HIS/RIS
Modality Worklist
Provider

Source of Image
Mammography systems
*Novation*DR
Digitizers

Storage for Studies
PACS
CD Writer

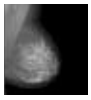
Physician Reporting
syngo® MammoReport
CAD Software

A **Hospital Information System (HIS)** is a comprehensive, integrated information system designed to manage the administrative, financial, and clinical aspects of a hospital. This encompasses paper-based information processing as well as data processing machines.

Digital Imaging and Communications in Medicine (DICOM) is a standard for handling, storing, printing, and transmitting information in medical imaging. It includes a file format definition and a network communications protocol. The communication protocol is an application protocol that uses TCP/IP to communicate between systems. DICOM files can be exchanged between two entities that are capable of receiving image and patient data in DICOM format.

Patient information is collected during registration

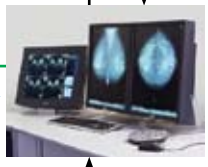
Digitizer



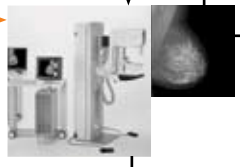
Digital Printer

*Novation*DR

PACS
Images stored in DICOM format



Mammo Report



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CAD

A **Radiology Information System (RIS)** is used by radiology departments to store, manipulate, and distribute patient radiological data and imagery. The system generally consists of patient tracking and scheduling, result reporting, and image tracking capabilities.

In medical imaging, **Picture Archiving and Communication Systems (PACS)** are computers or networks dedicated to the storage, retrieval, distribution, and presentation of images. The medical images are stored in an independent format. The most common format for image storage is **DICOM**.

HL7: Hospitals and other healthcare provider organizations typically have several different computer systems used for everything from billing records to patient tracking. All of these systems should communicate with each other (or "interface") when they receive new information but not all do so. HL7 specifies a number of flexible standards, guidelines, and methodologies by which various healthcare systems can do this.

Computer-Aided Detection (CAD) tools are designed to provide fast visual commands to help the radiologist to interpret more attentively specific areas of the image.

Registration | **Acquisition** | **Archive** | **Report**

DICOM Query & Retrieve

Send Structured Report

DICOM Modality Worklist

DICOM Send/ Store

Title:

Date: **Time:** 4:28 PM **PG:** 1 of 1 Pgs

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