# Original Research Article

# CLASSIFICATION OF 4448 DISEASES IN SIDDHA SYSTEM OF MEDICINE – A REVIEW

### **ABSTRACT**

Siddha Medicine is a system of Traditional Medicine originating in ancient Sri Lanka and Tamil Nadu in South India. Traditionally, it is taught the siddhars laid the foundation for this system of Medication. Siddhars were spiritual adepts who possessed the ashta siddhis or eight super natural powers. Agastyar is considered the first Siddhar and the guru of all siddhars. The Siddha System of Medicine is believed to have been handed over to him by Murugan, Son of Shivan and Parvathi. Siddha system considers the human body as a collection of tri-humors & seven basic elements. Vatham, Pitham & Kapham are the trihumors which are the life constituents of the human body. The equilibrium of humors is consider as health & its disturbance or imbalance leads to disease. The aim of the study is to identify the 4448 diseases according to the Siddha Literatures. 4448 diseases are mentioned in Agasthiyar 2000, Angathipatham, Noi Naadal Noi Muthal Naadal part I and Theriyar vaakadam. Siddhar Aruvai Maruthuvam book stated that Head and Neck diseases are 1008. Diseases are classified according to anatomical structures of body parts, tri humors and diseases. Totally, 95 diseases are explained in all five books. In Noi Naadal Noi Muthal Naadal Part II, 51 diseases and its types and In Yugi Vaiththiya Sinthamani, 27 diseases and its types are explained in the books. Totally, 544 and 431 Number of diseases are explained in the text Noi Naadal Noi Muthal Naadal Part II and Yugi Vaiththiya Sinthamani respectively. It is quite evidence from this review that 4448 diseases are in the Siddha System of Medicine. These collected information are helpful for further studies in types of diseases.

Key words: 4448 Diseases, Siddha Medicine, Siddha Pathology

#### 1. INTRODUCTION

#### 1.1 BACKGROUND OF STUDY

Siddha Medicine is a system of traditional medicine originating in ancient Tamil Nadu in South India and Sri Lanka. Traditionally, it is taught that the *siddhars* laid the foundation for this system of medicine. *Siddhars* were spiritual adepts who possessed the *ashta siddhis* or the eight supernatural powers. Agastyar is considered the first *Siddhar* & the guru of all *siddhars*, the Siddha system is believed to have been handed over to him by Shiva [1]. Siddha system considers the human body as a collection of tri-humors & seven basic elements. *Vatham, Pitham & Kapham* are the tri-humors which are the life constituents of the human body. The equilibrium of humors is consider as health & its disturbance or imbalance leads to disease [2].

Expecting the diseases caused by our previous births, the diseases caused by our present birth are due to our food habits. This has been rightly quoted in the following verse by Saint *Thiruvalluvar*:

kpfpDk; FiwapDk; Neha;nra;Ak; E}Nyhu;
tspKjyh ntz;zpa %d;W4

The food and actions of a person should be in association with the nature of his body. Any increase or decrease in a humor *Vali*, *Azhal*, *Aiyam* leads to the derangement of the three humors. The agreement of actions means his good words, deeds and actios. According to *Thiruvalluvar* the disease is caused due to the increase or decrease in the equilibrium of three humors.

The common causes for a person to be affliated with diseases are mentioned in the following verse of *Theriyar* in his *Karisal*:

NehapDw; gj;jpNfs; Nehd;ik\$u; ike;jNd

Nehahsp nad;gjW Nehahsp Kd;Nd

Neha;fs;tpid fhjuK Neha;fs; tuNtJ

Nehdhik ahy; ntFsp Nehdhj grpahy;

Nehdhj ePu;gUfy; Nehdhj czthy;

Nehf;fkU zkjhf Nehf;fpnahop njhopyhy;

Nehf;fnud elkhb Nehf;fp elkplyhk;

Nehl;lf;fh uupehb Nehl;lnkhop Fuyhy;

Nehtau; khjnuhL Neht kUTjyhy;

**Comment [DrMR1]:** Recheck the "Quote". It should be properly displayed in the respective language and it should be non-changeable format.

