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Siddha Concepts in Diagnosis and Management of COVID-19

Dr. M. Selvakumar M.D^{1*}, Dr. M. Suganthi M.D¹, Dr. A. Aishwarya M.D¹, Dr. T. Lakshmi Kantham M.D Ph.D², Prof. Dr. R. Meenakumari M.D³

¹Siddha Physician, P. G. Alumnus, Department of Maruthuvam, National Institute of Siddha, Chennai-600047, Tamil Nadu, India

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*Corresponding author: Dr. M. Selvakumar

Abstract Review Article

Severe Acute Respiratory Syndrome Corona virus 2 (SARS-CoV-2) is also known as nCoV-2019. The causative pathogen of Corona virus disease 2019 (COVID-19) has been rapidly spreading across India and all over the world. No specific anti-viral drugs or vaccines are available for the treatment of this sudden and lethal disease. The supportive care and non-specific treatment to ameliorate the symptoms of the patients are the only options currently available. In our nation, we have good resources to treat nCoV-2019 affected patients with AYUSH (our own traditional medicines) especially Siddha medicines. Siddha system of medicine has unique methods to treat newly detected diseases. Siddhars deal with the human body as a spiritual entity rather than a material entity as dealt with by the western physiology. This study is to highlight the stage-wise diagnosis and treatment protocol as per Siddha literature in correlation to modern diagnosis and treatment of COVID – 19 patients.

Keywords: COVID-19, Siddha medicine, AYUSH.

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Introduction

Severe Acute Respiratory Syndrome Corona virus 2 (SARS-CoV-2) is also known as nCoV-2019. The causative pathogen of Corona virus disease 2019 (COVID-19) has been rapidly spreading across India and all over the world, causing an outbreak of acute infectious Pneumonia. No specific anti-viral drugs or vaccines are available for the treatment of this sudden and lethal disease. The supportive care and non-specific treatment to ameliorate the symptoms of the patients are the only options currently available. Despite the conventional therapies working at the topmost level, more than 85% of SARS-CoV2 infected patients in china are receiving Traditional Chinese Medicine combined with Allopathic treatment [1].

In our nation, we have good resources to treat nCoV-2019 affected patients with AYUSH (our own traditional medicines) especially Siddha medicines.

Siddha system of medicine

Siddha system of medicine has unique methods to treat newly detected diseases. Siddhars deal with the human body as a spiritual entity rather than a material entity as dealt with by the western physiology. Thus, the principles of diagnosis in Siddha differs from the western pathology [2].

Siddha always embraces a holistic approach in elaborating the details of a disease at hand. We have five-pronged approach in the elaboration of an unknown disease [3].

Adippadai (Noi Karanam) - Aetiology Munnam (Murkkurigal) - Symptoms Vadivam(Mukkuttra Thelivu) - Diagnosis Adaivu (Vazhimurai) - Line of treatment Punarppu (Noi Parikaram) - Treatment

Adippadai (Noikaranam) - Aetiology

Considering the Adippadai (Noikaranam), COVID-19 virus has evolved itself into a pandemic affecting a large population, irrespective of their physical features, dietary patterns, psychological attributes, etc...

Munnam (Murkurigal) - Signs and Symptoms

Referring to the details available from the places where COVID – 19 has affected, especially from China, about 40% of the cases were having very mild symptoms such as dry cough, sore throat, mild fever, head ache, running nose, nasal congestion and malaise - with no symptoms of dyspnoea and viral pneumonia. Another 40% of the cases were having moderate

²Associate Professor, Department of Maruthuvam, National Institute of Siddha, Chennai, India

³Director, National Institute of Siddha, Chennai, India

symptoms -- severe cough, shortness of breath, fever with mild pneumonia. 15% of the cases were having very severe symptoms -- dyspnoea, respiratory distress and hypoxia. However, the fever must be interpreted carefully because, even in severe forms of the disease, it can be moderate or even absent. 5% of the cases were found to be critical in presentation [4].

