

# CONCEPT

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## QNET Healthcare Data Management System

Today's healthcare enterprise is redefining its ways to deliver care. With the need to reduce cost and enhance patient care being equally important, healthcare organizations should make more effective use of their resources across geographically dispersed care settings and medical speciality groups. QNET Healthcare Data Management System is a Clinical Information System designed on a scalable, fully integrated client/server network architecture that delivers patient information when and where it's needed most - at the point of care.

QNET Healthcare Data Management System is perhaps the most complete patient information management system ever conceived. It is leading the way to better healthcare by:

- ❑ Creating electronic medical records
- ❑ Providing healthcare process automation technologies
- ❑ Providing a clinical data repository that serves the point-of-care system
- ❑ Reducing costs and improving the quality of care
- ❑ Creating an integrated information infrastructure for all clinical environments and providers
- ❑ Creating a technical environment which is accessible, reliable and scalable to business requirements
- ❑ Providing end users with the mechanism for structured and adhoc queries from clinically oriented

QNET Healthcare Data Management System is a comprehensive, fully integrated patient information management system covering the needs of Acute, Community and Specialist hospitals. The flexibility of the QNET Healthcare Data Management System allows a hospital to select the modules (function sets) required and organize these to reflect the precise patient and business management processes required.

The extent of the integration within the QNET Healthcare Data Management System is such that any function could be accessed directly by any authorized user from within any part of the process.

The flexibility, integration and real-time dynamics of the QNET Healthcare Data Management System means that all patient or business management data could be captured at, or close to, its point of origin, and any such relevant information could be instantly disseminated to users at the point of need in its requested content and format.

## QNET Patient Information Management System – The Concept

At the heart of QNET Patient Information Management System is the concept that all data relating to the management of patient care should be described in a single model, even in the event that model is physically implemented across different databases. Furthermore, it is a QNET principle that all patient management functions and care processes should interact with such model in real-time. The QNET Patient Information Management System also supports the following principles:

- ❑ That data should be captured as close as possible to its origin as possible using a method most appropriate to the setting

- ❑ That this information should be available at the place it is required in the form that is most appropriate for its assimilation and use

Key arguments in support of the QNET concept are as follows:

- ❑ There is little value or valid reason for the duplication of data entry within hospital systems. In fact, it is likely to be wasteful, promote inconsistency and present an incomplete picture of practice and process
- ❑ There is little justification for the view that operational staff and managers require information with different dynamics. The reality is that everyone needs the opportunity for complete, accurate and up to the second information at any time.

The QNET concept promotes the following characteristics in system design and development:

- ❑ Total integration at both the function and data levels in place of separate modules and interfaces
- ❑ One set of system dynamics which offers real-time access to high quality data management and information production capabilities
- ❑ System facilities and technologies that fit the organization's processes to encourage best operational and management practices.

QNET Patient Information Management System is the most advanced application software system in the world today - to implement the above concept!

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## QNET Patient Information Management System – The Process Approach

At the strategic level, the purpose of a centralized computer system is to contribute to the achievement of overall objectives by allowing the measurement of organizational performance in all areas and at all levels.

At the operational level the role is to support the efficiency and effectiveness of patient management and care delivery processes.

Virtually all operational activities in hospitals today involve an interaction between administrative, clinical and business processes. QNET Patient Information Management System is an application that recognizes and integrates these interactions. It also provides the flexibility to implement functions in a manner which properly describes the processes which the hospital wishes to adopt to reflect the most efficient and effective working practices.

This flexibility allows the implementation of the QNET Patient Information Management System to be customized when the hospital's processes are redefined for further improvement. The QNET Patient Information Management System has been designed to support the continuous process of reviewing and re-engineering hospital processes. As such it enables (and not inhibits) changes for improvement.

## QNET Patient Information Management System – The Function Sets

QNET Patient Information Management System is a comprehensive, fully integrated, real-time patient management system comprising the following function sets. It is a fully scalable software solution capable of seamlessly integrating its modular units.

### Patient / Client Function Sets

- ❑ Master Patient Index
- ❑ Referral Management
- ❑ Outpatient Management
- ❑ Inpatient Management
- ❑ Waiting List Management
- ❑ Bed Management
- ❑ Day Care Management
- ❑ Casenote Tracking
- ❑ Community Activity
- ❑ Mental Health
- ❑ Maternity Management
- ❑ Supervision Registers
- ❑ Management of Registers
- ❑ Assessments
- ❑ Care Planning
- ❑ Staff Diaries

### Departmental Function Sets

- ❑ Theatre Management
- ❑ Radiology Management
- ❑ Accident and Emergency Management
- ❑ Laboratory Management
- ❑ Document Imaging / Management

### Infrastructure Function Sets

- ❑ Order Communications
- ❑ Results Reporting

### QNET Workstations

- ❑ Clinical Workstation
- ❑ Task Station

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