Nehd;Gtpu jhjpgy Nehw;ftU nkypthy;

NehQ;irnad tZFZT Nehttap Yjyhy;

Nehz;ltup njdNtiu Nehz;bNa Ujyhy;

Nehdhj tPukb Nehdtzp Fjyey;

Neha;fSw; gj;jptF Neha;fs; tpid tpijaha;

Neha;fs; tpid gayha;nka; Neha;fs; tsu; gapuha;

NehAjT gydhfp Neha;fs; ntF Nkyhk;

Nehjf Tiuj;jdkpe; Neha;fsw NkNy

Nehapdpfp yhsu; Nehd;ikap jpdpNa

One should avoid anger, very hard work, wearing wet dress, sexual contact with a person afflicted with diseases, speaking loud, talking too much, over eating and eating with aversion. Instead one should eat the ight quantum and right quality of food at the appropriate time.

4448 diseases are mentioned in the Siddha Literatures. 4448 diseases are not clearly mentioned in any Siddha Literatures So The researcher is going to identify the 4448 diseases according to the Siddha Literatures.

# 2. AIMS &OBJECTIVE

The aim of the study is to identify the 4448 diseases according to the Siddha Literatures.

# 3. Methodology

## 3.1Study design

It is a review of classification of 4448 diseases in relevant literatures

# 3.2Study setting

Government Siddha Medical College, Palayamkottai from October 2019 to March 2020.

### 3.3Data Collection

Data for the literature review were collected from related literatures and websites.

# 3.4 Data analysis:

Collected data were processed and statistically analyzed by a simple statistical method using Microsoft Excel.

Comment [DrMR2]: Recheck the "Quote". It should be properly displayed in the respective language and it should be nonchangeable format

**Comment [DrMR3]:** Avoid grammatical errors.

**Comment [DrMR4]:** Avoid formatting errors.

**Comment [DrMR5]:** Mention any relevant data sources in the MS.

**Comment [DrMR6]:** Is there any intention to left the page blank? Or is there any missed content?



# 4. REVIEW OF LITERATURES

4448 diseases are mentioned in *Agasthiyar 2000, Angathipatham, Noi Naadal Noi Muthal Naadal part I* and *Theriyar vaakadam. Siddhar Aruvai Maruthuvam* book stated that Head and Neck diseases are 1008.

Table 1: Classification of 4448 Diseases according to the Siddha Literatures

Classification of	According	According to	Accordi	According	According
Diseases	to	Angathipath	ng to	to Theriyar	to Siddhar
	Agasththiy	am	Noi	vaakadam	aruvai
	ar 2000	(B2)	Naadal	(B4)	Maruthuva
	<b>(B1)</b>		Part 1		m
			(B3)		(B5)
Total Number of	4448	4448	4448	4448	-
diseases					
1. Common	1482	-	-	-	-
Vatha					
diseases					
2. Common	1483	V - V	-	-	-
Pitha					
diseases					
3. Common	1483	-	-	-	-
Kapha					
diseases					
According to tri					
humor					
1. Vatha	84	-	85	-	-
Diseases					
2. Pitha	83	-	42	-	-
Diseases					
3. Kapha	-	-	96	100	-
Diseases					
According to body					
parts					

**Comment [DrMR7]:** Format the table properly. Arrange it on organised manner.

1	Diseases in	307	97		210	
1.		307	91	-	210	-
	head					
2.	Diseases in	7	50	10	23	100
	ear					
3.	Diseases in	186	18	-	70	-
	mouth					
4	Diseases in	06	06	06	05	06
4.		96	96	96	95	96
	Eye					
5.	Diseases in	42	6	-	120	100
	Neck					36
6.	Diseases in	27	27	10	30	86
	Nose					
7.	Diseases in	40	32		-	49
	Cheek					.,
- 0		22				26
8.	Diseases in	32		-	-	26
	forehead					
9.	Diseases in	10	10	-	=	88
	occipital					
	region of					
	head					
10.	Diseases in	130	130	_	-	-
10.	Upper limbs		)			
1.1		556				
11.	Diseases in	556	-	-	-	-
	Abdomen					
12.	Diseases in	185	-	-	-	-
	Male					
	genitalia					
13.	Diseases in	61	-	-	24	-
	Abanan				(Moolathara	
	. 20000000				m)	
1.4	D: :	25			m)	
14.	Diseases in	25	-	-	=	-
	Scrotum					
15.	Diseases in	190	-	-	-	-

