PRODUCT OVERVIEW

Features:

1. **Coding Subsystems**: The system facilitates the use of standardized coding systems such as:
   a. AMA CPT Codes
   b. AMA ICD9 and ICD10
   c. MS-DRG Version 27
   d. Bi-Rad Categories
   e. ACR Biopsy Types
   f. ACR Pathology Results
   g. ACR Pathology Classifications

2. **Medical Record Number (MRN)**: Each patient is required to have a unique MRN. This number can be manually assigned or populated via one of the interfacing features. It can be comprised of an alphanumeric value from the MRN number generator that is capable of creating unique MRN based on a logic algorithm.

3. **Patient Demographic Subsystem**: The patient’s demographics are entered into a user friendly UI that utilizes the ability to search other subcomponents such as providers to speed up the data entry process. Mandatory fields can be configured at the enterprise level.

4. **EMD B2B Data Exchange Subsystem**:
   a. EMD subsystems allow for the receipt of radiology reports,
   b. The ability to launch or incorporate components of the tracking system, and exchange data with third party systems via the B2B XML data files. Such as launching the Outcome screen, documents, and reports from the host system.

5. **Breast Imaging Logic Reporting**: The system allows for a wide variety mammographic logic reports to be generated. Each report has the ability to filter findings to a more refined report.
   a. By Office
   b. By BI-RAD
   c. Patient Count
   d. Pathology Results
   e. By BI Type
   f. Incomplete Exams (0)
   g. Biopsy Results (4 / 5)
   h. Breast Imaging Audit
   i. Breast Imaging Audit By Age Group
   j. Custom Reports
6. **Study List Grid:** The home screen grid will require the addition of several fields that can be added, removed, sorted, and filtered. Some of these may already be available.

   a. Assessment Start Date
   b. Last Assessment Exam Date
   c. Last Breast Exam Date
   d. Assessment Due Date
   e. Assessment Status
   f. Assessment Outcome
   g. BI Type
   h. BI Assessment #
   i. Exam BI-RAD
   j. Orig. Assessment
   k. Current Assessment
   l. Final Assessment
   m. Breast Density
   n. Breast Implants
   o. BX Type
   p. BX Date
   q. BX Results
   r. Histology
   s. Patient Lay Letter
   t. Patient Lay Letter Due
   u. Physician Lay Letter
   v. Physician Lay Letter Due
   w. Patient Reminder Letter
   x. Patient Reminder Letter Due
   y. Physician Reminder Letter
   z. Physician Reminder Letter Due
   aa. Exam Date
   bb. Exam Description
   cc. Modality Type
   dd. Link to results
   ee. Link to PACS exam
   ff. Performing Technologist
   gg. Reading Radiologist
   hh. Radiology Report Date
   ii. Link to BI Patient Hx
   jj. Link to BI Tech Notes
   kk. BI Recommendation
7. **Patient Chart**: The Patient Chart will have a new tab /section for Breast Imaging. This section will contain detailed information on the patient’s breast imaging history. This section can be suppressed if the patient does not have any mammography history. Note this should not be suppressed by gender alone as it is possible for males to have breast imaging.
   a. Assessment Start Date
   b. Last Assessment Exam Date
   c. Last Breast Exam Date
   d. Assessment Due Date
   e. Assessment Status
   f. Assessment Outcome
   g. BI Type
   h. BI Assessment #
   i. Exam BI-RAD
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   jj. Link to BI Tech Notes
   kk. BI Recommendation

8. **Breast Imaging Assessment**: The BI Assessment screen will be provided via an I-Frame that will be embedded into the technologist’s screens and the radiologist’s interpretation screen. This will be comprised of four main pages: Patient History, Tech Notes, Rad Assessment, and Pathology Results. For the technologist the BI Assessment can and will be accessible via the Patient Registration or the Study Info Detail screens.
9. The Patient Registration screen will include a Breast Imaging Tab which will list all BI Assessments. The grid will be customizable with the new BI field elements. Upon double clicking a record, the BI Assessment will open as a pop-out or another IE tab.

10. The Study Info screen will include a Breast Imaging Tab which will contain the BI assessment in an I-Frame.

11. The Patient History BI Assessment screen will collect and display the patient’s history. This will be developed in a word document and all data will be stored in the database. All data from previous assessment will be carried over. All indications that are of a positive value will be displayed in the summary at the top, thus eliminating the need to view the entire document.

   This document can be completed via a Patient Portal, Check-in KIOSK, or by the technologists.

12. The Tech Notes BI Assessment screen will provide the technologist to confirm referring physician, reading physician, performing technologist and any additional consulting physicians. Additionally, the tech will link the current exam with an existing BI Assessment exams, indicate comparison exams, mark any finding on the breast map, and ensure that the exam performed is what was ordered (Screening vs Diagnostic).

13. The RAD Assessment BI Assessment screen will provide the reading radiologist with an overview of what exam is currently being read in context of the BI Assessment. The BI-RAD will be declared along with breast density, density modifiers, recommendations, and follow-ups. Additional data may be collected and added to this screen for collection including US and MRI specific data. All data will be stored in the database.

14. The Pathology Results BI Assessment screen will collect the results for all BI-RAD 4 and 5 recommended biopsies. An overview of the current BI Assessment will be provided, along with the biopsy details. Upon selection of the pathology results the system will indicate if the finding is Benign, Malignant, or High Risk. The Assessment Outcome of TP True Positive or FP False Positive will be declared.

   There will a region for the technologist to document using free text for items such as copy\paste of the path report, details about attempt to obtain path report, or any personate information.

15. The radiologist’s reading screen will function in much the same way as indicated above. The only major difference is the I-Frame location.

16. Report
17. Configuration
18. Database Elements
19. Future Development Features
EMD SYSTEMS

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