Exploratory Study on Siddha Diagnostic Tests and Medicine For Covid-19

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\textbf{Abstract:} The novel coronavirus (named “2019-nCoV”) causes severe respiratory illness that was first identified in Wuhan City, Hubei Province, China. The developing countries as well as developed countries along with WHO are struggling to control the pandemic effectively. Meanwhile, the pace of growth of diagnostic tools and treatment procedures could not compensate for the tremendous spread of this disease. Here, our perspective study describes the utilization of traditional medical knowledge in diagnosis and treatment. Siddha medicine is the traditional medical system of Tamilnadu in India. There are several diagnostic methods and treatment procedures which have been practiced for thousands of years by Siddhars. Some traditional practices might be helpful to overcome the outbreak through their valuable siddha formulations. Our perspective study describes the Siddha diagnostic tools based on smell, taste senses and pulse reading (Naadi). Also, the herbal medication Kabavadvahasura kudineer (KVSK) considered as potential drug for Covid-19. KVSK is the polyherbal formulation contains 12 herbal ingredients.

\textbf{Keywords:} Covid-19, Kabavadvahasura, Kabavadvahasura kudineer, Naadi (Pulse reading), Siddha Medicine, Smell identification test, Taste identification test.

\begin{tabular}{|l|c|}
\hline
\textbf{Abbreviations} & \textbf{Description} \\
\hline
COVID 19 & Coronavirus disease 2019 \\
KVSK & Kabavadvahasurakudineer (Siddha proprietary Medicine) \\
SARS COV 2 & Severe acute respiratory syndrome coronavirus 2 \\
PCR & Polymerase Chain Reaction \\
ACE 2 & Angiotensin Converting Enzyme 2 \\
UPSIT & University of Pennsylvania Smell Identification Test \\
AROMA & Affordable Rapid Olfaction Measurement Array \\
ROS & Reactive Oxygen Species \\
NADPH & Nicotinamide Adenine Dinucleotide Phosphate Hydrogen \\
\hline
\end{tabular}

I. Introduction

The Covid-19 is a human to human spreading disease and easily clamps human through droplets generated when an infected person coughs or sneezes or through droplets of saliva or discharged from the nose. Covid-19 is an infectious disease caused by Severe Acute Respiratory Syndrome coronavirus-2, till now there is no specific medicine to prevent or treat Covid-19. Social distancing is the only tool to stymie the spread of coronavirus. Many people have been tested coronavirus by kits that relies on PCR which amplifies SARS CoV 2 RNA from patient’s swab [1]. There has also been a question of the availability of testing kits including the reagents needed to test the SARS CoV 2, now we are in the position to identify the Covid-19 positive persons to make them quarantine.

To prevent the terrible spread of the Covid-19 every individual should be diagnosed to figure out the positive cases. The testing becomes more important as asymptomatic cases are reported in some areas [2]. It is a big challenge to countries which have huge population. So, by combining modern diagnostic tests with
traditional diagnostic tools, it will become easy to quarantine positive cases without delay. Anecdotal reports suggest that loss of smell may be one of the first symptoms of Covid-19. 70% of patients, who tested positive for Covid-19 without other typical symptoms, are experiencing Anosmia or Ageusia [3]. So, we suggest the smell test and taste test mentioned in Theraiyar yamaga venba, a Siddha text for suspecting of coronavirus positive cases. Not everyone who flunks a smell test is going to have Covid-19. Olfactory dysfunction is not uncommon symptom because it is also caused by respiratory viruses including Influenza, Epstein Barr virus, Rhinoviruses, Parainfluenza virus and Coronavirus [4]. But the loss of smell and taste in combination with other common symptoms are strong predictors of Covid-19 infection [5]. The smell and taste tests in Siddhathave reveal the olfactory, gustatory dysfunction and severity of diseases by mentioning the time of death in poem. It can be easy to isolate people who failed in these tests. The ancient Siddha medicine proposes that the balance in three humours (vadham, pittam, kabam) is essential for the body health. If any vitiation of these humours, it will cause diseases. So, Covid-19 also suggested to be analysed in the basis of three humours.

