PACS-Driven Reporting & Speech

Reporting capabilities for PACS only installations.

eRAD®
RadNet Technology Solutions

eRAD's dictation, transcription, speech recognition and report distribution capabilities are integrated directly into the eRAD PACS Viewer, eliminating the need for a dedicated RIS and accommodating those who prefer a PACS-driven workflow.

Often medical report creation is restricted to the domain of a RIS or dedicated third-party system. eRAD's dictation, transcription, speech recognition and report distribution capabilities are integrated directly into the eRAD PACS to accommodate those who do not have a dedicated RIS or who prefer a PACS-driven workflow. This benefits customers who seek a single worklist, viewer and reporting system to use across multiple disparate facilities. If the facility has no RIS, or if reads are from a single worklist for multiple facilities with disparate RIS, reporting cannot be RIS-dependent.

eRAD's Viewer has integrated web-based report creation capabilities, for the advantages of a true PACS-driven workflow and the ability to read and report from anywhere with Internet connectivity. This enables true enterprise-wide reading and reporting across facilities without the need for VPNs, dedicated networks or third-party add-on applications.

eRAD's integrated HL7 engine and supported API (Application Programming Interface) makes transferring the reports into third-party HIS/RIS/EMR systems a simple and automated task, based on pre-defined triggers in the PACS (i.e., Preliminary, Final, Addendum, etc.). Reports can be sent electronically via HL7 along with messages to change/update the status on the host system, or a hyperlink to the report can be returned so the report can be accessed online in its original format—complete with key images and annotations inserted into the report. Often this eliminates the need for a separate portal for viewing reports and images; typically it also provides a much richer experience for the referring physicians, as report formatting isn't well supported during transmission of results via HL7.

Speech Recognition

In imaging and radiology practices nationwide, productivity, patient satisfaction and reimbursement are all closely tied to timely, accurate reports. Speech recognition technology drastically improves report generation workflow with faster turnaround and lower costs.

eRAD goes beyond conventional voice-to-text rendering to deliver true medical Speech Understanding. Powered by the M*Modal engine, an industry-leading speech technology, eRAD's Speech Recognition enables users to dictate in a conversational tone, while scrolling or manipulating the image, confident that the meaning and syntax of the dictation, not just word strings, will be captured. Your profile is stored in the cloud, and so can be invoked at any workstation—no more thumb drives to manage. You get structured, clinically encoded, searchable and shareable reports, processed from any source—PCs, traditional phones, smartphones, dictation stations. A self-learning, radiology-specific lexicon improves with use, and you get a more streamlined workflow.

"We needed a solution that would allow us to focus on patient care instead of wrestling with technology. After deploying eRAD, we have a more well-defined and efficient workflow for our radiologists. We no longer have to learn and troubleshoot multiple PACS interfaces. Our promise to our clients is to provide accurate and timely imaging reports. eRAD's unique architecture facilitates that for us."

Vernon Duncan, MD
President
Radiology Group of Paducah

Under the Hood

Users can report using full interactive mode or—for those not ready to make the leap to self-editing—batch mode, where recognition is done in the background and sent to an editor for review. Native report templates are provided, as well as macros for custom reports. eRAD's Speech Recognition supports multiple input devices (such as Xkeys integration), allowing speechmike buttons and external keyboards to be mapped to user-defined commands.