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An Inventory-Routing Problem For Cooperative Hospital Supply Chain Operations

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Abstract:

A high amount of capital is tied up in hospital inventories because of the unpredictable demand and the severe consequences of a stock-out in critical materials. A way to reduce the amount of inventory while maintaining a high service level is inventory pooling. It requires re-engineering the traditional hospital SC into a cooperative SC consisting of a central warehouse that operates for multiple hospitals and replaces the central warehouse of each individual hospital. The aim of this research is to provide hospitals with new insights on how to improve the efficiency of their logistics processes, and on the optimal shaping and operational implementation of a cooperative hospital SC.

Topic (Complete): Health Care, Modeling and Optimization ; Supply Chain Optimization

Additional Information (Complete):

Practice related?: No

Register (Complete):

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