

Guided analysis of hospital data

Large amounts of data are accumulated daily in the healthcare industry. If this data is gathered together and analyzed, answers can be provided to address a number of questions. The information received can also be used as guidance when deciding on future policy.

GUIDED ANALYSIS OF HOSPITAL DATA ENABLES BETTER OPERATIONAL MANAGEMENT

With the help of a decision support system and integrated operations control, patient care data can be used to evaluate whether specific goals are being reached. If targets are not being met, analysis can identify the reasons. Improvements can then be implemented to follow-up procedures and operational management.

The benefits of guided analyses include:

- **Makes it is easier to find relevant information:** users can simply and quickly navigate within the application
- **Clarifies the connection between the clinical and financial perspectives:** patient care is often compensated through the DRG system (Diagnosis Related Groups). A financial summary of costs can be calculated by compiling patient care costs.
- **Enables healthcare process thinking:** completed care can be set against established care plans by accounting for resource measures and partial performance per care episodes in a timely perspective. Detailed process flows can be integrated from a control card application, for example IBM Cognos Metric Studio.
- **Creates a learning organization:** healthcare data can be compared with other hospitals and with other departments within the same organization. Better communication with others results in increased exchange of experiences and increased knowledge.
- **Provides opportunities to complement information:** qualities such as care results and quality register can contribute to the application.



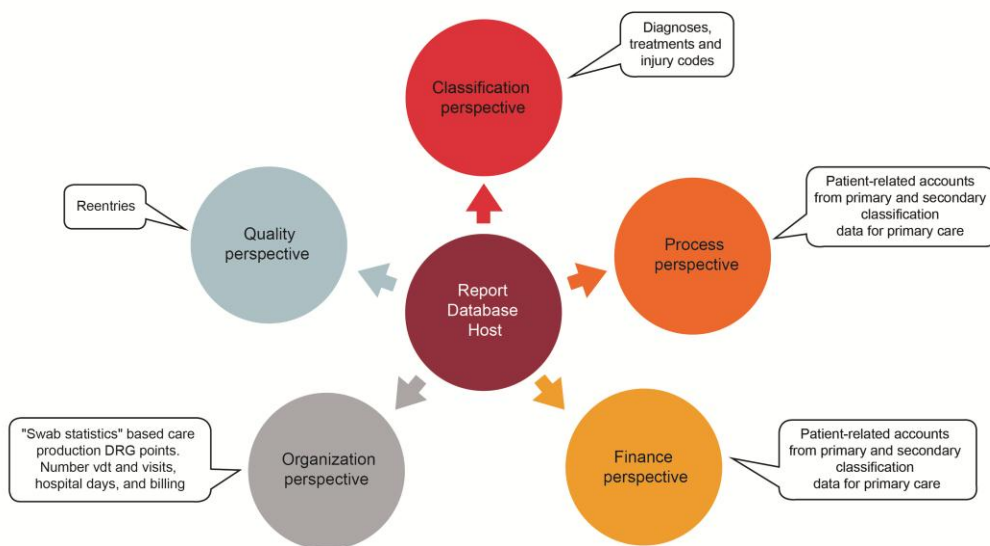
DECISION SUPPORT THROUGH IBM® COGNOS®

The large volume of healthcare data is characterized by a multitude of analysis variables and complex connections. This makes it hard for inexperienced users to effectively search for medical information. Guided analyses facilitate the search for information, and users are supported by intuitive short cuts as well as access to a tool that helps them further develop their analysis. The method of searching for information is similar to web technology, where logically built up links steer the user to the desired information.

IBM Cognos, the application portfolio for decision support, business intelligence and guided analyses, allows for great flexibility in the search for patient data information.

INFORMATION PERSPECTIVES AND USERS

Users of guided analyses can include hospital management, clinic management, financial departments, process owners, doctors and individual care entities. Examples of the different information perspectives that can be highlighted by guided analysis are shown in the diagram below.



REFERENCE – UNIVERSITY HOSPITAL, SWEDEN

A CGI solution based on guided analysis was implemented during 2008 (stage 1) and the first half of 2009 (stage 2).

ABOUT CGI

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Our comprehensive portfolio of services includes business and IT consulting, systems integration, application development and maintenance, and infrastructure management, as well as more than 100 intellectual property-based solutions.

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