

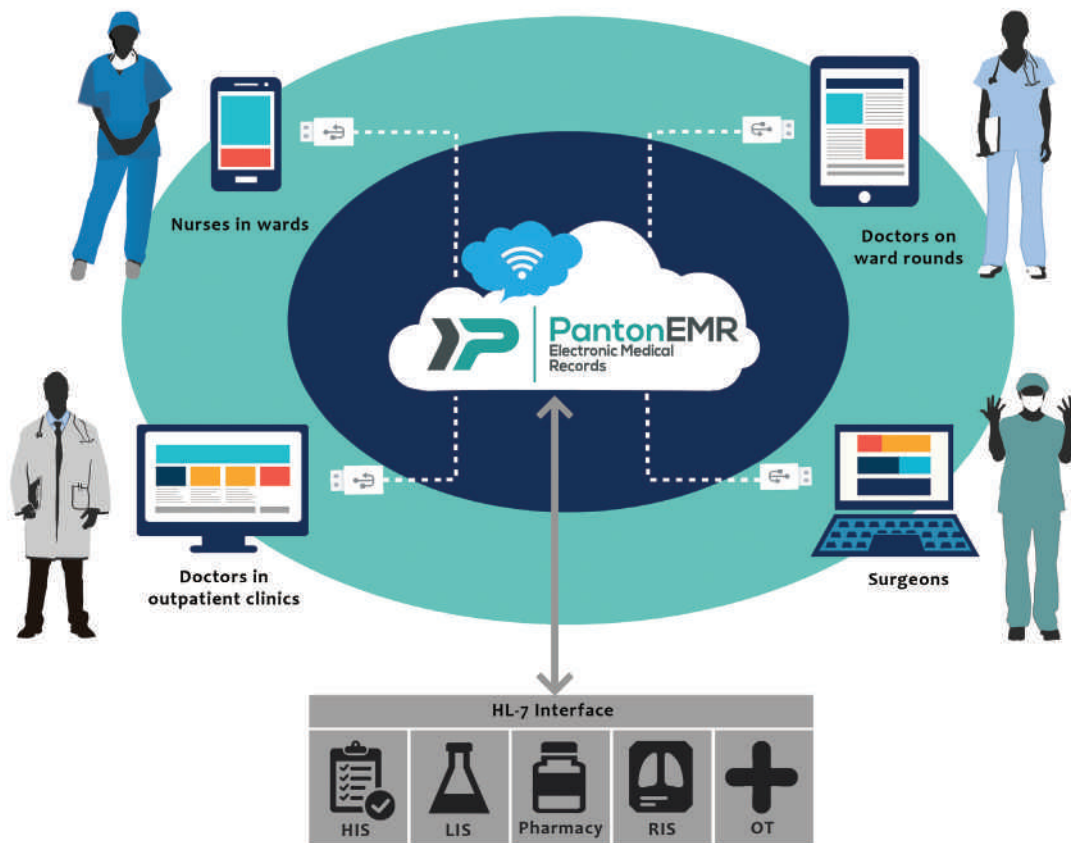


MORE THAN JUST DIGITIZING YOUR PATIENT FOLDERS

PantonEMR is built to function as an information-centric hub that connects your doctors, nurses, patients and all vital information, to enhance the quality of patient care and combat medical errors at your hospital.

It works toward providing a single standardized and comprehensive view of each of your patients by collecting vital patient information ranging from doctors' clinical notes transcribed during consultation, to nursing notes, test results, investigative reports and medicines & dosages, amongst others. At the same time, PantonEMR also works to connect your doctors with other systems such as those in your laboratory and imaging department, so that the dynamic exchange of order requests and results can be carried out effectively without the use of paper and manual transcribing.

Leveraging the latest web technology, PantonEMR encourages the use of tablet PCs so that your doctors and nurses have instant access to the latest patient records across time and space. It is also designed with a highly intuitive user interface to enable your medical practitioners navigate the system like second nature.



YOU WANT TO BUILD AN INFORMATION SUPERHIGHWAY.

Many healthcare systems can be found in your existing hospital environment. State-of-the-art systems that manage your various departments ranging from administration (HIS), to laboratory (LIS), Pharmacy, and operating theatre amongst others, may have already been implemented. However, a pertinent challenge is commonly found in bridging the communication gaps between these existing systems with your doctors and nurses. This often times is the cause for long patient wait-time, and PantonEMR is built to precisely meet this challenge by leveraging the latest cloud computing technology and seamless HL-7 integration.

With PantonEMR, *highways* are built to facilitate the dynamic exchange of information in a clinical work flow process. Orders for drugs, investigation procedures and diagnostic tests can be raised directly from the point-of-care, and sent to the relevant departments in real-time. As soon as your LIS or RIS is ready with a patient's results or a report, an alert is sent directly to your doctor for further action.