Course of Signs and Symptoms

In one report the main clinical features [5] shown were dry cough), running nose, nasal congestion and mild fever and this condition is interpreted in Siddha as Kasam (Erumal) and Peenisam. With symptoms of shortness of breath and fatigue developing later on, the condition is interpreted in Siddha as Eraippu- Uyirppu). With the condition further worsening with laboured breathing and persistent pain with fever it is interpreted as Kaba suram (Iya suram). Finally with the disease progressing to reach the terminal stage marked by tremor, severe dyspnoea and

organ failure leading to death, the condition is interpreted in Siddha as Seethanga Janni.

Considering all these factors, COVID – 19 is a lethal syndrome, which is considered as a combination of many diseases. In the beginning, signs and symptoms start as Kasam (Erumal) and Peenisam. Then it aggravates as Kaba Iraippu (Iya Iraippu). If we fail to contain the symptoms within this stage it reaches a dangerous stage Kaba suram (Iya suram). Kaba suram leads to Seethanga Janni which one is rampant and lethal.

The course of symptoms helps us to find a way to provide proper treatment through Siddha System of Medicine. We can approach this situation by clinical staging method. The purpose of clinical staging is helpful to treat the signs and symptoms within the stage and break the chain reaction which leads to further critical level. There are four clinical stages.

Stage -0		Patients with no symptoms or a positive travel history / contact history / home quarantine / isolation	
Stage – 1	Mild illness	Kasam (Erumal)	Peenisam
		[Dry cough, Sore throat, Loss	[Running nose, Nasal
		of taste, Tiredness] [6]	congestion, Mild fever] [6]
Stage – 2	Pneumonia	Kaba eraippu (Iya eraippu) [Severe cough, Shortness of breath, Fever, Frequent wheezing.	
	7	Chest pain, Fatigue, Thirst	, Malaise, Loss of sleep,
		Constipation and Low urine output] [6, 36]	
Stage – 3	Severe Pneumonia	Kaba suram (iya suram) [Cough with expectoration, severe dyspnea, Chest pain, Feveral Fatigue, Sweating] [16]	
Stage – 4	Acute Respiratory Distress	Seethanga Janni (Kuliram)	
	Syndrome (ARDS), Sepsis,	[Chillness of body, Tremor	Hiccup, Fatigue, Swoon,
	Septic Shock	Vomiting, Diarrhoea, Severe tl	hirst, Cough, Hypoxia, Organ
	••• failure] [6,16,36]		

Vadivam (Mukkuttra Thelivu)- Diagnosis (Stage wise explanation)

Stage 1

Uyirkkaal (Prana vayu) alters its nature and combines with Unthi kaal (Uthana vayu), Anal (body core temperature) and Iyam (Kabam). Then it would manifest as Kasam (Erumal). When this combination of mukkutram mingles with Kuruthi (Blood) –one of the seven Udal Thathukkal (Physical constituents) Peenisam will appear[3].

Stage 2

Vali (Vatham), raised with Iyam (Kabam), enters into the pathway of food and air. Due to the blockage, Iyam increases more and more within the chest and produces breathlessness. It leads to Iya eraippu (Kaba eraippu)⁽³⁾.

Stage 3

Vali (Vatham), Azhal (Pitham) and Iyam (Kabam) become rampant and mingle with seven

thathukkal (Karukkal – constituent parts of the body) to produce Kaba suram (Iya suram)[3].

Stage 4

The Analam (Pitham) increases more and more and then divides to settle in abdomen and skin. It disbands abnormal temperature all over the body. So Vali (Vatham) and Iyam (Kabam) become detached and Agattanal (Sadarakkini) goes lame. Gradually this condition leads to organ failure and death [3].

As per the Siddha literature, if there are no signs of improvement in Seethanga janni within 14 days of proper treatment, the condition will become critical [3].

