

## PenSpeak Module

PenRad's Mammography Information System offers the PenSpeak dictation module that allows recording of complicated studies or findings and tracking points for transcription.

The radiologist voice is recorded through the hand-held Phillips Speech Mike with convenient pause, record, fast forward and rewind buttons with integrated playback speaker to create a wave file. The file is available for transcription on the network.

When the transcription is proofed, the recorded wave file can be heard.

PenRad offers the SpeechMike and a playback footswitch for the transcriptionist.

## Features:

Local or offsite transcriptionist - allows transcription, proofing on network.

Digital recording - no need for tape transportation or misplacement.

250,000 word spell check dictionary - facilitates medical words and additions.

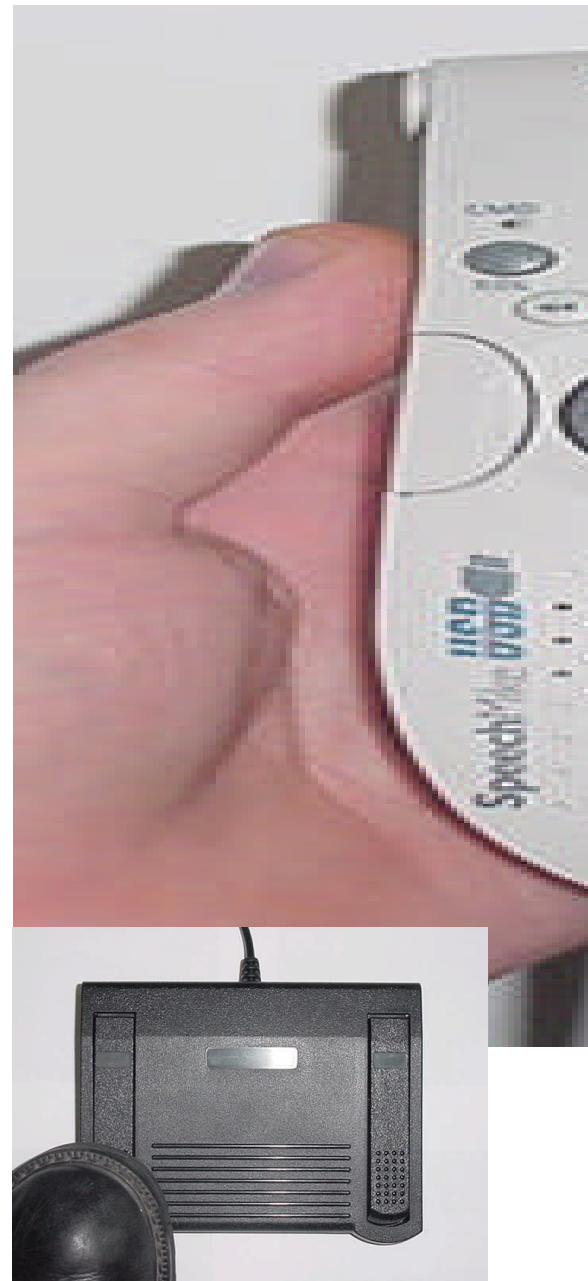
Integrated approach - facilitates radiologists that prefer dictation over standardized narrative report generation.

Reduced turnaround - no wait for receipt of tapes or transferring of files.

Improves HIPAA compliance - no distribution of report necessary with patient data for approval.

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

Study notification - provides notification of study status: dictated, transcribed, transcription approved, etc...



| Modify or Specify Report to be Dictated   |   | 8/27/2002 11:35:07 |
|---|---|--------------------|
| Cathy O. Cameron DOB: 12/12/1958 AGE: 43 F PID: 223236390 SSN: 223236390 CHT: ACCT: |   |                    |
| Phrases   | BILATERAL SCREENING MAMMOGRAM: 8/27/2002  |                    |
| Findings  | <p>Comparison is made to exam dated: 8/13/2001 PenRad Clinic.<br/>The tissue of both breasts is heterogeneously dense. This may lower the sensitivity of mammography.<br/>No significant masses, calcifications, or other findings are seen in either breast.</p> |                    |
| Phrases   | NEGATIVE MAMMOGRAM 00:00.0  |                    |
| Impressions and/or Recommendations  | <p>There is no mammographic evidence of malignancy.<br/>A 1 year screening mammogram is recommended.</p>  |                    |
| Initials:   | <input type="text"/> Dictated, approve after transcribed  |                    |
| Approve   |   | Approve, print now |
| Revert to Penrad report   |   | Spell Check        |
| Exit  |   | Preview            |
| Cancel  |   | Help               |

## Radiologist Operation:

During the exam, if additional or complete dictation is necessary, radiologist taps the record button on SpeechMike and voice is automatically captured for transcription.

Radiologist can playback or edit.

SpellCheck button is provided to proof spelling.

## Radiologist Operation Continued:

When report has been transcribed, notification of exam status is updated to transcribed status on the radiologist work list.

**Report Preview - Mammography Report** 8/27/2002 13:20:29  
Cathy O. Cameron DOB: 12/12/1958 AGE: 43 F PID: 223236390 SSN: 223236390 CHT: ACCT:

Plymouth, MN 55441  
Phone: (612)520-2980 Fax: (763)475-2815

BILATERAL SCREENING MAMMOGRAM: 8/27/2002  
CLINICAL: Annual Screening

Comparison is made to exam dated: 8/13/2001 PenRad Clinic.  
The tissue of both breasts is heterogeneously dense. This may lower the sensitivity of mammography.  
No significant masses, calcifications, or other findings are seen in either breast.

