

ANALYZING THE INDUWILIZED HOMOEOPATHIC TREATMENT OF POST-COVID SYNDROME WITH EFFECTIVENESS OF CALCAREA CARBONICA 200 POTENCY AND DETERMINATION OF IgG LEVEL

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ABSTRACT

The survival of assorted symptoms with beyond the acute phase of COVID-19, is referred to as post-COVID syndrome (PCS). In COVID-19 pandemic, the majority of us are actually frustrated owing to coronavirus because largely the people are afflicted from some sorts of mental disorders due to the panic and unstable frame which leads to anxiety, unhappy, unsatisfied, and non-productive life. We intend to state series of patients with PCS attending a post-COVID unit and tender to wide-ranging reassessment. The process of case study consists of data collection, appraisal of distribution of patients and recurrence of symptoms and their extent interiority. The IgG assays to detect the degree and derivation of humoral responses against SARS-CoV-2, consequently these antibodies can remain and detected from few days after the onset of diseases and might stay in the body constantly after years of infection too, besides the person might become vulnerable to reinfection after the wide-ranging reduction of insusceptible retort. Adult and old age patients with formerly confirmed COVID-19 infection and PCS were systematically assessed and treated with Homoeopathic medicine Calcarea Carbonium through the emphasis have been notoriously allied by means of enhancing the signs as an effective universal prognostic factor, beneficial to diminish the IgG level and more over it strengthens the immune system in safe and effective tool, easily be integrated and enhances the body's ability to restore balance in curative method.

KEYWORDS: Calcarea Carbonica, COVID-19, Homoeopathy medicines, IgG, SARS-CoV-2.

INTRODUCTION:

Post-COVID syndrome is recognized as new-fangled clinical entity in the context of SARS-CoV-2 infection as well as the symptoms dogging and besides pointed at more than three weeks after the positive consequence of Covid-19 which categorized as post-COVID syndrome. ⁽¹⁾ Its prevalence ranges from 45% to 75%, however, rates as high as 85% have been reported among patients with a history of hospitalization. The pathogenesis of post-COVID disorder is multifactorial and greater degree of one appliance may be implicated in numerous irrefutable manifestations. ⁽²⁾ Sustained inflammation partakes a strategic protagonist in its deleterious

interpretation which intended on neurological impediments, cognitive dysfunction, and several other symptoms.

Over 218 million candidates reported cases of the corona virus disease (COVID-19) and approximately 4.5 million interrelated with deaths in 2021. We have been facing on greatest threats of human beings constantly. It can be difficult to distinguish symptoms caused by post-COVID conditions from symptoms that occur for other reasons. Patients experiencing the acute and post-acute effects of COVID-19, along with social isolation resulting from COVID-19 pandemic prevention measures, frequently suffer from symptoms of depression, anxiety, or mood changes.⁽³⁾ This study aimed to determine the IgG responses against severe acute respiratory syndrome in coronavirus disease 2019 (COVID-19) patients with varying illness severities. IgG antibody levels were assessed via anti-body test in COVID-19 patients. IgG was detectable after 1 week and was maintained at a high level for a long period. The positive rates of IgG antibody detections were not significantly different among the mild, severe and critical disease groups.

Calcarea carbonica is a homeopathic remedy made from the middle layer of shells. In chemical terms, Calcarea carbonica is impure calcium carbonate, CaCO_3 . Calcarea carbonica is in general considered a "chilly" remedy, appropriate for people who suffer keenly from the cold and have difficulty keeping warm. A homeopathic practitioner who is asking a patient about symptoms will inquire about the circumstances⁽⁴⁾ (e.g., light or dark, heat or cold, rest or activity, etc.) that make the patient feel better or worse. This study is particularly designed to access the IgG antibodies in various COVID-19 subjects. This will help predict the reinfection probabilities among the local population and predict the length and efficacy of the homoeopathic medicine Calcarea Carbonicum. It is well known that some persons are susceptible to one thing and some to another. If an epidemic comes upon the land only few come down with it. Why are some protected and why do others take to. these things must have settled by the doctrine of homoeopathy; idiosyncrasies must be accounted.⁽⁵⁾

