

# Documentation of *Kalikkam* (Collyrium) Preparations in *Vida Nilai* (Toxic State) Prescribed in Selected Classical Siddha Literature

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## ABSTRACT

Siddha system is one of the traditional systems of medicine in India. In Siddha, toxicology is a branch which deals with fatal dose, fatal period of toxic substances or toxins and how the toxins affect the human body and also provided the Internal and External treatment methods. Siddha Medicine treats a wide range of toxins ranging from Plant bio toxins to animal bio toxins. Kalikkam (Collyrium) which is one among the 32 external therapies mentioned in Siddha literatures is administered in various illness and toxic condition. In this study Kalikkam (Collyrium) preparations from various Siddha classical literatures were piled for various toxic states such as Snake bite, Rat bite, Scorpion sting and Dog bite etc. The number of herbal and herbo mineral preparations were listed. The repeated preparations from various Siddha literatures were tabulated. The most frequently used Solvents, Metals, Minerals, Plants and Most frequently prescribed *Vida nilaigal* were identified and mentioned.

**Key words:** Kalikkam, Siddha, *Vida nilai*, Collyrium, Literatures.

## INTRODUCTION

Siddha system is one of the oldest systems of medicine in India. In Siddha, toxicology is a specialized branch that explores the lethal dosage, fatal period, and the impact of toxic substances on the human body and provides internal and external treatment methods. Out of these two treatment methods, external medicines play a major role when the person is unconscious or unable to have internal medicine. External medicines are administered during emergency condition also for effective results.

Siddha system consists of 32 external treatment methods and most of the external treatment methods are used in the toxic conditions. Kalikkam (Collyrium) is a one of the external methods to treat various toxic condition. According to Therayar tharu, Kalikkam is placed in eleventh place at 32 external therapies. It is a liquid medicine applied on the mucous membrane of eyes. Kalikkam (Collyrium) mode of therapy in toxic states have been collected

from various Siddha literature and are listed here. Further studies are required to evaluate the effects of Kalikkam (Collyrium) treatment modality for Vidanilaigal (Toxic states) and we shall bring the treatments in practice as mentioned in Siddha literatures.

### KALIKKAM (COLLYRIUM):

Kalikkam (Collyrium) is a liquid medicine applied on the mucous membrane of eyes. It is prepared by crushing and extracting the liquid juice from fresh plant parts or packed in a cloth and soaked in a liquid and then the liquid juice extracted. Then the extracted juice is instilled into eyes. Kalikkam (Collyrium) is first instilled into left eye and then into right eye. Generally, kalikkam (Collyrium) is instilled into the eye upto 1-5 drops.

### Types:

According to the physical nature and administration, it is classified into,

- Fresh plant juice
- Dry raw drugs packed in a bundle and soaked in juice or sterile water.

### MECHANISM:

The anatomy and vasculature of the eye is such that any drug applied to the eye gets ready access to the brain and enters circulation readily. In kalikkam, the drugs

can be delivered to ocular tissue as eye drops and eye ointment act locally via corneal epithelium then distributed to the systemic circulation. In this type administration of drugs are faster and elimination of excess drug through nasolacrimal drainage.

### MATERIALS & METHODS:

#### AIM:

To document the prescribed Kalikkam (Collyrium) Preparations for Various Vidanilaigal (toxic state) in selected classical Siddha Literatures.

#### STUDY DESIGN:

Literature review

#### STUDY PERIOD:

4 Months.

#### STUDY SETTING:

Data were collected from Siddha textbooks, journals, research articles to tabulate the preparations of Kalikkam (Collyrium) treatment in treating toxic states. The text collected were from about 16 books from Library of Government Siddha Medical college - Palayamkottai, Library of National Institute of Siddha - Chennai and Anna Centenary Library of Chennai.

### RESULTS

#### LITERATURES:

### 1. THERAIYAR YAMAHA VENBHA – PART III (1<sup>st</sup> EDITION - 2011)

S.NO	PREPARATIONS	TYPE OF POISONS	PG.NO
1	Take equal amount of Chukku ( <i>Zingiber officinale</i> ), Milagu ( <i>Piper nigrum</i> ), Thippili ( <i>Piper longum</i> ) and Salt are grinded with vilva pathiri ( <i>Aegle marmelos</i> ) juice and make into pills and dry it. Then mix it with water before use.	All type of poisonous bites	166

### 2. ANUBAVA VAIDHYA DEVA RAGASIYAM - 1991

S.NO	PREPARATIONS	TYPE OF POISONS	PG.NO
1	Take purified water 1 ounce (30ml) and mix it with padikaaram (Alum) or common Salt 5 kundri (650mg). Then filtered and use 2 drops.	Scorpion sting	675

### 3. SARABENDIRA VAIDYA MURAIGAL (VISHAROGA SIGICHAI) [5<sup>th</sup> EDITION- 2005]

S.NO	PREPARATIONS	TYPE OF POISON	PG.NO
1	Peipeerku ( <i>Luffa acutangula</i> ) seed powder mixed with vetrilai ( <i>Piper betle</i> )	All type of	3

