OCR Tools and How to Hide Stuff

Don Stewart – DonS@SDALC.org

MIX-2012

http://tinyurl.com/SCR-OCR

My Slides (not on the wristbands)

- http://tinyurl.com/PP-AHK

- http://tinyurl.com/SCR-OCR

- http://tinyurl.com/QT-Temp

- http://tinyurl.com/DTS-ATR

The Problem – Scanned Documents

- Getting text from a scanned document into a note.

- Some practices do OCR on all scanned documents, but this takes a lot of time, and isn't very efficient (thought it does make it possible to search for words in the document)

- Most practices simply plink documents without scanning

Solutions: Screen Capture

- You can use a screen capture utility like SnagIt to capture some of your scanned text, but to reliably put it into a note, you need to save your screen capture into a file, and then use the Insert Image from File function in Practice Partner to put your captured image in the note. You cannot edit this, and it can be difficult to capture only the text you want to capture.

Solutions: OCR of the Image

- There are utilities that allow OCR of sections of the screen you are viewing. My favorite utility for this is ABBYY Screenshot Reader http://www.abbyy.com/screenshot_reader/.

-   This slick utility costs $29.99, lets you outline text in a scanned note you are viewing, does OCR on it, and saves it to the Windows clipboard.

- Then, you go to your note and paste it in (Control-V)

ABBYY Screenshot Reader

05/09/2011 1404

STUDY TEXT
CHEST RADIOGRAPHY
XR CHEST 2 VIEWS

DATE: May 9, 2011 2:04:00 PM.

HISTORY: Followup pulmonary nodule.

COMPARISONS: 9/20/2010.

FINDINGS:
Volume: Normal.

Lungs/Pleura: An ill-defined nodular density in overlying the medial
right upper lobe is again evident and unchanged. It is unclear if this
represents a discrete pulmonary nodule or a pulmonary scar. No other
new densities identified. No consolidation or edema.

Mediastinum: No adenopathy or cardiac enlargement.

Bones: Unremarkable.

Other: None.

STUDY TEXT
CHEST RADIOGRAPHY
XR CHEST 2 VIEWS

DATE: May 9, 2011 2:04:00 PM.

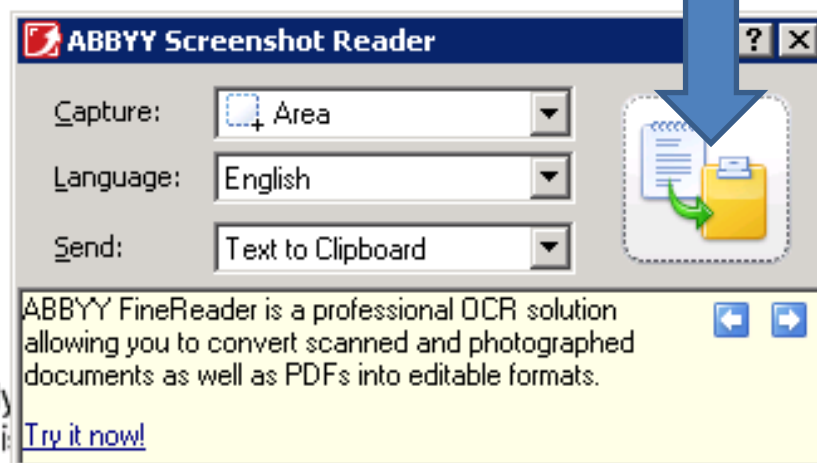HISTORY: Followup pulmonary nodule.

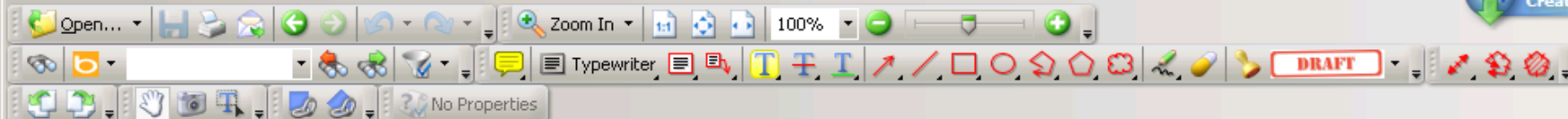COMPARISONS: 9/20/2010.

FINDINGS:
Volume: Normal.

Lungs/Pleura: An ill-defined nodular density in overly
right upper lobe is again evident and unchanged. It i
represents a discrete pulmonary nodule or a pulmonary scar. No other
new densities identified. No consolidation or edema.

Mediastinum: No adenopathy or cardiac enlargement.

Bones: Unremarkable.

Other: None.