Prescription orders raised at your doctor's consultation room will immediately signal your pharmacy to commence preparation. At the same time, your billing department will also be updated of the relevant charges, and your patient will be able to settle all outstanding payment as soon as he steps up to the cashier.

A SOLUTION EMBRACED BY ITS USERS.

Getting your doctors and nurses to “go EMR” is a common challenge found in hospitals today. With hectic daily schedules attending to patients, the last thing they need is to spend time learning to use something new. Therefore, when designing PantonEMR, our development team made sure that the system would be as intuitive and user friendly as possible. We wanted to design the application solution based on logical workflow because we believe that the successful implementation of any EMR system is reflected upon a high user adoption rate.

To do this, our team continually works very closely with doctors, nurses and hospital administrators to gain domain knowledge, thereafter transferring this knowledge to become a solution that boasts maximum ease-of-use.

PantonEMR offers a unique **hybrid data entry** feature that enables two methods of clinical note-taking namely; free text entry and template functionality.

Free text entry of clinical note-taking mirrors the natural manner in which healthcare practitioners manage their existing clinical work flow. It provides electronic forms for transcription via keyboard or pen-based input, thus allowing for more personalized documentation.

Template functionality on the other hand paves the way toward standardized clinical note-taking and medical documentation to enable effective reporting, trend analysis and quality compliance by navigating healthcare practitioners through a series of pre-defined steps and procedures.

The PantonEMR hybrid data-entry approach provides optimal flexibility for medical practitioners, both young and old, whether IT savvy or otherwise to rapidly adapt to our EMR system with minimal learning curve needed.

MAKING SURE THAT YOUR PATIENTS ALWAYS RECEIVE QUALITY HEALTHCARE.

The electronic transmission of prescription directly from the doctor’s tablet PC to the pharmacist greatly reduces the rate of incorrect prescription. All orders raised for drugs is carried out via an e-prescription module within PantonEMR which utilizes Computerized Physician Order Entry (CPOE). To ensure accurate drug and dosage selection for each patient, real-time cross-checking is carried out against your patient’s allergies and drug-on-drug interaction.

Besides being a safer and more effective drug ordering approach compared to paper-form prescription pads, PantonEMR’s e-prescription also updates your patient’s medical record, making it easily available for reference during follow up visits.

SALIENT FEATURES

Integration Services

Seamless integration via a secured HL-7 interface engine with your RIS/PACS, LIS, OT system and ancillaries allows your doctors to directly raise orders for drugs, investigation procedures and diagnostic tests from their tablets, and similarly receive reports and results in real-time.

Intuitive Clinical Note-Taking

Provides a hybrid data entry approach namely free text entry and template functionality; so that your doctors can continue to provide their best patient care.

- Supports typed and handwritten note-taking.
- Supports free-hand drawing on medical body diagrams.
- Provides configurable templates to capture structured data.
- Captures all orders raised for prescription and investigation procedures during each outpatient consultation.
- Captures all orders raised for medication and investigation procedures throughout an inpatient stay.
- Provides version controls so that each patient's historical progression can be easily referred to.

Computerized Physician Order Entry (CPOE)

A straight-forward and guided approach for order entry used by your doctors and nurses to raise orders for prescription and medication. A robust CPOE greatly reduces the rate of medical error related to poor handwriting or erroneous transcription of drug orders.

- Provides a personalized "Favorite" list for each doctor to quickly select from.
- Seamless integration with your hospital's selected drug library.

Medication Activity Log

Medication charts keep track of all medication delivered to each patient throughout their inpatient stay – which includes medication orders raised by doctors as well as verbal medication orders raised by nurses.

Nursing Module

Supports ward nurses to perform their daily documentation and administration duties such as making nursing diagnosis, checking doctors' orders and delivering medication, writing nursing care plans and recording vital signs.

- Patient medication chart – Assists nurses in delivering medication timely and accurately.
- Provides a comprehensive range of nursing charts to capture patient vital signs.
- Nursing Kardex to summarize individual patient needs at the change of every shift.
- Admission and Discharge plan
- Nursing care plan

E-Consent Form Builder

Used by doctors to create and customize forms on-the-fly, to obtain patient's consent prior to a procedure or surgery.

- Consists of an easy-to-use and powerful toolset to create and update structured forms.
- Enables data configuration and auto-import of patient information.
- Embeds reference numbers for tracking purposes.
- Supports digital signature.
- Provides facility for scanning and re-uploading of signed consent forms into respective patient folders.

Alerts

Real-time notifications to seek immediate action and follow-up for the following scenarios:-

- To inform doctors of Laboratory results and Imaging & OT reports availability.
- To obtain doctor's approval for verbal orders.
- To inform the Pharmacist and Nurse of any Stat medications raised by consulting doctors.
- Functions as an internal messaging system amongst your doctors.

