APPLICATION OF INVENTORY MANAGEMENT TECHNIQUE EOQ TO THE SUPPLY OF DRUGS USED IN THE MULTI DRUG REGIMEN (MDR) FOR THE TREATMENT OF LEPROSY IN NATIONAL LEPROSY ERADICATION PROGRAMME (NLEP)

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ABSTRACT:
Effective drug supply should be achieved to reduce unnecessary healthcare costs i.e., holding cost, order cost and shortage cost. To address this issue, this study aims to examine inventory management of drugs used in Multi-drug regimen (MDR) in National Leprosy Eradication Programme (NLEP), a large public health programme in India to focus on the role of inventory to find the effect of supply chain performance of medicines used in the treatment of disease leprosy. This study was conducted to address three major issues e.g., either excess or inadequate stocks due to unjustified forecasting technique and inventory management principles. Use of sound inventory management techniques accompanied with suitable forecasting techniques can reduce 50% of total logistical costs on leprosy medication. Among several inventory control technique that’s presented, Economic Order Quantity (EOQ) model appears to be the best adapted for leprosy medication. Further studies are needed to simulate the outlook condition using these techniques. By implementing a new inventory policy that cope with all the constraints and problems will help public health programmes to manage efficiently of their inventory cost of medicines used in the treatment of major diseases of public health importance e.g., leprosy, TB, malaria etc., in the country in an effective and efficient way.

ABSTRACT: LEPROSY IN NATIONAL LEPROSY ERADICATION PROGRAMME (NLEP).

References:


8. Institute of Company Secretaries of India (ICSI) Study material for FTFM Professional Programme.

