HemoDialysis Information System

MAYAMINER COMPANY LTD.
Tel : +886-2-2579-0838
5F.-2, No.50, Sec. 4,Nanjing E. Rd., Songshan District,Taipei City 105,Taiwan
www.mayaminer.com/Service/HD.html

HemoDialysis Information System, HDIS

The Hemodialysis Information System (HDIS) is a revolutionary solution designed to optimize the hemodialysis treatment process. By integrating state-of-the-art medical equipment, HDIS provides seamless connectivity at every stage of dialysis treatment, enabling real-time collection, display, storage, transmission, and in-depth analysis of vital signs data.

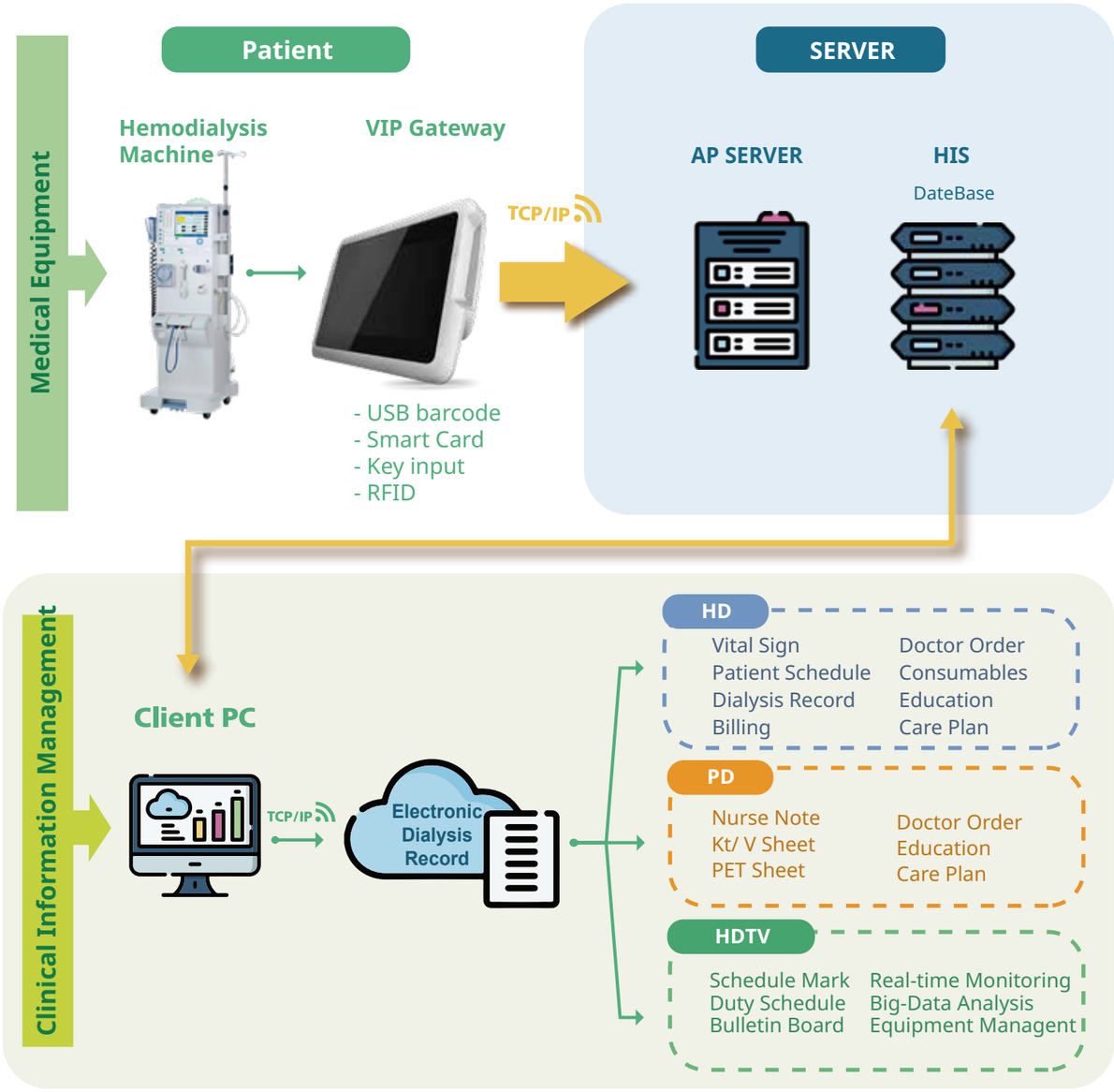
The advantages of HDIS are unparalleled. It not only excels in data collection but also reaches the highest level of healthcare information integration. The system seamlessly integrates crucial data such as patient information, physician orders, team communication, medication administration records, equipment data, medical records, and supplies. This comprehensive clinical information display is tightly integrated with other healthcare information systems like HIS, LIS, EMR, ensuring efficient information flow and deep application.