II. Materials and Methods

2.1 Data search and Selection strategies

The search was conducted to cover the period March 10 to May 8, 2020. Several databases were used for search strings. Covid-19, Anosmia (loss of smell), Olfactory disorders, Ageusia (loss of taste), Dysgeusia, Neutrophils, Reactive Oxygen Species. Pharmacological actions of ingredients of Kaba Vadha Sara Kudineer are the keywords used as search strings. Classical Siddha books were searched on the citations on the keywords Kabavadihasuram, Kaba vadha Nadi, properties of increased and decreased humours. Studies which have indexed peer-reviewed articles and few non reviewed articles are included. Studies which have improper data and full article not available were excluded. Online magazines which updated the latest information about the Covid-19 were also referred. Till date the exact mechanism of Covid-19 virus pathophysiology not yet discovered. Here we analyse several hypothetical Covid-19 pathophysiology research papers.

2.2 Data analysis

\[ N = \text{number of articles referred} \]

From databases \( n = 80 \)

After screening \( n = 46 \) are extracted and reviewed. Among 46 articles, 44 are fully reviewed, 2 are non-reviewed, 12 are related to the phytochemical investigation of herbs which are ingredients of KVSK.

2.3 Smell and Taste are primary Symptoms for COVID-19

A study conducted in Italy on March 19, 2020 shows that, among 59 hospitalized patients, 20(33.9%) reported at least one either taste or olfactory disorder and 11(18.6%) are presented the both symptoms. The 12(20.3%) patients presented the symptoms before the hospital admission, whereas 8(13.5%) experienced the symptoms during their hospital stay. Taste alterations were more frequent before hospitalization (91%) whereas after hospitalization taste and olfactory alterations appeared with equal frequency. All patients reported the persistence of the disorders during their interview [6]. The American Academy of Otolaryngology- Head and Neck Surgery said symptoms of Anosmia (lack of smell) and Dysgeusia (altered taste) to be added to the list of screening tools for Covid-19 [7]. SARS-COV enters the brain primarily via the olfactory bulb demonstrated in mice models [8]. The analisation of bulk and single cell RNA-seq datasets have identified the ACE2 involved in SARS-COV2 entry present in olfactory epithelium support cells and stem cells in both mouse and human datasets [9]. The ACE 2 receptor which is used by SARS-COV2 to bind and penetrate the cell is widely expressed on the epithelial cells of mucosa of oral cavity [10].

2.4 Siddha Diagnostic Tools

In Siddha medicine unique methodology of diagnosis is known as Envagaithervu criteria for examination) which includes

- Naadi (pulse)
- Sparism (skin)
- Naa (tongue)
- Niram (colour)
- Mozhi (speech)
- Vizhi (eye)
- Malam (Stool)
- Moothiram (urine)

In addition, Siddhars mentioned the signs of impending death through smell, taste, stool, sound, pulse, etc. Among these smell and taste test may be applied to people as diagnostic tools of covid-19 with less manpower.
2.4.1 Taste identification test

“This poem says about the six tastes i.e. sweet, sour, salt, pungent, astringency, bitter and death recognition of a person who sensed alternative taste. If a person cannot sense a particular taste but it can be sensed from the other five tastes alternatively, by considering that taste (which he cannot sense) we can conclude that he will die within the time duration of death as in poem of Theraiyar Yamaga Venba (Table A).

<table>
<thead>
<tr>
<th>AFFECTED TASTES</th>
<th>DEATH RECOGNITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Astringency</td>
<td>within 24 minutes</td>
</tr>
<tr>
<td>Pungent</td>
<td>within ½ day</td>
</tr>
<tr>
<td>Salt</td>
<td>within 1 day</td>
</tr>
<tr>
<td>Bitter</td>
<td>within 1 week</td>
</tr>
<tr>
<td>Sour</td>
<td>within 15 days</td>
</tr>
<tr>
<td>Sweet</td>
<td>within 1 month</td>
</tr>
</tbody>
</table>

If astringency is not sensed but is tasted from other all 5 taste foods – The person will die within 24 minutes
If pungent is not sensed but is tasted from other all 5 taste foods – within ½ day
If salt is not sensed but is tasted from other all 5 taste foods – within 1 day

2.4.2 Smell Identification Test

“This poem says about the seven flowers and death recognition of a person who sensed alternative smells. If a person cannot sense a particular flower smell but it can be sensed from other all 6 flowers, by considering that flower which he can not smell we can conclude that he will die within the time duration of death said in poem of Theraiyar Yamaga Venba. Time period of death said in Theraiyar Yamaga Venba indicates the severity of disease. (Table B)