	juice on the bronze plate. Then keep it under the sunlight, later thailam is discharged. Take ½ payaralavu (31mg) thailam and apply on the eye.	poisons	
2	Maavilangam ( <i>Crateva religiosa</i> ) root, Soaked in Avuri ( <i>Indigofera tinctoria</i> ) juice. Then mixed it water and apply ½ payaralavu (31mg) for both eyes.	All type of poisons	23
3	Take equal parts of poondu ( <i>Allium sativum</i> ), Milagu ( <i>Piper nigrum</i> ) and Salt. Then it is grinded well and make into milagu (50mg) Size pills. Allow them to dry. Then take a pill and mix it with vetrilai ( <i>Piper betle</i> ) extract.	Snake bite (Viper)	24
4	Take vellai kundrimani ( <i>Abrus precatorius</i> ) root and grind with new born baby's urine.	Scorpion sting	82
5	Take Kuppaimeni ( <i>Acalypha indica</i> ) and Venthayam ( <i>Trigonella foenum-graecum</i> ) each 2 kazhanju (10gm), purified Seppu (Copper) powder 1 kazhanju (5gm), Purified Thurusu (Copper sulphate) and Purified Thuththam (Zinc sulphate) ½ kazhanju (2.5gm). Grinded them with Puliylai (Tamarind leaf) juice and make into pills. Then mix it with Saaranai ( <i>Boerhavia diffusa</i> ) juice before use.	All type of poisons	165
6	Take Chukku ( <i>Zingiber officinale</i> ), Tippili ( <i>Piper longum</i> ), Milagu ( <i>Piper nigrum</i> ), Vasambu ( <i>Acorus calamus</i> ), Indhuppu (Rock salt), Koathalangai ( <i>Barringtonia racemosa</i> ) and Vengaayam ( <i>Allium cepa</i> ) each 1 varagan (4gm). All of them powdered and Grinded with Lemon juice and make into pills and dry it. Then mix it with water before use.	All type of poison bites	202

#### 4. PULIPPAANI VAIDHYAM – 2008

S. No	PREPARATIONS	TYPE OF POISONS	PG.NO
1	Sirupeelai ( <i>Aerva lanata</i> ) crushed and extract the juice.	All type of poisons	44

#### 5. VISHA VAIDHYA SINDHAMANI - 1931

S.NO	PREPARATIONS	TYPE OF POISON	PG.NO
1	Paranjothi Mai: Take Thaa eesal and roasted vengaram (Borax) powder in a ceramic bowl and place it in sunlight, oil gets separated from mixture. Then take Rasam (Mercury), Kanthagam (Sulphur), Indhuppu (Rock salt), Perungayam ( <i>Ferula asafoetida</i> ), Chukku ( <i>Zingiber officinalae</i> ) and Neem ( <i>Azadirachta indica</i> ) kernel each 1 kazhanju (5g) are grind with 3 kazhanju (15g) of above prepared oil and store it in a container.	Dog / Rat bite	54
2	Paranjothi Maththirai: Thippili ( <i>Piper longum</i> ), Milagu ( <i>Piper nigrum</i> ), Indhuppu (Rock salt), Perungayam ( <i>Ferula asafoetida</i> ), Palupaagal ( <i>Momordica diocia</i> ) tuber, Kollan kovai ( <i>Corallocarpus epigaeus</i> ) tuber, Nabhi ( <i>Aconitum ferox</i> ) tuber, Aadutheendapaalai ( <i>Aristolochia bracteata</i> ) root, Sootham (Mercury), Kanthagam (Sulphur), Illupai ( <i>Madhuca longifolia</i> ) kernel, Chenbagam ( <i>Michelia champaca</i> ) root, Iruvachi ( <i>Jasminum sambac</i> ) root, Murungai ( <i>Moringa oleifera</i> ) root, Kaanchirai ( <i>Strychnos nux-vomica</i> ) root, Nervaalam ( <i>Croton tiglium</i> ) kernel each 1 varaganedai (4g) is taken and powdered. This is placed inside a Moonjuru (Shrew rat) abdomen and sealed and then buried deep for 1 mandalam (45 days). Then the contents are taken out grinded with peipeerku ( <i>Luffa acutangula</i> ) extract and made into tablets of panavedai (488mg).	All type of poisons	55
3	Take equal amount of indhuppu (Rock salt), Thagattuarithaaram (Yellow Arsenic), Rasam (Mercury) and Kaayam ( <i>Ferula asafoetida</i> ) are grinded with peipeerku ( <i>Luffa acutangula</i> ) plant extract for 2 days. Make into small Pills & dry it. Then mix it with saliva before use	All type of poisons	58
4	Sithaantha Pirisa Maththirai: Take equal amount of Magizham ( <i>Mimusops elangi</i> ) seeds, Devathaali ( <i>Luffa Echinata</i> ) seeds, Peipeerku ( <i>Luffa acutangula</i> ) seeds, Rasam (Mercury) and Nervaalam ( <i>Croton tiglium</i> ) are grinded with lemon juice and make into pills and dry it. Then mix it with urine before use.	All type of poisons	59
5	Take Indhuppu (Rock salt), Perungayam ( <i>Ferula asafoetida</i> ), Rasam	Snake bite	59

	(Mercury)&Arithaaram (Yellow arsenic) are grind with peipeerku ( <i>Luffa acutangula</i> ) leaf extract. Make into pills and dry it. Then mix it with Vetrilai ( <i>Piper betle</i> ) Juice and apply on eye.		
6	Erukku ( <i>Calotropis gigantea</i> ) leaf and Pugaiyilai ( <i>Nicotiana tobacum</i> ) is crushed and extract the Juice.	Snake bite	81

