

Psychological implications during the outbreak of COVID-19 and its homoeopathic management

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Abstract

Background: Coronavirus disease 2019 (COVID-19) is rapidly spreading across the globe and is creating dread among all people irrespective of their socioeconomic status. To tackle the rapid spread of the disease, social distancing has been found to be the only measure. However, such distancing creates a lot of mental stress, as evident from previous studies. **Objectives:** The objective of the study was to assess the psychological implications during quarantine and isolation and to find the homoeopathic remedies that may be suitable. **Methods:** We have tried to collect the mental symptoms from the available literature and from the recent studies in China on COVID-19. Based on these, repertorisation outcome was analysed to evolve a group of medicines that can be used in the scenario. **Results:** Based upon the symptoms collected from the previous studies, repertorisation outcome [Figure 1] was analysed to evolve a group medicine which can be used in the scenario. The medicines *Arsenic album*, *Calcarea carbonica*, *Lachesis*, *Ignatia* and *Pulsatilla* obtained the highest marks in the analysis. The symptoms of these medicines were collected after referring the Hering's *Guiding Symptoms of Materia Medica*³¹ and *Desktop Guide to Keynotes and Confirmatory Symptoms* by Roger Morrison³² and are presented in the paper. **Conclusion:** We hope that these medicines will prove to be beneficial for prescription to those suffering from the psychological impacts of COVID-19.

Keywords: Homoeopathy, Lockdown, Psychological implications

INTRODUCTION

Coronavirus is one of the key pathogens that primarily targets the human respiratory system. The initial cases of the novel coronavirus disease outbreak were epidemiologically linked to a seafood and wet animal wholesale market in Wuhan, Hubei Province, China.^[1,2] The name of the virus isolated was given as severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), and the World Health Organisation (WHO) announced 'COVID-19' as the name of this new disease on 11th February, 2020. On 30th January, 2020, the WHO Director-General declared that the outbreak of coronavirus disease 2019 (COVID-19) constitutes a Public Health Emergency of International Concern.^[3] The source of the virus, the time span of the patients discharging infective virus and also the complete pathogenesis are still not clear.^[4]

Based on the currently available epidemiological survey, the latency period is generally from 3 to 7 days, with a maximum of 14 days.^[5] Unlike SARS-CoV, 2019-nCoV is contagious during the latency period.^[6] Death cases are more frequently seen in the elderly and those with chronic underlying diseases.^[7]

Any major epidemic outbreak has negative effects on individuals and the society as a whole. Pandemics are 'frequently marked by uncertainty, confusion and a sense of urgency.'^[8] Prior to, or in the early stages of a pandemic, there is widespread uncertainty about the odds and seriousness of becoming infected, along with uncertainty and possible misinformation, about the best methods of prevention and management.^[9] Pandemics are associated with a score of other psychosocial stressors, including health threats to oneself and loved ones. There may be severe disruptions of routines, separation from family and friends, shortages of food and medicine, wage loss, social isolation due to quarantine or other social distancing programs and school closure. Personal financial hardship can occur if a family's primary wage earner

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is unable to work because of illness.^[10] As the COVID-19 pandemic and its far-reaching implications continue to unfold globally and, in our community, it is normal for people to experience a wide range of feelings.

QUARANTINE IN CORONAVIRUS DISEASE 2019

The word quarantine was first employed in Venice, Italy, in 1127 with regard to leprosy and was widely used in response to the Black Death. However, it was not until 300 years later that the UK properly began to impose quarantine in response to the plague.^[11] Most recently, quarantine has been implemented in the COVID-19 outbreak in most of the countries such as China, Iran, Italy, India and Gulf countries.

People who are exposed to an infectious disease and may be infected but are not yet showing symptoms may be quarantined. It is done for a period not more than the longest usual incubation period of the disease. Quarantine may comprise absolute quarantine, modified quarantine (selective partial limitation of movement) and segregation which is defined as separation for special consideration. With better techniques, quarantine had become an outdated method of disease control.^[12] However, during COVID-19, it has again proved to be a successful method of disease control.