<table>
<thead>
<tr>
<th>HERBAL FLOWERS</th>
<th>DEATH RECOGNITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bambusa arundinacea</td>
<td>Within 7 seconds</td>
</tr>
<tr>
<td>Pterocarpus marsupium</td>
<td>Within 2 hour 48 minutes</td>
</tr>
<tr>
<td>Pendanus tectorius</td>
<td>Within 12 hours</td>
</tr>
<tr>
<td>Bauhinia racemosa</td>
<td>Within 7 days</td>
</tr>
<tr>
<td>Cassia fistula</td>
<td>Within one month</td>
</tr>
<tr>
<td>Michelia champaca</td>
<td>Within 2 months</td>
</tr>
<tr>
<td>Nelumbo nucifera</td>
<td>Within 5 months</td>
</tr>
</tbody>
</table>

For instance, if a person cannot smell Bambusa arundinacea but that smell comes from all 6 flowers according to Theraiyar he will die within seven seconds.

2.5 Advantages of Siddha diagnostic tools

Anosmia, Hyposmia, Dysgeusia can be easily detected. Grades of Anosmia are also detectable. It can overcome the problem of inadequate testing kits including the reagents needed to test Covid-19. Since this type of testing is easy, it also requires less manpower.

Smell and taste identification tests may be used to predict the pre-symptomatic and asymptomatic Covid carriers. Severity of the illness of a person who failed to smell the flower can be found through knowing the time of the death mentioned in Theraiyar Yamaga Venba.
If one person fails to smell *Bauhinia racemosa* flower, he is under greater severity than those who fail to smell *Cassia fistula* flower. Here we suggested that Covid-19 confirmation tests should be taken to the person immediately. By knowing severity using the traditional tests, unnecessary deaths can be avoided.

### 2.6 Disadvantage of Siddha diagnostic tests

Smell identification test has the drawback in which the availability of the flowers for testing varies according to the place and the flowering season.

#### 2.6.1 Solution for disadvantage

Aroma of the flowers is due to the emission of volatile oil compounds by the floral tissues (like the petals). So, to overcome the questionable availability of these flowers, usage of volatile oil compounds infused cards and tokens can be used. We suggest microencapsulated volatile oils contained scratch and sniff cards like UPSIT which contain strips embedded with microencapsulated odorants [12] and AROMA a novel essential oil based test [13].

![Traditional Smell Identification Test](image)

Model picture of Traditional volatile oil compound encapsulated smell card picture is given in Figure A.

### 2.7 COVID-19 a Kabavadha Disease

96 *Tattva* (principles) constitute the human body is the basis of *Siddha* medicine. The three humours *Vadham, Pitham, Kabam* are inclusive in that 96 principles. The physiological function in body is mediated by three humours. When they vitiated, they bring about diseases peculiar to their influence. So, the normal physiological functions of human carried out by the three humours, any vitiation in humours leads to pathological condition. Diseases named in the basis vitiated humours. If the single humour is provoked, according to the humour it can be called *Vadha* disease, *Pitha* disease, *Kaba* disease. If two humours are provoked, the higher instances should be named first and less provoked second as *Vadha pitha* disease, *Kaba Pitha* disease, *Kaba Vadha* disease and so on.

#### 2.7.1 Justification.1

From table C, it can be concluded that most of the signs and symptoms of Covid-19 mentioned by WHO [1] are similar to symptoms of provoked *kabam*.

<table>
<thead>
<tr>
<th>CAUSES BY ELEVATED KABAM [14]</th>
<th>COVID-19 SIGNS AND SYMPTOMS BY WORLD HEALTH ORGANISATION (WHO) [1]</th>
</tr>
</thead>
<tbody>
<tr>
<td>(i) Udal kattukal thalarthal (weak joints)</td>
<td>Arthralgia (14.8% of patients) [1]</td>
</tr>
<tr>
<td>(ii) Irumul (cough)</td>
<td>Cough (67.7% of patients) [1]</td>
</tr>
</tbody>
</table>

Table C

Similarities between elevated kabam and COVID-19 signs and Symptoms.


"Vāyuvil Kulirchithān Kudidilo Vandhidum naligalum varridathae… " [14]

When vadham is mixed with provoked kabam, vadham will not only get expanded in its place (below umbilicus) but also somewhere else (piranilai vazharchi). The remaining symptoms of COVID-19 are dry cough [1], sore throat [1], breathing difficulty [1] caused by vitiated Pranavayu, vomiting [1] caused by vitiated Udhanan, diarrhoea [1] caused by vitiated Abanan. The more provoked kabam and less provoked vadham decrease the action of pitham in the trunk region (place of pitham). This leads to rapid depletion of Pranavayu because it is functioned by pitham.

