insight to !nspiration

Samsung SDS
EHR

Samsung SDS EHR(Electronic Health Record) breaks down the barriers within hospitals by offering an integrated and comprehensive system for sharing clinical, administrative, and financial information.

SAMSUNG SDS   SAMSUNG

Optimize Clinical and Organizational
Performance with Samsung SDS EHR

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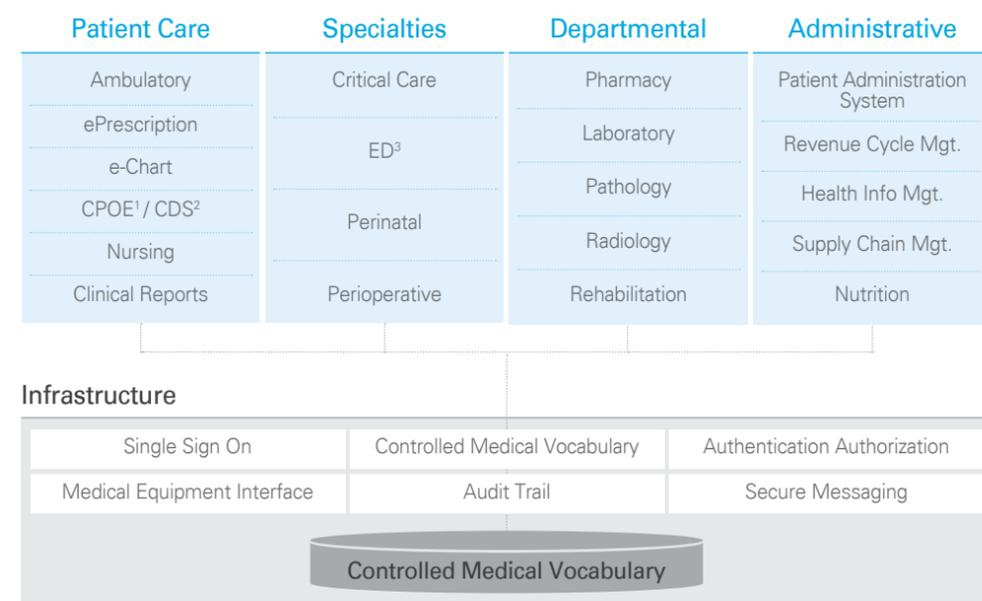
Healthcare analysts agree that hospital workflow is complex; it involves active cooperation and information sharing across departments, sectors, and territories. Our answer to such complication is the Samsung SDS EHR solution that has proven its worth even in the largest hospitals. It is flexible and adaptable; the solution provides an easy-to-use and effective set of tools that empowers the end users to improve patient outcomes and hospital efficiency.

Samsung SDS EHR has been designed to manage all aspects of the hospital workflow processes encompassing patient administration, patient care management, revenue cycle management, financial transactions, and ancillary departmental processes. It also offers mobile features to empower physicians to access patient data and engage with patients anywhere and anytime.
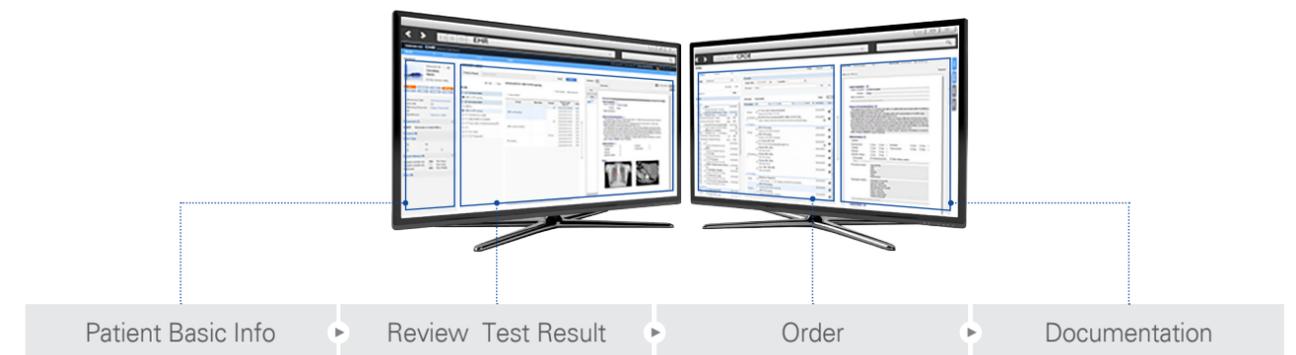
Solution Overview