The WHO recommends that contacts of patients with laboratory-confirmed COVID-19 should be quarantined for 14 days from the last time they were exposed to the patient. For the purpose of implementing quarantine, a contact is a person who is involved in any of the following from 2 days before and up to 14 days after the onset of symptoms in the patient:

- Having face-to-face contact with a COVID-19 patient within 1 meter and for >15 min
- Providing direct care for patients with COVID-19 disease without using proper personal protective equipment
- Staying in the same close environment as a COVID-19 patient (including sharing a workplace, classroom or household or being at the same gathering) for any amount of time
- Travelling in close proximity with (that is, within 1 m separation from) a COVID-19 patient in any kind of conveyance and other situations, as indicated by local risk assessments.^[13]

ISOLATION

Isolation is the separation of the infected persons for a period of communicability to prevent the transmission of an infectious agent.^[9] This is for individuals who are sick from the contagious disease. The type of isolation varies with the mode of spread and severity of the disease. There are several types of isolation – standard isolation, strict isolation, protective isolation and high-security isolation. Strict isolation has been imposed during COVID-19. It is apparently going to last long, at least until a cure is established or the effect of the contagion weans off with time. The duration of the isolation is determined

by the duration of the communicability of disease and the effect of chemotherapy on infectivity.^[9]

The American Psychological Association reports that social isolation carries a number of health risks.^[14] Feeling isolated can lead to poor sleep, poor cardiovascular health, lower immunity, depressive symptoms and impaired executive function. When executive function skills are impaired, one may find it more difficult to focus, manage one's emotions, remember information and follow directions.

BACKGROUND

While each epidemic is unique, looking at past events can provide a look into the psychological impact that quarantines can cause.

On our search across various electronic databases such as MEDLINE, Embase, CINAHL and PubMed using the keywords 'quarantine', 'isolation', 'psychosocial', 'mental disorders' and 'suicidal', we could assess that transmission of infectious diseases affects the mental and social well-being of persons. It has been found that acute exposure to quarantine and isolation can have long-lasting effects on the mental processes. Such effects were found among the patients, informal caregivers and even health-care providers. This indicates the complex psychosocial dynamics among the key stakeholders in the process of quarantine or isolation.^[15] Confinement to a small area for a long period in quarantined people and fear of death or infecting loved ones can lead to desperate measures including suicides.^[16]

Between 2002 and 2004, more than 15,000 people in Toronto voluntarily went into quarantine to prevent exposure to SARS. SARS, like COVID-19, is a contagious respiratory illness caused by a coronavirus. For a period of around 10 days, these individuals were asked not to leave their homes, not to have visitors, to wear face masks around other family members, to avoid sharing personal items and to wash their hands frequently, among other measures. Later research indicated that quarantined individuals experienced a range of both immediate and long term psychological consequences.^[17]

All those surveyed reported feeling isolated while in quarantine as a result of the lack of social and physical contact with others. People felt cutoff from the rest of the world because they were unable to do normal activities. For some, health precautions such as wearing a face mask increased their feelings of anxiety and isolation. In addition to the feelings of social isolation during quarantine, participants reported longer-lasting psychological distress for around a month afterward. Almost 29% of participants displayed post-traumatic stress disorders (PTSD) symptoms, while 31.2% had depressive symptoms. Stigma can also create mental distress following quarantine. One study found that 29% felt that other people avoided them after they had been in quarantine.^[17]

A 2020 review in the *Lancet* analysed the results of past studies to get a better idea of how COVID-19 may impact those who

are quarantined. The review found that psychological distress is common both during and after periods of quarantine.^[18] Several mental disorders and psychological conditions were found across study populations, which included low self-esteem,^[19-22] mood disorders,^[18,22] fear,^[18,20] guilt,^[18] loneliness,^[20-23] boredom,^[20,21] feeling a lack of control,^[21-23] insomnia,^[18] PTSD,^[18] perceived dirtiness,^[22] vigilant handwashing^[18] and avoiding crowds and social gatherings even after quarantine or isolation.^[18]

There are evidences which suggest that there may be longer-term consequences as well. Substance and alcohol dependency were more common up to 3 years after quarantine.^[18] For health-care workers,^[24] being quarantined was significantly and positively associated with avoidance behaviours, such as minimising direct contact with patients and not reporting to work.

DIAGNOSTIC CRITERIA OF MENTAL HEALTH IMPACTS OF CORONAVIRUS DISEASE 2019

The mental health impact of COVID-19 is not diminutive. It ranges from a simple anxiety to suicidal deaths.

