

Clinical Systems news

An integral part of HealthSMART, Victoria's Whole-of-Health ICT Strategy

May 2007–Issue six

HealthSMART Clinical System overview

The HealthSMART Clinical System project will enable improved patient care through implementation of the Cerner Millennium clinical system to support clinical service delivery.

The primary users of a clinical system are medical and nursing staff, pharmacists, investigative service providers and allied health professionals. A core principle of the project is that information critical to the provision of patient care should be available at the point of care and time of clinical decision-making.

The system's functionality will be implemented incrementally in clinically-logical workflow groupings with enabling infrastructure and integration services to underpin the implementation.

Project update

Work is well underway on the project and substantial time and effort has been devoted to building the right foundations to successfully implement functionality throughout health services.

Expression of interest from health services

An expression of interest process was undertaken to:

- obtain health service participation in the state-wide planning and design of the clinical system
- discover the preferred timetable for health services to commence implementation
- identify health services to be lead implementation sites.

A total of 13 health services expressed interest in implementing the HealthSMART Clinical System in 2007. Following a consultative process that included executive information sessions and Cerner Millennium demonstrations at the health services, four health services were nominated to form a group of lead implementation sites. These health services are:

- Ballarat Health Service
- Eastern Health
- Goulburn Valley Health Service
- Royal Victorian Eye & Ear Hospital.

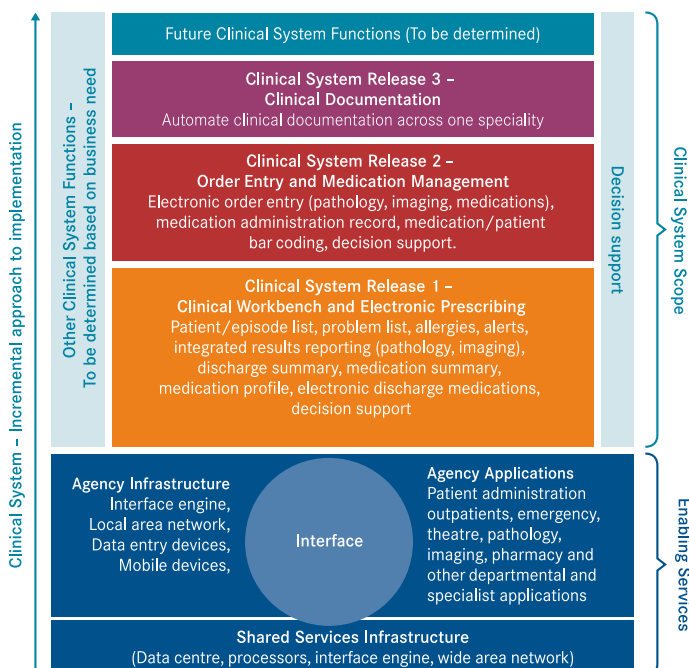
The contacts for the Clinical Systems portfolio are:

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HealthSMART Clinical Systems Steering Committee

Steering committee membership has been revised to better represent the lead implementation sites. The chair of the steering committee is Dr Tracey Batten, Chief Executive Officer, Eastern Health. The role of the steering committee – to oversee the effective governance of the HealthSMART Clinical System project – remains the same. The membership list is available at: www.health.vic.gov.au/healthsmart/clinsystemem.htm

Pre-implementation work program

Lead implementation sites commenced a work program to develop a business case and assess readiness before the implementation planning study begins. Activities include:

- developing a benefits realisation plan
- establishing a project steering committee and governance structure
- reviewing business processes
- assessing the technical infrastructure and peripheral device requirements in clinical areas.

Victorian state design

Reference and advisory groups with members from health services across Victoria have completed design workshops for the clinical workbench and e-prescribing, the first stage of the HealthSMART Clinical System project. The group, comprising health, IT and management professionals, reviewed term sets for pathology and imaging results and provided design input and expert advice on technical and implementation topics. Cerner is now proceeding with configuration of the Victorian state build of the system, which will form the basis of all health service implementations. To view the membership of all HealthSMART clinical systems committees and working groups visit: www.health.vic.gov.au/healthsmart/clinsystemem.htm

Clinical system functional summary

Release 1:

Clinical workbench and e-prescribing

The initial release of the HealthSMART Clinical System includes the clinical workbench and e-prescribing. The clinical workbench is the informational and navigational foundation for the entire clinical system. At this level the clinician is able to locate patients, view demographic data, record clinical information, review results and trends, and communicate with other practitioners. E-prescribing will provide the ability to capture information about medications on admission, create discharge and outpatient prescriptions and communicate medication information to GPs.

The key functions and features of release one are:

Viewing of real-time patient information:

- patient demographics
- visit history – inpatient, outpatient, emergency department
- visit details – type, date, location
- future outpatient appointments.

Flexible patient lists displayed by:

- location
- speciality
- user-designated criteria.

Problems and diagnoses:

Capability to manage problems and diagnoses using a catalogue of agreed, standard clinical terminology.

Integrated results reporting:

Real-time reporting of pathology and imaging results, highlighting critical or abnormal values with the ability to trend and graph results.

Allergies:

Detailed recording of patient allergy information, including drug, food and environmental allergens and common reactions.

Alerts:

Documentation and notification of critical and non-critical alerts.

Discharge summary:

Ability to compose a discharge summary using a standard Victorian template. Data will automatically populate from the patient record. System users have the ability to select or input additional information.

Patient access list:

Provides a real-time clinical overview for a selected group of patients.

Inbox:

Provides a collection point for notifications, alerting a clinician or groups of clinicians of critical, abnormal and new results. Facilitates communication using messages and reminders.

Discharge and outpatient prescriptions:

Prescribing of discharge and outpatient medications utilising an Australian PBS-compliant drug database with available standard prescription directions.

PBS:

Electronic discharge and outpatient medications will comply with state requirements.

Decision support:

Allergy and drug interaction checking.

Release 2: Order entry and medications management

Order entry:

Standard catalogue of pathology and imaging services to compose orders.

Order sets:

Best practice order sets to streamline the ordering process.

Medication order entry:

Medication ordering for all hospital patients with access to a configurable drug knowledge base, and pre-defined medication orders.

Decision support:

Place orders in context (past orders), alert clinicians of duplicate medications, drug-drug interactions and allergy-drug interactions.

Medication administration record:

Charting of all administered medications (scheduled, PRN and continuous infusions).

Medication and patient ID bar-coding:

Supporting the achievement of the 'five rights' – right patient, right medication, right dosage, right form, right time.

Medication profile:

Single location for recording and viewing medications on admission, past scripts and current medications.

Release 3: Clinical documentation

Automate clinical documentation across one speciality:

Provision of documentation templates as electronic forms specific to the speciality, such as an assessment tool that uses structured notes and annotated diagrams.

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www.health.vic.gov.au/healthsmart

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