Patient Care	Specialties	Departmental	Administrative
Ambulatory	Critical Care	Pharmacy	Patient Administration System
ePrescription	ED³	Laboratory	Revenue Cycle Mgt.
e-Chart		Pathology	Health Info Mgt.
CPOE¹ / CDS²	Perinatal	Radiology	Supply Chain Mgt.
Nursing		Rehabilitation	Nutrition
Clinical Reports	Perioperative		

Infrastructure

Single Sign On	Controlled Medical Vocabulary	Authentication Authorization
Medical Equipment Interface	Audit Trail	Secure Messaging

Controlled Medical Vocabulary

¹ CPOE: Computerized Physician Order Entry
² CDS: Clinical Decision Support
³ ED: Emergency Department

Obtain a Holistic View of Patient Health across All Settings

Quick access to patient information-laboratory results, MAR (Medication Administration Record), nutrition, and patient history-enables physicians to obtain a complete picture of the patient's condition and reduce incidences of medication errors and adverse drug events.
While physicians do clinical documentation, Samsung SDS EHR sources images and lab results from other hospital systems, thereby offering the users with effective time management experience. It also tracks high-risk patients and notifies clinicians of their conditions on time for effective care.

Patient Basic Info	▶	Review Test Result	▶	Order	▶	Documentation

Empower Physicians with Evidence-based Order Entry

CPOE (Computerized Physician Order Entry) is designed around the physician's workflow for ease of use and adaptability. Physicians can solely focus on providing care to patients with the maximum support from our intuitive user interface.
With just a few clicks, the user interface provides patient information such as prescription and allergies sourced from different departments.
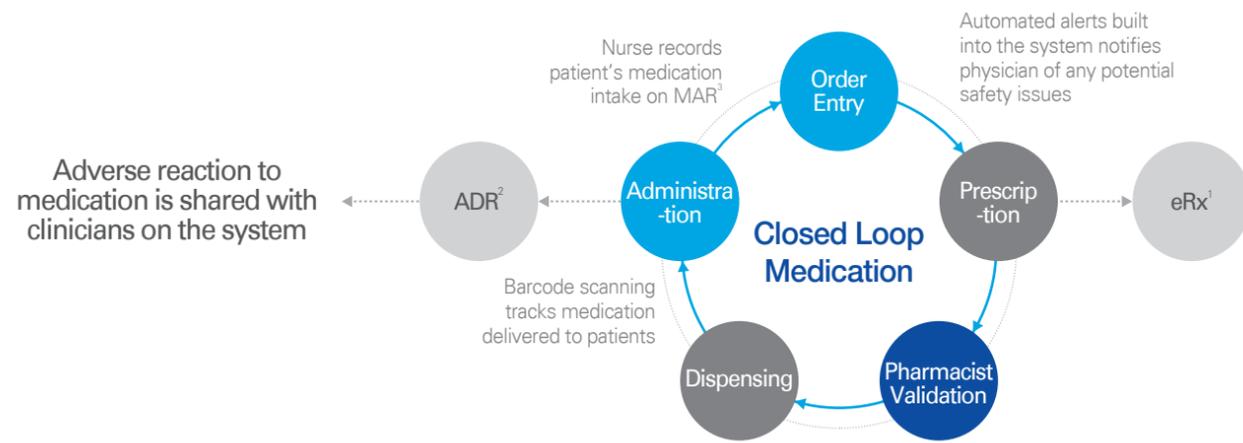CDS (Clinical Decision Support) supports physicians when prescribing medications by providing dosing guidelines, formulary information, drug allergy checking, drug-drug interaction checking, and drug dosage checking to prevent medication errors and aid in decision making.

Streamline Physician Workflow by Using Intuitive Physician Documentation

Samsung SDS EHR clinical documentation creates and manages a broad range of medical documents such as Admission Notes and Patient Progress Notes, using standard, clinically approved templates. It also supports the usage of standard terminology such as ICD-10 and SNOMED CT codes, which enables effective data use and system interoperability. The ability to attach PACS (Picture Archiving and Communication System) images while documenting and reviewing patient information provides physicians with a complete picture of patient's condition, and allows them to deliver optimum care.