"Thānāna pitta pin kalaiyai patric Sāivāna prānavāyu vadhanai cernthu” [14]

Malfunction of pranavayu may cause the severe conditions of Covid-19 like Dyspnoea [1], Respiratory failure [1] and multiple organs failure [1]. Thus, Covid-19 may cause primarily by provoked kabam and secondarily by provoked vadham. So, Covid-19 is considered as kabavadha disease.

2.7.2 Justification.2

Naadi (pulse) is one among the Diagnostic tools of Siddha medicine. Pulse reading is an art of siddhars. The derangement of humours can be detected through pulse reading. By detecting deranged humour of a person, it can be concluded that person is being affected or will be affected by the diseases which mentioned in Siddhars’ naadi poems.

"Kandayō silaerpanathil Vadhā nādi kalanthidukil vayirporumalkanathavēkam Undālo ōngārajathāthivikkalurthurthiratchai vāivuvalu sannithodam Vindālo ilaipirumal sōgai pāndu vidapāgam vidasūlai pakkavādhan Thindādum nāsikā pēdukankal siranōigal palathum vandhu sirakunthānē” [14]

It is the poem of Kabavadhanaadi which describes that kabavadhanaadi leads to following diseases. We correlate the diseases of Kabavadhanaadi to Covid-19 complications.

- Vayirru porumal (Stomach upset),
- Okkalam (Nausea),
- Vandin (Vomiting),
- Vikkal (Hiccup),
- Thiratchai vaayu Vali (Abdominal pain).

These are digestive symptoms which are reported by several COVID-19 positive cases in China as well as United States.[21]

- Ilaippu(Fatigue)

38.1% of covid-19 patients caused by Fatigue [1].

- Irumal (cough)
67.7% of covid-19 patients are caused by cough [1].
- *Naasi noigal* (Nasal disorders)
- *Sira noigal* (Head diseases)

Loss of smell [7], Nasal congestion [1], Rhinorrhea [22] can be the presenting symptoms of Covid-19.

13.6% of Covid-19 patients caused by headache [1].
- *Kanatha veekam* (lymphadenopathy)

It may be comparable to lymphadenopathy. If not more, little Covid-19 patients suffered by lymphadenopathy. Particularly mediastinal lymph node enlargement is greater in critically ill covid-19 patients [23].
- *Vida soolai* (Stabbing pain)

Stabbing pain in Covid-19 positive case is reported [24]. Centre for Disease Control of America has added achiness in muscles ranging from mild to severe as a new symptom of Covid-19 [25].
- *Pandu, Sobai* (Anaemia)

Anaemia develops in the conditions of infection and inflammation which is called as Anaemia of Inflammation. Mostly normocytic normochromic anaemia is occurred in Anaemia of Inflammation. Red blood cells production is reduced to by cytokines acting on erythroid progenitors in Anaemia of Inflammation [26]. Though there is no evidence of Anaemia to date, the chances of occurrence are high because the presence of cytokine storm in Covid-19.

To correlate the remaining diseases of kabavadhanaadi with complications of Covid-19, the pathophysiology of covid-19 should be gone through. To date the exact pathophysiology of Covid-19 virus is not discovered. So, we analyse several hypothetical Covid-19 pathophysiology research papers.

Neutrophils are the prominent cells of innate immunity. These neutrophil counts are higher in Covid-19 patients [27]. Neutrophil extracellular traps are one of the actions of neutrophils. NETosis is the process of neutrophil extracellular traps generation. Several viruses stimulate neutrophils to generate NETs [28],[29]. Though NETosis is the mechanical entrapment of virus, it leads to overactive inflammatory response such as cytokines storm as a double-edged sword. To date there is no data about the NETs in covid-19. NETs are source of extracellular histones which have the role of contribution in ARDS and sepsis [30]. The advanced stage of covid-19 is often due to cytokine storm with ARDS like condition [31]. During NETosis Reactive Oxygen Species are produced by neutrophils through activation of NADPH oxidase [32]. Oxidative stress is an imbalanced condition between Reactive Oxygen Species and antioxidant defences. The excess ROS oxidize the proteins and lipids of not only virus infected cells but also normal cells. A research hypothesize that increased ROS alter fluid balance by modifying are damaging the epithelial sodium channels leads to oedema. Another study reveals that oxidative stress upregulates the nuclear transcription factor (NFkB) in pulmonary oedema development [33]. So, *Vida bagam* (Exaggerated condition) can be considered as the overactive inflammatory condition of Covid-19 patient.Vidalbagam is characterized by edema on particular part (may be in the lung as in Covid-19) with some bad prognosis symptoms leads to spread of vadha to whole body which acts as a poison (may be NETs formation or ROS in other organs as in Covid-19) causing death[34].