Lower limbs	
Thigh region	
17. Diseases in 306 105 - 16 - Lumbo Sacral region 18. Diseases in 42	
Lumbo Sacral region  18. Diseases in 42	
Sacral region  18. Diseases in 42	
18. Diseases in 42	
The second of the	
Thanaththil	
19. Diseases in 35 108 - 320 -	
Navel	
20. Diseases in 200	
rib cage	
21. Diseases in 81 52	
Back	
22. Diseases in 75	
head	
23. Diseases in 40	
Under the	
arm	
24. Diseases in 63 - 21 -	
Chest	
25. Diseases in 101 - 100 -	
Anal region	
26. Diseases in 47 - 20 -	
Calf muscles	
& Knee joint	
27. Diseases in 106 - 21 -	
Heart	
28. Diseases in 31	
sole of foot	
29. Diseases in 25 - 63 -	
Foot	
30. Diseases in 51	

20 joints					
31. Diseases in	-	-	-	18	-
Shoulder					
32. Diseases in	-	-	-	320	-
Intestine					
33. Diseases in	-	-	-	270	-
small					
intestine					
34. Diseases in	-	-	-	100	-
bones					
35. Diseases in	-	-	-	228	-
nerves					
36. Diseases in	-	-		11-	36
Jaw			OX		
37. Diseases in	-	-	-	-	46
vertex					
38. Diseases in	-	<b>/</b> -/	-	-	16
Eye brow					
39. Diseases	-	/	-	-	-
around the					
groin region					
According to	X				
Diseases					
1. Sanni	30	-	-	13	-
Patham ()					
2. Kudal Vaayu	88	-	-	-	-
3. Kazhangam	37	-	-	-	-
4. Karappan	66	-	-	-	-
5. Vippuruthi	4	-	-	-	-
6. Kuruvai	8	-	-	-	-
7. Pilavai	40	-	-	-	-
8. Pavunthiram	8	-	-	-	-
9. Mahotharam	30	-	8	-	-
	•				

**Comment [DrMR8]:** Is there any leftover content?

10. Kirivai Veddi	9	-	-	-	-
11. Vandukkadi	18	-	-	-	-
12. Silanthi	81	-	-	-	-
13. Paandu	28	-	-	10	-
(Anaemia)					
14. Veppu	20	-	-	-	-
15. Neuritis in	100	-	-	-	-
Hands					
16. Thikaippu	96	-	-	-	-
(Breathlessn					
ess)			(		
17. Veppup	56	-	-	-	-
paavai					
18. Vai soori	63	-	0-1	-	-
(Measeals)					
19. Kaamaalai	8	<i>)</i> -\}	-	-	-
(Jaundice)					
20. Sori (Skin	60	-	-	-	-
Diseases)					
21. Vazhalai	4	-	-	-	-
22. Maddil Noi	108	-	-	-	-
23. Sengchali	61	-	-	-	-
24. Cough,	300	-	-	-	-
Suvasa					
Kaasam					
25. Thanur	-	-	300	-	-
vaayu					
26. Kaasa Noi	-	-	7	8	-
27. Soolai Noi	-	-	200	20	-
28. Gunmam	-	-	8	8	-
29. Santhi	-	-	76		-
30. Eluvai,	-	-	95		-
Kazhalai					
<u> </u>	l		·		