IMPRESSION: NEGATIVE MAMMOGRAM  
There is no mammographic evidence of malignancy.  
A 1 year screening mammogram is recommended.

The patient was notified of the results.

Christine Anderson M.D.  
ca/8/27/2002 13:18:38

Imaging Technologist: Dee Ann Anderson RT(R)(M), PenRad Clinic  
letter sent: Mammography Normal  
BI-RADS: 1 Negative 76092 v76.10

IF AGREE -  
☐ [Commit & Print] Exam

Approve Proc/Diag Codes View PreExam Close Re-dictate

**Scheduled Patients** 8/27/2002 13:19:44

| Pos | Status      | Patient Name          | PID       | DOB        | Date  | Procedure            |
|-----|-------------|-----------------------|-----------|------------|-------|----------------------|
| 4   |             | Austen, Judy B        | 710081933 | 10/02/1938 | 08/27 | Bilateral, screening |
| 5   | Complete    | Badolato, Jaima Q     | 223240629 | 06/06/1947 | 08/26 | Bilateral, screening |
| 6   | Printed     | Bagne, Ardith Q       | 223234880 | 09/09/1963 | 08/26 | Bilateral, screening |
| 7   | Printed     | Bakken, Audrey P      | 743853    | 10/12/1920 | 08/26 | Bilateral, screening |
| 8   |             | Bergman, Lynne V      | 7101118   | 10/05/1957 | 08/27 | Bilateral, screening |
| 9   | Printed     | Boehnlein, Laureen W  | 751792    | 12/06/1946 | 08/26 | Bilateral, screening |
| 10  | Printed     | Bogusz, Roni R        | 56334     | 06/02/1958 | 08/26 | Bilateral, screening |
| 11  | Printed     | Bolduc, Laverne P     | 7100513   | 10/06/1958 | 08/27 | Bilateral, screening |
| 12  |             | Bozzell, Peonie T     | 3805      | 11/16/1926 | 08/27 | Bilateral, screening |
| 13  | Printed     | Bucolo, Cheryl Q      | 745450    | 12/11/1928 | 08/27 | Bilateral, screening |
| 14  | Prel/Cmtd   | Busby, Christine B    | 745500    | 09/11/1928 | 08/21 | Bilateral, screening |
| 15  | Complete    | Cacy, Nila E          | 0235      | 01/01/1931 | 08/26 | Bilateral, screening |
| 16  | Transcribed | Cameron, Cathy O      | 223236390 | 12/12/1958 | 08/27 | Bilateral, screening |
| 17  | Transcribed | Childers, Connie Q    | 745723    | 01/11/1929 | 08/15 | Bilateral, screening |
| 18  | Printed     | Crandall, Catherine Y | 745246    | 12/11/1927 | 08/26 | Bilateral, screening |
| 19  | Printed     | Davis, Connie J       | 745737    | 04/11/1929 | 08/26 | Bilateral, screening |
| 20  | Path/Rqd    | Decker, Winifred L    | 102380    | 09/01/1918 | 08/01 | Bilateral, screening |
| 21  | Printed     | Deppisch, Goldy A     | 748775    | 05/08/1938 | 08/26 | Bilateral, screening |

Print List Edit Film Position ☒ Show All Owners  
Sort By: Name PID Date Status Rad Position Tech  
Manual Refresh Appointments Next Films  
PreExam Set Status Delete Edit Patient Imaging Close Help

When exam is selected for transcription review/approval, radiologist views transcription and approves exam for distribution - printing, fax, etc. If editing is necessary,

radiologist taps edit button to change. Voice playback and redictate during review process is also available. Exams that do not have tracking points entered, will be signified by the status code - tracking required. Tracking points may be entered by radiologist, transcriptionist or mammography coordinator based on facility's preference.

## Transcriptionist Operation:

From the transcriptionist work list, when an exam is selected, the direct voice file is available for playback via the footswitch or keyboard keystrokes to control voice file (play, rewind, fast forward). Report can be spell checked, suspended and or completed for approval.

**Modify or Specify Report to be Dictated** 8/27/2002 13:40:22  
Cathy O. Cameron DOB: 12/12/1958 AGE: 43 F PID: 223236390 SSN: 223236390 CHT: ACCT:

Phrases BILATERAL SCREENING MAMMOGRAM: 8/27/2002

Findings  
Comparison is made to exam dated: 8/13/2001 PenRad Clinic.  
The tissue of both breasts is heterogeneously dense. This may lower the sensitivity of mammography.  
No significant masses, calcifications, or other findings are seen in either breast.

Phrases NEGATIVE MAMMOGRAM

Impressions and/or Recommendations  
There is no mammographic evidence of malignancy.  
A 1 year screening mammogram is recommended.

Initials:  Save But Exit Without Completion  
Complete/Await Approval

Revert to PenRad report Spell Check Preview Exit Cancel Help

**Exams Requiring Transcription** 8/27/2002 13:18:59

| R | Patient Name     | PID       | DOB        | Date       | Exam Num | Radiologist         |
|---|------------------|-----------|------------|------------|----------|---------------------|
| 1 | Cameron, Cathy O | 223236390 | 12/12/1958 | 08/27/2002 |          | Anderson, Christine |

Page Up  
Sort By: Name PID Exam Date Radiologist  
Page Down  
Transcribe Transcribed Externally Edit Patient Close Help Print List

PenRad continues to provide "more" than just mammography reporting and tracking system. The best gets even better.

Phillips and SpeechMike are registered names and trademarks of their respective owners. PCs require soundcard, USB and or headset capabilities.

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FOR MORE INFORMATION CONTACT:

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*...the mammography information specialists... setting the standards ...*

PenRad Mammography System PenSpeak Module