## 6. VISHA VAIDHYA AARUDA NOOLGAL (1<sup>st</sup>EDITION-2000): KARUDA PANCHATSARA AARUDAM

S.NO	PREPARATIONS	TYPE OF POISONS	PG.NO
1	Take equal amount of Azingil ( <i>Alangium salviifolium</i> ) seeds, Thurusu (Copper sulphate), Thuththam (Zinc sulphate), Murungai ( <i>Moringa oleifera</i> ) seeds, Iluppai ( <i>Madhuca longifolia</i> ) pinnakku and Milagu ( <i>Piper nigrum</i> ) aregrinded with egg white and lemon juice and make into small pills and dry it. Then mix it with urine before use.	All type of poisons	59
2	Take equal amount of Kanthagam (Sulphur), Perungaayam ( <i>Ferula asafoetida</i> ), Porikaaram (Borax), Arithaaram (Yellow Arsenic) and Maampisin (Resin of <i>Mangifera indica</i> ) are grinded with peipeerku ( <i>Luffa acutangula</i> ) juice and make into pills and dry it. Then mix it with urine before use.	All type of poisons	60
3	Take equal amount of Kanthagam (Sulphur), Magizam ( <i>Mimusops elengi</i> ) seeds, Sootham (Mercury), Peru Vengaayam ( <i>Allium cepa</i> ) and Vasambu ( <i>Acorus calamus</i> ) are grinded with peipeerku ( <i>Luffa acutangula</i> ) juice. Then put hole into the Moonjuru (shrew rat) abdomen and filled with above grinded things and suture it. After 8 days all of them grinded and dry it. Then mix it with urine before use.	All type of poisons	60
4	Poovanthi ( <i>Sapindus emarginatus</i> ) fruit, Etti ( <i>Strychnos nux-vomica</i> ), Perungaayam( <i>Ferula asafoetida</i> ), Milagu ( <i>Piper nigrum</i> ), Iluppai ( <i>Madhuca longifolia</i> ) pinnakku, Azingil ( <i>Alangium salviifolium</i> ) seeds and thakkali ( <i>Solanum lycopersicum</i> ) are grinded with urine and make into pills and dry it. Then mix it with urine before use.	All type of poisons	60
5	Take Sootham (Mercury) Nel alavu (20mg) and grinded with Avuri ( <i>Indigofera tinctoria</i> ) leaf extract.	All type of poisons	60
6	Thaivelai ( <i>Cleome gynandra</i> ), Salt and Milagu ( <i>Piper nigrum</i> ) are grinded with urine and extract the juice.	Snake bite (Cobra)	57
7	Take equal amount of Nabhi ( <i>Aconitum ferox</i> ), Kaayam ( <i>Ferula asafoetida</i> ), Kosttam ( <i>Cheilocostus speciosus</i> ), Vaalam ( <i>Croton tiglium</i> ), Azingil ( <i>Alangium salviifolium</i> ) seeds, Peipeerku ( <i>Luffa acutangula</i> ) seeds and Etti ( <i>Strychnos nux-vomica</i> ) seeds are grinded with lemon juice and make into payaralavu (42mg) pills and dry it. Then mix it with urine before use.	All type of poisons	58

## SARPPA VISHA AARUDAM

S. No	PREPARATIONS	TYPE OF POISON	PG.NO
1	Take equal amount of Milagu ( <i>Piper nigrum</i> ), Vasambu ( <i>Acorus calamus</i> ), Vellulli ( <i>Allium sativum</i> ), Sinni ( <i>Acalypha fruticosa</i> ) and Perungayam( <i>Ferula asafoetida</i> ) are crushed and take the extract to use.	All type of poisons	109

## NAAGAR VISHA AARUDAM

S. NO	PREPARATIONS	TYPE OF POISON	PG.NO
1	Saaranai( <i>Trianthema decandra</i> ) root is grinded with milk and make into pills. Then mix it with lemon juice before use.	Pudaiyan (Wart snake) bite	138
2.	Poovanthi( <i>Sapindus emarginatus</i> ) fruit, kodiveli ( <i>Plumbago zeylanica</i> ), Etti ( <i>Strychnos nux-vomica</i> ) seeds and Vetpalai ( <i>Wrightia tinctoria</i> ) root are grinded with lemon juice and make in to pills. Then mix it with lemon juice before use.	Pudaiyan (Wart snake) bite	138

### THEVI AARUDAM

S NO	PREPARATIONS	TYPE OF POISON	PG NO
1	Ner vaalam ( <i>croton tiglium</i> ) seeds 30 and maathalai ( <i>Punica granatum</i> ) are grinded with lemon juice and make into pills. Then mix it with lemon juice before use.	Viriyam (Russell's Viper) Snake bite	184
2	Poovanthi( <i>Sapindus emarginatus</i> ) fruit, kodiveli ( <i>Plumbago zeylanica</i> ), Etti ( <i>Strychnos nux-vomica</i> ) seeds and Vetpalai ( <i>Wrightia tinctoria</i> ) root are grinded with lemon juice and make in to pills. Then mix it with lemon juice before use.	Viriyam (Russell's Viper) Snake bite	183
3	Take equal amount of Azingil ( <i>Alangium salviifolium</i> ) seeds, Thurusu (Copper sulphate), Thuththam (Zinc sulphate), Murungai ( <i>Moringa oleifera</i> ) seeds, Iluppai ( <i>Madhuca longifolia</i> ) pinnakku and Milagu ( <i>Piper nigrum</i> ) 1 palam (35g) are grinded with lemon juice and make into pills and dry it. Then mix it with vetrilai ( <i>Piper betle</i> ) juice before use.	All type of poisons	188

