

BDM INFORMATION SYSTEMS

RXTFC PHARMACY INFORMATION SYSTEM

APPLICATION NOTE

CONTRIBUTIONS TO MEDICATION SAFETY

As early as 1993 the senior management team at BDM clearly understood the need to combine knowledge with technology to improve patient safety as characterized in the following quote from To Err is Human (1999) “The current care systems cannot do the job. Trying harder will not work. Changing systems of care will.”

The Institute of Medicine (IOM) reports in, “Crossing the Quality Chasm” (2001). “Information technology must play a central role in the redesign of the health care system if a substantial improvement in quality is to be achieved over the coming decade.”






The pace of medical research, innovation and legal issues during the past decade is providing more information requiring precise recall than can be reasonably expected of health care providers. To deal with issues of providing the right information to health care practitioners and to avoid the problem of variability in practice, there is a need for decision support aided by technology.

From the inception of RXTFC® PHARMACY INFORMATION SYSTEM the steadfast conviction to dramatically improve patient safety and to provide evidence-based health information access at the appropriate point of care has been driven by the following three guiding principals:

SYSTEM FOCUS, CONTINUUM OF CARE, and INFORMATION ACCESS.

SYSTEM FOCUS

The ability of RXTFC® PHARMACY INFORMATION SYSTEM to track and trend patient medication use and appropriateness across the entire medication use process provides meaningful information to better equip health care professionals make informed decisions. This includes selection, storage, prescribing, dispensing, administering, and monitoring of the medication dispensing process. This is accomplished in RXTFC® PHARMACY INFORMATION SYSTEM by:

-  PERPETUAL INVENTORY
-  ACCESS TO PATIENT INFORMATION
-  LABORATORY INTERFACE
-  LINK TO CLINICAL NOTE SYSTEM FOR NURSING
-  INTERFACE CAPABILITIES WITH DISPENSING AND STORAGE DEVICES

TOO MUCH INFORMATION FOR THE HUMAN BRAIN TO MANAGE EFFECTIVELY IN A HIGH VOLUME, HIGH RISK, HIGH PRESSURE ENVIRONMENT TYPICAL OF MOST PRACTICE ENVIRONMENTS

10,000 NEW PUBLICATIONS EVERY YEAR RESULT FROM CONTROLLED CLINICAL TRIALS

GIVEN THE VOLUME OF AVAILABLE KNOWLEDGE, HUMAN COGNITIVE LIMITS ARE EXCEEDED

THERE IS A NEED FOR DECISION SUPPORT AIDED BY TECHNOLOGY

TRADITIONAL DELIVERY SYSTEM IS INADEQUATE

INFRASTRUCTURE IS FRAGMENTED

NEED UNFETTERED TIMELY ACCESS TO CLINICAL INFORMATION IN ORDER TO RADICALLY REDESIGN CARE DELIVERY PROCESS

DISEASE MANAGEMENT ALLOWS US TO TARGET PATIENT POPULATIONS AT GREATEST RISK, AND OFTEN REFLECTING THE GREATEST COST, TO IMPROVE CARE, OUTCOMES AND VALUE. IT REQUIRES SUBSTANTIAL DATA ACCESS. TRACKING AND DECISION SUPPORT

Application Note

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CONTINUUM OF CARE

From cradle to grave coverage – RXTFC® PHARMACY INFORMATION SYSTEM is a comprehensive repository of patient, medication use, and clinical information wherever the patient is seen... as an inpatient or outpatient.

The patient's demographic information is accessible across the care continuum to all operational modules within RXTFC® – acute care, long-term care, ambulatory care, home care, and others. RXTFC® accumulates the patient's LIFETIME MEDICATION RECORD across all locations and types of care in multi-facility organization.






The benefits to patient care and safety are substantial. Health care professionals avoid miscues and missed handoffs so common in a fragmented system. Additionally benefits can be seen as patients are tracked and trended across sites of care and longitudinally across a lifetime!

INFORMATION ACCESS

Secure, and up to date evidence-based health information access at the appropriate point of care. That's what RXTFC® PHARMACY INFORMATION SYSTEM delivers! RXTFC®'s contribution to professional pharmacy care can be seen in its site customization by providing unprecedented flexibility. RXTFC® strength and flexibility is seen in the ability to interconnect with other systems and devices.

To ensure that only authorized individuals have access to medical information BDM has incorporated biometric technology into RXTFC® to provide secure information access. Passwords were never really secure, today they can be downright dangerous providing a false sense of security. With complete integration of SecuGen® fingerprint technology BDM continues to lead the industry in patient privacy legislation compliance, providing authorized access to secure vial information when and where information is needed.

CLINICAL DECISION SUPPORT SYSTEMS
IMPROVE QUALITY AND DECREASE
COSTS BY:

-  POINTING OUT REDUNDANCIES
-  SUGGESTING ALTERNATIVES
-  IDENTIFYING ERRORS OF OMISSION
-  EMPHASIZING IMPORTANT ABNORMALITIES
-  MAKING GUIDELINES ACCESSIBLE

IOM HAS CALLED FOR A NATIONAL COMMITMENT TO DEVELOPMENT OF AN INFORMATION INFRASTRUCTURE AS AN UNDERPINNING OF EFFORTS TO IMPROVE CARE DELIVERED, CONSUMER HEALTH, CLINICAL EDUCATION AND RESEARCH

THE COST IN DOLLARS AND HUMAN SUFFERING IS VIRTUALLY IMMEASURABLE .

TECHNOLOGY IS AN IMPORTANT ADJUNCT TO DECREASING MEDICATION ERRORS