A.Adaivu (Vazhimurai)- Line of treatment & B. Punarppu (Noi Parikaram)- Treatment

(Stage wise management protocol) Stage 0:

 Patients with no symptoms or a positive travel history / contact history / home quarantine / isolation

- No symptoms or mild symptoms
- Consider this stage as a potential one which may lead to the onset of Kasam (Erumal) and Peenisam.
- Consider the patient's age and other co-morbidities.
- Advise the patient to follow the community prevention protocols.
- The following procedures, taken from the Siddha literature (indicated side by side), are simple effective remedies and are easy to follow with confidence.

Gargling – water boiled with salt (Kalluppu – Table salt/Sea-salt)/ Thiribala choornam/ Manjal (Turmeric)/ Padigara neer.

Drinking water: (any one of the following medicine can be prescribed)

- Water boiled with Seeragam (Cuminum *cyminum*. Linn). It reduces the influence of Kabam) [6].
- Use Puthina keerai (Mentha *arvensis* .Linn.) as tea or chutney[7]
- Thuththi leaf (Abutilon indicum .Linn.) tea[8]
- Turmeric (Curcuma *longa*. Linn.) tea with vellam (jaggery) [8]

Steam inhalation

• Use Notchi leaf (Vitex *negundo* .Linn.) with turmeric for steam inhalation [8].

Food

- Favourable: Easily digestible light food in semi-solid state like kanji (Porridge) with onion, curry leaf, garlic, lime, zinger, turmeric, cumin seeds, chukku (dried ginger), cooked vegetables. Use warm water for drinking. Take complete rest.
- **Unfavourable:** Heavy, oily, spicy, fried foods; junk foods, curd, cool drinks, mental stress.

Internal medicines to boost our immune system: (any one of the following medicine can be prescribed)

- Agnimuga choornam (dose; ½ thola 4 to 5 gm with lukewarm water, bid)[9]
- Seeraga choornam (dose; 1 to 2 gm with lukewarm water, bid)[10]
- Dratchathi choornam (dose; 1 to 2 gm with honey, bid)[11]
- Nilaavarai choornam (dose; 1 to 2 gm with lukewarm water, bid)[12]
- Thiribala choornam (dose; 1 to 2 gm with lukewarm water, bid)[13]
- Inji ilagam (dose; 6 to 12 gm, bid)[14]
- Thetran kottai ilagam (dose; 3 to 6 gm, bid)15]

The above medicines help to remove aamam in our stomach and abdomen which affects Agattanal (Sadarakkini). Aamam weakens our immune system and makes our body easily susceptible to infection [3].

Stage 1: Kasam (Erumal, Peenisam)

(i) Noi nadai

There is inflammation of mucus layer (silethumna savvu) of bronchus. There are two types of onset. One comes with fever and it is virulent. The other one comes without fever and it is chronic in nature. When it affects the children, it is called ALLU MANTHAM. Mucus comes out easily when it affects larger Bronchi. If mucus accumulates within the smaller bronchioles and alveoli, it does not come out easily. It prevents the air flow and decreases blood purification in the lungs. It leads to dangerous respiratory distress. So the vaithiyar (doctor) who treats the patients with inflammations in smaller bronchioles and alveoli must be very careful. With our Siddha treatment, mucus comes out largely and it should not be prevented. Respiratory distress will occur when mucus stays within the lungs. The lethal symptoms are swelling of both the legs and prattling.

At first we treat with Balagari (tonic) medicines. In Kasarogam (cough), it is a rule to give the medicine every 3 to 4 hours [16].

(ii) Simple remedy

a. Poultice: (any one of the following medicine can be prescribed)

- i. Add Chukku powder (dried Zingiber *officinale* .Linn.) to Rice powder and make it into kali (semi solid state) and use it as poultice on fore head for head ache and apply on throat externally for throat pain [17].
- ii. Add Karunjeeragam powder (Nigella *sativa* .Linn.) to water and use it as poultice on forehead for head ache [18].
- iii. Add hydrated lime (Karchunnam CaCO₃) (200 mg) to jaggery and use it as poultice on throat externally [8].
- iv. Add Kadugu (Brassica *juncea* .Linn) to water and use it as poultice on the chest and it will help to bring relief from Kasam (Erumal) [13].

