu	
	• <b>Doshaghnata:</b> Kapha Vatahara	
Karma	Dipana, Pachana, Krimighna, Anulomana.	
Rogaghnata	• Krimidanata, Dantashoola, Agnimandhya, Vamana,	
	Udarashoola, Krimi, Gandamala, Mutrakrichaha, Ajirna	
Chemical	• The main active component is Embelin [2-5 dihyroxy 3-	
constituents	undecyl-1, 4 benzoquinone] Embelic acid, christembeline, an	
	alkaloid, resinoid, volatile oil, Quercitol & fatty ingridients.	
	Embelin reacts quantatively with formaldehyde to give	
	vidangin [methylene-his-2-5-dihydroxy-4-undecyl-3-6-	
	benzoquinones].	

### 2. HARITAKI

Latin Name	Terminalia chebula Retz.	
Family	Combretaceae	
Synonyms	Abhaya, Kayastha, Shiva, Pathya, Vijaya, Amruta, Shiva, Rohini,	
	Vijaya, Chetaki, Putana, Haimavatya, Shreyasi, Jivanti.	
Vernacular Name	English Name: Myrobalan	
	Hindi Name: Harad	

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Classical Categorization:	<ul> <li>Charakasamhita: Jwavarghna Mahakashaya, Prajasthapana Mahakashaya, Kusthaghna Mahakashaya, Kasaghna Mahakashaya, Arshoghna Mahakashaya</li> <li>Susrutasamhita: Triphala Gana, Amalakyadi Gana, Parusakadi Gana, Trivrutadi Gana</li> </ul>
Part Used	Fruits
Rasapanchaka	<ul> <li>Rasa: Kashaya, Katu ,Tikta, Amala, Madhura</li> <li>Guna: Laghu, Ruksha</li> <li>Virya: Ushna</li> <li>Vipaka: Madhura</li> <li>Doshaghnata: Tridoshahara</li> </ul>
Karma	<ul> <li>Vedanasthapana, Rasayana, Vranashodhana, Vranaropana, Brimhaniya, Dipana, Pachana, Medhya, Krimighna, Kushthaghna, Chakshushya, Anulomana.</li> <li>Externally:         <ul> <li>Vraṇashodhana-Ropaṇa, Vedanasthapana, Shothahara.</li> </ul> </li> <li>Internally:             <ul></ul></li></ul>
Rogaghnata	<ul> <li>Vibandha, Aruchi, Udavarta, Gulma, Udararoga, Arsha, Pandu, Shotha, Jirnajwara, Vishamajwara, Prameha, Shiroroga, Kasa, Tamakashwasa<sup>i</sup></li> </ul>
Chemical constituents	Tannic acid, chebulinic acid, glycoside, anthraquinones, Chebulegic acid, Tercnebin, Vutamin C, Benzoic, srearic acid (flower), malic acid (leaves) and polyphenolic compounds <sup>ii</sup> .

## 3. BIBHITAKI

Latin Name	Terminalia belerica Roxb.		
Family	Combretaceae		
Synonyms	Aksha, Karshaphala, Karshaphala, Bhutavasa, kalidruma,		
	Karnaphala.		
Vernacular Name	English Name: Beleric Myrobalan		
	Hindi Name: Baheda, Finasa, Bahera		
Classical	Charakasamhita: Jvarahara Mahakashaya, Virechanopaga		
Categorization:	Mahakashaya		
	Sushrutasamhita: Triphala Gana, Mustadi Gana		
	• Vagbhata: Mustadi.		
Part Used	Fruit rind, Seed, seed kernal		

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Rasapanchaka	Rasa: Kashaya	
	• Guna: Ruksha, Laghu	
	• Virya: Usana	
	• Vipaka: Madhura	
	• <b>Doshakarma:</b> Kaphahara, Tridoshaghna	
Karma	Kaphapittajita, Bhedaka, Kruminasana, Chakshusya, Keshya,	
	Kasahara <sup>iii</sup>	
	• Externally:	
	Shothahara, Vedanasthapana, Raktastabhana	
	• Internally:	
	It is useful in Kasa, Krimi. Fruits are useful in Bronchitis, sore throat,	
	inflammation, Asthma, etc. The bark is useful in Anaemia and	
	leucoderma.	
Rogaghnata	Svarabheda, Netraroga, Kasa, Pittajvara, Mamsa-Medo-	
	Dosha, Chhardi, Krumiroga, Vibandha <sup>iv</sup> .	
Chemical	Gallic acid, tannic acid, ellagic acid, fructose, galactose,	
constituents	mannitol, bellericanin and glycosides <sup>v</sup> .	