ABBYY Screenshot Reader

Capture: Area

Language: English

Send: Text to Clipboard

ABBYY FineReader is a professional OCR solution allowing you to convert scanned and photographed documents as well as PDFs into editable formats.

Try it now!

1 of 2

0 in

Partner   240580049 - PDF-X...   ABBYY Screensho...   Search Desktop   8:35

Thomas, MD

			Performing Dept:	Account #:
DOB:	**Age:**	**Sex:**	Q DIAGNOSTIC	3556088
1/2/1931	80 yrs	Male		

XR CHEST 2 VIEWS   Acc#: *3161725*   Dx: Chest pain
Exam Date/Time:
05/09/2011 1404

STUDY TEXT
CHEST RADIOGRAPHY
XR CHEST 2 VIEWS

DATE: May 9, 2011 2:04:00 PM.

HISTORY: Followup pulmonary nodule.
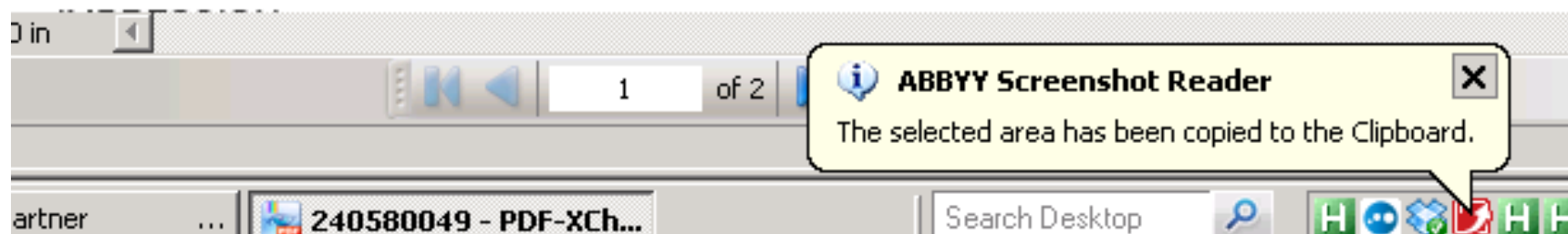
COMPARISONS: 9/20/2010.

FINDINGS:
Volume: Normal.

Lungs/Pleura: An ill-defined nodular density in overlying the medial
right upper lobe is again evident and unchanged. It is unclear if this
represents a discrete pulmonary nodule or a pulmonary scar. No other
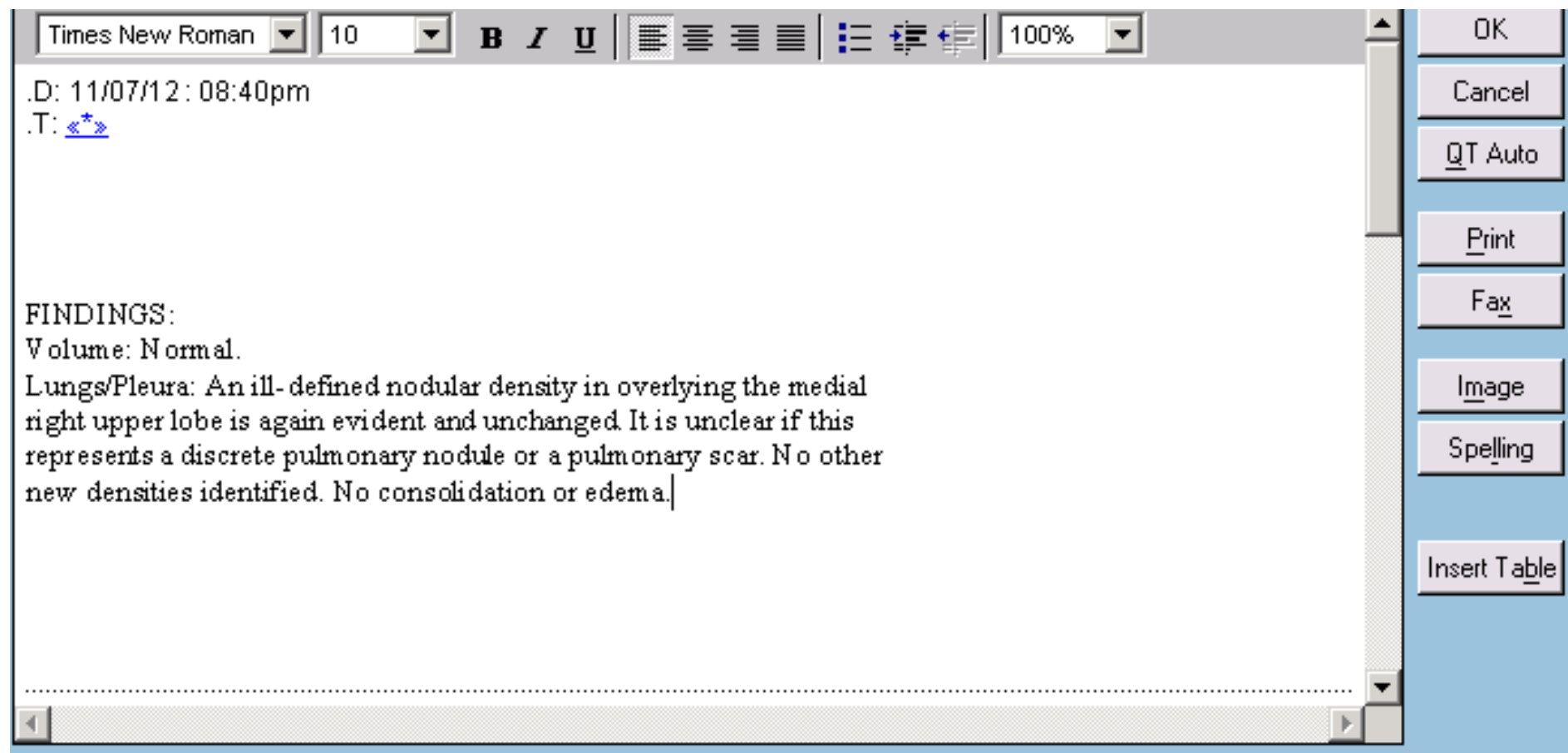new densities identified. No consolidation or edema.