32. Thalai   -   -   5   -   -	31. Suram	-	-	84 (64)	40	-
Odema in head	32. Thalai	-	-	5	-	-
head)	Veekkam					
33. Generalized oedema	(Oedema in					
oedema       34. Paduvan       -       -       111       -       -         35. Navel Diseases       -       -       7       -       -       -         36. Peeli Noi (Liver Diseases)       -       -       8       -	head)					
34. Paduvan	33. Generalized	-	-	16	-	-
35. Navel	oedema					
Diseases   36. Peeli Noi	34. Paduvan	-	-	11	-	-
36. Peeli Noi	35. Navel	-	-	7	- 1	-
(Liver Diseases)  37. Uru vasiyam 5	Diseases					
Diseases	36. Peeli Noi	-	-	8	1	-
37. Uru vasiyam	(Liver					
38. Keel Noi	Diseases)					
(Joint Diseases)  39. Kuddam 20 18 - 40. Kathir - 3 (Alaku) Veechchu Noi  41. Thiddai 6 16 37 (Palliru Noi)  42. Sobai 16 43. Isivu 6 44. Moorchchai - 7 45. Padu (Kuvai)Noi	37. Uru vasiyam	-	-	5	-	-
Diseases	38. Keel Noi	-	-	30	-	-
39. Kuddam	(Joint					
40. Kathir	Diseases)					
(Alaku)         Veechchu         Noi         41. Thiddai       -       -       6       16       37         (Palliru Noi)         42. Sobai       -       -       16       -       -         43. Isivu       -       -       6       -       -         44. Moorchchai       -       -       7       -       -         45. Padu       -       -       46       -       -         (Kuvai)Noi       -       46       -       -	39. Kuddam	-	-	20	18	-
Veechchu       Noi         41. Thiddai       -       -       6       16       37         (Palliru Noi)       -       -       16       -       -         42. Sobai       -       -       6       -       -         43. Isivu       -       -       6       -       -         44. Moorchchai       -       -       -       -         45. Padu       -       -       46       -       -         (Kuvai)Noi       -       -       -       -	40. Kathir	-	-	3	-	-
Noi	(Alaku)					
41. Thiddai       -       -       6       16       37         42. Sobai       -       -       16       -       -         43. Isivu       -       -       6       -       -         44. Moorchchai       -       -       7       -       -         45. Padu       -       -       46       -       -         (Kuvai)Noi       -       46       -       -	Veechchu					
(Palliru Noi)       42. Sobai       -       -       16       -       -         43. Isivu       -       -       6       -       -         44. Moorchchai       -       -       7       -       -         45. Padu       -       -       46       -       -         (Kuvai)Noi       -       46       -       -	Noi					
42. Sobai       -       -       16       -       -         43. Isivu       -       -       6       -       -         44. Moorchchai       -       -       7       -       -         45. Padu       -       -       46       -       -         (Kuvai)Noi       -       46       -       -	41. Thiddai	-	-	6	16	37
43. Isivu 6 44. Moorchchai 7 45. Padu 46 (Kuvai)Noi	(Palliru Noi)					
44. Moorchchai 7 45. Padu 46 (Kuvai)Noi	42. Sobai	-	-	16	-	-
45. Padu 46 (Kuvai)Noi	43. Isivu	-	-	6	-	-
(Kuvai)Noi	44. Moorchchai	-	-	7	-	-
	45. Padu	-	-	46	-	-
	(Kuvai)Noi					
46. Moola - 9 100 -	46. Moola	-	-	9	100	-
rogam	rogam					
47. Peenisam, 76 160 (Kadi -	47. Peenisam,	-	-	76	160 ( <i>Kadi</i>	-
Kadi visam vidam)	Kadi visam				vidam)	

40 77			25		
48. Kirani	-	-	25	-	-
49. Night	-	-	20	-	-
Blindness					
50. Athisaaram	-	-	25	6	-
51. Kaddi	-	-	12	-	-
52. Kirumi	-	-	6	-	-
53. Vomiting	-	-	5	-	-
54. Chronic	-	-	20	-	-
Diseases					
55. Kalladaippu	-	-	80	-	-
56. Thimir Noi	-	-	10	1	-
57. Meha Neer	-	-	21	21	-
58. Neer Rogam	-	-	5	-	-
59. Visa Paakam	-	-	16	-	-
60. Vikkal	-	-	10	-	-
61. Arosikam	-	<b>/</b> -	5	-	-
62. Kadi	-		500	=	-
Thodam					
63. Kaajam,	-		700	-	-
Kuththu,					
Veddu					
64. Kiranthi	-	-	48	-	-
65. Pori (bird)		-	800	96	-
visam					
66. Pura Neer	-	-	200	-	-
Kovai					
67. Thudi (Lips)	-	-	100	20	16
Noi					
68. Peadiatri	-	-	100	-	-
Diseases					
69. Snake	27	-	-	-	-
70. Animal toxin	-	-	-	257	-
71. Herb	-	-	-	120	-
	I		ii		

