



Velos eCardio

encompassing patient outcomes for matters of the heart

Internet-based Velos eCardio 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

Velos eCardio captures, reports, tracks and integrates key clinical information such as diagnoses, procedures, Admission/Discharge/Transfers (ADT), medications, labs and notes. 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. Velos eCardio also supports data mining, delivering meaningful outcomes reports to physicians in a timely fashion, in support of both patient care and clinical research.

Registry Certifications

Velos eCardio is also certified for use for numerous patient registries. This provides medical and surgical doctors the capability to track credible, risk-adjusted performance indicators. Because it enables these doctors to take ownership over their own continuous quality improvement, it plays an important role in improving the quality/cost equation for cardiac care.

Velos eCardio is certified by the Society of Thoracic Surgeons and American College of Cardiology for the following registries:

Society of Thoracic Surgeons (STS)

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



American College of Cardiology (ACC)

- Implantable Cardioverter Defibrillators (ICD)
- Catheterizations and Percutaneous Coronary Interventions (Cath PCI)



Security Features

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

Customization Options

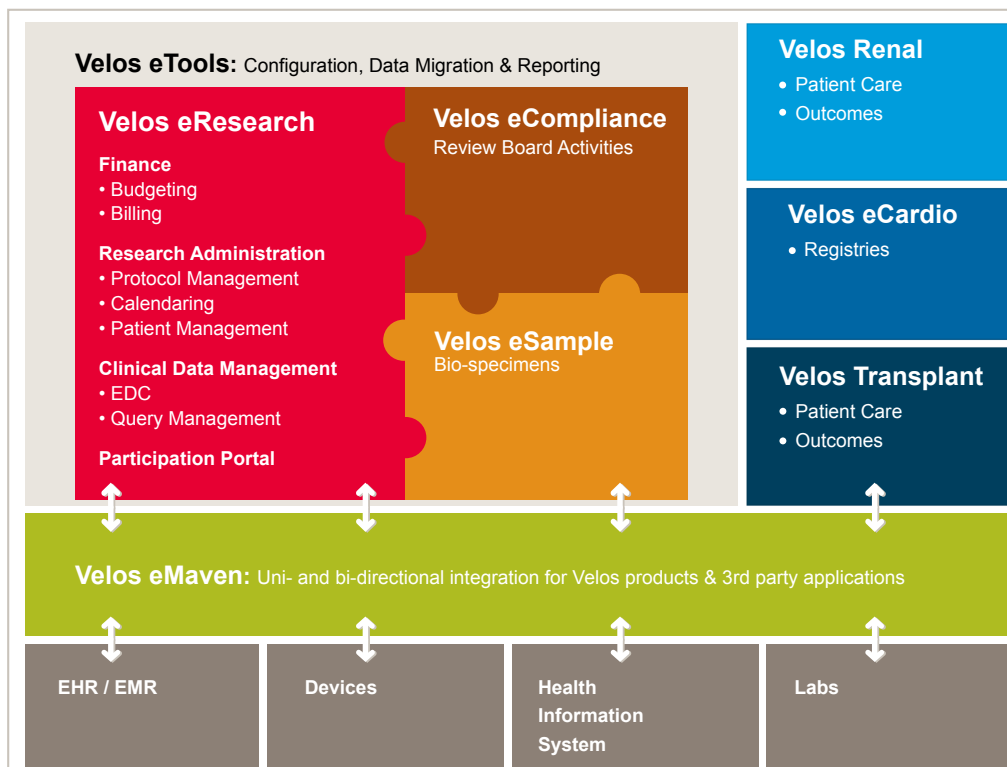
- Custom and ad-hoc reporting and outcomes analysis
- Customizable vocabulary and maintainable cardiology library
- Built-in form generator enables easy creation of additional registries or clinical databases
- Customizable data capture, workflow configuration, patient scheduling, alerts and notifications

Better Value Through Integration

- Integrates with the Velos eResearch product line for truly streamlined processes
- Imports data directly from various sources using HL7 s tandards and custom formats
- Existing interfaces enable two-way communication between ADT, labs, devices, and charge capture and billing

Clinical Research Management Suite

Specialty Medical Products



Reporting and Analysis

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

Each Velos 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 to increase the ease of manipulating data while enhancing the scope of the reports.

Because Velos 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 Velos 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. Velos eCardio users can monitor length-of-stay, length of intubation, infection rates and much more

Standard Reports

The Velos Standard Reports Library is continually developed based on customer input, and new releases are included with product updates. Current standard reports are listed below:

Adult Cardiac Surgery Module

| Administrative | Clinical | New |
|----------------------------------|--|---|
| Complications Summary | Print Patient Report | Predicted Risk of CVA Stroke |
| Data Completeness Report | Procedure by Incidence | Predicted Risk of Deep Sternal Infections |
| DRG by Surgeon | Procedure Volume by Surgeon | Predicted Risk of Prolonged Ventilations |
| Length of Stay by DRG by Surgeon | Readmission Rate by DRG by Surgeon | Predicted Risk of Renal Failure |
| Length of Stay Summary | Readmission Rate by Surgeon | Predicted Risk of Re-Operation |
| Mortality Rate by Age Range | Risk Factor Rate by Surgeon | |
| Mortality Rate by Procedure | Risk Factor Summary | |
| Mortality Rate by Surgeon | Risk Stratification | |
| Patient Morbidity Mortality | Run statistical reports on CABG, Valve and CABG/Valve statistics | |
| Payor Mix by Surgeon | | |

Cardiac Catheterization Module

| Administrative – Diagnostic Procedures | Clinical – Diagnostic Procedures |
|--|--|
| Adverse Outcome Rate by Procedure | Procedure by Quarter by Physician |
| Adverse Outcomes Mortality Summary | Procedure Indication Summary |
| Average Physician Time by Procedure | Risk Factor Rate by Procedure |
| Length of Stay by DRG by Physician | Risk Factor Summary |
| Length of Stay Summary | Status by Procedure |
| Normal Cath Rate by Physician | Diagnostic Utilization of Closure Devices by Physician |
| Administrative – Interventional Procedures | Clinical – Interventional Procedures |
| Adverse Outcome Rate by Procedure | Procedure Result by Physician |
| Adverse Outcomes Mortality Summary | Procedure Result by Urgency |
| University of Texas M. D. Anderson Cancer Center | Result by Lesion Type |
| Average Physician Time by Procedure | Result by Lesion Type by Physician |
| Length of Stay by DRG by Physician | Risk Factor Rate by Procedure |
| Length of Stay Summary | Risk Factor Rate by Procedure Result |
| Procedure by Quarter by Physician | Risk Factor Summary |
| Procedure Indication Summary | Status by Procedure |
| Data Completeness Report | Average Door to Balloon-Stent Time by Procedure by Physician |
| Flouro Time by Procedure by Physician | GP 2a3b use In-Lab |
| Interventional Utilization of Closure devices by Physician | Interventional GP 2a3b use Inhibitors by Physician |

Take advantage of our free product evaluation and see for yourself the power of Velos.

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