

CLIQ AND SMaRDI – MEDICAL INFORMATICS AT HCSD

- ELECTRONIC FILING CABINET FOR PATIENT CARE, QUALITY IMPROVEMENT, AND RESEARCH -

Medical informatics and computerized clinical information systems are essential in achieving the Institute of Medicine's goals for an ideal health system: safe, effective, patient centered, timely, efficient and equitable. Health Care Services Division (HCSD) has committed significant resources to the development and integration of computerized clinical information systems, greatly enhancing the delivery of information to physicians and nurses in real-time, when and where it is needed to support decision making for patient care.

Clinical InQuery (CLIQ) and its Shared Medical Record Data Infrastructure (SMaRDI) represent substantial steps with significant impact in moving from the inadequacies and challenges of the paper medical record to an electronic health record for HCSD. CLIQ is a web-based application that provides efficient access for clinicians to a near-comprehensive and longitudinal record of patient health information. CLIQ organizes and presents in real time all electronically available test results, procedural reports, and clinical notes in a clinically intuitive format. The data includes: patient demographic and registration data, visit history data, laboratory and microbiology results, pathology, radiology, cardiology and electromyography reports, admission history and physical notes, discharge summaries, operative notes, consultation notes from selective clinics, and a record of outpatient pharmacy prescriptions. Clinicians can access CLIQ on any web-enabled computer with a secure Internet connection from office, hospital or home. CLIQ enables communication of patient information among providers caring for a shared population of patients within the Public Hospital system and across the community.

SMaRDI represents the technical information system foundation on which CLIQ is built. The SMaRDI database receives and processes more than 50,000 pieces of information each day, and houses more than 506,900 patient records and more than 29,000,000 results and reports. SMaRDI provides the necessary security infrastructure to appropriately authenticate users and audit their access to protected health information, playing a critical role in assuring HIPAA compliance.

CLIQ and SMaRDI have been deployed for approximately 2 years and currently serve physicians and nurses at four HCSD Hospitals (Medical Center of Louisiana in New Orleans, Bogalusa Medical Center, Earl K. Long Medical Center, and Leonard J. Chabert Medical Center) and more than 20 community health centers in the New Orleans metropolitan area. CLIQ has served more than 4,500 unique clinicians since 2003, and currently supports approximately 925 unique users each day, who are accessing information on approximately 4,000 different patients each day.