

About CyPERS

CyPERS, an acronym for **CyBER PATIENT ELECTRONIC RECORD SYSTEM**, is a web based electronic medical record system developed to be used by direct patient care providers. It is a collection of a patient's medical information in digital / electronic form that can be viewed on a computer and easily shared by practitioners taking care of a patient.

CyPERS is an application environment composed of the clinical data repository, clinical decision support, controlled medical vocabulary, order entry, computerized provider order entry, pharmacy, and clinical documentation applications. This environment supports the patient's electronic medical record across inpatient and outpatient environments, and is used by healthcare providers to document, monitor, and manage health care delivery within a healthcare organization (HO).

The data so generated through CyPERS acts as a legal record of what happened to the patient during their encounter at the HO. Medical documents so generated for a patient will be owned by the HO.

CyPERS Features

1. **Web Based** - Access CyPERS securely and remotely from any desktop, Laptop, tablet or pocket PC to dictate, view histories, document visits, and capture charges
2. **Input information** using a variety of methods - Voice, stylus, e-pen, handwriting recognition, keyboard, etc
3. **Customize** the sequence of activities, tasks, and screens to suit personal workflow preferences and accommodate new users and specialties
4. **Manage** the individual patient's chronic diseases and conditions with Practice Guidelines, alerts, letters, e-mails etc
5. **Prescribe** medications safely with support of a variety of safety features based drug databases
6. **Protect** patient data from unauthorized access with password log-in requirements, access limitations and audit trail
7. **Automate and integrate** information generated in following departments of a Healthcare Organization:
 - i. Admission, Discharge, Transfer and Registration (ADTR)
 - ii. Care Management
 - iii. Clinical Reporting
 - iv. Procedures
 - v. Nursing
 - vi. Laboratory and Radiology
 - vii. Pharmacy and
 - viii. Administration
8. **Rich internet application** with graphical representation of patient vitals thus enabling better monitoring and management of patient information

9. **HL7 compliant** and follows **ICD 10 and CPT** coding standards for diagnosis and Procedures
10. Customized views, screens and charts to suit to personal preferences and requirements of care providers and their specialty

CyPERS Functionality

1. **Scheduling** – Book appointments for patients as per care provider's schedule. System is flexible enough to accommodate walk-in patients also
2. **Clinical Documentation** – Through our template driven approach, care providers can document their clinical observations and create orders in a few clicks of mouse or similar input mechanism
3. **Decision Making** – Intelligence built within the drug database will always ensure that the right drugs are prescribed and dispensed to patients. Medical calculators like BMI, BSA, Glasgow Coma Scale, etc. come in handy for care providers to diagnose patients
4. **Integrated SMS and Alert system** to keep the care providers updated with the health progress of patients and alert them at times of criticality
5. **Quick Messaging** between users of CyPERS ensures that all the care providers are instantly notified with relevant information in the right time

Benefits

1. Replace paper-based medical records which can be incomplete, fragmented, hard to read and sometimes hard to find
2. Provide a single, shareable, up to date, accurate, rapidly retrievable source of information, potentially available anywhere at any time. Require less space and administrative resources
3. Potential for automating, structuring and streamlining clinical workflow
4. Provide integrated support for a wide range of discrete care activities including decision support, monitoring, electronic prescribing, electronic referrals radiology, laboratory ordering and results display
5. Maintain a data and information trail that can be readily analyzed for medical audit, research and quality assurance, epidemiological monitoring and disease surveillance
6. A quality centric application, CyPERS helps HO's meet quality norms as laid by accreditation bodies like JCI (Joint Commission International)
7. Since CyPERS is a web based application that works on SAAS (software as a Service) model, HO's can save a lot of time, resources and costs in implementation and maintenance of the application
8. CyPERS helps HO's to generate additional sources of revenue through publishing of advertisements

Road Map

1. Integration of CyPERS with
 - a. automatic medicine dispensing machines
 - b. Medical test equipments
 - c. EHR (Electronic Health Record) application
2. HIPPA and DICOM compliant