MATERIALS AND METHODS:

This research study includes the materials that are use full in the collection of data. Where 5 patients were case taken thoroughly and they are presented with post Covid syndrome symptoms like headache, breathing difficulty, chest pain, constipated, Flatulence, hard stool, trickling of urine after micturition, inability to sleep, crowded of thoughts during night, palpitation, anxiety, exhaustion and weakness.

Case I – A 43-year-old male patient complaints of cough with headache since 6 months after the attack of Covid fever usually aggravated at night. And patient complaints about whenever he coughs accompanied with chest pain and he has recurrent attack of headache. His sleep was disturbed after the attack of fever and he has anxiety accompanied with nausea, vomiting and fatigue. Patient had known hypertension for 3 years.

Case II – A 66-year-old male patient complaints about shortness of breath with chest pain since 5 months after the attack of Covid fever. The complaint gradually started of chest pain and then shortness of breath occurs and aggravated due to physical exertion. And the patient has recurrent attack of chest pain. Appetite reduced and also sleep disturbed. Patient had known diabetes and hypertension for 13 years.

Case III- A 32-year-old female patient had cough without expectoration accompanied with fatigue since 3 months after the attack of Covid and the patient complaint about weight loss and tiredness

of whole body. And also had inability to sleep due to over activity of mind and crowded of thoughts during night, palpitation and anxiety, exhaustion and weakness. patient had no relevant past history.

Case IV- A 53-year-old female patient had complaints of breathing difficulty with headache since 4months after the attack of Covid 19.and also had heaviness of head during night, constipated, Flatulence, hard stool, trickling of urine after micturition and involuntary urine on every motion, dyspnoea and anxiety during ascending stairs. Patient had known diabetes for 8 years.

Case V- A 41-year-old female patient had a complaint of cough without expectoration and also has sneezing in morning after the attack of Covid 19 before 2 months. And also has mental confusion on decision making, sleep disturbance with dreams of darkness and amorous dreams during menses, pain and swelling of breast. Flatulence and distension of abdomen. Patient had known diabetes and hypertension for 7 years.

Table 1: data of case

Case no	process of symptoms	Igg level Before treatment	Age and sex	Duration of symptoms	Recurrence of symptoms
Case I	Cough with headache, anxiety with nausea, vomiting and fatigue.	>75AU/mL	43/Male	6 months	Headache monthly thrice, Cough with headache
Case II	Shortness of breath with chest pain, Appetite reduced and also sleep disturbed.	>370 AU/mL	66/male	5 months	Chest pain occasionally, Shortness of breath
Case III	Cough with fatigue, weight loss and tiredness of whole body and crowded of thoughts during night	>450 AU/mL	32/female	3 months	Tiredness of whole body, Cough with fatigue
Case IV	Breathing difficulty with headache, heaviness of head during night, constipated, hard stool, dyspnoea and anxiety	>122 AU/mL	53/female	4 months	Breathing difficulty weekly once, with headache.

	during ascending stairs.				
Case V	Cough with sneezing, sleep disturbance with mental confusion on decision making, dreams of darkness.	>390 AU/mL	41/female	2 months	Cough with Sneezing daily morning

RESULTS AND DISCUSSION:

Solely selected 5 cases from Sarada Krishna OPD and the case were taken thoroughly and they have prescribed with Calcarea carb 200 and all 5 patients were instructed to take IgG level test before treatment. After 4 to 5 months of treatment under homoeopathy, patients showed well improvement in their symptoms and also again instructed to take post IgG level test which shows remarkable change.

