Microsoft

Microsoft® Amalga™
RIS/PACS

↘ Powerful pictures and intuitive radiology workflow integrated into a single, easy-to-use system

Microsoft®
Amalga™
RIS/PACS

An integrated imaging and workflow system that gives you vision.

Microsoft® Amalga™ RIS/PACS is an integrated Radiology Information System (RIS) and Picture Archiving and Communication System (PACS) that is available as a stand-alone imaging system or a seamlessly integrated component of the Microsoft Amalga Hospital Information System (HIS). Amalga RIS/PACS consolidates a hospital's entire collection of medical imaging and integrates it with sophisticated workflow for radiology. Whether integrated with the patient electronic medical record (EMR) and other hospital systems or installed as a stand-alone system, RIS/PACS gives radiologists and clinicians the tools to make fast, informed diagnoses and more confident clinical decisions.

Featuring a single user interface, the award-winning Amalga RIS/PACS enables teleradiology among multiple sites to provide quick access to digital images, intuitive image manipulation and built-in diagnostic tools—all designed for the way radiologists prefer to work. The system's wide-area PACS is built on interconnected, site-specific servers rather than a central database result in minimum downtime and easy, seamless shared access across multiple sites and teams.

Increased accuracy

Integrated systems reduce transcription errors, eliminate duplication of data and prevent overlap in reporting, optimising the information clinicians have to work with.

Enhanced efficiency

Fast image retrieval time, full access to a complete database of current and historical images, advanced ability to mark up and display preferred image collections and fast and intuitive navigation streamline clinician processes to make their work go faster.

Substantially reduced costs

Filmless digital imaging eliminates substantial supply costs, frees up staff and reduces the need for space to store and manage film records.
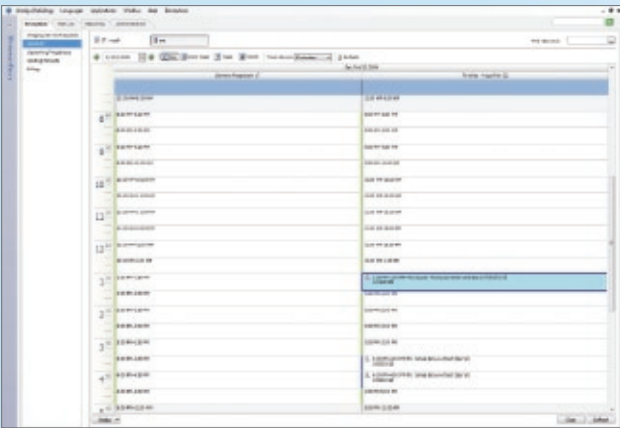
Standardisation support

The format-agnostic system supports all image file types and includes a DICOM work list to enable consistent DICOM data entry for image files.

Powerful tools at your fingertips

Integrated 3-D image rendering, image manipulation and an HL7 engine to support interfaces with third-party analysis tools make it possible for radiologists to work easily in one space, without juggling multiple applications and hardware.

Increase the value of radiology in patient care.

The Microsoft Amalga RIS/PACS system intuitively responds to the day-to-day needs of your hospital's radiology and other clinical departments, providing the sophisticated tools and support for complex processes that can help medical imaging play a more integral role in diagnosis and treatment.

