NEOZENSOFT

PUTTING THE RIGHT SOLUTION. IN THE RIGHT PLACE, AT THE RIGHT TIME.

Company Introduction

2020.08

NEOZENSOFT
Neo Zenith Software Company

" We offer the newest and ultimate technologies to our client"

NEO ✕ ZENITH ✕ SOFTWARE

Neozensoft is one of the healthcare IT companies that accomplished successful projects in South Korea and many other countries. Neozensoft has been provided the state-of-the-art healthcare technologies to many clients and it is still moving forward to make a better world through healthcare IT Solution. Neozensoft's solutions are not like any other systems in this field. We care and strict in security and so we have obtained certification of ISO27001(Information Security Management System), ISO27799(Information Security Management in Health).

Smart Healthcare Solution
Smart Hospital Solution
Dashboard Solution
Interface
ICT Consulting
ETC.

Neozensoft provides diverse products to healthcare IT.

neoESA/ESM
Hospital Status Dashboard Solution

neoMobileEMR
Smart EMR Solution

BESTBoard
Dashboard Solution

neoRRS
RRS Patient Monitoring

PHR
Patient Portal

neoCDIS/PMIS
Medical Device Interface

Smart Infusion Pump Monitoring
Infusion Pump Monitoring

neoPOCS
Patient Safety Solution

PHR
Patient Portal

HL7

HL7

HIS Integration   neoIHE (HL7 Integration)

2019

- [GS-Certification] Patient Safety Solution (neoPOCS GS (Good Software) Grade 1
- [ISO27001] Information security management systems
- [ISO27799] Health informatics -- Information security management in health using ISO/IEC 27002
- InHa Univeristy Hospital CLMA Project

2018

- '2018 Korea Leading Company' Convergence Technology Award
- St. Mary's Hospital in Seoul (nU Mobile EMR project)
- St. Mary's Hospital in Seoul (nU CLMA project)
- Seongnam Citizens Medical Center / PHR / Interface
- Established interface of Glucose device with Roche Korea
- Provided Interface solution to Keimyung University Dongsan Medical Center
- Provided Interface solution to Gachon University Gil Hospital
- Enhanced POCS in Seoul National University Bundang Hospital
- Established BESTBoard in Ewha Womans University Medical center

2017

- '2017 Korea Leading Company' Convergence Technology Award
- Certification of 'INNOBIZ' (Company that has innovated technology)
- 'Youth-friendly Workplace' - Ministry of Employment and Labor
- [Smart App-Award] 1st prize on Public section
- [App-Award] 1st prize on healthcare section
- **USA (Aurora Behavioral Healthcare) HL7 Integration, Mobile EMR**
- Enhanced Seoul National University Bundang Hospital's web page PHR(Health4U)
- Yeungnam University Medical Center (POCS)
- Established POCS in Pusan National University Hospital
- Established ESA and ESM in Pusan National University Yangsan Hospital

2016

- 'Youth-friendly Workplace' - Ministry of Employment and Labor
- '2016 Mobile Technology Award' - Hankyung President's Award.
- Accredited as 'Good Company to Invent'
- '2016 Korea Leading Company' Convergence Technology Award
- Patient Safety Management System(neoPOCS) is registered on Program Copyright.
- Developed Smart Infusion Pump System.
- Chonbuk National University Hospital (Patient Safety Management System).

2015

- **Involved in Saudi Arabia HIS project (2nd)**
- Developed HL7 Interface Engine.
- Seoul National University Hospital (Mobile EMR, CDIS)
- Seoul Asan Medical Center (Mobile EMR, POCS, CDIS)
- Yangsan Pusan National University Hospital (E-Consent).

2014

- **Involved in Saudi Arabia HIS project (1st)**
- Gyeonggi Cerebellar Blood Vessel Center (RTLS system)
- Establishment of affiliated research institute.
- Smart App Award 2014- winner of healthcare field.

2013

- St. Mary's Hospital in Seoul (nU2.0 project)
- Seoul National University Bundang Hospital (BESTBoard, PHR, CDIS)
- Samsung Seoul Hospital (ESA / ESM)
- Central Dementia Center (Application & Homepage)
- Certification of Software provider.
- Launched neoCDIS, neoSMC, neoFramework

2012

- Involved Seoul National University Bundang Hospital (Mobile EMR, BESTBoard, PHR)
- Neozensoft Co., Ltd. Established.

Technologies

HIS Interface Solution - neoCDIS/PMIS - neoIHE (HL7 Integration)	· Developed International standard HL7 engine. · Exported to hospitals in Saudi Arabia and U.S.A. · Provided maintenance continuously.
Medical Mobile Solution - neoMobileEMR - neoPHR - neoPOCS	· Served Mobile Healthcare first time in South Korea. · Customized as users request · Patient safety management is engaged based on PDA (Android OS) first time in South Korea.
Dashboard Solution - BESTBoard© - neoESA/ESM	· BESTboard is specialized in Medical Staff · BESTBoard used in Seoul National University Bundang Hospital where certified HIMSS stage 7. · Able to customize for each department's
Server Management Solution	· Provided our own server side M/W