### SAKTHI AARUDAM

S.NO	PREPARATIONS	TYPE OF POISONS	PG.NO
1	Take equal amount of Magizham ( <i>Mimusops elangi</i> ) seeds, Azingil ( <i>Alangium salviifolium</i> ) seeds, Thurusu (Copper sulphate), Thuththam (Zinc sulphate), Murungai ( <i>Moringa oleifera</i> ) seeds and Milagu ( <i>Piper nigrum</i> ) 1 palam (35g). All of them powderd and grinded with egg white and lemon juice. Then make into pills and mix it with Vetrilai ( <i>Piper betle</i> ) juice before use.	All type of poisons	227

### MANTHIRA AARUDAM

S.NO	PREPARATIONS	TYPE OF POISONS	PG.NO
1	Take equal amount of Thurusu (Copper Sulphate), Thuththam (Zinc sulphate), Milagu ( <i>Piper nigrum</i> ) and Ner vaalam ( <i>Croton tiglium</i> ). All of them soaked and grinded with lemon juice and make into pills. Then mix it with Breast milk before use.	All type of poisons	381
2	Put the vaal milagu ( <i>Piper cubeba</i> ) inside the Sem paranthu (Red hawk) egg and bury it in the earth at a depth of 3 feet for 48 days. Then grinded with Mookkarasaaranai ( <i>Boerhavia diffusa</i> ) juice. Then mix it with Breast milk before use.	All type of poisons	383

### 7. THANJAI VAIDHYARAJA SINTHAMANI- PART I - 1940

S.NO	PREPARATIONS	TYPE OF POISONS	PG.NO
1	Milagu ( <i>Piper nigrum</i> ), Salt and Vetrilai ( <i>Piper bitle</i> ) are crushed and take the extract to use.	Snake bite	161

### 8. THANJAI VAIDHYARAJA SINTHAMANI- PART II - 1940

S.NO	PREPARATIONS	TYPE OF POISONS	PG.NO
1	Peipeerku ( <i>Luffa acutangula</i> ) seed powder mixed with vetrilai ( <i>piper bitle</i> ) juice. Then kept under the sun light,thailam will be discharged.	All type of poisons	184

### 9. GUNAPADAM THATHU - SEEVA VAGUPPU (PART 2&3) [2<sup>nd</sup> EDITION (REVISED)- 2009]

S.NO	PREPARATIONS	TYPE OF POISONS	PG.NO
1	Salt mixed with water and use few drops.	Scorpion sting	392

### 10. NANJU MURIVU NOOL (4<sup>th</sup> EDITION-2006)

S.NO	PREPARATION	TYPE OF	PG. NO
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		POISON	
1	Take equal amount of Perungayam ( <i>Ferula asafoetida</i> ), Arithaaram (Yellow arsenic), Venkaaram (Borax), Kanthagam (Sulphur), Indhuppu (Rock salt), Vaalarasam (Mercury) and Kadugu ( <i>Brassica nigra</i> ) are grinded with Peipeerku ( <i>Luffa acutangula</i> ) Plant extract. Then apply 130mg on eyes.	Snake bite	87
2	Umaththai ( <i>Datura metel</i> ) leaf juice.	Snake bite	101

### 11. AGASTHIYAR VAIDHYA PILLAI THAMIZH (1<sup>ST</sup>EDITION – 1998)

S.NO	PREPARATIONS	TYPE OF POISONS	PG.NO
1	Paathiri Kuzhambu or Vishaakraanam	Snake bite	160
2	Visha Mai	Snake bite	163
3	Visha Thailam: Take equal amount of peipeerku ( <i>Luffa acutangula</i> ) seeds, purified Ner vaalam ( <i>Croton tiglium</i> ) and Veppam ( <i>Azadirachta indica</i> ) seeds are grinded and put into copper plate. Then kept under the sun light, thailam will be discharged after 2 days and applied 1 kadugalavu (8mg).	All type of poisons	165

### 12. NANJU MARUTHUVAM (1<sup>ST</sup> EDITION-1993)

S.NO	PREPARATIONS	TYPE OF POISONS	PG.NO
1	Take Thumbai ( <i>Leucas aspera</i> ), Thulasi ( <i>Ocimum sanctum</i> ), Milagu ( <i>Piper nigrum</i> ), Salt and vetrilai ( <i>Piper betle</i> ) are crushed. Then collect its juice.	Snake bite	12

### 13. AGASTHIYAR VAIDHYA KAAVIYAM – 1500 (1<sup>ST</sup>EDITION - 1994)

S.NO	PREPARATIONS	TYPE OF POISONS	PG.NO
1	Uruthira Vida kalikkam: Take Kuppaimeni ( <i>Acalypha indica</i> ) 3 varaagan (12gm). Then ven thalaiyodu (White skull bone), Thamiram (Copper) powder, Thurusu (Copper sulphate) and Thuththam (Zinc sulphate) are each 1 kazhanju (5gm). All of them grinded with puli ( <i>Tamarindus indica</i> ) leaf juice and make into pills. Then mix it with Saaranai ( <i>Boerhavia diffusa</i> ) juice before use.	All type of poisons	830

### 14. AGASHTHIYAR AMUTHA KALAI GNANAM 1200 (1<sup>ST</sup>EDITION – 1996)

S.NO	PREPARATIONS	TYPE OF POISONS	PG.NO
1	Take equal amount of Chukku ( <i>Zingiber officinale</i> ), Milagu ( <i>Piper nigrum</i> ), Thippili ( <i>Piper longum</i> ), Thurusu (Copper Sulphate), Thuththam (Zinc sulphate), Arithaaram (Yellow Arsenic), Indhuppu (Rock salt) and kadugu rohani ( <i>picrorhiza kurrooa</i> ). Then take 1/4 <sup>th</sup> of pavalam (Coral). All of them grinded with lemon juice and make into pills and dry it. Then mix it with breast milk before use.	All type of poisons	261