b. Nasal fumigation

 Mix together equal quantities of powder form of the herbs namely Thippili (Piper longum .Linn.), Manjal (Curcuma longa .Linn.), Omum (Carum copticum Linn.) and Milagu (Piper nigram Linn)[19]. By treating with the mixed powder, make wicks with small pieces of cotton cloth. Use this medicated wick for nasal fumigation with veppennai (neem oil).

c. Nasikaparanam (Snuff)

i.(i) Finely powdered Chundai ver (Root of Solanum *torvum* Linn.) can be used as snuff [20].

d. Nasal drops, Ear drops

i.(i) Use Chukku thylam as nasal and ear drops [21]

e. Steam inhalation

- (i) Water or Milk for Kasam (Erumal)
- (ii) Take Seeragam (Cuminum *cyminum* .Linn.) powder 2 to 4 gm along with Karkandu (sugar candy) forErumal (Cough) [22]
- (iii) Take Karunjeeragam (Nigella *sativa* .Linn.) 1 to 2 gm along with Notchi (Vitex *negundo* .Linn.) kudineer for Peenisam (Sinusitis), Head ache, Fever and Wheezing [18].

(iii) Medicines for Kasam with Suram (Cough with Fever): (any one of the following medicine can be prescribed)

- **a.** Adathodai leaf kasayam (decoction) [16]
- **b.** Thumbai leaf juice or kasayam [22]

(iv) Medicines for Kasam (Cough) without Suram (Fever): (any one of the following medicine can be prescribed)

- **a.** Musumusukkai leaf surasam [surasam a medicinal juice warmed by introducing a red hot iron] [18]
- **b.** Kandangathari kasayam with Vaal milagu powder[18]
- c. Sadamaanjil kasayam with Athimathuram powder[18]
- **d.** Goat milk[25,7] or raw Cow milk
- **e.** Valenthira polam powder (10 to 15 ulunthu nirai) 650 mg to 975 mg with milk[18]
- f. Araththai powder with Vellulli (poondu) [16]
- **g.** Elathi choornam(5 to 10 kundri edai 600 to 1200 mg or nei with Navacharam (Ammoni chloridum) [17]
- **h.** Thuthulai nei (4 to 8 ml, bid[12] or Rasayanam
- i. Perungaya ilagam (dose; 5gm, bid) [9]
- j. Thippili ilagam or Rasayanam (3 6 gm, bid)[15]
- **k.** Vishnu kiranthi powder with Vattathiruppi powder [18]

(v) Medicines for Dry Cough (Kasam): (any one of the following medicine can be prescribed)

- a. Athimathuram kasayam with honey[17]
- **b.** Arathai kasayam 30 to 40 ml with honey[17]
- c. Vendaikkai kasayam 30 to 70 ml with honey[13]
- d. Nerunjil kasayam with honey [18]
- e. Thulasi vithai kasayam with honey [22, 20]
- **f.** Agasathamarai surasam 40 ml with honey [surasam a medicinal juice warmed by introducing a red hot iron] [18]
- g. Karuvelam pisin (3 to 5 gm) [18]
- **h.** Kasakasa ilagam (4 to 8 gm)[13]
- i. Boiled milk with milagu (Black pepper)
- **j.** Take ½ part of Jathikkai and 1 part each of Athimathuram, Vaal milagu, Arathai, Lavangam. Prepare fine powder of these ingredients and mix well. Dose: ½ to 1 varagan edai (2 to 4 gm) / three or four times a day with honey. This is a special preparation for dry cough.