Certifications

|	
2019.06	neoRRS (Software Copyright Registered)
2018.08	neoMobileEMR (Software Copyright Registered)
2016.07	neoPOCS (Software Copyright Registered)
2016.02	neoESA/ESM (Software Copyright Registered)
2013.12	neoFramework (Software Copyright Registered)
2013.12	neoSMC (Software Copyright Registered)
2013.12	neoCDIS-ECG (Software Copyright Registered)
2013.11	neoPMIS (Software Copyright Registered)
2013.09	neoCDIS (Software Copyright Registered)
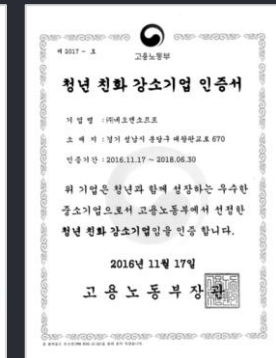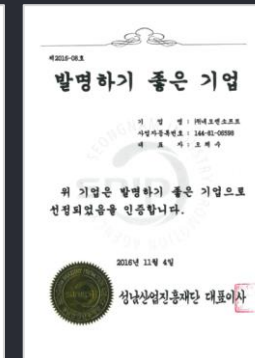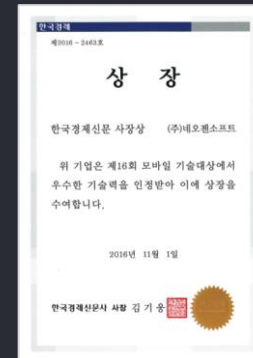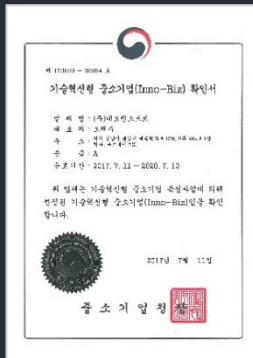
ISO27001 · ISO27799

Information Security Management System
ISO27001
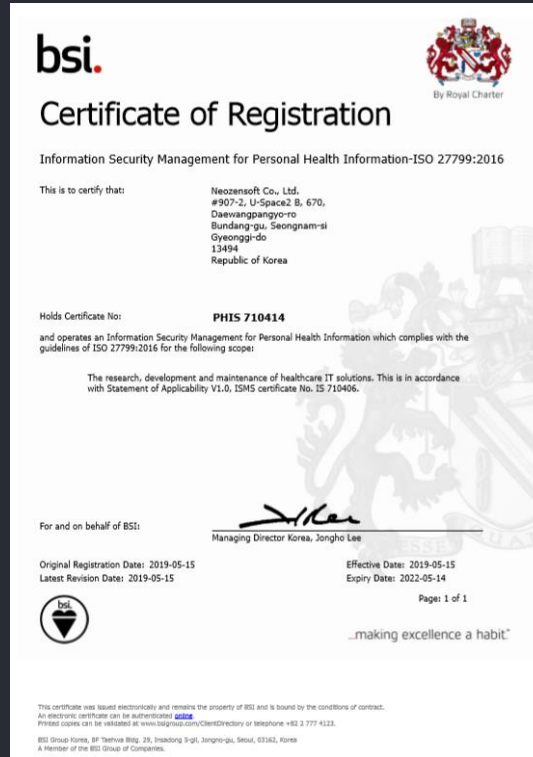
Information Security Management for
Personal Health Information
ISO27799

Good Software(GS) Certification

Good Software(GS) 1st grade
Certificate of Software Quality
for Patient Safety Management Solution(neoPOCS)

USA
hospital: Aurora Behavioral Healthcare
Solution: MobileEMR, HL7 Integration

Saudi Arabia
hospital: Ministry of National Guard-
Health Affair(Riyadh, Jeddah, Dammam, Madinah, Al-Ahsa)
Solution: MobileEMR, HL7 Integration, Dashboard

Dubai
hospital: Clemenceau Medical Center in Dubai, UAE
Solution: MobileEMR, HL7 Integration

CEO

PLANNING

DEVELOPMENT

MANAGEMENT

UX/UI Design

Marketing Strategy

Management Planning

iOS/Android

.net

Interface

Product Management

Finance

Personnel Management

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ETC.

neoMobileEMR

Working smart with the smartest thing.

neoMobileEMR contains and manages
information of patients' data from the EMR.
Medical staff can see patient's orders, test results, and medical
records. It is powerfully designed to focus on
better communication between medical staff.

Optimized patient management
Medical staff can manage patients anytime
and wherever with optimized patient manage
through mobile.

Improving work efficiency
It is possible to improve work process for medical
staff by providing various convenience functions
such as consult, schedule, and messenger etc.

Best security
Neozensoft applies basic security such as MDM,
electronic authentication, and VPN and
also follows security policies and signal
protocols for the messenger.

▶ Projects: Aurora Charter Oak Hospitals(U.S.A),
Kingdom of Saudi Arabia Mistry of National Guard Health
Affairs, Seoul National University Bundang Hospital etc..

EMR
ON MOBILE

Patient List   Order List   Test Result   Medical Record   Vital Sign   Consult

Messenger   Schedule   Nursing Note   Work Report   Media   Voice Recording

neoPOCS

The best patient safety management solution.

neoPOCS gives the best patient safety management that is accurate performance of medical staff by using smart device (PDA). The solution provides performance such as medication, blood collection, blood transfusion seamlessly.