### 15. THERAIYAR SEGARAPPA – PART II (1<sup>ST</sup>EDITION – 2010)

S.NO	PREPARATIONS	TYPE OF POISONS	PG.NO
1	Vida Nanju Kalikkam: Milagu ( <i>Piper nigrum</i> ) 1 palam(35g) grinded with 1 palam (35g) of blood collected from the tail of forest peacock for 2 days. Then added with Etti ( <i>Strychnos nux-vomica</i> ) seed 2 palam (70g) and grinded with lemon juice for 3 days. Then make into pills and mix it with kadugu ( <i>Brassica nigra</i> ) or Milagu ( <i>Piper nigrum</i> ) or Vetrilai ( <i>Piper betle</i> ) before use.	All type of Poisons	293
2	Nachchu Kalikkam: Take equal amount of Pon (Aurum Gold), Thurusu (Copper Sulphate), Perungaayam ( <i>Ferula asafoetida</i> ), Puli Moolai (Tiger brain) and	All type of poisons	295

	Thaalagam (Yellow Arsenic) are grinded with inji ( <i>Zingiber officinale</i> ) juice for 20 days and make into pills.		
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### 16. VISHAKADI, MOOLIGAI MARUTHUVANGAL - 1995

S.NO	PREPARATIONS	TYPE OF POISONS	PG.NO
1	Take Uththaamani ( <i>Pergularia daemia</i> ) root, grinded in Santhanakkal (Slate stone used for grinding sandal) with water.	Snake bite	5
2	Take equal amount of Poovarasam ( <i>Thespesia populnea</i> ) bark, Sitrakathiver ( <i>Sesbania sesban</i> ) bark and kariyuppu (Common Salt) are crushed and extract the juice.	Snake bite	5
3	Take Thurusu (Copper sulphate), Thuththam (Zinc sulphate), Milagu ( <i>Piper nigrum</i> ) and Nervaalam ( <i>Croton tiglium</i> ) each 1 kazhanju (5gm). All of them Soaked and grinded with Thesi ( <i>Citrus limen</i> ) fruit juice and make into payaralavu (62mg) pills. Then mix it with water before use.	All type of poison	18

As a result of the study around 47 Kalikkam (Collyrium) preparation have been collected from 16 literatures.

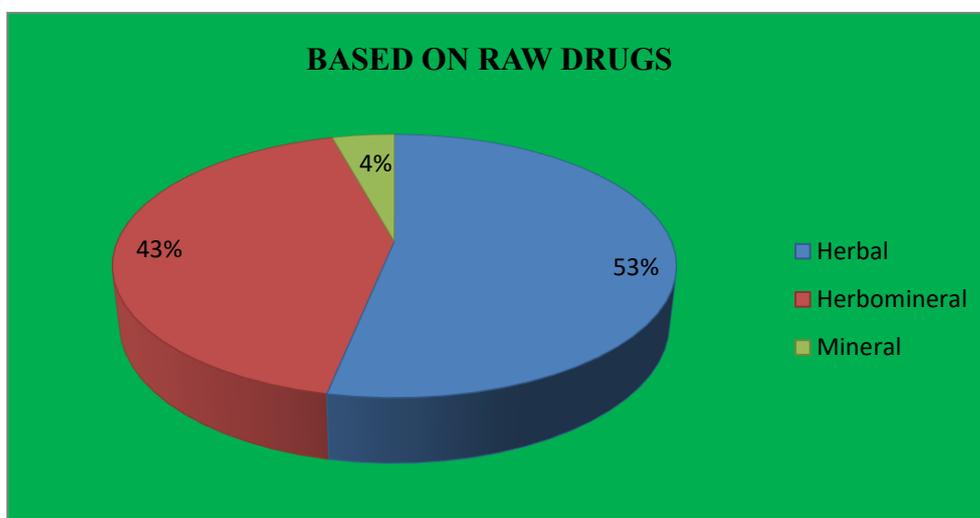


Fig 1. Preparations based on raw drugs

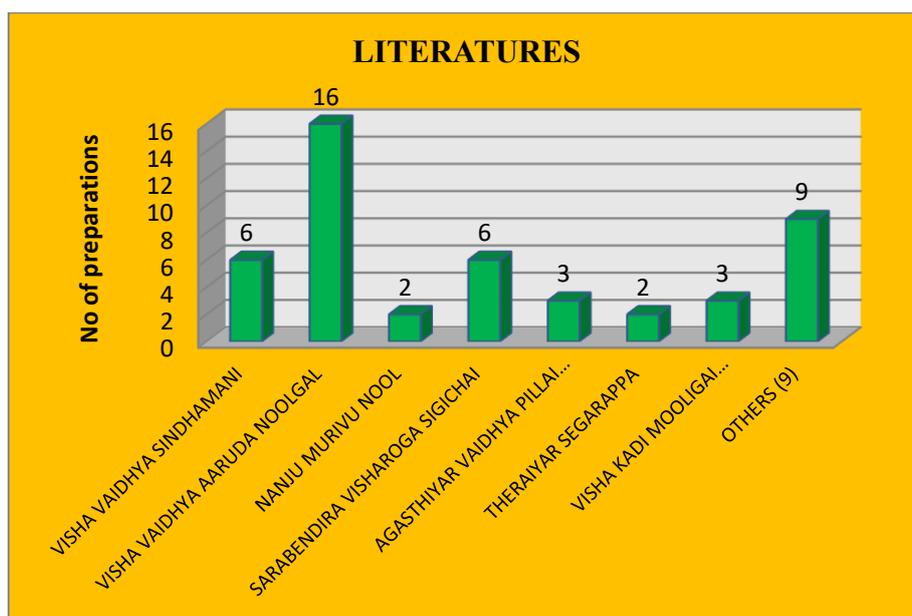


Fig 2. Literatures that are most number of preparations.