SCHEDULING AND WORKFLOW

EMR INTEGRATION

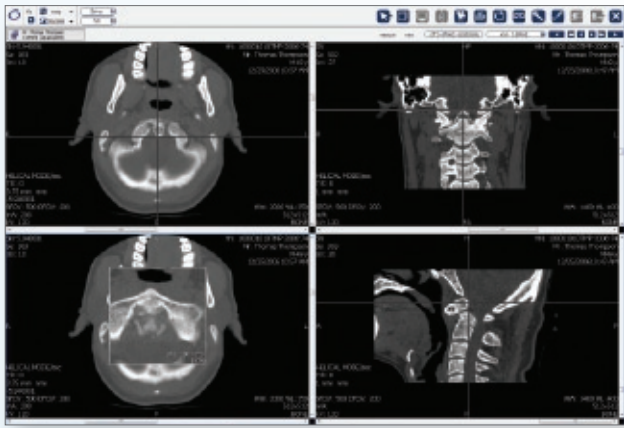**DIAGNOSTIC WORKSTATIONS**

REPORTS

Scheduling and Workflow

The Radiology Information System helps busy radiology departments manage their appointments and resource scheduling, study acquisition workflow, documents and image report creation from a single interface. Intuitive, drag-and-drop design, automatic appointment recurrence, alerts for resource constraints, graphical views and pre-exam alerts help radiology teams operate more smoothly.
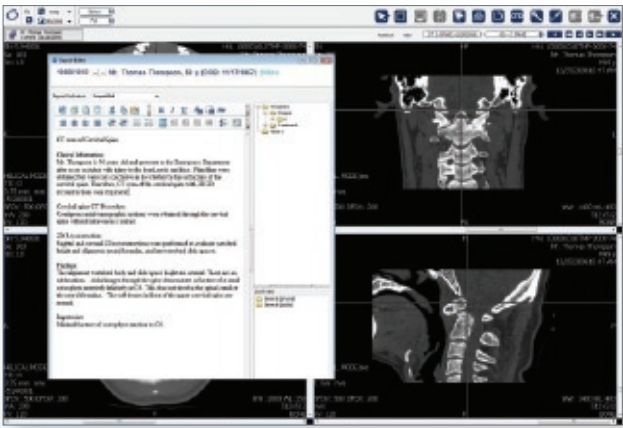
EMR Integration

Faster turnaround time helps expedite patient visits, diagnosis and treatment and immediate access to the patient EMR (when deployed with Microsoft Amalga HIS) gives doctors the complete information they need to act quickly.
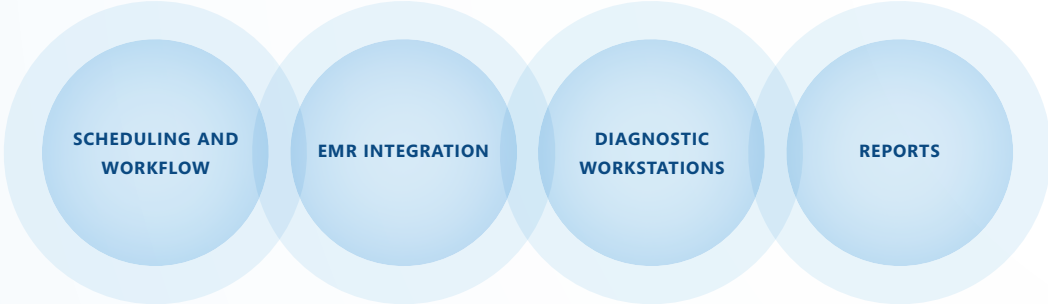
Diagnostic Workstations

Workstations simulate the hanging of film images for better study and comparison, but with all the advantages of a digital format. Radiologists can quickly access historical and recent images, compile them and navigate the collection easily. They can also save a set of Dynamic Display Protocols to see a consistent display of images from site to site. Radiologists can switch back and forth quickly and easily from two-dimensional views to 3-D perspectives to further investigate an area for more accurate diagnosis.

Reports

The intuitive RIS/PACS report editor accepts written or dictated reporting, integrating with voice-recognition technology or preparing compressed digital audio files for transcribing. Templates make it possible for radiologists to select and generate standard reports almost instantly, reducing report turnaround time. Transcribed reports appear automatically in the radiologists' work list, so they can quickly review, approve and release the report to the ordering doctor.

Advanced functionality provides flexibility.

Workload sharing

For organisations that have multiple sites and limited radiology resources, the wide-area PACS network allows fast, easy image sharing across sites and radiology teams. With multilevel security access to information, radiologists can share or protect reports according to their preferences. Because the system is highly scalable, it can be easily adapted as radiology departments are added or expanded.

Intelligence for clinicians

Operating theatre planning allows surgeons to mark up collections of images so they can prepare for an operation and then call up the images they need immediately during surgery. Imaging markup and manipulation helps doctors prepare for rounds or create presentations.

International capabilities

Displays can use any Unicode-supported language, providing flexibility for multiregion hospital systems and a diverse clinical and administrative staff.

Voice recognition and digital dictation and transcription

The system supports all the leading voice-recognition engines and includes radiology-specific dictionaries to improve accuracy of transcription. The system also compresses digital dictation recordings and sends them to off-site medical transcriptionists.

Teaching resources

RIS/PACS includes a comprehensive teaching system that allows radiologists to flag interesting cases and design case studies to use for student instruction. The system enables categorisation of cases for simple retrieval, as well as the creation of exam questions and results analysis for self-study. Teaching files are created and handled according to standards established by the Radiological Society of North America's Medical Imaging Resource Centre, permitting standardised query support, case submission and server support.

Remote management

Managers and administrators can access a full audit trail of all image retrievals and monitor all study movements immediately, while your hospital's IT department can oversee file sizes, load times and workflow for server and resource optimisation. Additionally, the system is easy to manage, configure and extend, allowing for a fully scalable solution.

Microsoft Amalga RIS/PACS

A combined Radiology Information System and Picture Archiving and Communications System, with embedded imaging tools, intuitive workflow and access to a hospital's entire library of medical images, puts the power of pictures into clinicians' hands.

Learn more about Microsoft Amalga RIS/PACS
at www.microsoft.com/amalga.