## 4. AMALAKI

Latin Name	Emblica officinalis Gaertn.		
Family	Euphorbiaceae.		
Synonyms	Vayastha, Vrushya, Jatiphalarasa, Shiv, Dhatriphala, Shreephala,		
	Amrutaphala		
Vernacular Name	English Name: Indian Gooseberry		
	Hindi Name: Amla, Aonla		
Classical	• Charak: Jvaraghna, kasaghna, Virechnopaga, Kusthaghna,		
Categorization:	Vayasthapana.		
	Shushruta: Amalakyadi, Parushkadi, Triphala.		
	Vagbhata: Parushakadi.		
Part Used	Root, Bark, Leaf, Fruit, Seed.		
Rasapanchaka	Rasa: Amlapradhana, Pancharasa (Lavanavarjita)		
	• Guna: Laghu, Sara, Mrudu, Ruksha		
	Virya: Sheeta		
	• Vipaka: Madhura		
	• <b>Doshakarma:</b> Tridoshashamaka		
Karma	• Chedana, Upasho-shana, Kledashodhana, Vrishya, Rasayana,		
	Medhya		
Rogaghnata	• Prameha, Jwara, Adhmana, Shosha, Trushna, Raktapitta,		
	Amlapitta, Daha. <sup>vi</sup>		
Chemical	• Its fruit contains vit C, phyllemblin, linolic acid, indole acetic		
constituents	acid, terchebin, corilagin, ellagic acid and phyllembic acid.		
	In root, ellagic acid, lupeol, and oleanolic aldehyde are present.		

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Bark - leucodelphinidin, procyanidin, tannin etc.		
	<ul> <li>Ascorbic acid and gallotannins<sup>vii</sup>.</li> </ul>	
Actions & Uses  • The fruits are astringent, cooling, anodyne, carmidigestive, laxative and tonic.		
Useful in dyspepsia, colic, flatulence, hyperacidity, ulcer, headache, anaemia.		

# 5. MUSTA

Latin Name	Cyperus rotundus Linn.	
Family	Cyperaceae	
Synonyms	Varida, Mustaka, Kuruvinda	
Vernacular Name	English Name: Nut grass	
	Hindi Name: Motha	
Classical	• Charakasamhita: Lekhaniya, Trishnanigrahana,	
Categorization:	Kandughna.	
	• Sushrutasamhita: Mustadi, Vachadi.	
	• Vagbhata: Mustadi, Vachadi.	
Part Used	Rhizome	
Rasapanchaka	Rasa: Tikta, Katu, Kashaya	
	• Guna: Laghu, Ruksha	
	Virya: Sheeta	
	Vipaka: Katu	
	Doshakarma: Kaphapittashamaka	
Karma	• Dipana, Ama-pachana, Lekhana, Shothahara, Grahi,	
	Krumighna, Vishaghna	
Rogaghnata	• Aruchi, Atisara, Agnimandya, Trisna, Raktavikara, Kasa,	
	Mutrakrichha, Rajorodha, Stanyavikaara, Charmavikara,	
	Kandu, Kushtha, Jvara, Dourbalya, Visha,	
	Mastishkadourbalya, Vatarakta, Madatyaya, Vrana.	
Chemical	• Cineol copadiene, copaene, cyperen 1 & 2, cyperenone,	
constituents	isopatchoulenone, cyperotundone, cyperol, cyperolone, æ –	
	cyperone, epoxyguaiene, isocyperol, isokobusone, kobusone,	
	mustakone, patchulene, rotundone, æ & ß selinene, sugenol, ß	
	sitosterol etc.	
Actions & Uses	Useful in anorexia, flatulence, colic, vomiting, dysentery.	

## 6. PIPPALI

Latin Name	Piper longum Linn.	
Family	Piperaceae	
Synonyms	Pippali, Maagadhi, Vaidehi, Kanaamula, Katushna, Chapala,	
	Ushna, Upkulya, Tikshnatandula, Chatakshira, Ushna.	
Vernacular Name	English Name: Piper	

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	Hindi Name: Pipppali	
Classical	Charakasamhita: Kasahara, Shoolaprashamana	
Categorization:	Sushrutasamhita: Pippalyadi, Shirovirechana	
Part Used	• Fruit	
Rasapanchaka	Rasa: Katu	
	• Guna: Laghu, Snigdha, Tikshna	
	Virya: Anushna Sheeta	
	Vipaka: Madhura	
	Doshakarma: Kaphavatashamaka	
Karma	• Deepana, Vatanulomana, vatahara, Jantughna, Medhya,	
	Balya, Krimighna, Rasayana	
Rogaghnata	• Agnimandya, Aruchi, Ajirna, Gulma, Krimiroga, Arsha,	
	Pandu, Daurbalya, Pleehavriddhi	
Chemical	• Two alkaloids piper longumine and piper longuminine,	
constituents	zingiberene, piperine, piplartine, carbonyl compound,	
	alkaloids pipemonanaline, piprunde caalidine.	
Actions & Uses	Dried spikes are carminative, tonic, laxative, digestive, and	
	antiseptic. They are useful in anorexia, dyspepsia, flatulence,	
	colic, diarrhoea, gastric disorders.	

