How to Improve Cardiac Surgery Decision Making? 
In Data Warehousing Perspective

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Abstract

The health system is a one sector dealing with very large amounts complex data. Many healthcare organisations struggle to utilise these volumes of health data effectively and efficiently. Therefore, there is a need for a very effective system to capture, collate and distribute this health data. There are number of technologies have been identified to integrate data from different sources. Data warehousing is one technology can be used to manage clinical data in the healthcare. This paper addresses how data warehousing assists to improve cardiac surgery decision making. This research used the cardiac surgery unit at The Prince Charles Hospital (TPCH) as the case study. In order to deal with other units efficiently, it is important to integrate disparate data to a single point of interrogation. We propose implementing a data warehouse for the cardiac surgery unit at TPCH. The data warehouse prototype was developed using SAS enterprise data integration studio 4.2 and data was analysed using SAS enterprise edition 4.3. This improves access to integrated clinical and financial data with, improved framing of data to the clinical context, giving potentially better informed decision making for both improved management and patient care.

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