Enhance Patient Safety with Closed Loop Medication Process

Samsung SDS EHR offers proactive prevention of medication errors by tracking all the medication-related processes from placing orders to dispensing and administering medications in the hospital. It supports ADR (Adverse Drug Reaction) which manages adverse drug effects of patients and links them with CPOE to enable physicians to take appropriate decisions. TDM (Therapeutic Drug Monitoring) ensures drug's safety and efficacy by monitoring serum levels of drug concentrations.

Nurse records patient's medication intake on MAR[3]

Automated alerts built into the system notifies physician of any potential safety issues

Adverse reaction to medication is shared with clinicians on the system

Barcode scanning tracks medication delivered to patients

Closed Loop Medication

Order Entry
Prescrip-tion
eRx[1]
Administra-tion
ADR[2]
Dispensing
Pharmacist Validation

※ ADR, TPN[4], TDM[5], ACS[6] working throughout the process

[1] Electronic Prescribing (eRx)
[2] Adverse Drug Reaction (ADR)
[3] Medication Administration Record (MAR)
[4] Total Parenteral Nutrition (TPN)
[5] Therapeutic Drug Monitoring (TDM)
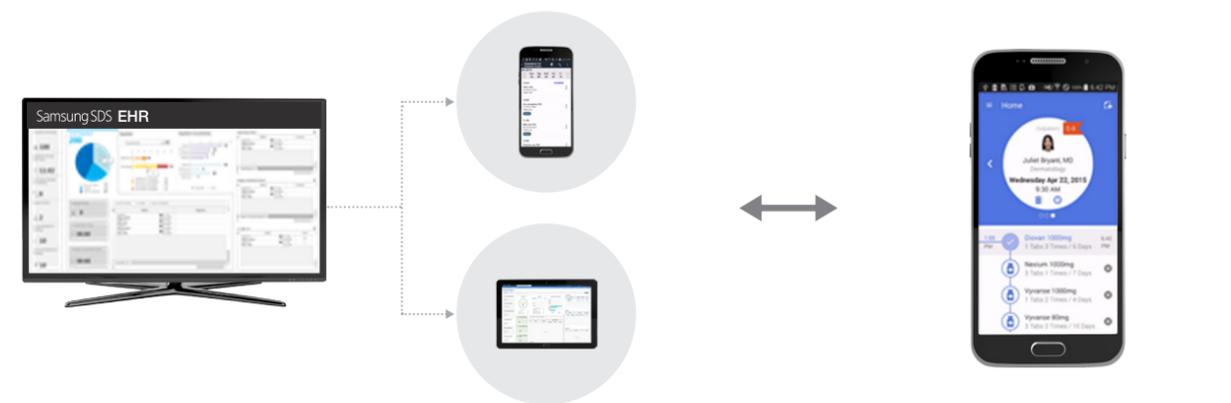[6] Anti Coagulation System (ACS)

Manage Care Records by Using Nursing Module

Samsung SDS EHR facilitates recording of patient care by using specialized charts such as flow sheets and nursing plans. Unplanned activities or other additional information can be captured using nursing notes which are linked with nursing plans.
Medications administered by nurses are recorded on eMAR (Electronic Medication Administration Record) and shared with physicians in real-time.

Increase Connectivity for both Patients and Physicians with Samsung Mobile Technology

Physician mobile application provides physicians with a quick and easy access to patient data on their mobile devices. Healthcare providers can promptly share clinical data and notes via secure messaging, thereby speeding up clinical decisions and improving patient diagnosis outcomes. Studies have shown that increasing patient engagement is a major factor in improving health outcomes. Patients can now be more involved in their care process as they communicate directly with the physicians, manage their conditions through health education programs, access their personal health information, and avail administrative services using our patient mobile application and web portal.

Physician Mobile

Patient Mobile

Expand Horizons

Samsung SDS EHR empowers hospitals and health systems to achieve supreme level of clinical performance and operational efficiency by interfacing with multiple systems and medical devices. The synthesis of our technology enables clinicians to share patient data seamlessly between systems, thereby delivering a superior patient experience. Our solution also supports the integration of genomic information. This enables physicians to easily access genomic information in their routine clinical practice.Physicians can use this information to provide patients with personalized treatment and proactive care of diseases.