HDIS has brought significant innovation to dialysis treatment. It meticulously crafts feature for dialysis nursing notes, dialysis treatment plan formulation, and clinical vital signs monitoring and recording during dialysis. This allows the healthcare team to focus more on patient care, ensuring that every step meets the highest standards.

The system's digital dashboard not only provides real-time monitoring during dialysis but also generates graphical medical records, reducing manual transcription and enhancing data accuracy. Additionally, HDIS offers data queries and statistical analysis features, allowing clinical staff to gain deeper insights into various indicators of dialysis operations and further optimize management strategies.

In summary, HDIS is a groundbreaking medical technology solution that provides comprehensive support to healthcare teams through intelligent data collection, comprehensive information integration, and powerful capabilities. It enables high-quality patient care and dialysis management.

System Architecture



System Features

Electronic medical records.

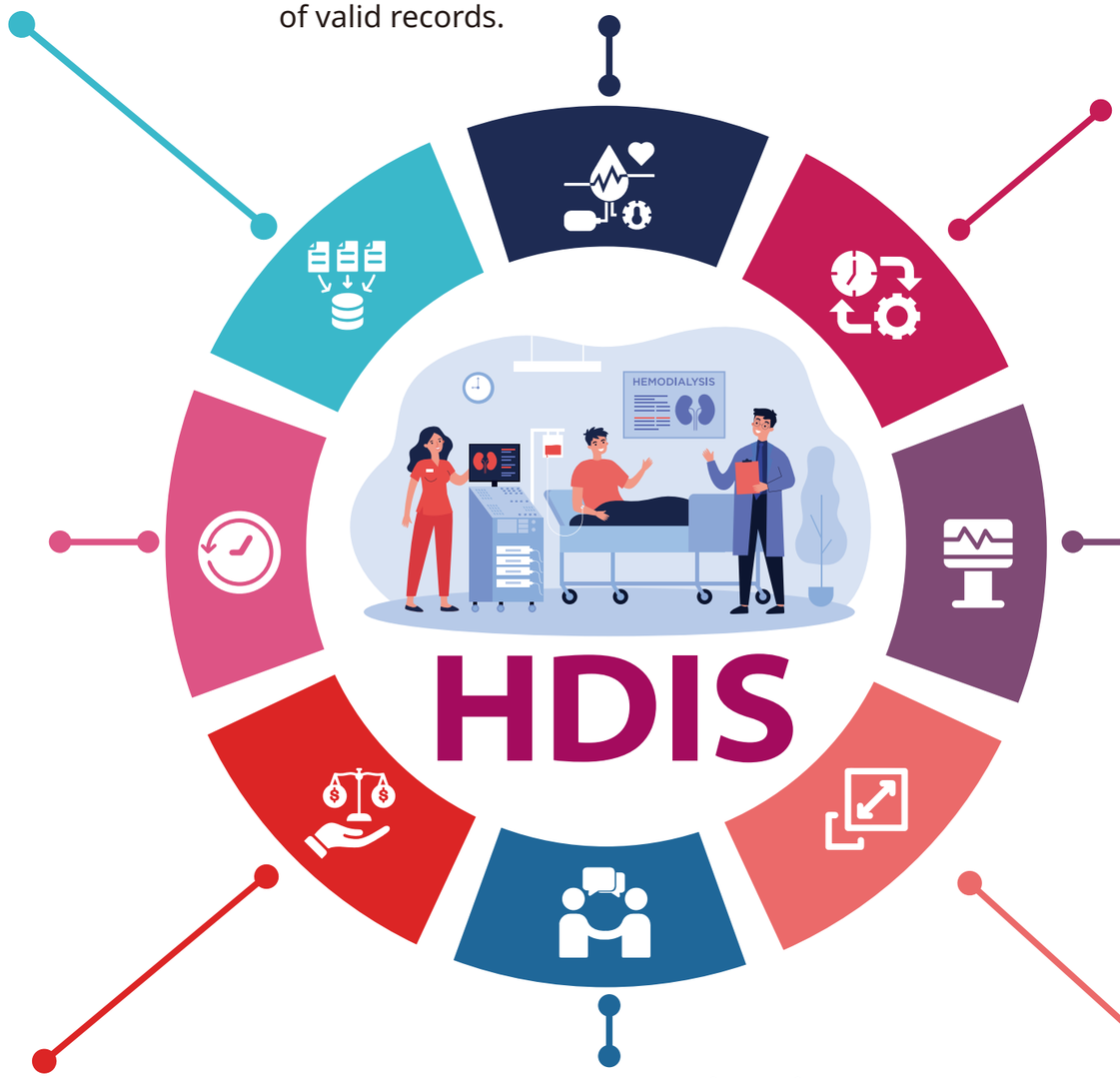
Automatically generating dialysis medical records with electronic signatures for the rapid production of valid records.

Data collection

The data digitization of dialysis machine and other equipment and no manual transcription required, and it can enhance data accuracy.

