



Powering interaction

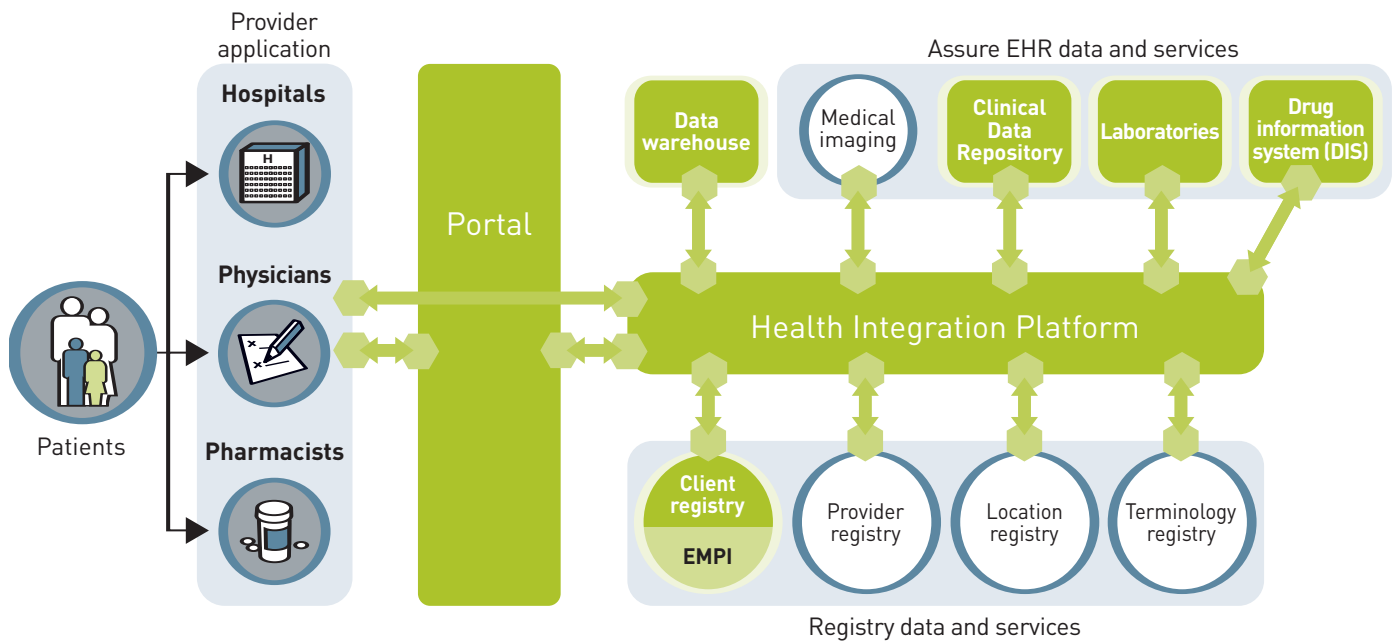
ASSURE EHR

PROVIDING TIMELY ACCESS TO COMPLETE PATIENT HEALTH INFORMATION

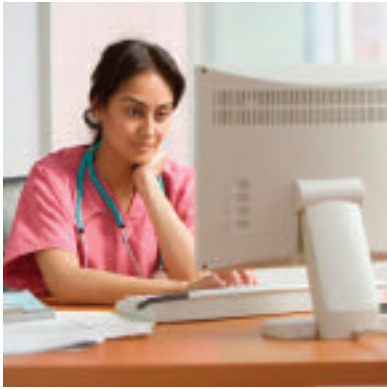
Emergis' Assure EHR product suite is helping save lives and provide better patient care in North America and Australia. Physicians, nurses and other care providers rely on a patient-centric view in Assure EHR to make informed decisions, order tests, review results and securely manage the efficient delivery of care.

Assure EHR gives users secure web-based access to patient medical information from multiple sources, including key information from the Electronic Medical Record (EMR). Easy to use, Assure EHR is accessible from any web browser. Patient and other data is secure, continuously updated and available in real time at the point-of-care.

Assure EHR meets HL7v3 standards for the exchange, integration, sharing and retrieval of electronic health information. Open architecture and scalability make Assure EHR a true cross-platform suite designed to support future needs as they arise.



Note: Emergis provides all green-coloured services in this diagram and ensures connectivity throughout.



Connecting health care providers improves health care

Assure EHR enables Regional Health Information Organizations (RHIOs), Health Maintenance Organizations (HMOs), hospital groups and clinics to improve communication and/or create a Health Information Exchange (HIE) between hospitals and physicians. It facilitates referrals by making patient information readily available to relevant medical users. Sharing personal health information within a regional network enables health care professionals to easily track and manage chronic diseases and alert patients to potentially serious findings. It also ensures that physicians, regardless of their location, have the accurate, up-to-date patient information they need to prevent, for example, serious adverse drug interactions or other such lapses.