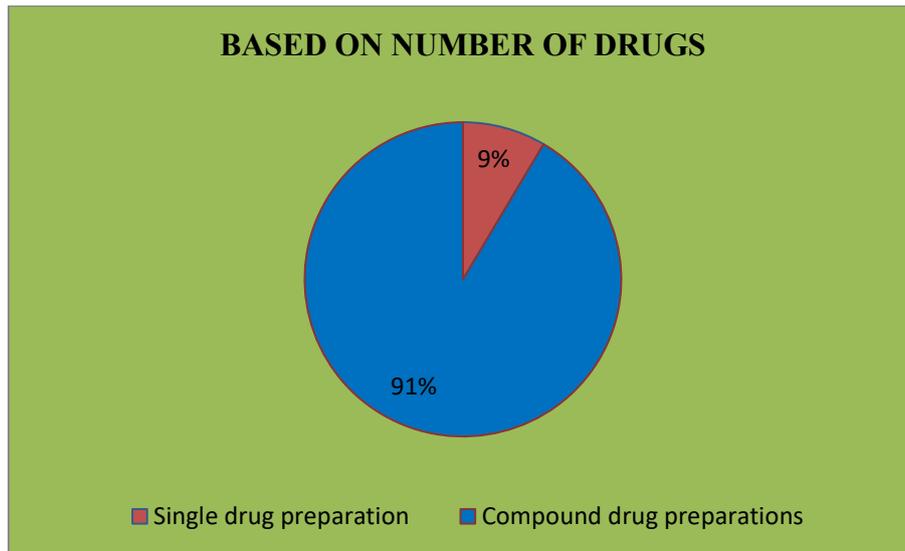


Fig 3. Number of Single and Compound drug preparations

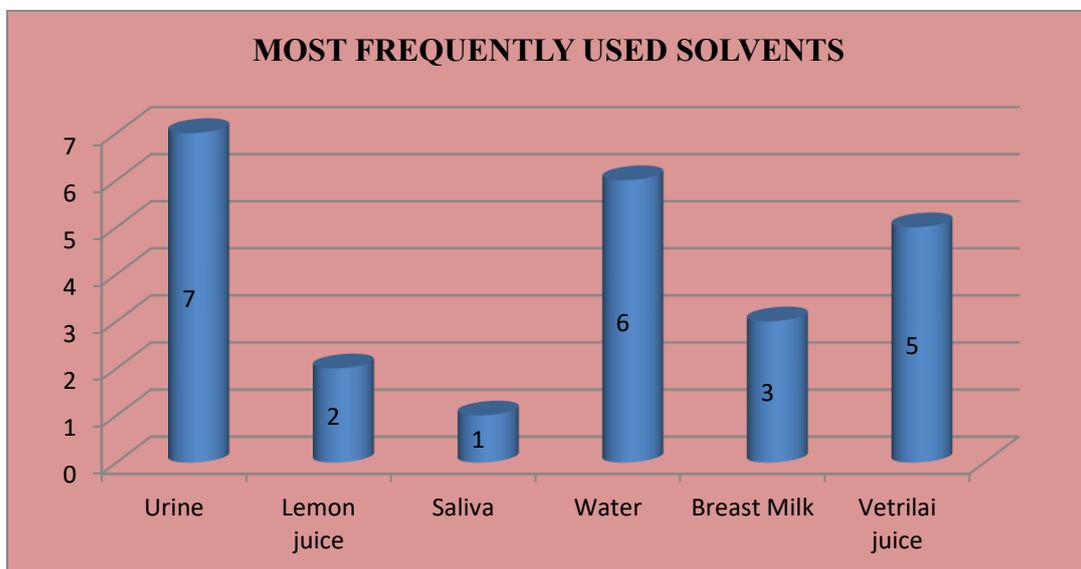


Fig4. Most frequently used solvents.