Neutrophils through NETosis act as an important contributor to the thrombus formation and progression in the blood vessel [35]. ROS involve in coagulation, platelet reactivity and sterile inflammation such as NETosis and promote the formation of Venous thrombi [36]. Some observations are made by researchers indicate arterial thrombosis strongly correlates with the oxidative stress [37]. Several research studies have confirmed that Covid-19 has thrombotic complications as stroke. Stroke is a presenting symptom of Covid-19 which is one of the main causes of paralysis [38]. *Pakkavadham* is a siddha medical term for paralysis. Although there is no evidence of paralysis to date, the chances of occurrence are high.
- *Sanni*

Sanni is a vitiated state of all the three humors. It is the critical stage of diseases. *Abinnyasya sanni* is one of the types of sanni. It is the disease that brings kabam as primary [15]. Death is expected within 15 days [34]. Critical stage of Covid-19 is similar to the Abinnyasya sanni.

From above two justifications Covid-19 can be considered as kabavadha disease. So, Pulse reading (Naadi) also give a good result to diagnose the Covid-19 as it is a kabavadha disease. To treat Covid-19, Kabha Vadha Sura Kudineer is suggested.

2.8 Kaba Vadha Sura Kudineer:

In Siddha medicine suram is defined as the appearance of heat due to change in the own state of coldness in the body [15]. There are 64 types of suram in Siddha medicine which is categorised into 20 are vadham related suram, 24 are pitham related suram, 20 are kabam related suram. Similarly, the Covid-19 fever is appeared as a primary symptom [1] due to the derangement of state of coldness in the body. So, we took covid-19 as a suram also. According to symptomatic correlation to three humours of Siddha, Covid-19 may cause by primarily by provoked kabam and secondarily by provoked vadham. There are several powders (podi),
decoction (kudineer), calcinated form of medicine (parpam), red oxide form of medicine (chendhuram), tablets (mathirai) are used in Siddha medicine for suram. Among them we choose Kaba Vadha Sura Kudineer. KVS Kis the polyherbal formulation for the treatment of kabavadha suram. There are 12 ingredients in this KVS. Drugs applied or suggested for Covid-19 are mostly categorised into Antipyretic, Antimalarial, Antiviral and Anti-inflammatory, Antioxidant, Immunomodulator [39],[40],[41],[42],[43],[44],[45]. Ingredients of KVS and their Pharmacological actions related to actions of drugs used for COVID-19 are mentioned in Table D.

### Table D

<table>
<thead>
<tr>
<th>INGREDIENTS IN KVS</th>
<th>PHARMACOLOGICAL ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kadukkai (Terminalia chebula) Nellikai (Phyllanthus embilica) Thandrikai (Terminalia bellerica) Thiripala</td>
<td>Antioxidant, Anti-inflammatory, Antipyretic, Immunomodulator [46].</td>
</tr>
<tr>
<td>Tippili (Piper longum)</td>
<td>Anti asthmatic, Against respiratory depression, Antioxidant, Immunomodulator [47].</td>
</tr>
<tr>
<td>Korai Kilangu (Cyperus rotundus)</td>
<td>Anti-inflammatory, Antipyretic, Antioxidant, Antimalarial [48].</td>
</tr>
<tr>
<td>Thetrankottai (Strychnos potatorum)</td>
<td>Antioxidant, Anti-inflammatory, Antipyretic [49].</td>
</tr>
<tr>
<td>Sensandhanam (Pterocarpus santalinus)</td>
<td>Antioxidant, Anti-inflammatory [50].</td>
</tr>
<tr>
<td>Athimathuaram (Glycyrrhiza Glabra)</td>
<td>Antioxidant, Anti-inflammatory [51].</td>
</tr>
<tr>
<td>Kostam (Costus speciosus)</td>
<td>Antioxidant, Anti-inflammatory, Antipyretic [52].</td>
</tr>
<tr>
<td>Sivanarvembu (Indigofera aspalathoides)</td>
<td>Antioxidant, Anti-inflammatory, Antiviral [53].</td>
</tr>
<tr>
<td>Thoothuvai (Solanum trilobatum)</td>
<td>Antioxidant, Immunomodulator, Anti-inflammatory [54].</td>
</tr>
<tr>
<td>Semmuli (Leonotis nepetifolia)</td>
<td>Antioxidant [55].</td>
</tr>
</tbody>
</table>