Enhancing patient safety
By matching the patient information and order, this solution will prevent medical malpractice.

Seamless integration
PDA which is connected to Hospital Information System (HIS) will transfer medical staff's performance to HIS seamlessly.

User-Centered solution
Providing a stable operating environment by using PDA with best User-Experience from Android OS.

FOR PATIENT SAFETY

neoPOCS	Settings
Nancy Brubaker	
34207	
ER	
2017.01.22 14:24	

Medication
Blood Collection
Blood Transfusion
Blood Acceptance
Meal Management

Medication   Resetting

Johnny Appleseed
(12345678) M/50Y / 591112 / AB+
Oncology 043 - 10 - 01

Infection: VRE
Caution : -

Curam Tab. 150mg
Status 08:00 / 13:00 / 15:00   19:00

[D/C] Tambocor Tab. 50mg
Status 08:00

e Tab. 625mg
09:00   19:00

Vitamin-K1 Injection
Status 08:00 / 13:0

Bo

Medication

Blood Collection

Transfusion (Co-sign)

Blood Acceptance

Nutrition

Management of Hospital Property

Vital Sign

Preparation of Surgery

Intravenous Injection

Editing Order

Matching Birth giver and Baby

Pharm. Delivery Check

PHR (Health4U)

Personal Health Record

From the "Health4U" application, individuals able to access their medical records, steps, weight, blood pressure, blood sugar, sleep and etc.. All of data will be managed by PC and smartphones.

Your Health in your hands
Tracking your personal healthcare and medical record in your hands.
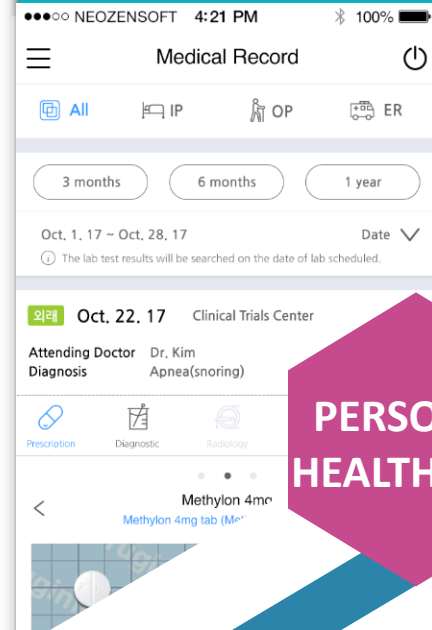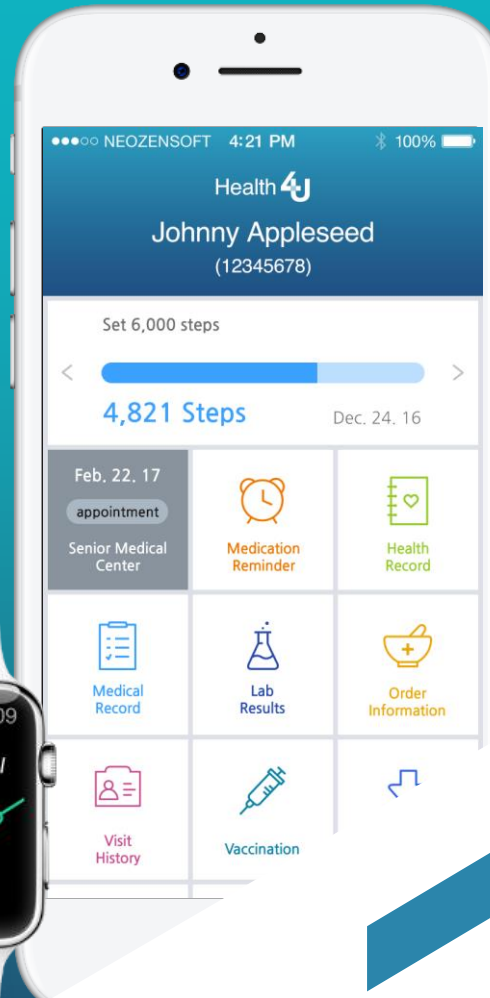It helps you to manage your health easily.

Helps better Communication between Medical staff and patient
Data from Patients will be shared to the medical doctor And Doctors can share or comments to the patients.

Connecting wearable devices
Able to collect Activity, Weight, BP, and Sleep information by integrating wearable devices.

PERSONAL HEALTHCARE

Medical Record   Test Results   Order Information   Medication Reminder   Appointment Schedule   Health Record

Health Information Guide   Vaccination   Education   Health data At a Glance *For Physician   Blue Button *Medical Record Download   Allergy

▶ Reference : Seoul National University Bundang Hospital, Seongnam Citizens Medical Center

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neoESA/ESM

View hospital status at a glance.

The solution providing waiting time,
ER progress status to patient and
guidance through a large screen.

Customized screen
Depends on hospital work process and environment,
medical staff can organize screens as their favor.

Remote control
ESM (Electronic Signal Management)
supporting administrator program,
each screen can be managed by central PC.