Information integration

Automatically recording pre-dialysis, during-dialysis, and post-dialysis information, combined with customized dialysis treatment plans. It also integrates external laboratory data and medication records to assess patient conditions, ensuring comprehensive pre-dialysis assessments.



Quick scheduling

Automatically scheduling long-term patients or manually adjusting dialysis schedule maximizes bed allocation and enhances department efficiency.

Intelligent dialysis monitoring

Dialysis process alerts and reminders, continuous quality monitoring, and reduction of human errors.

Cost control

Recording patient medications, dialysis materials, and manpower allocation, effectively reducing unnecessary expenditures.

Team communication

Real-time notification of changes in dialysis treatment plans and significant nursing care records significantly enhances patient safety.

High scalability

Modular design allows for rapid integration with other systems, flexible expansion of functionalities, and cost-effective upgrades.

System Functions

Automatic Vital-Sign capture Technology for Medical Equipment

HDIS is capable of automatically and accurately extracting vital sign data recorded by medical devices from various brands. This data includes pre-dialysis weight, post-dialysis weight, heart rate, blood pressure, and other vital signs of patients. It also covers physiological parameters such as blood flow rate, transmembrane pressure, UF volume, UF rate, venous pressure, dialysis temperature, and more.

Automated appointment scheduling to enhance patient safety.

HDIS has streamlined the patient treatment scheduling process by establishing features like rapid bed search and schedule of long-term patient. Nurses no longer need to flip through paper records just to find an available bed. This leads to precise control of bed utilization.

Dialysis Information Integrate and Management

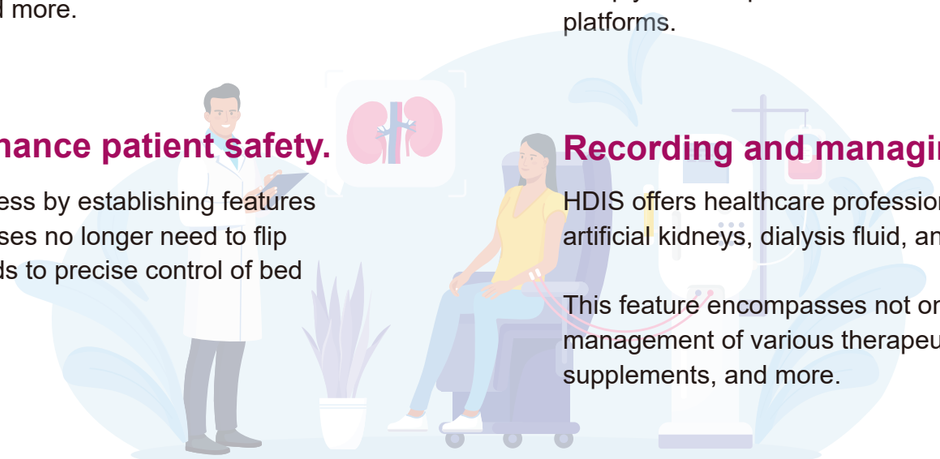
HDIS integrates various brands and models of medical equipment, enabling the automatic uploading of vital signs data. This data is then presented in comprehensive information charts on the system terminal.
Doctors and nurses can quickly access and assess patient information, including pre-dialysis physiological parameters, treatment plans, nursing handovers, medical history data, patient medication, and laboratory reports.

Automatically identifying instrument data and providing alerts and analysis.

Through HDIS's vital signs capture function, departments manager can establish a comprehensive physiological monitoring system rapidly. This system provides real-time tracking of critical indicators such as heart rate, blood pressure, blood flow rate, venous pressure, transmembrane pressure, dialysis temperature, and more. It also offers timely feedback and response mechanisms.

Rapidly complete electronic medical records and apply digital signatures.

HDIS also supports electronic medical records with its outstanding information integration capabilities, combined with system scalability. It can retrieve data from external systems, including HIS, LIS, NIS, PACS, and more, to rapidly generate electronic medical records that comply with hospital standard formats. Additionally, it supports digital signatures on EMR platforms.



Recording and managing dialysis treatment materials

HDIS offers healthcare professionals the ability to quickly record key information such as artificial kidneys, dialysis fluid, and needles.

This feature encompasses not only the management of dialysis materials but also the management of various therapeutic medications, such as Vitamin B, anticoagulants, iron supplements, and more.

Message communication between doctor and nurse

During the dialysis treatment process, if there are important nursing interventions, the system notifies the doctors. Conversely, if there are changes to the treatment plan, HDIS sends real-time notifications to the nurses, increasing team communication efficiency and reducing errors in verbal handovers.

High scalability and compatibility

HDIS is based on a modular design, emphasizing openness and scalability, which allows it to seamlessly integrate with other critical systems within a hospital, such as HIS, LIS, and EMR, for data exchange and information sharing, creating a comprehensive and interconnected healthcare information ecosystem.