

Clinicode

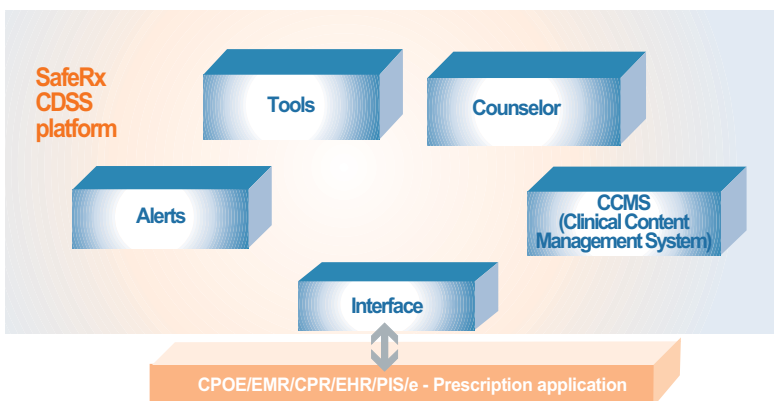
Healthcare IT solutions

It saves lives!

SafeRx

Making prescriptions safer

SafeRx is Clinicode's drug therapy modular Clinical Decision Support System that increases patient safety by minimizing the risk of errors in prescription of medications. Its main functions are:



- ▶ **Alerts** - Alerts the user to various types of errors involved in the prescription of medications.
- ▶ **Counselor** - On demand clinical advises related to drug therapy.
- ▶ **CCMS** - Brings in-house clinical content to the point of care.
- ▶ **Tools** - Provides tools for local adaptation, report generation, system configuration, etc.
- ▶ **Interface** - Interfaces the prescription application and provides the information to the users via the prescription/EHR applications.

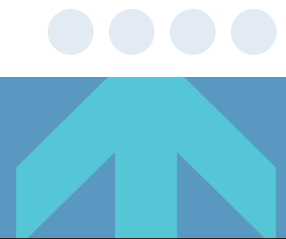
* For SafeRx detailed description see the back page of this brochure.

Benefits of SafeRx for EMR/CPOE/CPR vendors:

- ▶ **Differentiation** - SafeRx differentiates your solution by the provision of a sophisticated clinical decision support system and patient safety elements.
- ▶ **Simplicity**
 - ▶ Well defined and simple interface. No connection to any external source required.
 - ▶ Alerts and decision support within the physician workflow providing the real time clinical content as needed.
 - ▶ Automatic periodical clinical content updates.
- ▶ **Immediate and comprehensive solution** - SafeRx enables drug patient safety and CDSS to your customers leveraging Clinicode's implementation experience.
- ▶ **Global implementation** - The unique set of middleware software tools (see "tools" at back page) enables SafeRx to function in various healthcare organizations and countries having different alert policies, languages, drug catalogues, drug names and other clinical content.
- ▶ **Retention** - SafeRx solution increases your customer retention due to dependence on the clinical knowledge SafeRx provides through your solution.
- ▶ **Pay as your customer base grows** - No need for up-front R&D investment. Payment is based on an annual license for actual customers.
- ▶ **Additional source of profit for your company**

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SafeRx detailed functional description:

- ▶ **Alerts** - SafeRx performs immediate screening of prescriptions and patient's data and alerts the physician or pharmacist to potential issues, such as:
 - ▶ Drug to drug interaction.
 - ▶ Likely drug-allergy and drug-disease contraindications.
 - ▶ Erroneous dosages in accordance to patient specific information such as age, weight, hepatic disorder and renal failure.
 - ▶ Alerts related to special groups such as geriatric, pediatric, lactating mothers and pregnant women.
 - ▶ Alerts related to additive side effects.
 - ▶ Duplicate therapy and others.

These modular alerts are provided using existing workflow and with no change of the caregiver's existing procedures. SafeRx uses an international knowledge base that is being periodically updated. It includes information related to FDA and other approved drugs while information related to additional local drugs can be also added.

Screening is normally performed when a new prescription is written or prior to dispensing. Additional, off-line, patient drug therapy status check is possible as well to run on pre-defined patient list.

- ▶ **Counselor** - Prior to prescribing medication, a physician may wish to look at drug reference information, get the right dosage information for the patient or to get a list of existing drugs for a known indication. A one-click button integrated at the CPOE/EMR/CPR/EHR/PIS/e-Prescription can support this.
- ▶ **CCMS** (Clinical Content Management System) - This application enables the caregiver institute to present in-house clinical content at the point of care to the right person and at the right situation. For example:
 - ▶ Generate alerts related to local additional drugs.
 - ▶ Alert the user about out-of-range dosage levels for patients suffering from renal failure when their patient specific Creatinine Clearance is given.
 - ▶ Generate alerts related to specific situations such as prescribing a specific drug to a patient having a specific lab test result.
 - ▶ Enable possible overriding of clinical content by the healthcare organization.
- ▶ **Tools** - The SafeRx includes middleware software tools to enable swift implementation in the hospital/HMO/Pharmacy international environment. Among these applications are:
 - ▶ **Mapping** - Enables the use of local commercial drug names by mapping them to SafeRx generic drug names.
 - ▶ **Configuration** - Filters alerts to minimize the "alert fatigue" phenomenon. Configuration is available up to the individual physician level.
 - ▶ **Reports** - such as the percentage of prescriptions administrated having severe drug to drug interaction between specific dates for a specific physician
 - ▶ **Update** - Automatic periodical update of the clinical knowledge bases.
- ▶ **Interface** - SafeRx can be easily integrated with existing CPOE/EMR/CPR/EHR/PIS/e - Prescription tools. It uses an XML protocol to immediately answer queries generated by these applications and can be provided in Webservice or DLL format.

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