(vi) Medicines for Kasam in children (ALLU MANTHAM): (any one of the following medicine can be prescribed)

- **a.** Gorosanai mathirai[12] (or) Arathai powder[18] (or) Athimathuram powder[18] along with ½ uchikarandi (8ml) of any of the following adjuvant:
 - i. Vettrilai surasam [surasam a medicinal juice warmed by introducing a red hot iron] (or)
 - ii. Thulasi surasam (or)
- iii. Karpooravalli surasam (or)
- iv. Thiruneetru pachai surasam

Stage 2: (Iya Eraippu)

(i) Noi nadai

Difficulty in breathing, Loss of sleep, Cough with expectoration, respiratory distress [3]

(ii) Fumigation: (any one of the following medicine can be prescribed)

- a. Oomathai ilai suruttu[13]
- b. Pottiluppu (Pottassi Nitras)[23]

(iii) Purgation: (any one of the following medicine can be prescribed)

- a. Sanjeevi mathirai (dose; 1 or 2, od, with uthamani juice)[24]
- b. Uthamani ennai (8 to 15 ml, od)[21]
- c. Lavangathi mathirai (dose ; 1 to 4 with lukewarm water, od)[14]
- d. Thalamboo mathirai (dose; 1 to 2 with honey or lukewarm water, od)[14]

(iv) Medicines for Eraippu (any one of the following medicine can be prescribed)

- a. Adathodai leaf kasayam with uthamani [16]
- b. Vasambu kasayam (dose; 15 to 30 ml) [17, 13]
- c. Sadamanchil kasayam [18]
- d. Goat milk [25,7]
- e. Valenthira polam (10 to 15 ulunthu nirai) 650 mg to 975 mg with milk [18]
- f. Bavanai Omam (dose; 1 to 2 gm, bid) [18]
- g. Bavanai seeragam (dose; 4 to 8 gm, bid) [22]
- h. Karpoorathi choornam (dose; 650 mg to 1300 mg) [23]
- i. Perungaya choornam (1 to 2 gm, bid) [17]
- j. Kandangathari kudi neer (dose; 30 to 60 ml, bid) [17]
- k. Thippili ilagam or Rasayanam (3 6 gm, bid) [15]
- 1. Suvaasa Kasa Mathirai (dose; 65 mg, 3 to 4 hours once) [9]
- m. Thuthulai kirutham (4 to 8 ml, bid) [12]
- n. Kanthaga mathirai (dose; 1 or 2, od)[14]
- o. Aya chenthuram (dose; 100 to 200 mg with honey, bid)[15]
- p. Thambira parpam (dose; 50 to 100 mg with honey, bid) [15]

Stage 3: (Kaba suram - Iya suram) (i)Noi nadai

If Stage 2 is not addressed properly, the thega vanmai (Immunity) of the patient weakens and as a result the body temperature rises (Atthi ushnam). When the majjai thathu, one of the seven Udal Thathukkal (Seven physical constituents) is affected, head ache, extreme tiredness, chill and fatigue are produced. The Raktha thathu (Blood) is also affected with accumulation of waste by-products. If we fail to clear this mess through therapeutic purgation and therapeutic emesis, a number of serious diseases will be produced.

External origin of some poisonous thing goes inside the body and raise the temperature. It is called fever. After this Aththi ushnam is raised tremendously. It declines the seven thathu and physiology. Due to this some waste byproducts mixed with blood. If we fail to clear this mess through purgation and vomiting procedures it will cause innovative diseases to our body. When machai thathu (one of seven thathu) is affected it produce head ache, extreme tiredness, chill and fatigue [16]

Purgation: (any one of the following medicine can be prescribed)

- a. Agasthiyar kulambu 100 to 200 mg with chukku karkam [26] or
- b. Kowsigar kulambu -100 to 200 mg with elakkai powder or hot water [14] or
- c. Meganatha kuligai [27] or
- d. Lavangathi mathirai [14]

(ii) Kasayam (every two to three hours):(any one of the following medicine can be prescribed)

- a. Kaba sura kudineer (dose; 30 to 60 ml) [14]
- b. Nila vembu kudineer (dose; 30 to 60 ml) [14]
- c. Nanjusura kudi neer (dose; 30 to 60 ml) [16]
- d. Veppam pattai kasayam (dose; 30 to 45 ml)[18]
- e. Kostam kasayam (dose; 15 to 20 ml with honey, bid) [13]
- f. Seenthil kasayam (dose; 40 to 50 ml with powder of lavangapattai or lavanm, bid) [13]