Assure EHR also enables the collection of data for uses other than direct patient care, such as quality improvement, outcome reporting, resource management, public health communicable disease surveillance, demographic information and other non-clinical administrative data.

Why deploy an Assure EHR?

Proven in North America and Australia, Assure EHR effectively serves millions of citizens every day.

Open architecture protects your IT investment. Assure EHR uses industry-standard tools and open-source components to make it platform-independent.

Standards-based HL7v3 messaging protocol was pioneered by Emergis and is accepted worldwide. Assure EHR adheres to HL7v3 standards to provide secure access to timely, accurate health data.

Modular and scalable, Assure EHR's infrastructure components work together seamlessly yet can be implemented individually. Assure EHR is scalable to support any size organization, today and tomorrow.

THE ASSURE EHR SUITE

The Assure EHR product suite is comprised of leading technologies, best practices and industry knowledge and standards.

The Infostructure, created by the broad connectivity of the **Health Integration Platform**, brings together all information sources and consumers.

The **Enterprise Master Patient Index (EMPI)** guarantees complete, accurate patient records by consolidating duplicate patient records.

The web-based **Portal** provides easy and secure access, from any location via a web browser, to all patient-centric health information in the Assure EHR.

The **Clinical Data Repository** provides clinically relevant information from encounters and patient notes.

The **Drug Information System** delivers better drug management, prescribing and fulfillment to physicians and pharmacists.

The **Laboratory Results Repository** collects, normalizes and stores data from local or regional Laboratory Information Systems.

The **Health Data Warehouse** solution provides essential data analysis and reporting capabilities.

Proven

Open

Standards-based

Modular

Scalable



HEALTH INTEGRATION PLATFORM

Securely provides broad connectivity

Through the standardization of application interfaces, the Health Integration Platform (HIP) module of Assure EHR enables pharmacists, physicians and other health care professionals secure access to information in a patient's electronic health record.

The Health Integration Platform is the component of the interface layer that provides logical connections between all Assure EHR components. The Longitudinal Record Services (LRS) is the component of the HIP that handles the complexities of aggregating health information from various data sources.

The Assure EHR Health Integration Platform solution

Supports authorization and authentication of users and applications.

Guarantees delivery of messages between components and users.

Orchestrates the execution of work according to a predetermined workflow.

Enables the rapid flow of information to different levels (practices, organizations, regions, states, provinces).

Securely connects all systems involved in electronic health records, including such systems as registries, data warehouses, domains, clinical systems and points-of-services.

Complies with the Infoway Health Integration Access Layer (HIAL) model.

[ASSURE EHR'S HEALTH INTEGRATION PLATFORM REPRESENTED THE FIRST NORTH AMERICAN IMPLEMENTATION OF THE HL7V3 MESSAGING STANDARD.]

ENTERPRISE MASTER PATIENT INDEX

Better access, improved information

The EMPI component of Assure EHR easily integrates existing patient records and makes sure that updates are merged with the correct patient records to provide an accurate view of patient information. The system automatically checks and eliminates duplicate transactions and patient records. It includes a merge/unmerge feature.

Consolidated access to patient information improves hospital management, reduces duplication, provides for faster, more informed care and less frustration for patients.

Assure EHR's EMPI

Rationalizes all the data in the health record.

Resolves duplicates.

Ensures accurate and complete information.

[DATA STANDARDIZATION + SHARED ELECTRONIC ACCESS = BETTER DATA
BETTER MANAGEMENT
BETTER CLINICAL CARE]

PORTAL



User-friendly web access for better decisions

The Assure EHR Portal is a web application that lets users login, search, query and access patient information across all the domains of Assure EHR. Navigation is patient-centric.

The Assure EHR Portal displays patient data at the point-of-care in a smart summary that users can personalize for their own unique practice patterns. From the summary level, users can quickly and easily drill down for more detailed information.

Benefits of the Assure EHR Portal

Consolidates views of patient records across broad regions and jurisdictions.

Provides enhanced ability to process larger amounts of information through graphical data visualization

Builds efficiencies and ease of use into critical process

Web browser accessible from any location, including mobile and wireless, so it is available when needed.

Intuitive **alert summary** lets users drill down for more detail.

Improves clinician workflow immediately with all data available.

Visual cues **guide** clinicians towards important exceptions.

Enables clinicians to practice care beyond the boundaries of the traditional medical record.