72. Aquatic	-	-	-	34	-
plants					
73. Thodam	_	_	_	7	_
74. Vali	_	_	_	8	_
75. Rasa rogam	_	_	_	6	_
	=	-	=		=
76. Respiratory	-	-	-	9	-
Diseases					
77. Atputham	-	-	-	5	-
78. Yanthirangal	-	-	-	20	-
79. Pavanam	=	-	-	40	-
80. Moolai Noi	-	-	- '	360	-
81. Iraichchi	-	-	-	21	-
82. Blood	=	-		205	=
83. Muscles	-	-	0-	80	-
84. Tooth	-	-	-	20	45
85. Tonsils	-	7-12	-	6	20
86. Malam	-		-	7	-
87. Narutham	-	-	-	9	-
Porul					
88. Mandai vinai		-	-	15	-
89. Antharap		-	-	6	-
pinni					
90. Mayir		-	-	30	-
91. Rana Noi	-	-	-	200	-
(Surgical					
Diseases)					
92. General	-	-	-	59	-
93. Karuvikkal	-	-	-	18	-
94. Naadi rogam	-	-	-	-	-
95. <i>Kosam</i>	-	-	-	-	-
Others					
1. All over the	1008	-	-	-	-
body					

2. Tongue	1008	-	-	49	-
3. Congenital	160	=	-	-	-
4. Sanni	13	-	-	-	-
Paatham					
5. Diseases in	-	-	-	-	1008
head & neck					

Table 2: Description of disease types are explained in the *Noi Naadal Noi Muthal Naadal* part II & *Yugi Muni vaithiya sinthaman*i

Diseases	Noi Naadal Noi Muthal	Yugi Muni vaithiya
	Naadal part II	sinthamani
1. Suram	64	7
2. Mukkuttam	13	13
3. Ammai	14	-
4. Kuralkammal	6	-
5. Mookkadaippu	9	
6. Kuruthi azhal noi	8	-11
7. Irumal	12	5
8. Iraippu	5	
9. Elippu	7	-
10. Ulai maanthai	4	4
11. Thamaraga noi	5	-
12. Suvai inmai	5	-
13. Neervedkkai	4	-
14. Seriyamai	9	-
15. Vikkal	5	4
16. Vaanthi	11	5
17. Maantham	3	
18. Gunmam	8	8
19. Soolai	15	15
20. Manneeral noi	4	-
21. Kalleral noi	3	-
22. Velluppu	5	5
23. Oothal Noi	4	4
24. Manchal Noi	13	13
25. Peruvayiru	8	32
26. Kudal piddippu noi	4	-
27. Perum kazhichchal	4	25
28. Ninak kazhichchal	11	-

**Comment [DrMR9]:** Format the table properly. Arrange it on organised manner.

29. Ooli Noi	3	-
30. Moola Noi	21	21
31. Kalladaippu noi	4	4
32. Neer churukku	4	-
33. Soddu neer	2	-
34. Vellai	21	21
35. Meha neer kaddikal	10	-
36. Charukku noi	7	-
37. Veri noi	6	-1
38. Mayakka noi	6	
39. Vali Noi	21	-
40. Vali Noi	85	80
41. Keel vayu	10	-
42. Azhal vayu	42	42
43. Aiya noi	21	21
44. Kuddam	18	18
45. Meha noi	<b>/</b>	20
46. Visa paakam		8
47. Chayam	V-	12
48. Kaasam	-	12
49. Vippuruthi	-	7
50. Karappan	-	7
51. pavunthiram	-	18
Total	544	431

In *Noi Naadal Noi Muthal Naadal* Part II, 51 diseases and its types and In *Yugi Vaiththiya Sinthamani*, 27 diseases and its types are explained in the books. Totally, 544 and 431 Number of diseases are explained in the text *Noi Naadal Noi Muthal Naadal* Part II and *Yugi Vaiththiya Sinthamani* respectively.