Infrastructure

Device

Physician
Specialties
Pharmacist

Patient Care
Patient
Departmental

Nurse
Administrative
Administrator

External

Hospital

Insurance

Government

Medical Equipment

Radiology Equipment	Laboratory Equipment	Other Healthcare Equipment

Case Study

Samsung group established a 2000 bed general hospital in 1994 in Seoul, Korea. With excellent clinicians, cutting-edge technology, and outstanding infrastructure, the hospital has been at the forefront of Korea's medical advancement. Today, the hospital offers 40 departments, 10 specialized care centers, over one hundred specialty clinics. It is recognized as the largest general hospital in Korea that handles nearly 16 million outpatient visits and admits approximately 800 thousand inpatients annually.
The hospital greatly benefited from Samsung SDS EHR in improving clinical operation and management efficiency: waiting times at Emergency Room decreased by fifty percent and overall productivity and financials improved significantly.

* ***The Medication Screening and KPI Management functionalities of the Samsung SDS EHR require the use of compatible 3rd party Drug Database and BI Solutions.***
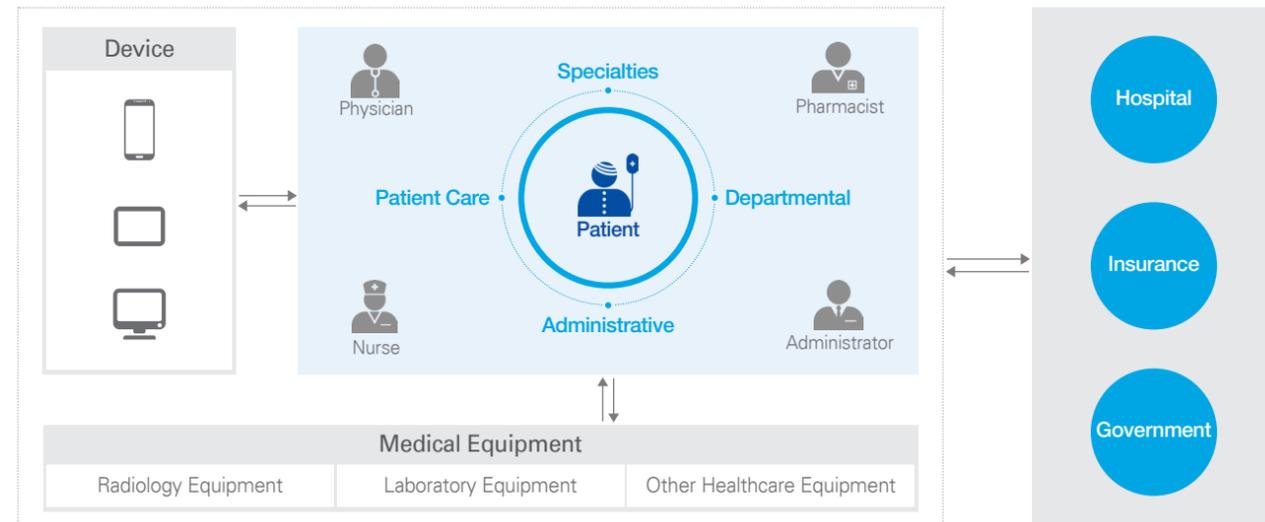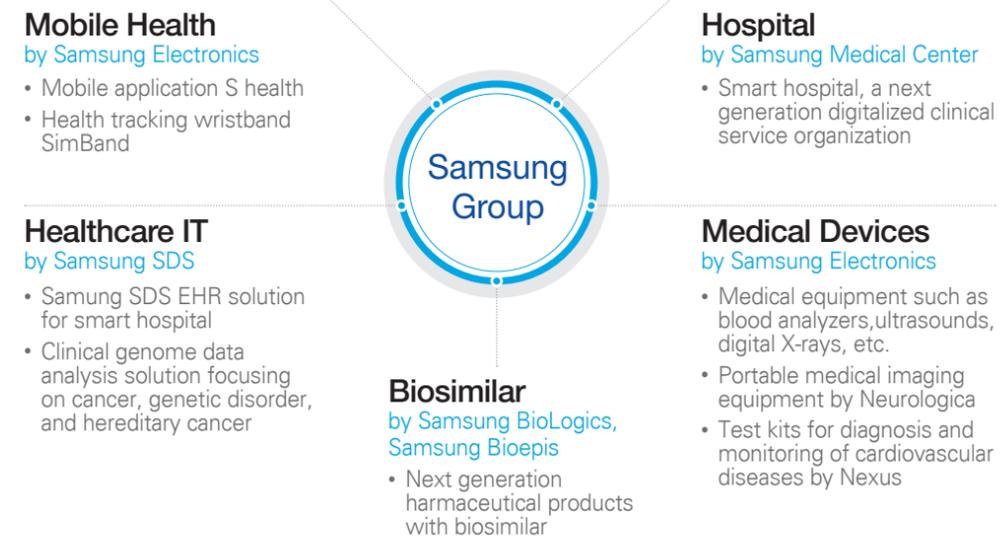
Samsung SDS