CLINICAL DATA REPOSITORY

Ensuring relevant data is available for improved patient management

The Assure EHR Clinical Data Repository manages encounter histories, patient notes, clinical documentation and other clinical data not stored in the other EHR repositories. It is a robust, expandable and scalable repository based on a data model derived from years of experience with the Oacis EMR suite. By providing a single shared health record for each patient, Assure EHR provides region-wide clinical tracking across multiple hospitals, physicians' offices and care facilities.

Hospital personnel and physicians can immediately see the original diagnosis, description of symptoms, patient notes and allergies of a newly transferred patient. Hospitals do not need to maintain duplicate records.

Assure EHR makes clinically relevant data available through the Clinical Data Repository — information such as encounter history, discharge summaries, critical conditions, circle of care, diagnosis, observations, wait list information and more. It also links to such public health information as immunization data, communicable disease cases, infectious disease outbreaks and public health alerts.

The Emergis Assure EHR Clinical Data Repository

Conforms to HL7v3 messaging standards.

Delivers comprehensive patient information to allow for collaboration.

Extensible data model to support evolution and customization.



DRUG INFORMATION SYSTEM

Excellent pharmacist-physician collaboration

The electronic exchange of information between pharmacists and physicians helps them make clinical decisions that improve the quality of care. The Assure EHR Drug Information System (DIS) module gives health professionals real-time access to a patient's complete drug profile. The DIS module of Assure EHR is a domain data base housing prescriptions as well as their effective dosages for patients within the given jurisdiction. Each patient's profile includes information on allergies, intolerances, vaccinations and counter-indications, as well as pertinent clinical observations.

Drug Utilization Review (DUR)

The Assure EHR DIS includes a drug review function that is available to both the prescribing physician and the pharmacist. Medication is evaluated according to such criteria as dosage, interaction with other medications, duplication of therapies, patient characteristics (sex, age), physical state (pregnant, nursing). This function alerts both physician and pharmacist to conflicts that may occur because of a patient's current medications or personal profile.

Improved medical administration and management

The Assure EHR Drug Information System is the right choice.

Selected by Canadian jurisdictions as part of one of the pan-Canadian electronic record solutions.

Meets Canadian Infoway requirements — one of the first national sets of standards in the world that ensures the secure sharing of electronic health records across an entire country.

Conforms to standardized HL7v3 norms providing secure access to timely, accurate health data.

Delivers quick, concrete results to pharmacists and physicians and integrates to their existing tools.

LABORATORY RESULTS REPOSITORY

Sharing, enhancing knowledge

The Assure EHR Laboratory Results Repository manages laboratory results and orders from Point of Service Laboratory systems. It is based on scalable and expandable technology.

Assure EHR's Laboratory Results Repository gives clinicians rapid access to lab results and data on individual patients no matter where the testing was performed. The Laboratory Results Repository collects, normalizes and stores data and makes that data available via the Assure EHR Portal. A typical customer deploys the laboratory repository to support laboratory results of all types, including general laboratory, microbiology and pathology.

The Emergis Assure EHR Laboratory Results Repository

Supports HL7v3 messages for receiving and requesting lab data.

Standardizes results information from multiple source systems.

Provides ordering support and coordination.

HEALTH DATA WAREHOUSE

Facilitates the creation and distribution of end-user reports over the web

Assure EHR includes tools for easy access to data, data analysis and reporting. It provides advanced data analysis capabilities to clinical researchers, business executives and planning personnel. Non-technical users can also query, review and analyze substantial amounts of clinical and operations data through Assure EHR's Health Data Warehouse.

Here are just a few of the unlimited potential uses of Assure EHR's Health Data Warehouse.

Clinical and population research

Case management and decision support

Public and environmental health studies

Disease **surveillance**

Staff productivity **improvements**

The design approach is based on the Conformed Dimension architecture best practices to allow for integration of new domains into the single health data warehouse solution.

The data is fed to the data warehouse from the various sources exclusively through the Emergis Assure EHR Health Integration Platform. ETL services manage the extraction, transformation and loading of data to the various levels of the Data Warehouse. The data is physically organized into data models called Data Marts that reside on an Oracle 10 G data base. In addition, the system provides masking capabilities to de-identify data.



CHANGE MANAGEMENT

An integral part of each project

Assure EHR's Change Management programs draw from a wealth of experience and best practices used over our many successful health care initiatives. Our iterative and multi-path approach to change management engages stakeholders at multiple levels and points in the change management process and through multiple media. Key to this strategy is the creation of a well-articulated value proposition message directed to each stakeholder group as part of a targeted communication plan.

Assure EHR's Change Management program is integrated within the deployment phase of different projects. Its proven approach aims to create conditions that maximize openness to change, and ultimately, adhesion by different participating parties. This flexible approach adapts easily to the specific needs of different environments within the health sector.

Facilitates rapid adoption by health care professionals through a proven methodology.



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