

PenRad CAD Connectivity Module

PenRad's Mammography Information System offers connectivity options to the Cadx, icad and R2 Computer Aided Detection (CAD) systems to increase efficiency and accuracy, while providing better economics.

The connectivity module allows the radiologist to have the results of the CAD images viewed on a shared workstation (viewer). An associated link created via the separator card, study or MRN number that allows common barcode label scanning to select patient and display CAD results.

Features:

Sequential film hanging no longer needed - saves time, work, errors and confusion.

Multi-alternator supported - allows review of CAD results on existing workstation and standard alternators.

Common viewer workstation - no need for separate workstations, saves space and money.

Automated correlation of results to imaging study - saves time, work and increases accuracy.

Study ready notification - provides notification when CAD results are available.

Paperless - no need to correlate paper results to study images.

Improves HIPAA compliance - no distribution of forms with patient data.

Reimbursement phrase - indication in the narrative report that CAD technology was applied for reimbursement.

Patient notification - indication in the patient exam correspondence reflecting CAD technology was applied.

Technologist Operation:

When the study information is captured by the imaging technologist, the study separator card (supplied by CAD vendor) bar-code is scanned or the number is typed to associate the CAD result images with PenRad study and patient (MRN) Medical Record Number.

The input of the CAD study number (film number) can be completed before, during or after CAD scanning.

Access to enter the film number is available via the PenRad Breast Imaging Screen.

Once the film number is entered, the association between the patient (MRN) Medical Record Number and CAD results is created that allows the display of CAD results in the exam screens.

The screenshot displays the 'Breast Imaging Main' interface. At the top, it shows patient information: Robin E. Jacko, DOB: 01/01/1927, AGE: 75, F, PID: 000223247414, SSN: 223247414, CHT: ACCT. The date and time are 8/27/2002 07:42:57. The interface is divided into several sections: 'Overall Breast Dimensions' with sliders for Depth (cm), Height (cm), Width (cm), and Projection Angle of MLD; 'Film Usage' with sliders for 18x24 (cm) and 24x30 (cm); 'Film/Exam Date & Time (24hr notation)' with a 'Now' button and a time field; 'Enter reject type & count' with a list of reject types and counts; and 'Machine' with a list of machines (1-10). At the bottom, there are buttons for 'Patient Notes', 'View Settings', 'Send Patient to Flasher', 'Print Labels', 'Print Admin Labels', 'Specified Technologist: Dee Ann Anderson, PenRad Clinic', 'Change', 'Clear', 'OK', and 'Help'.

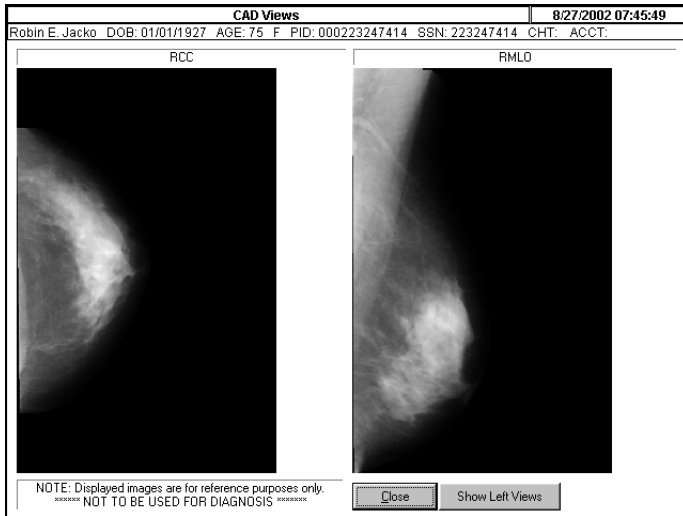
The icad system is MRN aware. The scanning or inputting of the film number is not necessary.

Radiologist Operation:

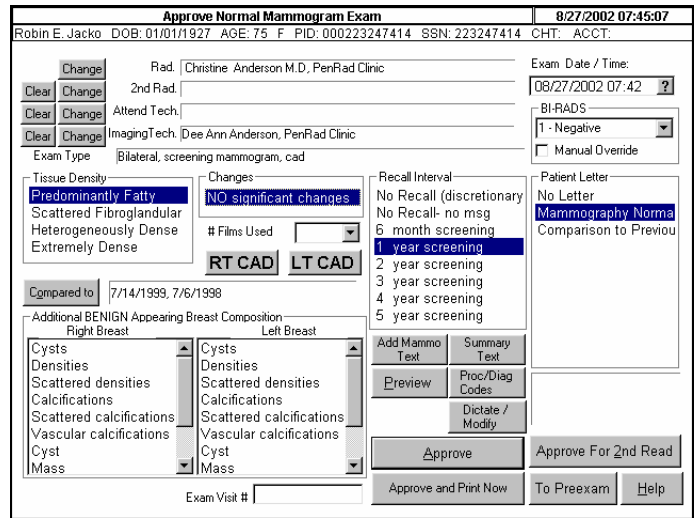
During the interpretation process when CAD results are available, CAD buttons are displayed, offering a short cut to the CAD images.

Based of the CAD vendors result viewing software, the result display screens vary. Radiologist should follow CAD result viewing protocol specified by the CAD vendor.

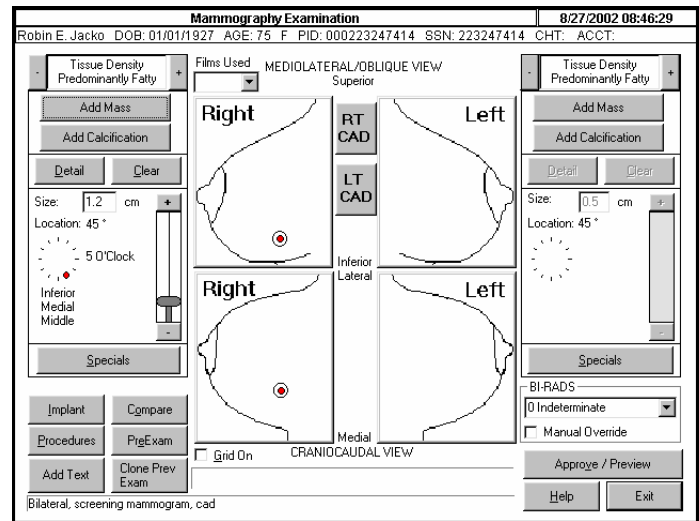
Displayed below is the PenRad CAD results viewer.



The option exists for automatic customized phrases to appear in the narrative report and in the patient correspondence indicating CAD was performed on the study for marketing and billing.



PenRad Negative Mammo screen above, Detailed below.



Other value added PenRad modules include QA/QC module for processors and imaging machines, integrated appointment and schedule module, HIPAA compliance and custom bi-directional HL7 interfaces. PenRad continues to provide "more" than just a mammography reporting and tracking system. The best gets even better.

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