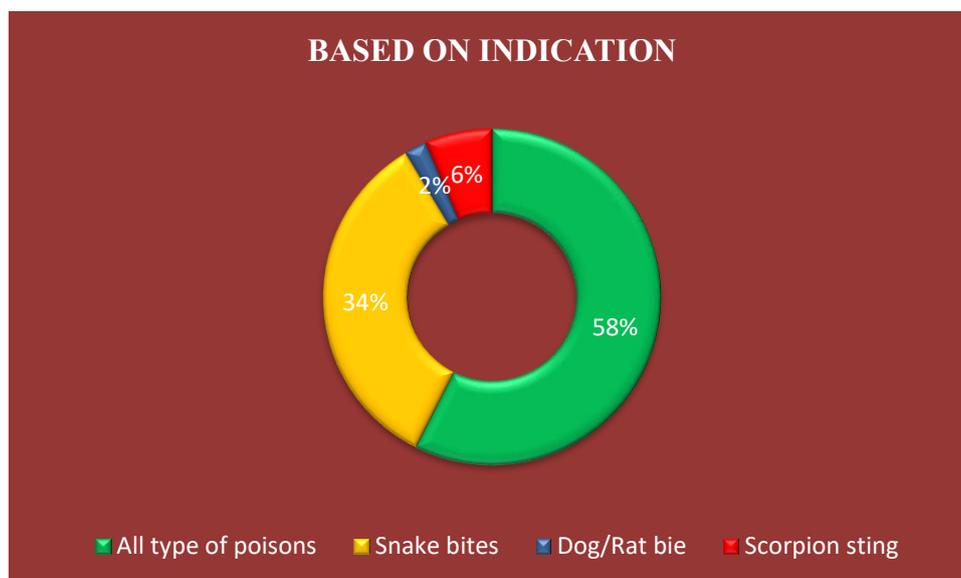


Fig5. Most frequently prescribed indication

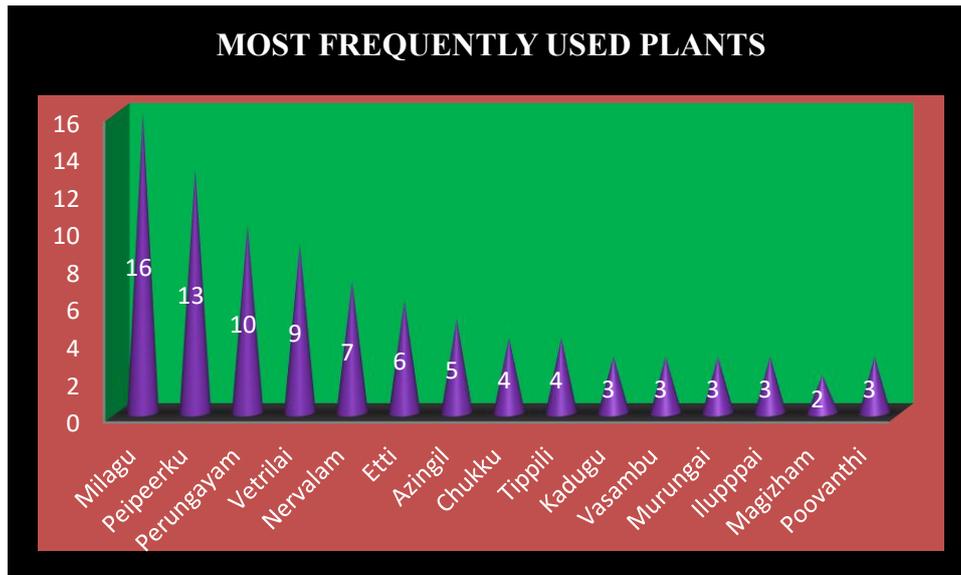


Fig 6. Most frequently used plants.

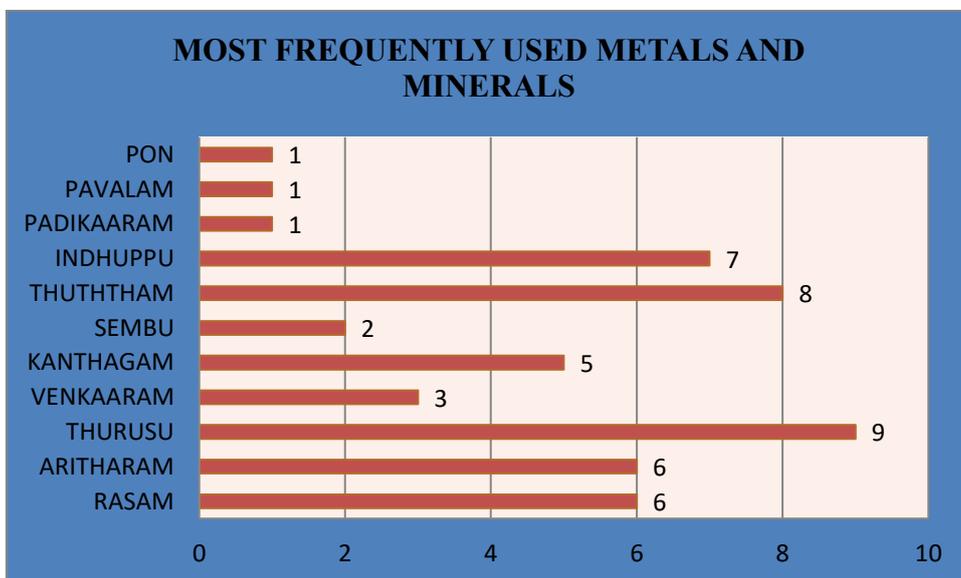


Fig 7. Most frequently used Minerals and Metals.