Patient Information Management

Attending healthcare professionals can obtain a comprehensive understanding of each patient by accessing individual patient profile pages.

- Contains each patient's complete medical folder including patient demographics, latest photo and clinical notes from all consulting doctors.
- Patient's registered allergies and biohazards.
- A record of all Laboratory, Imaging and OT reports.
- Able to view all scanned and uploaded related documents – Ie: Referral letters, Insurance policies



Outpatient Clinical Flow

To support doctors, nurses and therapists in carrying out their end-to-end clinical work flow process in an outpatient hospital environment using a Tablet PC.

- Patient Queue – Provides a view of outpatient queues awaiting consultation or service, including queues for Consultants, Clinic nurses, Chemotherapy department, Radiology, Laboratory and ALLIED Health.
- Hybrid data-entry approach (Ie: Typing/Handwritten/Drawing) to create and edit clinical notes at the point-of-care.
- Instant access to patient records – including past clinical notes and medical history; to gain comprehensive understanding of a patient's health condition.
- Automatic push function to facilitate efficient patient referrals to other doctors.
- Enables simultaneous patient record viewing by multiple doctors and nurses.
- E-prescription for doctors – To raise orders for prescription and investigation procedures to the pharmacy, laboratory and imaging department in real-time via CPOE.
- E-prescription for non-consultants (Ie: Pharmacists, Nurses) – To raise verbal orders for prescription via CPOE and to obtain doctor's consent and approval prior to dispensing.
- Doctors are able to view all results and reports generated by your LIS and RIS.
- Enables doctors to input entitlement charges at the end of each consultation.

Inpatient Clinical Flow

To support doctors and nurses in carrying out their end-to-end clinical work flow process in an inpatient hospital environment using a Tablet PC.

- Patient Queue – Provides doctors and nurses with a list of patients under their care who have been admitted into their respective wards, including patients admitted for Chemotherapy treatment.
- Hybrid data-entry approach (Ie: Typing/Handwritten/Drawing) to create and edit clinical notes at the point-of-care.
- Instant access to patient records – including past clinical notes and medical history; to gain comprehensive understanding of a patient's health condition.
- Automatic push function to facilitate efficient patient referrals to other doctors.
- Simultaneous patient record viewing by multiple doctors and nurses.
- E-prescription for doctors – To raise orders for medication, TTA/TTH/TTO and investigation procedures to the pharmacy, laboratory and imaging department in real-time via CPOE.
- E-prescription for non-consultants (Ie: Pharmacists, Nurses) – To raise verbal orders for medication via CPOE and to obtain doctor's consent and approval prior to dispensing.
- Patient Medication chart – Provides doctors with the latest status of medication that have already been administered to their patients by ward nurses.
- Enables doctors to input entitlement charges at the end of each ward visit.
- Reminds doctors to input patient Discharge Summary, and keeps track of the number of days for those which are still outstanding.



Oncology Department Flow

To cater to the specialty needs of the oncology department and its specialists, as well as to facilitate their end-to-end clinical work flow process.

- Provides a list of all patients seeking inpatient and outpatient treatment.
- E-prescription for oncologists to raise medication regimes.
- Setup and customize packages for chemotherapy regime suites.
- Lock and Control management to ensure medication regimes are “locked” and changes cannot be made as soon as drug preparations commence.
- Comprehensive audit log to keep track of all changes made to medication regimes before your pharmacist commence drug preparation.

ALLIED Health Flow

To support therapists in carrying out their end-to-end clinical work flow process using a Tablet PC.

- Manages in-house referral orders as well as referral orders from non-resident doctors.
- Therapists are able to view patient case history by retrieving their updated medical folder.
- Hybrid data-entry approach (Ie: Typing/Handwritten/Drawing) to create and edit therapy notes at the point-of-care.
- Patient Queue – Provides therapists with a list of patients awaiting therapy.
- Management Template – Provides a list of Exercise Sets used for various therapies.

Security Controls

Manages access controls for all your supervisory functions including:-

- Function access
- Screen access
- Patient information access
- Medical folders access
- Patient history access – including Orders raised for drugs and investigation procedures.

OUR HISTORY IN HEALTHCARE

HT Consulting's extensive healthcare experience started in 1992 when its team of highly skilled developers was engaged by a software company in Singapore to design and develop a Hospital Information System (HIS) for the Asian market. The project was funded by the Singapore government with a \$2,000,000 software development grant. The final product was later commercialized and used by more than 100 hospitals throughout the Asian region.

Panton HIS is developed based on the knowledge and experience acquired from our vast experience working and implementing healthcare management systems for hospitals worldwide.

HT Consulting is an indigenous ICT Consulting and Outsourcing Services company founded by its visionary leader Harres Tan in 1989. The company is part of the HT Group of companies – Panton eHealth, which focuses on healthcare software Research & Development, and Rototype International, an innovative self-service banking solutions provider.

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