# 7. SUNTHI

7. 50111111			
Latin Name	Zingiber officinale Roxb.		
Family	Zingiberaceae		
Synonyms	Kaphari, Vishva, Nagara, Mahausadha, Visvabhesaja		
Vernacular Name	English Name: Ginger		
	Hindi Name: Sonth		
Classical	• Charakasamhita: Truptighna, Deepaniya, Arshoghna,		
Categorization:	Shoolaprashamana		
	• Sushrutasamhita: Pippalyadi, Trikatu		
	Bhavprakash: Panchakola, Shadushana		
Part Used	Rhizome		
Rasapanchaka	• Rasa: Katu		
	• Guna: Laghu, Snigdha		
	• Virya: Ushna		
	• Vipaka: Madhura		
	Doshaghnata: Vata-Kaphashamaka		
Karma	• Vedanasthapana, Vatashamaka, Sheetaprashamaka,		
	Rochana, Deepana, Pachana, Triptighna, Vatanulomana,		
	Bhedana, Grahi		
Rogaghnata	• Aruchi, Chhardi, Agnimandya, Ajirna, Vibandha, Anaha,		
	Gulma, Udarashoola, Arsha, Hridroga, Sheetapita		

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Chemical constituents	Heptane, isovaloraldehyde, camphene, casinine, myrecene, limonene, gingerol, zingerone, ginger glycolipids A, B, C, gingersols, cysteine, leucine and arginine		
Actions & Uses	• The dry ginger is emollient, appetizer, laxative, stomachic, stimulant, anthelmintic and carminative. It is useful in dyspepsia, piles, hyperacidity, abdominal pain and vomiting.		

# 8. JIRAKA

Latin Name	Coming and I has	
Latin Name	Cuminum cyminum Linn.	
Family	Apiaceae	
Synonyms	Medhya, Ajaji, Dipaka, Dirghaka, Auttara Patha, Jarana	
Vernacular Name	• English Name: Cumin seeds	
	Hindi Name: Safeed Jeera	
Classical	Charakasamhita: Shoolaprashamana	
Categorization:	• Sushrutasamhita: Pippalyadi	
	Vagbhata: Pippalyadi	
Part Used	• Fruits	
Rasapanchaka	• Rasa: Katu	
	• Guna: Laghu, Ruksha	
	• Virya: Ushna	
	Vipaka: Katu	
	Doshaghnata: Kapha-Vata shamaka	
Karma	<ul> <li>Vrushya, Deepana, Pachana, Garbhasaya Shodhaka, Grahi</li> </ul>	
Rogaghnata	• Krimi, Jirna Jwara, Adhmana, Kustha, Grahani, Atisara,	
	Gulma, Netra roga.	
Chemical	• It contain 3.5 to 5.2 % volatile oil called as tymene. Cuminin,	
constituents	diacyl glycerol, oxalic, cuminaldehyde, p-cymene etc.	
Actions & Uses	The paste is an anti-inflammatory and analgesic action. It	
	alleviates the inflammation of uterus it is also a galactogogue	
	and aphrodisiac. It is used in leucorrhoea.	

# 9. KRISHNAJIRAKA

Latin Name	Carum carvi Linn.	
Family	Apiaceae	
Synonyms	Asitajiraka, Krishnajiraka	
Vernacular Name	English Name: Black Caraway	
	Hindi Name: Kala Jeera	
Part Used	• Fruits	
Rasapanchaka	• Rasa: Katu	
	• Guna: Laghu, Ruksha	
	Virya: Ushna	

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	<ul> <li>Vipaka: Katu</li> <li>Doshaghnata: Kapha-Vata shamaka</li> </ul>
Karma	Deepana, Aruchi, Agnimandya, Mukha durgandhanashana
Rogaghnata	Ajirna, Gulma, Udarashoola, Krimi
Chemical constituents	• The major compounds occurring in caraway are carvacrol, carvone, α-pinene,limonene, γ-terpinene, linalool, carvenone, and p-cymene, whereas the major compounds occurring in cumin are cuminaldehyde, limonene, α- and β-pinene, 1,8-cineole, o- and p-cymene, α- and γ-terpinene, safranal and linalool.
Pharmacological actions	• It possess anti-oxidant, diuretic, anti-diabetic, anti-microbial activities.
Actions & Uses	<ul> <li>Caraway was used for gastrointestinal cramps and feelings of fullness, as well as nervous cardiac-gastric complaints, in spasmodic gastrointestinal complaints, flatulence, irritable stomach, indigestion, lack of appetite, dyspepsia in adults, and in relieving flatulent colic of infants.</li> </ul>