Table 2: assessment of distribution of patients

Case no	Before treatment			After treatment		
	Mild	Moderate	Sever	Mild	Moderate	Sever
Case I	8	8	7	1	1	0
Case II	9	9	8	2	1	0
Case III	10	10	9	0	1	1
Case IV	6	8	5	1	0	1
Case V	7	9	8	1	2	0

A clear, causal attribution to the proven remedy in terms of the Hahnemannian proving, would be possible. Generally, it would also be easy in terms of the examined problem. Therefore, these sequelae-symptoms, which are increasingly considered in comprehensive rubrics of modern repertories, deserve to be considered with a completely different valuation. They are usually mere

observations of cure.⁽⁶⁾ Only a very few passages of his writings mention the possible confirmation of proving symptoms by means of cured cases, as in the preface to the remedy picture. It is interesting in this regard, that he quotes cases which also showed “sequelae symptoms”. However, Hahnemann relates them to the known primary effects of medicine in proving.⁽⁷⁾ This relation of cured symptoms to proving symptoms is a necessary requirement for their value, although it remains less significant. According to Hahnemann, they should only be used for “the confirmation of the remedy choice made according to the pure action of the remedy” if they occurred during the proving on a healthy human being.⁽⁸⁾

Table3: Distribution of Patient in Recurrence of Symptom

Duration of illness	of Recurrence of symptom	of 3 rd month	4 th month	5 th month	6 th month
Case I	Cough with headache	Severe	Mild	Moderate	No Symptom
Case II	Shortness of breath with chest pain	Moderate	Severe	Mild	No Symptom
Case III	Cough with fatigue	Moderate	Severe	Mild	No Symptom
Case IV	Breathing difficulty with headache	Severe	Mild	Moderate	No Symptom
Case V	Cough with sneezing	Severe	Mild	Moderate	No Symptom

Therefore, 5 cases from Sarada Krishna OPD and the case were taken thoroughly and they have prescribed with Calcarea carbonica 200 and all 5 patients were instructed to take IgG level test before treatment. After 4 to 5 months of treatment under homoeopathy, patients showed well improvement in their symptoms and also again instructed to take post IgG level test which shows remarkable change. Therefore, post Covid syndrome has been treated with homoeopathic medicine Calcarea Carbonica⁽⁹⁾ where it has remarkable change in the IgG level of patients. This improvement shows the role of Calcarea carb in post Covid syndrome.

Table 4 Distribution of IgG Level Before and After Treatment

IgG Level	Case 1	Case 2	Case 3	Case 4	Case 5
Before treatment	>75 AU/mL	>370 AU/mL	>450 AU/mL	>122 AU/mL	>390 AU/mL
After treatment	>08 AU/mL	>96 AU/mL	>79 AU/mL	>10 AU/mL	>87 AU/mL

Assessment and distribution of patients is given in table 2. That the five cases have been shown with the score of patient’s severity. Distribution of patient in recurrence of symptom given in table 3. That the patient’s improvement in the treatment has been shown with the recurrence of their symptoms with a score and also their graph has been given below respectively. Progress of

symptoms and follow up given in table 4. That the progress of the symptoms and the prescribed medicine along the treatment has been shown case wise.

