BayaTree eCardio

Encompassing patient outcomes for matters of the heart

The Internet-based BayaTree eCardio software supports clinical, administrative and outcomes information needs for cardiology and cardiovascular surgery. This scalable and flexible suite is available as Software-as-a-Service (SaaS) or installable software for hosting on customer servers. Its workflow-centered approach improves data management practices, supporting quality improvement, patient safety, and regulatory compliance for organizations of any size.

Improving Quality and Care

BayaTree eCardio captures, reports, tracks and integrates key clinical information such as diagnoses, procedures, Admission/Discharge/Transfers (ADT), medications, labs and notes. It allows physicians to track credible, risk-adjusted performance indicators. A single, comprehensive patient record is used across all encounters and modalities to reduce data entry and increase accuracy. Multi-facility security enables healthcare providers with multiple locations to share information and reports in real time. BayaTree eCardio also supports data mining, delivering meaningful outcomes reports to physicians in a timely fashion in support of patient care. Because it enables physicians to take ownership over their own continuous quality improvement, it plays an important role in improving the quality/cost equation for cardiac care.

Society of Thoracic Surgeons (STS)

- Adult Cardiac Surgery Database
- General Thoracic Surgery Database
- Congenital Heart Surgery Database

American College of Cardiology (ACC)

- CathPCI Registry®
- ICD Registry™
- AFib Ablation Registry™
- ACTION Registry®–GWTG™

Regional and State

- California CABG Outcomes Reporting Project (CCORP)
- New Jersey Cardiac Catheterization Data Registry (NJCCDR)
- New Jersey Open Heart Surgery Registry
- Perfusion Measures and Outcomes Registry (PERForm)

Specialty Registries

- Coordination of Rare Diseases at Sanford (CoRDS)
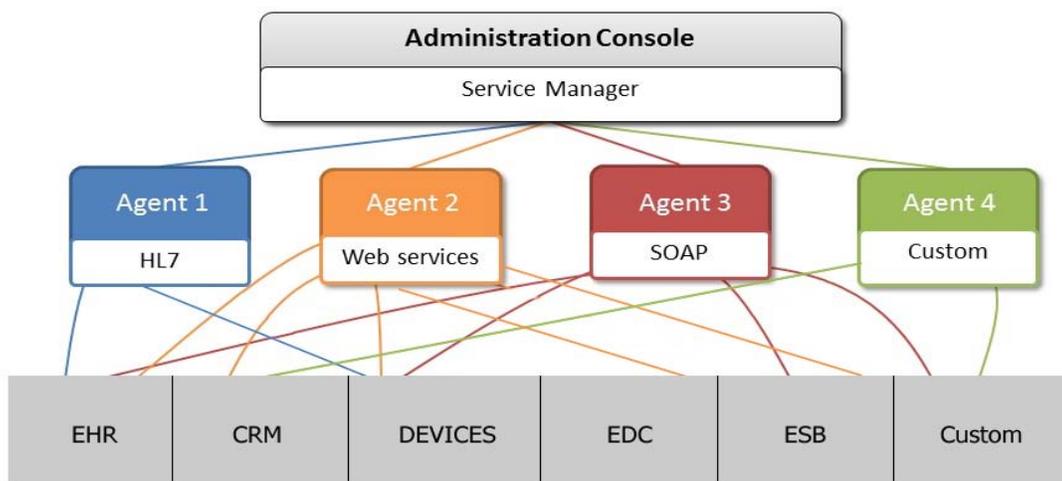
Security Features

- HIPAA- and CFR Part 11 compliant
- Data completeness reports for accuracy assurance
- User permissions and auditing for data harvesting and reporting
- Robust access rights management and system audit capabilities
- Harvesting tool for submitting data to registries
- eSignatures, 30/60/90 day password renewal, application time out and audit trails

Customization Options

- Ad-hoc reporting and outcomes analysis
- Built-in forms generator that enables easy creation of additional registries or clinical databases
- Customizable vocabulary and maintainable cardiology library
- Tailored data capture, workflow configuration, patient scheduling, alerts and notifications

