



A Response to the COVID-19 Pandemic with Long-Term and Robust Home Healthcare Logistics

Feng-Chou Cheng*

Department of Dentistry, Hualien Tzu Chi Hospital, Taiwan

*Corresponding author. E-mail: fengcc123@ntnu.edu.tw

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INTRODUCTION

Today, research on medical service operations is an important test in developing and developed countries, especially when a pandemic, such as COVID-19, occurs. A productively prepared architecture for powerful and practical medical care coordinated operations would benefit the expected reactions during such a pandemic. We focus on home medical care coordinated operations and administrations for arranging the steering and booking of parental figures to visit patients at their homes in our evaluation. Because of the need for social separation during the COVID-19 pandemic, these administrations are extremely important for slowing the spread of the disease.

In light of practical advancement objectives, home medical care planned operations and administrations should be revamped to meet the guidelines of a triple main concern approach. A triple primary concern strategy seeks to find a balance between financial, ecological, and social factors in order to make a viable decision. Although the concept of green home medical care has received a lot of attention recently in light of the overall cost and green discharges of home medical care coordinated factors and administrations, it appears that no research has been done on the definition of a triple main concern approach for home medical services planned operations and administrations.

The goal of altering working time is to strike a balance between joblessness time and extra time in order to achieve civil rights for parental figures. Another goal of this study is to develop a situation-based, hearty streamlined approach to dealing with the vulnerability of home medical care coordinated operations and administrations, as well as to assist in making strong decisions for home medical care planning. The last original commitment of this investigation is to lay out a productive heuristic calculation in light of the Lagrangian unwinding hypothesis, because our multi-objective advancement model for cost-effective and effective home medical care coordinated operations and administrations is more complicated than other investigations.

Three heuristic calculations are used to characterise an

underlying arrangement. For distributing patients to pharmacy stores and arranging the direction of parental figures, our heuristic calculations use a symmetric scenario. Then, to produce great Pareto-based arrangements in a reasonable time frame, a combination of the epsilon requirement technique and the Lagrangian unwinding hypothesis is proposed. Finally, a comprehensive investigation is conducted to demonstrate that our multi-objective improvement model and proposed heuristic calculation are competent and common sense, and those certain responsive qualities are considered to provide a few administrative bits of knowledge for achieving maintainable and strong home medical care administrations in practise.

A multi-objective powerful enhancement model was used to solve a functional steering and planning improvement problem for a home medical services strategies organisation in this paper. The requirements and benefits derived from a successful design for a robust and practical medical services operations network are critical for responding to the COVID-19 pandemic. The focus of this research was on home medical care coordinated operations and administrations for coordinating the steering and planning of guardians to visit patients in their homes. Because of the need for social separation during the COVID-19 pandemic, these administrations are critical for limiting the spread of the disease.

As a result, in this review, we focused on the COVID-19 pandemic's impact on medical care frameworks. In comparison to our heuristic calculations, it is incredibly exciting to confront an enormously large genuine dataset for the proposed model using calculations like the social designing analyser. In reality, the proposed heuristic computations, which employ the Lagrangian unwinding hypothesis and the epsilon requirement technique, serve as a prelude to dealing with the problem.

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CONFLICT OF INTEREST

The author has no area of interest.