

DISEASE MANAGEMENT EVALUATION AND REPORTING SYSTEMS AT HCSD

- INFORMATION DISTRIBUTION SYSTEMS WHICH ALLOWS HEALTH CARE EFFECTIVENESS TEAM MEMBERS AND ITS PARTICIPANTS MEASURE AND MANAGE PROGRAMS TOWARD HEALTH CARE EFFECTIVENESS AND DISEASE MANAGEMENT GOALS -

Critical to defining the quality and effectiveness of the disease management and preventive health programs is the measurement and reporting of performance and outcomes. The availability of comprehensive and longitudinal performance and outcome data, an integrated performance and outcome measurement and evaluation process, and the capability to disseminate results of the measurement and evaluation are essential to promote data driven improvement.

Health Care Services Division (HCSD) has committed significant resources to the development and implementation of disease management and preventive health programs. A crucial component of these programs has been the design and application of robust systems for the measurement and reporting of process and outcome indicators. The keystone of these measurement and reporting systems are the Disease Management Evaluation Database (DMED) and the Disease Management Statistics Reporting System (DM StaRS).

DMED is a data warehouse populated with a selective set of clinical and financial data from legacy information systems at HCSD, including the patient registration, resource scheduling and laboratory information systems. The warehouse stores and provides data for the system-level analysis of clinically related activities at all HCSD facilities in a fashion that facilitates the measurement and evaluation of disease management and preventive health quality indicators. DMED contains a comprehensive and longitudinal set of data from 1996 to the present that facilitates the population-level comparison of performance and outcomes across HCSD facilities over time. The warehouse contains records on more than 1,770,000 patients and houses data on more than 15,790,000 outpatient and 640,000 inpatient encounters. The warehouse, which is managed by the HCSD Health Care Effectiveness team, supports routine quarterly and ad hoc analysis. The data in stored in DMED undergoes extensive statistical analysis and summarization on a quarterly basis for reporting through DM StaRS.

DM StaRS is a web-based DM evaluation reporting tool accessible via the HCSD Health Care Effectiveness website. It is designed to provide hospital administrators, medical directors, quality managers, and clinicians an easy-to-use and always available tool for following the performance of their disease management and preventive health programs. DMStaRS provides users with the ability to dynamically query the status of chronic disease and preventive health measures, and provides longitudinal monitoring of performance in any of the specified disease areas. The application enables comparison of performance and outcome indicators across facilities and against national benchmarks.