According to the ICD-10 classification mental and behavioural disorders, the mental health impact of COVID-19 can be categorised under the following diagnosis:

F43 reaction to severe stress and adjustment disorder

Adjustment disorders include those disorders identifiable on the basis of one or other of two causative influences – an exceptionally stressful life event producing an acute stress reaction or a significant life change leading to continued unpleasant circumstances. The causative importance of such stress is not always clear and, in each case, depends on the individual, often idiosyncratic, vulnerability. The stressful event or the continuing disagreeableness of circumstances is the primary causal factor, and the disorder would not have occurred without its impact. Reactions to severe stress and adjustment disorders in all age groups, including children and adolescents, are included in this category.

- F43.0: Acute stress reaction
- F43.1: PTSD
- F43.2: Adjustment disorders
 - 20: Brief depressive reactions
 - 21: Prolonged depressive reaction
 - 22: Mixed anxiety and depressive reaction
 - 23: With the predominant disturbance of other emotions
 - 24: With the predominant disturbance of conduct
 - 25: With mixed disturbance of emotions and conduct
 - 28: With other specified predominant symptoms.
- F43.8: other reactions to severe stress
- F43.9: Reaction to severe stress, unspecified.

These disorders interfere with successful surviving mechanisms and thus lead to difficulties in social functioning.^[25]

HOMOEOPATHIC PERSPECTIVE

Homoeopathy integrates mental and physical domains for

treatment. There has been sufficient literature for successful treatment of the psychological problems with Homoeopathy.^[26-29] An intelligent and careful case taking which elicits appropriate individualising features in a case can offer a relatively better relief for the people suffering during epidemic like COVID-19. An attempt has been made earlier to collect the mental symptoms developed in laypeople and health-care workers during the period of epidemics. Brooks *et al.* found several mental health conditions among the health-care providers who worked under quarantine, which included acute stress disorder, exhaustion, detachment, anxiety, depression, irritability, insomnia, poor concentration, deterioration of work performance, alcohol use, avoidance behaviour and posttraumatic stress-related symptoms, even after 3 years of quarantine period.^[30] Abad *et al.* reported a few participants acknowledged privacy and freedom during isolation, whereas the remaining studies reported higher scores from depression, anxiety, anger–hostility, fear, loneliness, boredom and low self-esteem.^[20] Based on the symptoms collected from the previous studies, repertorisation outcome [Figure 1] was analysed to evolve a group medicine which can be used in the scenario. The medicines such as *Arsenicum album*, *Calcarea carbonica*, *Lachesis*, *Ignatia* and *Pulsatilla* obtained the highest marks in the analysis. The symptoms of these medicines were collected after referring the Hering’s *Guiding Symptoms of Materia Medica*^[31] and *Desktop Guide to Keynotes and Confirmatory Symptoms* by Roger Morrison^[32] and are presented below:

Arsenicum album

The symptoms of *Arsenicum album* are as follows.^[32]

- Early phase anxiety-marked emotional symptoms are irritable, critic and discontent
- As the insecurity becomes more extensive, the patient develops anxiety and frightening panic attacks with trembling and restlessness and a great desire for company and reassurance
- The patients’ anxiety is most often focused on health issues
- Fear of death to his/her very core
- Arsenic can cure deep phobic disorders, such as advanced cases of agoraphobia
- Cautious

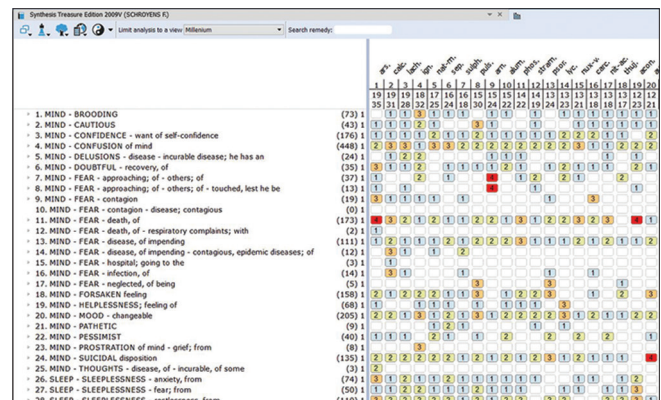


Figure 1: Repertorial analysis

- The great insecurity causes anxiety and caution in any dangerous situation
- Anxiety and fear extended to obsessive behaviour
- Fastidious
- Desire to remain in control at all times. Careful planning
- Depression even to the point of suicide
- Anorexia nervosa.