Support affordable mini PC
Support mini PC to reduce the cost of installation
and achieve maximum effectiveness
with minimal cost.

▶ Reference : SMC, CGNUH,
NPH, Hanyang University Hospital, Ewha Womans
University Medical center

WAITING GUIDE

Patient Waiting Status   Progress of Test   Doctors Profile   ER Status   Crowdedness Level   Delaying Patient Info

BESTBoard

Checking patients' every record at a glance.

BESTBoard is a huge screen that provides every detail of patients' information with bed status in Ward / ER / ICU.

Supports communication
From the huge screen, medical staffs can share patients' condition with more convenience.

Realtime patient information
Vital signs, Severity and other important values for patients will be displayed on graphs.

Better UI for each department
Considering every different part of departments, it shows better UI for each department.

FOR COOPERATIVE WORK

Map View   Patient Info.   Operation Schedule   Statistics   Medical Staff List   ER Crowdedness Level

▶ Reference : SNUBH, Saudi-Arabia (KASCH, KAMC-R, KAMC-J, KAMC-Eastern), Ewha Womans University Medical center
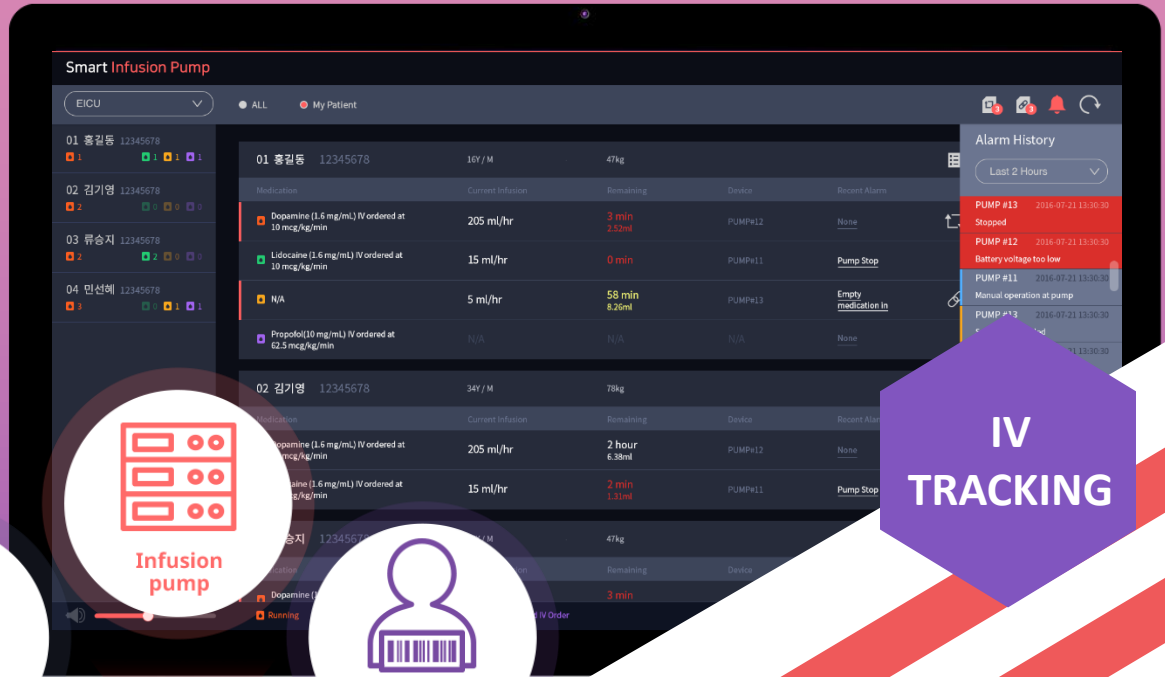
Smart Infusion Pump

Interface solution for Infusion Pump with EMR

This solution is providing Interface between Infusion pumps and EMR in the hospital . Realtime interface data will helps medical staff to work faster and safer

Check amount and other information in realtime
Smart Infusion Pump gives data to EMR in Realtime.

Safer in patients' care
Through the Smart Infusion pump,
5 Rights(Right Patient, Medication, Dose, Route, Time)

HL7

Compliance with HL7 standard
Smart Infusion Pump is following the HL7 standard which is national standard for world wide.

IV pack

Infusion pump

Patient (Barcode)

IV TRACKING

김간호
12345678
응급의료센터

Injection Info

Alert on injection change

Check disconnected device

Status of device connection

Event Alert

Patient Info.

neoRRS

The most predictable patients monitoring solution.

neoRRS helps the early response and prevention of
risk circumstances by prompt notifying
the Rapid Response Team when an abnormal of
patients' vital signs and Lab results occur.

FOR RAPID RESPONSE

Early detection of abnormal value by alarm
When abnormal values occur to the patient,
PC and SMS notification activates to
the medical staff respond promptly.

Identifying patient's status through NEWS
National Early Warning Score(NEWS) provides
a quick overview of the emergency level of
RRS patients.