(iii) Choornam : (any one of the following medicine can be prescribed $\mbox{\sc)}$

- a. Maha sutharsana choornam (dose 3gm with lukewarm water, bid) [9]
- b. Karpoorathi choornam (dose; 650 mg to 1300 mg) [23]
- c. Atathodai choornam (dose ; 1000 to 1500 mg, bid with milk) [9]

(iv) Mathirai :(any one of the following medicine can be prescribed)

- a. Anantha bairavam (dose; 1 to 2 with honey or inji juice, bid) [8]
- b. Pachai karpoora mathirai (dose; 1 to 2 with honey or inji juice, od) [14]

- c. Thirithoda mathirai (dose; 1 to 2 with milagu kasayam, bid [14]
- d. Asta bairava kuligai (dose; 1 to 2 with honey or inji juice, od) [14]

(v) Parpam: (any one of the following medicine can be prescribed)

- a. Pon parpam (dose; 100 to 200 mg with sugar) [28] b. Thambira parpam (dose; 50 to 100 mg with sugar)
- c. Ayanaga parpam (dose; 100 to 200 mg with honey) [28]
- d. Velleeya parpam (dose; 100 to 200 mg with thulasi juice) [15]
- e. Thalaga parpam (dose; 25 to 50 mg with thiruneetru pachilai juice) [14]

(vi) Chenthuram: (any one of the following medicine can be prescribed)

- a. Gowri chinthamani chenthuram (dose; 100 to 200 mg with Tirikadugu choornam and honey, bid) [29]
- b. Velli chenthuram (dose; 50 to 100 mg with ghee,bid)
- c. Shaya kulanthaga chenthuram (dose; 50 to 200 mg with Tirikadugu choornam and honey, bid) [31]

Stage 4: (Seethanga janni)

(i) Noi nadai

Chillness of body, Tremor, Hiccup, Fatigue, Swoon, Vomiting, Diarrhea, Severe thirst, Cough, Hypoxia, Organ failure [32].

(ii) Kulambu (any one of the following medicine can be prescribed)

- a. Agasthiyar kulambu 100 to 200 mg with chukka karkam [26]
- b. Kowsigar kulambu 100 to 200 mg with elakkai powder or hot water [14]

(iii) Mathirai:(any one of the following medicine can be prescribed)

- a. Anantha bairavam (dose; 1 to 2 with honey or inji juice, bid)[8]
- b. Rajarajeswaram (dose; 1 with Thirikadugu Kasayam, bid)[14]
- c. Sanni patha bairavam (dose; 25 mg with Palm jagary or milk) [33]

(iv) Melugu

a. Panja sootha melugu (dose; 100 to 200 mg, bid) [34]

(v) Parpam:(any one of the following medicine can be prescribed)

- a. Thambira parpam (dose; 50 to 100 mg with sugar)
- b. Mutthu parpam (dose; 50 to 100 mg with milk or ghee, bid)[11]
- c. Pavala parpam (dose; 100 to 200 mg with Thuthulai juice or milk, bid) [35]
- d. Peranda parpam (dose; 100 to 300 mg with inji charu and sugar, bid) [10]

(vi) Chenthuram: (any one of the following medicine can be prescribed)

a. Linga chenthuram (dose; 50 to 100 mg with Thirikadugu choornam and honey, bid) [15]

b. Sanda marutham (dose; 50 to 100 mg with Inji juice, Thirikadugu choornam, Amukkra choornam and honey, bid) [14]

CONCLUSION

- The purpose of this study is to highlight the stage-wise diagnosis and treatment protocol as per Siddha literature in correlation to modern diagnosis and treatment of COVID 19 patients.
- In this paper, simple remedies from reliable sources and easy to follow safe guidelines have been given.
- Most of the Siddha medicines are taken from classical (sastric) Siddha books and they are easily available in stores. In case of any emergency situation, we can use these medicines immediately.
- Most of these medicines are cost-effective.
- Considering all these factors, we can make an integrative approach in providing standard Siddha treatment combining with modern medication for COVID-19 patients.

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