## 10. LAUHA BHASMA

<b>Latin Name</b>	Ferrum.		
Rasapanchaka	• Rasa: Tikta, Madhura, Kashaya		
	• Guna: Guru, Ruksha		
	• Virya: Sheeta		
	• Vipaka: Madhura		
	Doshaghnata: Kapha-Pitta shamaka		
Karma	Deepana, Lekhana, Balya, Medhya, Vrishya, Rasayana,		
	Sarvavyadhihara		
Rogaghnata	• Raktapitta, Kasa, Shwas, Palita, Shula, Amlapitta, Pandu,		
	Kamala, Mutrakriccha		

Table No. 2: Average of Pharmacodynamics of Vidangadi Lauha

Properties	Observations in Vidangadi Lauha		
	Total No. of Drugs	Percentage%	
Rasa			
Madhura	3/10	30	
Amla	2/10	20	
Katu	8/10	80	
Lavana	0/10	00	
Tikta	4/10	40	
Kashaya	6/10	60	
Guna			
Guru	2/10	20	

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Laghu	8/10	80
Ruksha	8/10	80
Snigdha	2/10	20
Tikshna	2/10	20
	Vipaka	
Madhura	6/10	60
Katu	4/10	40
	Virya	
Ushna	6/10	60
Sheeta	3/10	30
Anushna Sheeta	1/10	10
	Doshaghnata	
Tridoshahara	4/10	70
Kapha-Vatahara	5/10	80
Kapha-Pittahara	1/10	10
	Karma	
Dipana	8/10	80
Vrushya	7/10	70
Pachana	6/10	60
Rasayana	5/10	50
Anulomana	4/10	40
Medonashaka	4/10	40
Trushnanigraha	4/10	40
Balya	4/10	40
Lekhaniya	3/10	30
Chakshushya	3/10	30
Dahaprashamana	1/10	10

#### 4. DISCUSSION

In Ayurveda, disease diabetes mellitus can be correlated with Madhumeha. It is Tridoshaja in origin with predominance of Kapha. The ingredients of Vidangadi Lauha consists of Vidanga, Triphala, Musta, Pippali, Sunthi, Jiraka, Krishnajiraka, and Lauha Bhasma. There are many drugs are described alone or in combination in various Ayurvedic classics in Madhumeha. One of the main content (9 parts) in the Vidangadi Lauha is Lauha. It mainly acts on Mutravaha Srotas. It is effective on main dosha i.e. Apana Vayu.

Vidangadi Lauha showed the dominance of Kashaya, Katu and Tikta Rasa. Katu Vipaka and Ushna Virya with the dominance of Ruksha and Laghu Guna. Therefore they are effective on main Dushya i.e. Bahudrava Shleshma. It is able to control Kaphadosha & Medodushti mainly, which are main Dushya in Madhumeha. Majority of Dravya have Agnideepana, Amapachana, Rasayana, Vushya, Anulomana, Trushna nigraha, Chakshusya, Lekhana and Medohara properties. Rasayana property helps in reducing Daurbalya, Klama, Hasta-padatala Daha and Karpada Suptata.

All the Dravya have Deepana Pachana properties mainly Deepana, Pachana property reduces

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the Ama present in the body. Its helps to improve disturbed metabolism. Therefore, it mainly acts on Dhatvagnimandya and has been proved very effective in all sign and symptoms like Shithilangta, Aalasya, Visrshariragandha, Tantra, Trushnanigraha and property reducing Pipasa. (Table 1 & 2).

Vidangadi Lauha has pharmacological activity like anti-oxidant and anti-diabetic effect and in reducing the blood sugar level could be due to the antioxidant mechanisms, free radical scavengers which is a key step .

### 5. CONCLUSION

The classical formulation Vidangadi Lauh is a very unique which finds its great utility in management of Medumeha (Diabetes mellitus Type - II) and therefore need scientific evaluation through pharmacological and clinical studies to validate the same. Large scale manufacturing and multiples of clinical trials can be useful for generation of large amount of clinical trial data.

### **CONSENT**

It is not applicable.

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### **COMPETING INTEREST**

Authors have declared that no competing interest exist.

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