

Health Data Extraction

KRM has conducted numerous health data extraction projects including:

- KRM in supporting the WV DHHR will develop an automated data extraction capability from RPMS/VistA to support Medicaid and other reporting requirements.
- KRM has supported the West Virginia Medical Institute by developing an automated data extraction tool to extract VistA data and populate a SQL database.
- KRM is developing a tool to populate SQL database with CCR data extracted from RPMS/VistA.

Many healthcare entities have difficulty measuring the quality of healthcare and the outcomes associated with various treatment approaches and methodologies. They are restricted to the “built-in” routines and analysis provided by software vendors. These analyses don’t focus on chronic disease management and evaluation or those issues facing specific healthcare entities including complying with “meaningful use” criteria. The ability to focus and deal with these specific health issues and to evaluate effectiveness has largely been a manual effort. This approach is conducive to errors and inaccuracies. By employing automation that extracts data directly from the EMR, these errors can be eliminated and the efficiencies associated with automation can be employed.

The client based data extraction and analysis tool will not reside on the servers but will be able to extract data from any screen rendered by the EMR application. We have developed a prototype extraction to support analysis from a SQL database or a data source utilizing SQL commands in the selected technical environment. We employ a Verastream SOA Solution that develops reusable extraction capabilities. This approach employs a non-invasive “programatic integration” technology that a healthcare entity can utilize to capture data from multiple disparate systems. We will work with clients to identify and develop tools to access and extract from these various systems.

Host data integration with Verastream enables the full range of legacy hosts to participate in today’s Service-Oriented Architectures. Verastream is a SOA Solution for Host systems- creates reusable services -streamlines and automates existing processes. Verastream non-invasively makes legacy Data available at the Portal without rewriting the application. Verastream Host Integrator encapsulates host/mainframe data and logic – via the screen interface – as web services, XML, Java, or .NET components that can be mixed, matched, and reused. No changes to host, or mainframe-application code are required, and nothing goes on the host. This solution is also capable of integrating existing web data with this legacy data.s are trained in teaching patients how to deal with the symptoms of their disease (e.g. fatigue; depression, anger and frustration); motivational interviewing techniques; appropriate exercise regimes based on

their disease; healthy eating habits; appropriate use of medications; and how to work effectively with the health care team. The program does not conflict with existing programs or treatment. Treatment is not altered. For medical questions, participants are referred to their physicians. If the content of the course conflicts with instructions they receive elsewhere, they are advised to follow their physicians' orders and discuss discrepancies with the physician. This program is geared to augment the effectiveness of the physician practice in influencing patients' abilities to self manage and become highly confident in their ability to manage their disease.