Samsung SDS is the business and IT solutions arm of Samsung group. We are a global ICT service provider with over 21,000 employees and 7.8 billion USD in revenues.

Key Facts

• 7.8 billion in revenue (in USD)
• 47 offices in 30 countries
• 21,000 employees
• Number one Korean IT services provider

Healthcare Capability

As the leading Healthcare IT provider in Korea, Samsung SDS has more than 20 years of experience in developing and implementing Healthcare solutions for academic and general hospitals. Our solution has aided leading Korean hospitals in achieving clinical and operational efficiency.
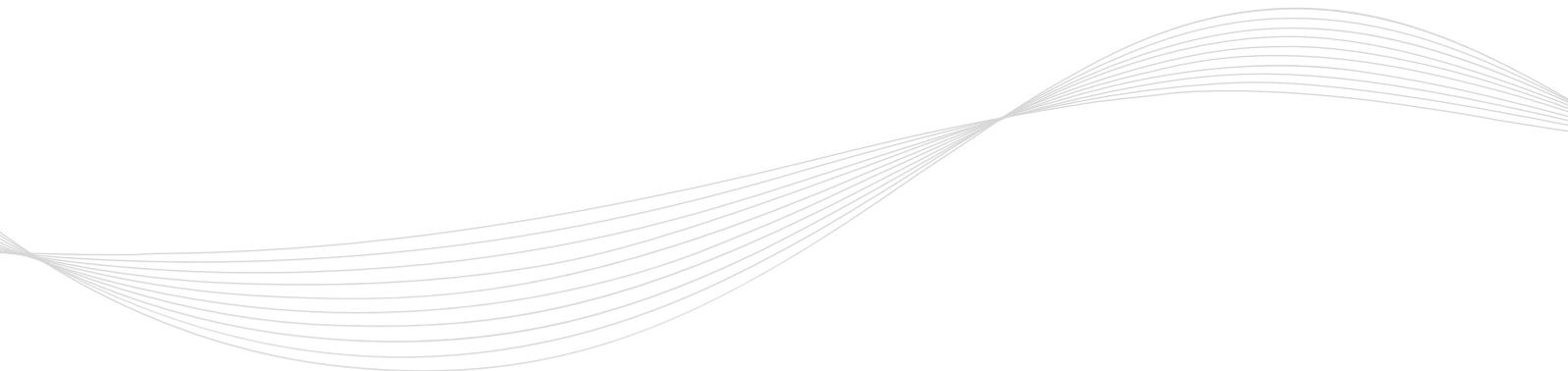
Healthcare Offerings of Samsung Group

Mobile Health
by Samsung Electronics
• Mobile application S health
• Health tracking wristband SimBand

Hospital
by Samsung Medical Center
• Smart hospital, a next generation digitalized clinical service organization

Healthcare IT
by Samsung SDS
• Samsung SDS EHR solution for smart hospital
• Clinical genome data analysis solution focusing on cancer, genetic disorder, and hereditary cancer

Samsung Group

Medical Devices
by Samsung Electronics
• Medical equipment such as blood analyzers,ultrasounds, digital X-rays, etc.
• Portable medical imaging equipment by Neurologica
• Test kits for diagnosis and monitoring of cardiovascular diseases by Nexus

Biosimilar
by Samsung BioLogics, Samsung Bioepis
• Next generation harmaceutical products with biosimilar

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