Bayatree eMaven Interfaces

- Integrate with the external software applications for truly streamlined workflow
- Import data directly from various sources using HL7 standard or proprietary formats
- Enable two-way communication between ADT, labs, devices, and charge capture/billing
- Auto-Population of registry forms via Mobile Apps

Exceptional Underlying Technology

BayaTree eCardio is a scalable Internet product suite that meets a wide range of information needs in the clinical and research domains. It supports organization of diverse sizes, from small community hospitals to large integrated healthcare institutions with academic medical centers. The system is available as a Software as a Service (SAAS), with no hardware and database purchase required, or it may be installed on customer servers.

The system includes multi-facility security so healthcare providers with multiple hospitals or clinics can use a common system, where individual institutions not only see their data but information and reports can also be shared across institutions.

Because of our pure Internet platform solution with a 'zero footprint' installation, BayaTree eCardio end-users work remotely and securely through most major web browsers. As a HIPAA and CFR Part 11 compliant product suite, BayaTree eCardio supports eSignatures, 30/60/90 day password renewal, application time out, audit trail, and other advanced HIPAA and CFR Part 11 security features. The system also supports user permissions and auditing for data harvesting and reporting. CFR Part 11 compliance enables multiple uses of the system.

Standard Reporting

The BayaTree Standard Reports Library is continually enhanced based on customer input. New standard reports are typically released with product updates. The library includes a large number of reports.

Enhanced Reporting

The power of any data management system lies in its ability to efficiently transform data into useful information. BayaTree responds to this crucial need by providing tools for quickly generating accurate, professional reports. With Microsoft Excel as its standard reporting tool, BayaTree eCardio offers an encompassing library containing pre-defined reports that are organized in a familiar clinical format.

Each BayaTree report contains 28 to 32 commonly used extra data elements that may be incorporated through pivot tables to enhance analytical reporting. The 'Add Fields' feature allows additional societal core and customized fields to be added to standard reports, enhancing the scope of data being reported.

Because BayaTree eCardio is built with an open database design, ad hoc queries for custom reporting are enabled with commercially available tools. Hundreds of reports and graphs are easily made with BayaTree eCardio filtering, pivot tables and the 'Add Fields' feature.

Reports are stored and accessed in one place, serving as a valuable asset for multi-disciplinary teams, physicians and quality improvement (QI) departments. BayaTree eCardio users can monitor length-of-stay, length of intubation, infection rates and much more.

Ad Hoc Query, Reporting, and Data Analytics

There is a growing need among users of healthcare software to analyze and report on their data. If such reporting is conducted on the production system, it can adversely impact operational performance and response time. Clinical and Research application users need an operationally efficient solution that incorporates flexible Query, Reporting, Data Analytics, and Visualization functionality.

The BayaTree QRA System

BayaTree has designed and developed an extensible and elastic solution for Query, Reporting and Analytics (QRA). We have architected a solution that moves data seamlessly from your Production Database into a reporting/analytics Data Mart. It separates reporting/analytics data from Production Data, and improves operational performance by reducing the load on the Production environment. Drill-down reporting models specific to addressing key norms in data analytics are available. By utilizing the Business Intelligence (BI) tool of choice, users can create queries and reports with little previous skills or experience. The solution has three primary components:

- Data Extraction
- Data Mart Setup and Maintenance
- Query, Reporting, and Visualization

QRA System Advantages

The advantages of the BayaTree QRA System are many. The Data Extraction is configurable to suit your needs, and is not encumbered by transaction elements that are not meaningful to end-users. The reporting/analytics Data Mart is customized to your requirements and structured to be simple – no need for complex table joins. Other advantages of this type of reporting and analytics strategy include the following:

- On-Demand reporting of key metrics
- Faster answers to your queries
- Roll-up and drill-down reporting
- Validation of data quality
- Timely Regulatory Compliance
- Graphical displays
- Data Analytics support

Free Product Evaluation
Take advantage of our free product evaluation and see for yourself the power of BayaTree eCardio.
http://www.bayatree.com/request-info