#### 5.RESULTS AND DISCUSSION

Agasthiyar 2000, Angathipatham, Noi Naadal Noi Muthal Naadal part I and Theriyar vaakadam books have been stated that types of diseases are 4448. In Agasthiyar 2000, 4448 diseases further classified into 3. There are Vatha Diseases: 1482; It is caused by disturbance of Vatha Thosam, Pitha Diseases: 1483; It is caused by disturbance of Pitha Thosam. These diseases increase the body heat and inflammation and Kapha Diseases: 1483; It is caused by disturbance of Kapha Thosam.

Diseases are classified according to anatomical structures of body parts, tri humors and diseases. According to the tri humors, *Vatha* diseases and *Pitha* diseases are mentioned in *Agasthiyar 2000* and *Noi Naadal Noi Muthal Naadal part II*. Number of *vatha* diseases are approximately same (B1:84, B3:85). But in *Yugi Muni vaithiya sinthaman*i book is mentioned that *vatha* diseases are 80 in number so number of *vatha* disease is 80 -85. Number of *pitha* diseases are not same in number (B1:83, B3:42). But in *Yugi Muni vaithiya sinthaman*i and *Noi Naadal Noi Muthal Naadal part I* books are mentioned that *pitha* diseases are 42 in number so number of *vatha* disease may be 42. *Kapha* diseases are mentioned in *Noi Naadal Noi Muthal Naadal part I* and *Theriyar vaakadam*. Number of *Kapha* diseases are approximately same (96:100). But in *Yugi Muni vaithiya sinthaman*i book is mentioned that *Kapha* diseases are 21 in number so number of *kapha* diseases are unable to state in actual number.

Diseases are classified according to the anatomical structures of body parts such as head, ear, mouth, eye, neck, nose, cheek, forehead, occipital region of the head (*Pidari*), upper limbs, abdomen, male genitalia, abdomen, scrotum, lower limbs, thigh region, lumbo sacral region, navel, rib cage, *thanaththil*, arm, chest, anal region, calf muscles and knee joint, heart, foot, joints, shoulder, bones, nerves, eye brow and groin region.

Diseases in ear, Diseases in eye and Diseases in nose are explained in number value in all 5 books. Number of diseases in eye are approximately same (B1, B2, B3, B5:96, B4:95). So, Number of eye disease is 96. Number of nose diseases (27) are same in *Agasthiyar 2000* and *Angathipatham*. Diseases in neck are explained in number value in 4 books. Diseases in head, Diseases in mouth, Diseases in neck, Diseases in cheek, Diseases in occipital region of head (*Pidari*), Diseases in thigh, Diseases in lumbo sacral region and Diseases in navel are explained in number value

in 3 books. Number of diseases in cheek are approximately same (B1:40, B2:32, B5:49). Number of diseases in occipital region of head are equal in 2 books (B1:10 & B2:10). Diseases in fore head, Diseases in upper limb, Diseases in abanan, Diseases in back, Diseases in chest and Diseases in anal region are explained in number value in 2 books. Number of diseases in fore head are approximately same (B1:32, B5:26). Number of diseases in upper limbs are equal (B1: 130 & B2: 130). Number of diseases in anal region are approximately same (B2: 101 & B4: 100).

Totally, 95 diseases are explained in all five books. In *Noi Naadal Noi Muthal Naadal* Part II, 51 diseases and its types and In *Yugi Vaiththiya Sinthamani*, 27 diseases and its types are explained in the books. Totally, 544 and 431 Number of diseases are explained in the text *Noi Naadal Noi Muthal Naadal* Part II and *Yugi Vaiththiya Sinthamani* respectively.

### 6. CONCLUSION

It is quite evidence from this review that 4448 diseases are in the Siddha System of Medicine. These collected information are helpful for further studies in types of diseases.

**Comment [DrMR10]:** Very weak statement with grammatical and sentence formation errors.

# **COMPETING INTERESTS DISCLAIMER:**

Authors have declared that no competing interests exist. The products used for this research are commonly and predominantly use products in our area of research and country. There is absolutely no conflict of interest between the authors and producers of the products because we do not intend to use these products as an avenue for any litigation but for the advancement of knowledge. Also, the research was not funded by the producing company rather it was funded by personal efforts of the authors.

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