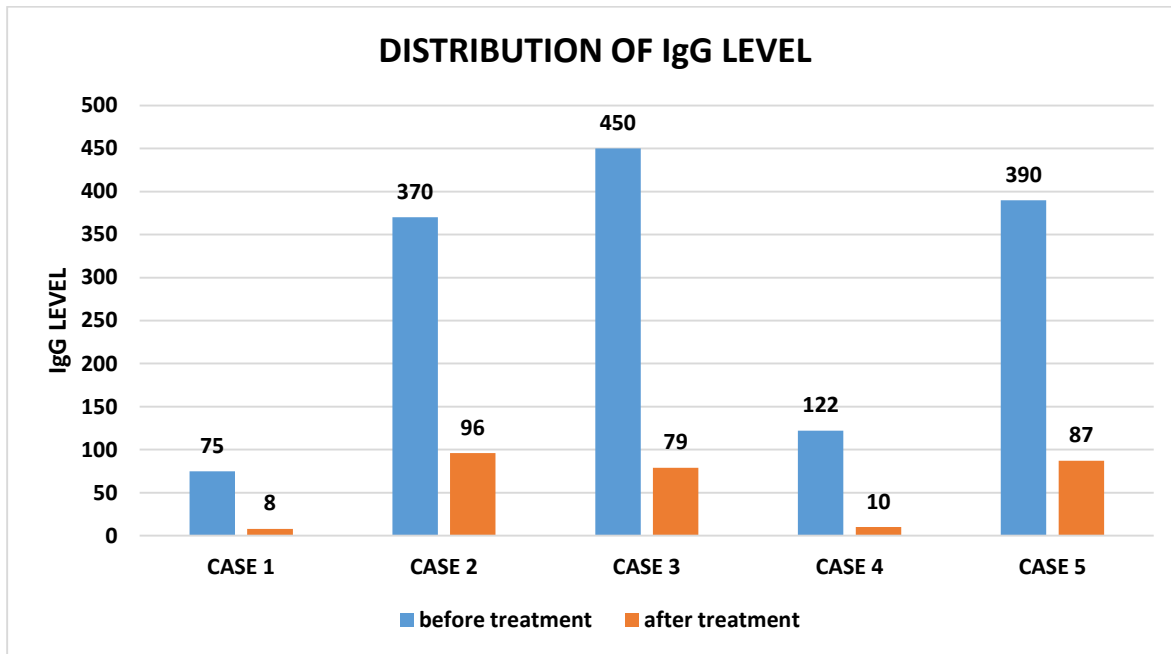


Fig 1: Distribution Of IgG Level

Table 5: Progress of Symptoms and Follow-up:

Sl no	Case I	Rx	Case II	Rx	Case III	Rx	Case IV	Rx	Case V	Rx
1	MLA	CAL CARB	MOA	CAL CARB	MLA	CAL CARB	MOA	CAL CARB	MLA	CAL CARB
2	MOA	CAL CARB	MD	SL	MD	SL	MD	SL	MOA	CAL CARB
3	MD	SL	AS	SL	AS	SL	AS	SL	MD	SL

MLA-Mild amelioration, MOA –Moderate amelioration, MD –Moderate, AS-Asymptomatic.

CONCLUSION:

Post-COVID syndrome, which affects approximately 10% of COVID-19 patients, is not limited to patients with severe acute COVID-19. Symptoms of post-COVID syndrome are usually mild, showing improvement with time, and with no identified predictors. Fatigue, dyspnoea, chest pain, mental health problems, and protracted olfactory and gustatory dysfunction are the most common symptoms of post-COVID syndrome. It is expected that primary healthcare will play a vital role in the management of patients with post-COVID syndrome.⁽¹⁰⁾ This review describes the impact of these complex problems of patients with post-COVID syndrome, as well as the importance of prompt diagnosis based on well-described criteria. Patients with post-COVID syndrome should be managed symptomatically avoiding over investigation and considering pre-existing or new comorbidities.⁽¹¹⁾

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treatment. After 4 to 5 months of treatment under homoeopathy, patients showed well improvement in their symptoms and also again instructed to take post IgG level test which shows remarkable change. Therefore, post Covid syndrome has been treated with homoeopathic medicine Calcarea Carbonica where it has remarkable change⁽¹²⁾ in the IgG level of patients. This improvement shows the role of Calcarea Carbonica in post Covid syndrome.⁽¹³⁾

Although the current data are indicating that the overwhelming majority of patients with post-COVID syndrome have a good prognosis, also need to actively follow them are needed in order to define the full clinical spectrum and its long-term outcome.⁽¹⁴⁾ A consensus-based classification of post-COVID syndrome is essential to guide clinical, diagnostic, and therapeutic management.⁽¹⁵⁾ Further research is also imperative to elucidate the homeopathic role in post-COVID syndrome

In conclusion, our study shows that patients with mild-to-moderate COVID-19 report long-term symptoms 3 to 10 months after diagnosis and some seek medical care for this reason.⁽¹⁶⁾ These data suggest that the post-COVID syndrome places a significant burden on society and especially healthcare systems. There is an urgent need to inform physicians and political authorities about the natural long-term course of COVID-19 in order to plan an appropriate and dedicated management of those with disabling persistent symptoms.