Efficient patient's management
Graphs display of patients' vital signs and
specimen results, notes, and management.
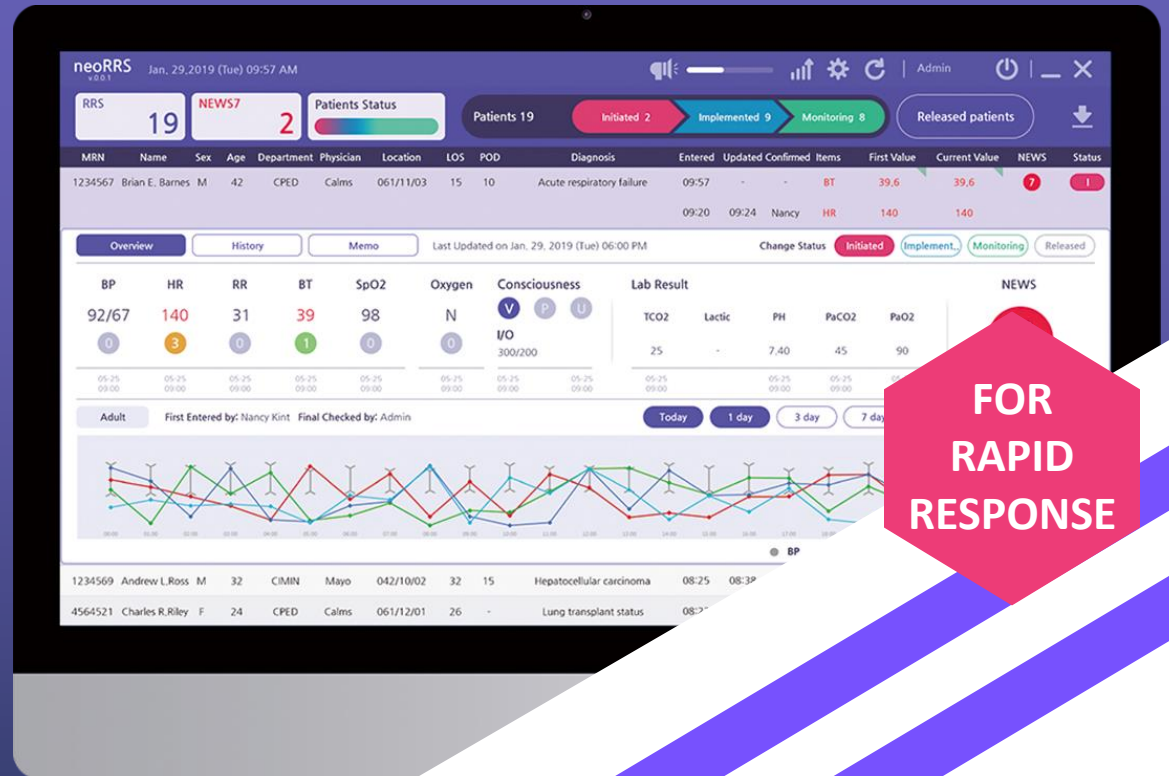
| Alert | NEWS 7 | Vital Sign graph | History of Abnormal Value | Patient List by Status | Statistics |

Smart Healthcare Solution
Smart Hospital Solution
Dashboard Solution
Interface
ICT Consulting
ETC.

neoCDIS/PMIS

See all test results in one.

This solution automatically interfaces all the test results data from the medical devices to Hospital Information System. From this system, medical staff find out the patient's test results as their favor.

Systematized data management
Data from the medical devices are matching patient's order and results by automatic and manual.

HL7 / ASTM

Provides HL7 standard protocols
Provides HL7 (International Standard) and varies standard protocols for medical devices.

Powerful data security
Preventing fraud from encrypted data and image watermarking.

▶ Reference : SNUBH, SNUH,,
Saudi-Arabia (KASCH, KAMC-R, KAMC-J, KAMC-Eastern), PNUH,
GNUCH, JNUH,
Seoul Asan Hospital

PACS

Function Test

LIS

*neo*CDIS
*neo*PMIS

NEOZENSOFT

EKG
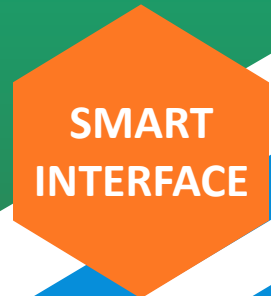
DICOM

SMART INTERFACE

*neo*CDIS
- Integrate with varies medical devices including ophthalmic devices/ EKG/ DICOM
- More than 300 medical devices

*neo*PMIS
- Patient Monitor/BIS Monitor
- Interface hemodialysis machine/ ventilator/ anesthesia

Smart Infusion
- Infusion pump interface
- Auto programming, Auto documentation
- CLMA Integration

neoIHE (HL7 Integration)

Completeness of bi-direction in medical data interface

neoIHE is completely providing all of medical data to devices and EMR . As there are many data are interacting between departments in the hospital, HL7 interface is must-have solution for many hospitals.

HL7

Provides HL7 interface
neoIHE is following HL7(Health Level 7), HL7 standard is being used for many medical manufacturers.

