

Deteriorating Health of an Elderly: A Case Study on Home Quarantine in COVID Patients

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Abstract

Present scenario, the whole world is suffering from this pandemic and the number of cases is also increasing day by day. Cases of asymptomatic prevailing in numbers which is one of the most dangerous, due to this elderly population are affected. This case study is a matter of serious concern to look into the older and it's not easy to treat just with home isolation and proper diet. The aim of this study is too early identification of the case and proper supervision by the health

care professional during the COVID-19 and also to monitor vitals every hour. Multidisciplinary teamwork is key for proper patient's management.

Keywords: COVID • Health • Home isolation • Elderly age

Introduction

The current widespread caused by the recently portrayed Severe Acute Respiratory disorder Coronavirus 2 (SARS-CoV-2) proceeds to spread with destroying impact on the working of society and the world economy. The primary cause of coronavirus infection 2019 (COVID-19) was reported in Wuhan within the Hubei territory of China on December 12, 2019, the root origin of which was followed to the Huanan fish advertise in Wuhan, additionally genomic considers affirmed that the causative living being to be of beginning [1]. COVID-19 basically spreads via droplets from spit and nasal discharge of contaminated individuals, and its common indications incorporate fever, dry cough and shortness of breath, [2]. COVID-19 is overwhelmingly watched in youthful and middle-aged individuals with no noteworthy gender distinction. The uncommon needs of older populations amid basic periods of pandemics ought to be a centre of healthcare and other administrations. It is natural to accept that the impacts of pandemics are universally uniform and exceptionally agreeing to ethnicity and geology. Subsequently, intercessions to secure protect more individuals ought to be a nation or adjusted concurring to the convictions state of mind, conduct, health's, etc. of more regular individuals. Coronavirus clinical introduction starts inside the 14 days of presentation, be that as it may in most cases side effects show after almost 5 days and indications onset is inside 11.5 days in 97.5% of people [3,4] (Table 1). Hypoxaemia without the perception of dyspnoea (silent hypoxaemia) is a hallmark of the disease. Hypoxaemia is usually associated with an increase in alveolar to

Table 1. Classification of COVID-19 patients.

Asymptomatic	RT-PCR Swab test positive No clinical signs and symptoms Chest imaging Normal
Mild	Symptoms of acute upper respiratory tract infection (fever, fatigue, myalgia, cough, sore throat runny nose, sneezing) or digestive symptoms (nausea, vomiting, abdominal pain, diarrhoea)
Moderate	Pneumonia (frequent fever, cough) with no obvious hypoxaemia, chest CT with lesions
Severe	Pneumonia with hypoxaemia (SPO ₂ <92%)
Critical	Acute Respiratory Distress Syndrome (ARDS) may have shock, encephalopathy, myocardial injury heart failure, coagulation dysfunction and acute kidney injury.

Table 2. Evaluation of vitals by patients himself.

Days	SPO ₂	Fever	Body ache	Breathing difficulty
1	79.8	102 degree	Present	No
2	78	102 degree	Present	Mild
3	78	102 degree	Present	Mild
4	67	103 degree	Present	Severe

Table 3. Physiotherapy intervention in ICU.

Days at ICU	Physiotherapy intervention
Day 1	Patient education and benefits of physiotherapy in respiratory care.
Day 2	Chest physiotherapy initiated with the breathing exercises. Early ambulation and active Range of motion.
Day 3	Above day 2 exercises. High intensity exercise with endurance and active range of motion. Ankle toe movement.
Day 4	Above exercises. Deep breathing exercises and Active Breathing cycle techniques.
Day 5	Patients were normal and his vitals where normal so plan for discharge was initiated and active breathing exercise and range of motion exercises.
Day 6	Patient shifted to the isolation wards as the vital were stable and patients was active and normal. Patient continues with the above mentioned exercises.

arterial oxygen gradient signifying either a ventilation perfusions mismatch or an intrapulmonary shunting [5]. The aim of the case considers article is to assess the way of life and of patients sometime recently amid after coronavirus and the impact of wellbeing related practices in respects to the physical action, nutrition, personal propensities, etc., conjointly part of physiotherapy effect during and after Physiotherapy mediation. Physiotherapy intervention within the time of periods of coronavirus actually made a difference to pick up back the patients certainty and wellbeing related condition.

Case Presentation

58 years old male patients with hypertension, government officer by occupation were tested with COVID-19 positive. As of the early indications, he had a fever, dry cough and body ache, with the symptoms of COVID and after 3 days he went for COVID test and appeared positive result. He, himself disconnected from the family and degree his claim fever, etc but remaining at domestic separation for 4 days made him troublesome with breathing and diligent fever and coughing, so on 5th day he was taken to hospital and moved him within the ICU with a ventilator. Patients detailed oxygen therapy and the fever indications are in Tables 2 and 3. Amid home isolation and self-observation to vitals sign recorded. Due to more difficulty, he was moved to ICU and provided with the oxygen therapy was kept up on bag and veil. Ventilation with 8-liter oxygen. D-Dimer was 11.3 ng/dl; CRP was 77 mg/dl and ferritin was 1315 mg/ml and SPO₂ level was 70%, chest X-beam appeared respective lung parenchyma with numerous blended sick-characterized inconsistent weakening. The 1st session of patients starts with the patient's instruction taken after breathing works out in sitting and ambulation was done. Exercises were under the supervision of physiotherapist with monitoring on vitals were constantly reported. The above days in the ICU COVID ward, helped him to mobility and takes the good care of the health. The breathing exercises helps to protect and make easy to breath and the respiratory care is much more important to make the patients to gain the confident.

Results and Discussion

COVID-19 could be an exceedingly communicable viral contamination related to overactive has safe reaction resulting in pneumonia and ARDS. The length of side effects is roughly 4 to 19 days with complications sittings in between 7 to 19 days, 9% to 14% of patients have extreme malady whereas 5% of patients are basic [6]. On this pandemic circumstance, the 58 years ancient male endured with gentle to direct trouble and with the supplement of oxygen treatment and the administration crucial were typical on day 6 and indeed moved to the separation ward from ICU unit. Patients felt more comfortable and recognizable after his appropriate physiotherapy recovery and unquestionably show with enthusiastic

way. Most of the patients with COVID-19 pneumonia and ARDS are conceded to ICU with sort 1 respiratory disappointment. They are unable to preserve the oxygen immersion within the blood and consequently are put on oxygen treatment. Early PT intervention showed the positive impact in the patient's vitals and these brings the active lifestyle after the COVID-19 also. Respiratory endurance and cardiopulmonary fitness helped him to overcome from his fatigueless and healthy. A physiotherapist works productively to realize the results with the patient's care and administration. A physiotherapist works in an assortment of environments and circumstances, for the widespread circumstance with positive treatment results. Patient's instruction plays an imperative part in picking up the patient's certainty and belief, and to diminish the uneasiness and fear approximately COVID-19 the post COVID patients were gone to on for 15 to 30 minutes day by day. The breathing exercise, Patients instruction plays a crucial part in picking up the patient's certainty and trust, and to diminish the uneasiness and fear around COVID-19 the post COVID patients were gone on for 15 to 30 minutes day by day. The breathing works out and flexibility and early mobilization performed within the nearness of the physiotherapist. Positive comes about of the treatment after the COVID and patients back to work with the enthusiastic and dynamic.

Conclusion

Early physiotherapy intervention in COVID-19 patients appeared the incite reaction conjointly makes a difference to pick up the patients certainty. Post COVID domestic exhortation was most imperative for the cardiorespiratory work. Physiotherapy interventions is fundamental within the time of widespread additionally recapture the patient's certainty.

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