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REFERENCES:

1. Markland E, Leach S, Axels son H, Nystrom K, Norder H, Bemark M, et al. (2020) Serum-IgG responses to SARS-CoV-2 after mild and severe COVID-19 infection and persisting complication with long standing. Analysis of IgG non-responders. PLoS ONE15(10):e0241104. <https://doi.org/10.1371/journal.pone.0241104>.
2. Valencia DN. Brief review on COVID-19: the 2020 pandemic caused by SARS-CoV-2. With complete Cures and non-reoccurrence very rare. 2020; 12: e7386
3. Coronavirus disease (COVID-19): Post COVID-19 condition 16 December 2021 with severe complications and recurrent attacks of (in-between one month duration).
4. Cook T. Samuel Hahnemann - His Life and Times. Middlesex: Homeopathic Studies with old school treatment and its merits and demerits with management Limited; 1993: 1043.
5. S. Nemann S. Organon of Medicine. 6th ed. Los Angeles, CA: J.P. Tarcher; 1982
6. Kent, J. Lectures on Homeopathic Philosophy, Berkeley: North Atlantic Books; 197
7. Boericke W, Boericke O. Pocket Manual of Homeopathic Materia Medica with Addition of a Repertory. 9th ed. Philadelphia, PA: Boericke and Runyon; 1927.
8. The Chronic Diseases, their Peculiar Nature and their Homeopathic Cure. by Dr. Samuel Hahnemann Translated from the second enlarged German edition of 1835, by Professor Louis H. Tafel.
9. Clarke J. The Prescriber with key concept of homoeopathic medicines and natural way of heling. Essex: Edition: second The Health Sciences Press; private limited 1972

10. Kent J. Lectures on Homeopathic Materia Medica. 3rd ed. Philadelphia, PA: Art of healing with homoeopathic medicines and therapeutic. Boericke & Tafel; 1923
11. Clarke J. A Dictionary of Practical Materia Medica. London: The Homeopathic heritage with therapeutic art and healing Edition: fourth. Publishing Company; 1900
12. World Health Organization. Modes of Transmission of Virus causing COVID 19: Implications for Infection Prevention Control Precaution Recommendation. Available at: <https://www.who.int/news-room/commentaries/detail/modes-of-transmission-of-virus-causing-covid-19-implications-for-ipc-precautionrecommendations9>.
13. The post Covid complication with high intensity. [homeopathy-papers/the-significance-of-cured-and-sequelae-symptoms-in-choosing-the-homeopathic-remedy](#).
14. Wu Z, McGoogan JM. Characteristics of and Important Lessons From the Coronavirus Disease 2019 (COVID-19) Outbreak in China: Summary of a Report of 72 314 Cases From the Chinese Centre for Disease Control and Prevention. *Jama*. 2020 (13):1239-42.
15. Tenfold MW, Kim SS, Lindell CJ, Billie Rose E, Shapiro NI, Files DC, et al. Symptom Duration and Risk Factors for Delayed Return to Usual Health Among Outpatients with COVID-19 in a Multistate Health Care Systems Network – United States, March-June 2020. *MMWR Morbidity and Mortality Weekly Report*. 2020 Jul 31;69(30):993-999.
16. Carf A, Bernabei R, Landi F, Gemelli Against COVID-19 Post-Acute Care Study Group. Persistent Symptoms in Patients After Acute COVID-19. *JAMA*. 2020 Aug 11;324(6):603-5.