Provides diverse protocols
Provides many diverse protocols
Such as , HL7 Transport Specifications MLLP v2, SOAP, HTTP, and DICOM .
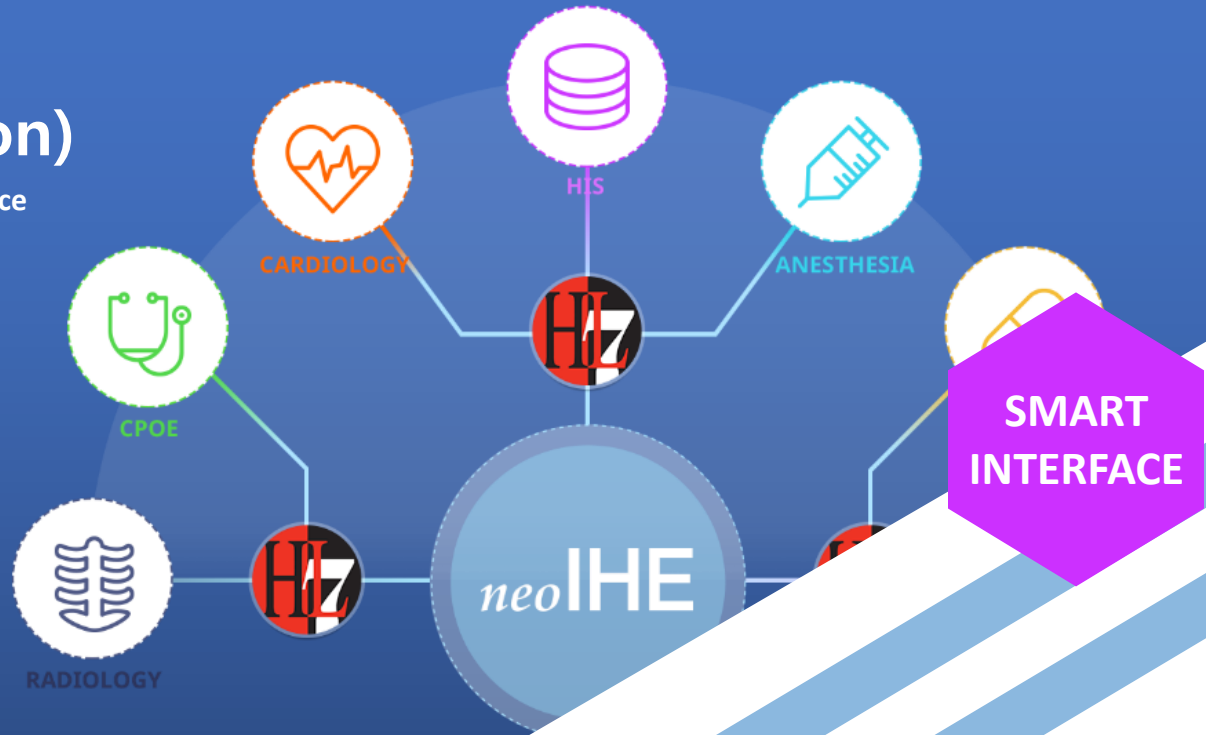
Expanding use of medical data use
As HL7 in structured in certain format. Hospitals can use these medical data to meaningful information.

CARDIOLOGY
HIS
ANESTHESIA
CPOE
neoIHE
RADIOLOGY

SMART INTERFACE

neoIHE

- Secure data via VPN
- Monitoring HL7 messages
- Integration with Cerner LIS, GE RIS
- Verification of HL7 and provides HL7 engine
- Compliance with IHE International
- HL7 Version 2.x
- Provides HL7 specification

▶ Reference : Saudi-Arabia (KASCH, KAMC-R, KAMC-J, U.S. (Aurora Behavioral Healthcare)

neoSMC (Server Framework

Server framework

neoSMC is a high-performance transaction server middleware framework for C/S and Web applications. It supports various databases and provide formats according to system environment of web service creation and connection through IIS.

Provides stable server platform
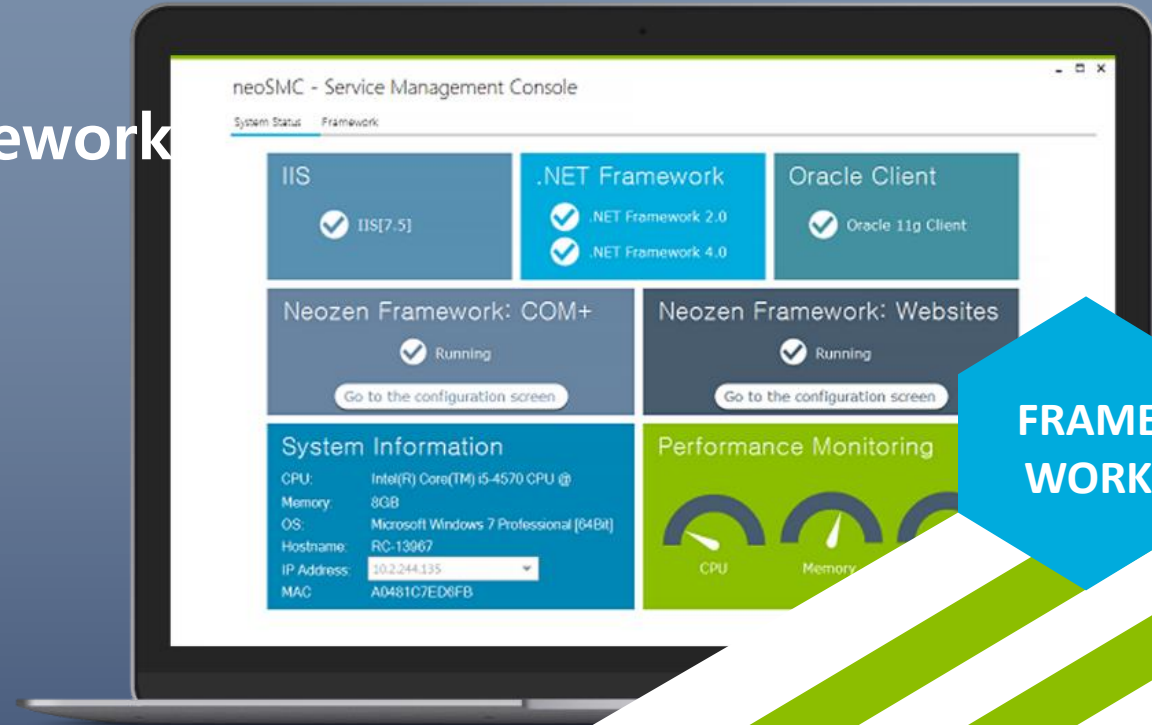Use stable serplatform such as Micorsoft .NET WCF(Windows Communication Foundation) , COM+.