Calcarea carbonicum

The symptoms of *Calcarea carbonica* are as follows.^[31,32]

- This remedy may be beneficial for especially overbearing depression. Patients may feel they have sunk so low they are at the bottom of the ocean
- They are so overwhelmed and exhausted; they cannot seem to swim to the surface. They worry and fret over everything, even the most seemingly unimportant issues
- Work may seem like a daunting task that continues to pile up and will never be finished.
- Fear of infection and disease
- Anxiety and fear about health money (insecurity feelings)
- Aversion to hearing bad news
- Despair about recovery
- Confusion
- Restlessness at night due to fear
- This can spin into depression and melancholy. They tend to suffer from a lot of self-doubt and may prefer to go home and curl up by themselves and cry.

Lachesis mutus

The symptoms of *Lachesis mutus* are as follows.^[32]

- Depressed and anxious, worse in morning on waking. Suicidal disposition
- Fantasies of his own funeral
- Great anxiety and deep phobic conditions
- Ailment from grief
- Anxiety with sleeplessness
- Inferiority and inhibition
- Alcoholism and drug addiction
- Fear of incurable disease
- Prostration of mind from grief
- Fear of contagions.

Ignatia amara

The symptoms of *Ignatia amara* are as follows.^[31,32]

- *Ignatia* is a short-acting or superficial remedy. It is certainly the case that when grief has caused pathological changes in the tissue rather than a functional disorder, we prefer remedies like *Ignatia*, *Natrum muriaticum* and *Aurum*. However, as noted, *Ignatia* covers many particular physical disorders
- Oversensitive patient almost a setup for disappointments and leads to easily hurt feelings
- And yet, it is often difficult or even impossible for the patient to release the emotions. Instead, they remain cramped inside. Often, this cramping of emotions leads to defectiveness and may cause the patient to act in a rude,

- suspicious or challenging manner towards the prescriber
- Ailment from grief and disappointment
- We use *Ignatia* only when the grief is unresolved or lasts excessively or produces symptoms
- Deep sighing
- Desire to avoid crying giving way to sobbing
- Aversion to consolation
- Hysterical symptoms.

Pulsatilla nigricans

The symptoms of *Pulsatilla nigricans* are as follows.^[31,32]

- Weeps while telling about her problems
- There is often a strong desire for tenderness and reassurance in the typical *Pulsatilla* patient
- Changeable mood confusion
- Weepy alternate with irritable – this occurs generally if the patient needs attention and feels she is deprived
- *Pulsatilla* can go into deeply apathetic states, senility or even catatonia
- Feel forsaken
- Excessive praying
- Fainting from the stuffy room.

CONCLUSION

The psychological pain caused by the loss of loved ones, living separated, deprivation of freedom and loss of position can be devastating. Hence, it is high time to look into the psychological issues encountered by those who have COVID-19 infection and those quarantined or isolated or suffered from the after effects of the infection.

Before such patients progress to severe mental derangement, we ought to give them hope for future life. Central Council for Research in Homoeopathy has done many studies^[26-29] in the field of psychiatry and homoeopathic intervention has proved to be effective. Based on this context, we hope that Homoeopathy can offer help to those suffering from the psychological effects of COVID-19.

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Conflicts of interest

None declared.

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कोविड 19 के प्रकोप के दौरान मनोवैज्ञानिक जटिलताएं और होम्योपैथी द्वारा इनका प्रबंधन

पृष्ठभूमि: 2019 का कोरोना वायरस रोग (कोविड-19) पूरे विश्व में तेजी से पाँव पसार रहा है और सभी लोगों के अंदर उनकी सामाजिक-आर्थिक स्थिति की परवाह किए बिना भय उत्पन्न कर रहा है। रोग के तीव्र प्रसार से निपटने के लिए, सामाजिक दूरी को ही एकमात्र उपाय पाया गया है। हालांकि, इस तरह की दूरी बहुत सारी मानसिक तनाव उत्पन्न करती है, जैसा कि चीन में हाल ही में किए गये अध्ययनों से प्रकट होता है।