### III. Results and Discussion

Siddha medicine is an Indian medical system it has been practiced by Siddhars at Tamilnadu in India. Siddhars are pillars of Siddha medicine who attained Attaamasiddhis (spiritual powers). They are Anima (Shrinking), Magima (Illimitability), Lagima (Lightness), Karima (Weightiness), Prapthi (Desire fulfilment), Pirakamiyam (Irresistible will), Vasithvam(Domination over the elements), Ishathvam(supremacy). Several Diagnostic and treatment methods of Siddha medicine are documented as poems on Palm leaves manuscripts in olden days. In addition to eight criteria of physical examination (Envagai thervu) there are some signs of impending death through smell, taste, pulse, stool, sound etc. which is also mentioned in Siddha texts. Among them smell and taste tests are easily applicable to all, because may be used as self investigative tools. According to Theraiyar Yamaga Venba, a person who failed to smell a flower, but he can smell that flower’s smell from other all six flowers he will die within the period mentioned in Table B. To overcome the drawback of questionable availability of flowers, we suggest microencapsulated volatile oils contained scratch and sniff cards like UPSIT which contain strips embedded with microencapsulated odorants [12] and AROMA a novel essential oil-based test [13]. Like UPSIT, AROMA etc. Traditional smell identification test also utilises microencapsulated essential oil strips as scratch and sniff cards. The model picture of traditional smell identification test shown in figure A.

Taste identification test is implemented as questionnaire method. Taste identification test also similar to the smell identification test that a person fails to sense particular taste, but it can be sensed from other all 5 taste foods he will die with the particular time duration of death. Naadi will also act as a strong diagnostic method for Covid-19. If these Diagnostic tests are implemented on public, Covid-19 symptomatic persons may be identified. If these tests are implemented on suspected people who are under hospital quarantine, prognosis stage and severity of disease may also be identified.
Another theory about smell and taste sensations as signs of impending death. In Covid-19 fever is a primary symptom [1]. The Siddha concept is, “Kudal thannil sēdhāmaḷluhū suram varāthu” [15]

**Explanation:** No fever occurs without accumulation of kabam humour in intestine. So, covid-19 is considered as suram based on Siddha concepts. Primarily provoked kabam cause the derangement of vadham which leads to provoke vadham. Two third of Covid-19 symptoms caused by provoked kabam, remaining one third symptoms by provoked vadham. So, Covid-19 is considered as Kabavadhurasram. KVSK is one among recommended drug for kabavadhara suram. It is the polyherbal formulation contains 12 ingredients. Each herb possesses any of the pharmacological actions as Antioxidant, Immunomodulator, Antipyretic, Antimalarial, Anti-inflammatory, and Antiviral. The both Diagnostic tests and KVSK may used to overcome Covid-19 a pandemic.

IV. Conclusion

The study conducted by Indian Council of Medical Research indicated that one patient can infect up to 406 people within 30 days in the absence of self isolation. If social exposure is reduced by 75% then he/she can only affect 3 persons [56]. So, to prevent the rapid spread of coronavirus, the traditional tests such as Naadi, Taste and Smell test mentioned in the Siddha text Theraiyar Yamaga Venba should be integrated with modern diagnostic tools, all the diseases should be looking at the kutraam ie, vitiated stage of three humours. Because according to Siddha there is no diseases beyond the mastery of three humours. By equalising the vitiated stage of humours, the cruel disease Covid-19 too medicable. As Covid-19 is a kabavadhurasram, Kaba Vadha SuraKudineer is preferred. We have explained in detail how Covid-19 is classified under kabavadhara disease. Scientific evaluation is essential to prove the synergistic effect of ingredients in this polyherbal formulation. In future we should elucidate the epidemiological, clinical and several science studies to expose the mechanism underlying these traditional test strategies with advanced research and recent technologies.

**Declaration of conflicting interests**

None

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