Easy to maintain by integrated server
As servers are maintained individually, noeSMC can Provides as integrated server which leads to maintaining in one program.

Efficient work environment
From the Intuitive UI, Users can work efficiently in COM+, Status of IIS, searching on DB query

FRAME WORK

neoSMC - Service Management Console

System Status   Framework

IIS
✓ IIS[7.5]

.NET Framework
✓ .NET Framework 2.0
✓ .NET Framework 4.0

Oracle Client
✓ Oracle 11g Client

Neozen Framework: COM+
✓ Running
Go to the configuration screen

Neozen Framework: Websites
✓ Running
Go to the configuration screen

System Information
CPU: Intel(R) Core(TM) i5-4570 CPU @
Memory: 8GB
OS: Microsoft Windows 7 Professional [64Bit]
Hostname: RC-13967
IP Address: 10.2.244.135
MAC   A0481C7ED6FB

Performance Monitoring
CPU   Memory

neoSMC

- Stable dataflow in MTS environment and transaction
- Apply WCF, COM+
- Dataset, JSON, RESTful, XML, HL7 output format
- Engine status and messages processing status with stats
- Add and removeable Webservice XML Query/Procedure
- Download in Excel file

Smart Healthcare Solution
Smart Hospital Solution
Dashboard Solution
Interface
ICT Consulting
ETC.

Healthcare Mobile Solution
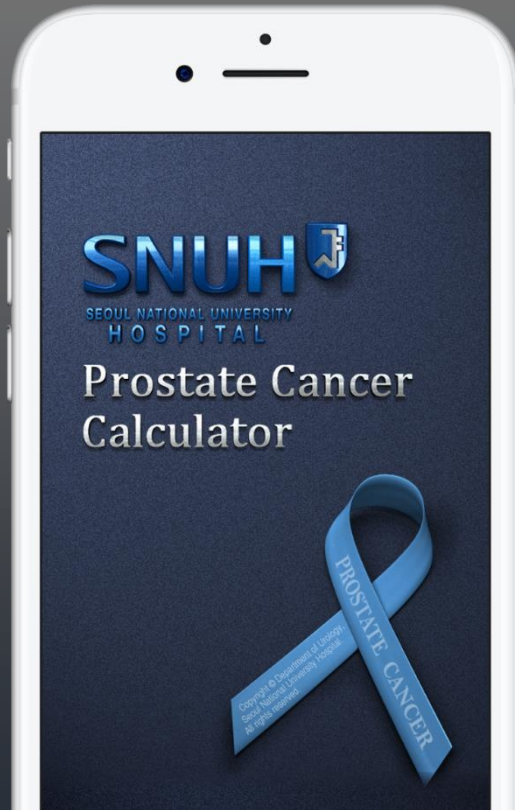
Prostate Cancer
Calculator
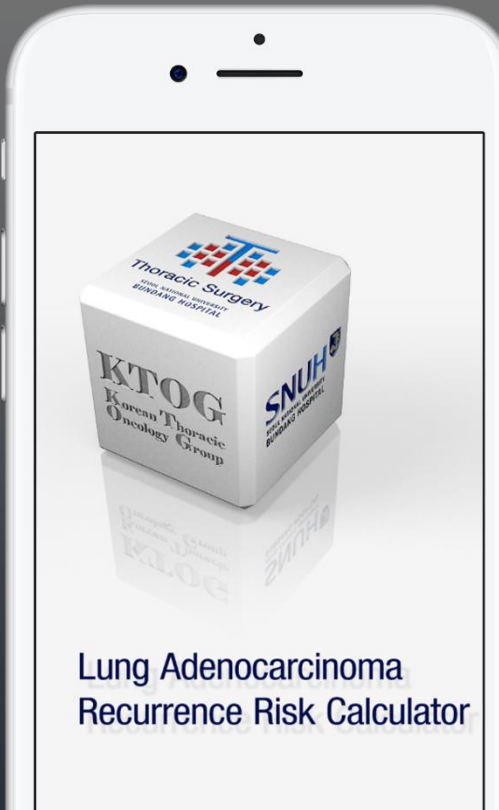
Lung Adenocarcinoma
Recurrence Risk
Calculator

BPH Probability
Calculator

Healthcare Display Monitoring Solution

※ copyright @2012 by SNUBH

Patient tracking system

Seoul National University Bundang Hospital

Patient status (Kiosk)

Samsung Seoul Hospital (ER) Kiosk

We offer the best and reliable healthcare technologies based on experiences with many clients.