उद्देश्य: इस अध्ययन का उद्देश्य था, क्वारांटाइन (एकांतवास) एवं आइसोलेशन (पृथक्वास) के दौरान, मनोवैज्ञानिक जटिलताओं का आकलन करना और उपयुक्त होम्योपैथी दवाओं का पता लगाना।

विधि: हमने उपलब्ध साहित्य और कोविड-19 पर चीन में किये गये नवीनतम अध्ययनों से प्राप्त मानसिक लक्षणों को एकत्रित करने का प्रयास किया है। इन पर आधारित, रेपर्टाइजेशन के परिणामों का विश्लेषण औषधियों के एक समूह को विकसित करने के लिए किया गया जिसका उपयोग परिदृश्य में किया जा सकता है।

परिणाम: पूर्व अध्ययनों से प्राप्त लक्षणों के आधार पर, रेपर्टाइजेशन के परिणामों (चित्र 1 एवं 2) का आकलन करने पर है। *आर्सेनिकम एल्बम*, *कैल्केरिया कार्बोनिक्वा*, *लैकैसिस*, *इग्नैशिया* और *पल्सेटिला* औषधियों ने विश्लेषण में उच्चतम अंक प्राप्त किए। इन औषधियों के लक्षणों को हेरिंग के गाइडिंग सिम्पटम्स ऑफ मैटेरिया मेडिका और रोजर मॉरिसन द्वारा लिखित 'डेस्कटॉप गाइड टू की नोट्स एंड कंफर्मेटरी सिम्पटम्स' को उद्धृत करने के पश्चात एकत्रित किया गया था और शोधपत्र में प्रस्तुत किया गया है।

निष्कर्ष: हमें आशा है कि ये औषधियाँ कोविड-19 के मनोवैज्ञानिक प्रभावों से पीड़ित उन रोगियों के उपचार के लिए उपयोगी सिद्ध होंगी।

Implications Psychologiques Pendant l'épidémie de COVID-19 et sa Gestion Homéopathique

Contexte: La maladie Coronavirus 2019 (COVID-19) se propage rapidement à travers le monde et pose une crainte chez toutes les personnes, quel que soit leur statut socioéconomique. Pour lutter contre la propagation rapide de la maladie, la distanciation sociale s'est avérée être la seule mesure. Cependant, une telle distance crée beaucoup de stress mental, comme le montrent les études précédentes. **Objectifs:** L'objectif de l'étude était d'évaluer les implications psychologiques pendant la quarantaine et l'isolement et de trouver les remèdes homéopathiques qui pourraient convenir. **Méthodes:** Nous avons essayé de collecter les symptômes mentaux à partir de la littérature disponible et des récentes études en Chine sur Covid-19. Sur la base de ceux-ci, le résultat de la repertorisation a été analysé pour faire évoluer un groupe de médicaments pouvant être utilisés dans le scénario. **Résultats:** Sur la base des symptômes collectés lors des études précédentes, le résultat de la repertorisation (figures 1 et 2) a été analysé pour développer un médicament de groupe qui peut être utilisé dans le scénario. Les médicaments *Arsenicum album*, *Calcarea carbonica*, *Lachesis*, *Ignatia* et *Pulsatilla* ont obtenu les notes les plus élevées de l'analyse. Les symptômes de ces médicaments ont été collectés après avoir référé le *Guide de référence de Hering sur les symptômes de la matière médicale et le Guide de bureau aux notes d'identification et aux symptômes confirmatifs (GuidingSymptoms of Materia Medica and Desktop Guide to Keynotes and ConfirmatorySymptoms)* de Roger Morrison et sont présentés dans le document. **Conclusion:** Nous espérons que ces médicaments s'avéreront bénéfiques pour la prescription à ceux qui souffrent des impacts psychologiques de COVID-19.