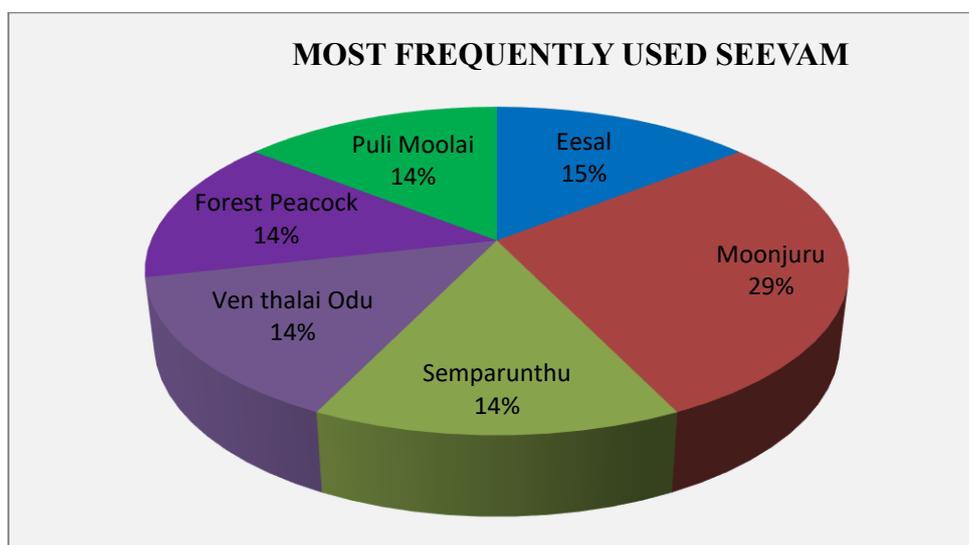


Fig 8. Most frequently used Seevam

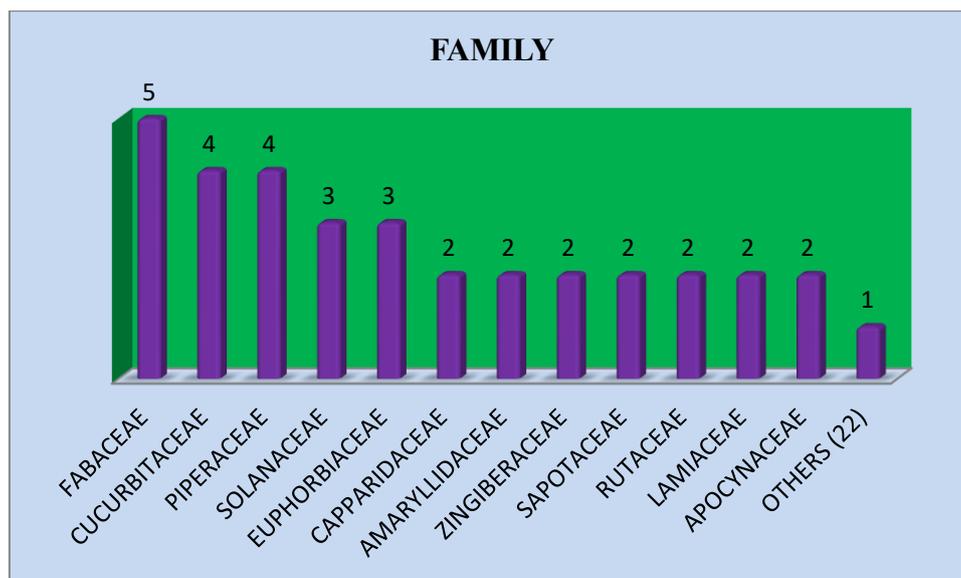


Fig 9. Family from which more number of Plants used.

## DISCUSSION

This study enumerates the list of Kalikkam (Collyrium) treatment modality in Vida nilai (Toxic state) from the literatures found in GSMC Central Library - Palayamkottai, Anna Centenary Library - Chennai and NIS Library - Chennai.

There were 47 Kalikkam (Collyrium) preparations have been collected from 16 literatures. Of the 47 preparations, 53% of the preparations were herbal, 43% were herbomineral and 4% were mineral preparations.

There were around 4 Single drug preparations and 43 Compound preparations which contribute about 9% and 91% respectively.

Out of these 47 preparations Most frequently used Solvent mentioned is Human Urine (7), Water (6), Vetrilai Juice (5), Lemon Juice (2) and Breast milk (3).

The preparations were listed from about 16 literatures and most preparations were from Visha vaidhya aaruda noolgal (34%), Visha Vaidhya Sindhamani (13%), Sarabendra Visha Roga Sigichai (13%), Nanju Murivu Nool (4%), Visha Kadi Mooligai Maruthuvangal (6%), Agasthiyar Vaidhya Pillai Thamizh (6%), Theraiyar Segarappa (4%) and other 9 books contributed to about (19%).

In these literatures, 58% of the preparations were prescribed for All type of poisons,

34% for Snake bite, 6% for Scorpion sting and 2% for Dog/Rat bite.

In this study around 56 plants were used in the listed preparations and the most frequently used plants were identified as Milagu (16), Peipeerku (13), Perungayam (10), Vetrilai (9), Nervaalam (7), Etti (6), Azingil (5), Chukku (4), Tippili (4), Kadugu (3), Vasambu (3), Murungai (3), Iluppai (3) and Magizham (3).

In this study some seevam were used in the listed preparations, were identified as Eesal (Winged white ant) (1), Moonjuru (Shrew rat) (2), Sem Parunthu (Red hawk) (1), Ven Thalai odu (White skull bone) (1), Forest Peacock (1) and Puli moolai (Brain of Tiger) (1).

Most frequently used Metals and Minerals were Thurusu (Copper Sulphate) (9), Thuththam (Zinc sulphate) (8), Indhuppu (Rock Salt) (7), Rasam (Mercury) (6), Arithaaram (Yellow Arsenic) (6), Kanthagam (Sulphur) (5) and Venkaaram (Borax) (3).

In this study, the plants used were mostly from the family of Fabaceae (5), Piperaceae (4), Cucurbitaceae (4), Solanaceae (3), Euphorbiaceae (3), Capparidaceae (2), Sapotaceae (2), Amaryllidaceae (2), Apocynaceae (2), Lamiaceae (2), Rutaceae (2), Zingiberaceae (2) and each One Plant from other 22 families.

In this study, it is observed that commonly found plants were utilized in various preparations, suggesting the feasibility of implementing these preparations in practical applications.

## CONCLUSION

From this research, it is known that classical Siddha Literature had a wide collection of data on Kallikkam (Collyrium) mode of treatment in toxic states.

Herbal, Metals and Minerals were used in the various preparations. In these preparations, most frequently used plants and raw drugs are easily available and well-known common antidote are mostly used.

Further study is needed to evaluate the efficacy of Kalikkam (Collyrium) preparations in treating toxic condition.

### Declaration by Authors

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