South Korea

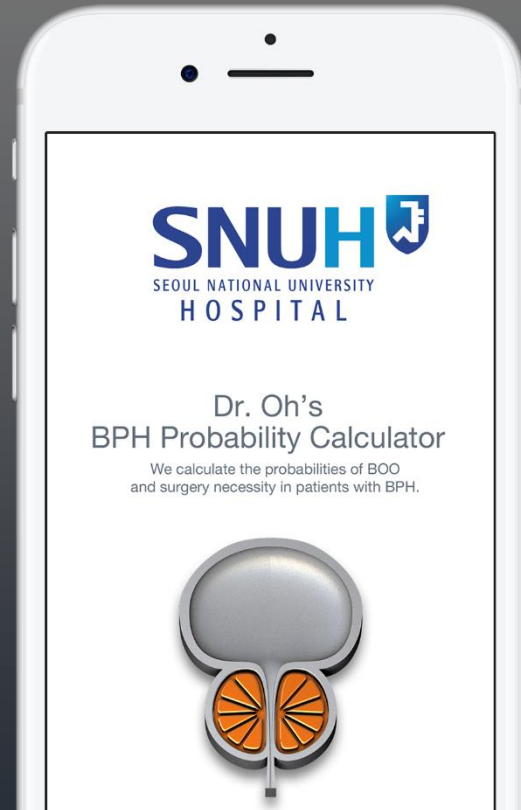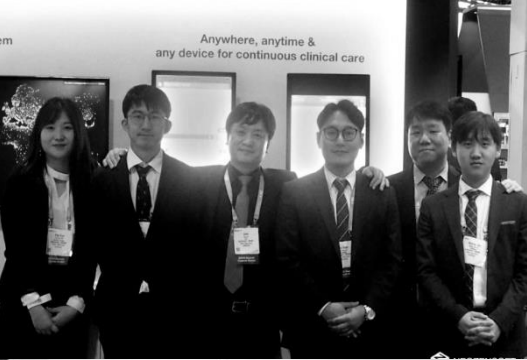|						
SNUH 분당서울대학교병원	SNUH 서울대학교병원	SAMSUNG 삼성서울병원	서울아산병원	고려대학교안암병원	PNU 부산대학교병원	가톨릭대학교 서울성모병원
전북대학교병원 CHONBUK NATIONAL UNIVERSITY HOSPITAL	GNUH 창원경상대학교병원	성남시의료원	가톨릭대학교 여의도성모병원	충북대학교병원	보훈공단 광주보훈병원	가톨릭대학교 여의도성모병원
충남대학교병원 CHUNGNAM NATIONAL UNIVERSITY HOSPITAL	가톨릭대학교 가톨릭중앙의료원 운영 국립교통재활병원	이대목동병원 EWHA WOMANS UNIVERSITY MOKDONG HOSPITAL	제주대학교병원 JEJU NATIONAL UNIVERSITY HOSPITAL	인제대학교백병원	보훈공단 대전보훈병원	가톨릭대학교 성빈센트병원
충남대학교병원 세종의원	한양대학교병원 HANYANG UNIVERSITY SEOUL HOSPITAL	계명대학교 동산의료원 Keimyung University Dongsan Medical Center	PNU 양산부산대학교병원	H+ PLUS 양지병원	보훈공단 대구보훈병원	가톨릭대학교 서울성모병원
YUMC 영남대학교의료원	경찰병원 NATIONAL POLICE HOSPITAL	중앙 치매센터	의료법인 삼광의료재단 SML Samkwang Medical Laboratories	Arollo HOSPITAL 양지요양병원	보훈공단 부산보훈병원	가톨릭대학교 은평성모병원
YUMC 영남대학교영천병원	충북대학교병원	인하대병원	KNUH 경북대학교병원	의료법인 삼광의료재단 SML Samkwang Medical Laboratories	보훈공단 인천보훈병원	가톨릭대학교 부천성모병원
가천대길병원 Gachon University Gil Hospital	인제대학교서울백병원	인제대학교상계백병원	인제대학교일산백병원	인제대학교부산백병원	가톨릭대학교 인천성모병원	가톨릭대학교 의정부성모병원
용인세브란스병원	한마음창원병원	삼육서울병원				

International

Aurora Charter Oak Behavioral Health Care

Kingdom of Saudi Arabia Ministry of National Guard Health Affairs

Kingdom of Saudi Arabia Royal commission for Jubail and Yanbu

NEOZENSOFT

THANKS.

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