Implicaciones psicológicas durante el brote de COVID-19 y su gestión homeopática

Antecedentes: La enfermedad coronavirus 2019 (COVID-19) se está extendiendo rápidamente por todo el mundo y está creando temor entre todas las personas independientemente de su estado socioeconómico. Para hacer frente a la rápida propagación de la enfermedad, se ha encontrado que el distanciamiento social es la única medida. Sin embargo, tal distanciamiento crea mucho estrés mental, como se desprende de estudios anteriores. **Objetivos:** El objetivo del estudio fue evaluar las implicaciones psicológicas durante la cuarentena y el aislamiento y encontrar los remedios homeopáticos que pudieran ser adecuados. **Métodos:** Hemos tratado de recoger los síntomas mentales de la literatura disponible y de los estudios recientes en China sobre Covid-19. En base a estos, se analizó el resultado de la repertorización para desarrollar un grupo de medicamentos que se pueden utilizar en el escenario. **Resultados:** Sobre la base de los síntomas recogidos de los estudios anteriores, se analizó el resultado de la repertorización (Figuras 1 y 2) para desarrollar un grupo de medicamentos que se pueden utilizar en el escenario. El álbum de medicamentos *Arsenicum*, *Calcarea carbonica*, *Lachesis*, *Ignatia* y *Pulsatilla* obtuvieron las marcas más altas en el análisis. Los síntomas de estos medicamentos se recogieron después de remitir los síntomas Guía de Hering de la materia Medica y la Guía de Escritorio a las notas clave y los síntomas confirmatorios por Roger Morrison y se presentan en el artículo. **Conclusion:** Esperamos que estos medicamentos resulten beneficiosos para la prescripción de aquellos que sufren los impactos psicológicos del COVID-19.

Psychologische Implikationen während des Ausbruchs von COVID-19 und seiner homöopathischen

Hintergrund: Die Coronavirus-Krankheit 2019 (COVID-19) breitet sich weltweit rasant aus und erzeugt bei allen Menschen Angst, unabhängig von ihrem sozioökonomischen Status. Um der raschen Ausbreitung der Krankheit entgegenzuwirken, wurde festgestellt, dass die soziale Verteilung die einzige Maßnahme ist. Jedoch, eine solche Deistancing schafft eine Menge von psychischen Stress, wie aus früheren Studien gezeigt. **Ziele:** Ziel der Studie war es, die psychologischen Quarantäne und Isolierung und die homöopathischen Heilmittel zu finden, die geeignet sein können. **Methoden:** Wir haben versucht, die psychischen Symptome aus der verfügbaren Literatur zu sammeln und aus den jüngsten Studien in China auf Covid-19. Auf dieser Grundlage wurde das Ergebnis der Repertorisierung analysiert, um eine Gruppe von Arzneimitteln zu entwickeln, die in dem Szenario verwendet werden können. **Ergebnisse:** Basierend auf den Symptomen aus den vorherigen Studien wurde das **Repertorisierungsergebnis (Abbildungen 1 und 2) analysiert, um ein Gruppenarzneimittel zu entwickeln, das im Szenario verwendet werden kann. Die Medikamente Arsenicum Album, Calcarea carbonica, Lachesis, Ignatia und Pulsatilla erhielten die höchsten Noten in der Analyse. Die Symptome dieser Medikamente wurden gesammelt, nachdem sie die Hering es Guiding Symptoms of Materia Medica und Desktop Guide auf Keynotes und Confirmatory Symptoms von Roger Morrison bezogen hatten und werden in dem Papier vorgestellt. Fazit:** Wir hoffen, dass sich diese Medikamente als vorteilhaft für die Verschreibung für diejenigen erweisen werden, die unter den psychologischen Auswirkungen von COVID-19 leiden.

心理涵义在COVID-19和它的顺势疗法管理期间爆发

背景: 冠状病毒病2019 (COVID-19) 在全球范围内迅速蔓延, 并在所有人中造成恐惧, 无论其社会经济地位如何。要应付疾病的迅速传播, 社会疏远被发现唯一的措施。然而, 这种疏远创造了很多精神压力, 从以前的研究中可以看出。客观: 研究的宗旨将估计心理涵义在检疫和隔离期间和发现也许是适当的顺势疗法补救。

方法: 我们在中国设法收集精神症状从可利用的文学和从最近研究在Covid-19。基于这些, 补全模块结果进行了分析, 以演变一组可以在方案中使用的药物。 **结果:** 根据从以前的研究中收集的症状, 分析了补全模块结果 (图1和2), 以演变一种可用于该方案的群体药物。药物砷专辑, 卡尔卡雷亚碳, 拉奇西斯, 伊格纳蒂亚和白头翁获得最高评分。这些药物的症状是参照本草赫林指导我们本草的症状和桌面指南主题演讲和确认症状由罗杰莫里森, 并在文件中提出。

结论: 我们希望这些药物将被证明是有益的处方给那些患有COVID-19的心理影响。