Mediastinum: No adenopathy or cardiac enlargement.

Bones: Unremarkable.

Other: None.

Message that OCR Has Been Done

FINDINGS:
Volume: Normal.

Lungs/Pleura: An ill-defined nodular density in overlying the medial
right upper lobe is again evident and unchanged. It is unclear if this
represents a discrete pulmonary nodule or a pulmonary scar. No other
new densities identified. No consolidation or edema.

Mediastinum: No adenopathy or cardiac enlargement.

Bones: Unremarkable.

Other: None.

After OCR, Pasted into Note

| Times New Roman | 10 | **B** *I* <u>U</u> | 100% | | OK |

.D: 11/07/12 : 08:40pm
.T: «*»

FINDINGS:
Volume: Normal.
Lungs/Pleura: An ill-defined nodular density in overlying the medial right upper lobe is again evident and unchanged. It is unclear if this represents a discrete pulmonary nodule or a pulmonary scar. No other new densities identified. No consolidation or edema.

Buttons: OK, Cancel, QT Auto, Print, Fax, Image, Spelling, Insert Table

The Problem – Lab Tables, CE Tables, Flowsheets

- Practice Partner has no easy way to paste a part of a lab table, CE table, or flowsheet into a note.

- An excellent utility for this is Screen OCR, http://www.screenocr.com/screen-capture.htm, which costs only $9.95.

- Rather than doing OCR on a graphics file, Screen OCR determines the values of any displayed font by Practice Partner on your screen, and converts these values into text (or RTF) , which can be pasted into your note.

Screen OCR

- The following slides show how to use Screen OCR to copy data from lab tables, flow charts, CE Tables, or any other screens where Practice Partner displays data.

Laboratory Data Table: <TEST> Mouse, Mickey

Template: LIPID PROFILE   « »   * indicates a comment exists.

	08/03/12	05/31/12	12/02/10	09/20/08	09/20/08	09/18/08
Cholesterol, Total	345	451		123		
HDL-C	12	13		54		
LDL-C	200	187		65		
CHOL/HDL RATIO	28.75	34.69				
Non-HDL-C	333	438				
Triglycerides	234	389		123		
VLDL CHOLESTEROL						
VLDL(Calc)						
GLUCOSE, FASTING						
GLUCOSE, RANDOM						180
2HourPPGlucose			366		160	
ALT						
AST						
HEMOGLOBIN A1C	7.9	8.2		5.9		7.8
MICROALB/CREAT				< 30		
MICROALBUMIN, UR						
Creat., Clinitek						

Close | New | Edit | Delete | Newer | Older | Graph | Print | Pat Comment | ☑ Detail

Close | Refresh | Exit Care   ⦿ All   ○ Search

Summary | Chart | Prog Notes | Rx / Meds | Recent Lab | Lab Tables | Vitals | Hlth Maint | Prob List | Flow Chart

TEST | 72y | Male | Operator: DONS | PR   : DTS | WebView

Start | Practice Partner ...   Search Desktop   9:06 PM

Choices on the Screen OCR Menu
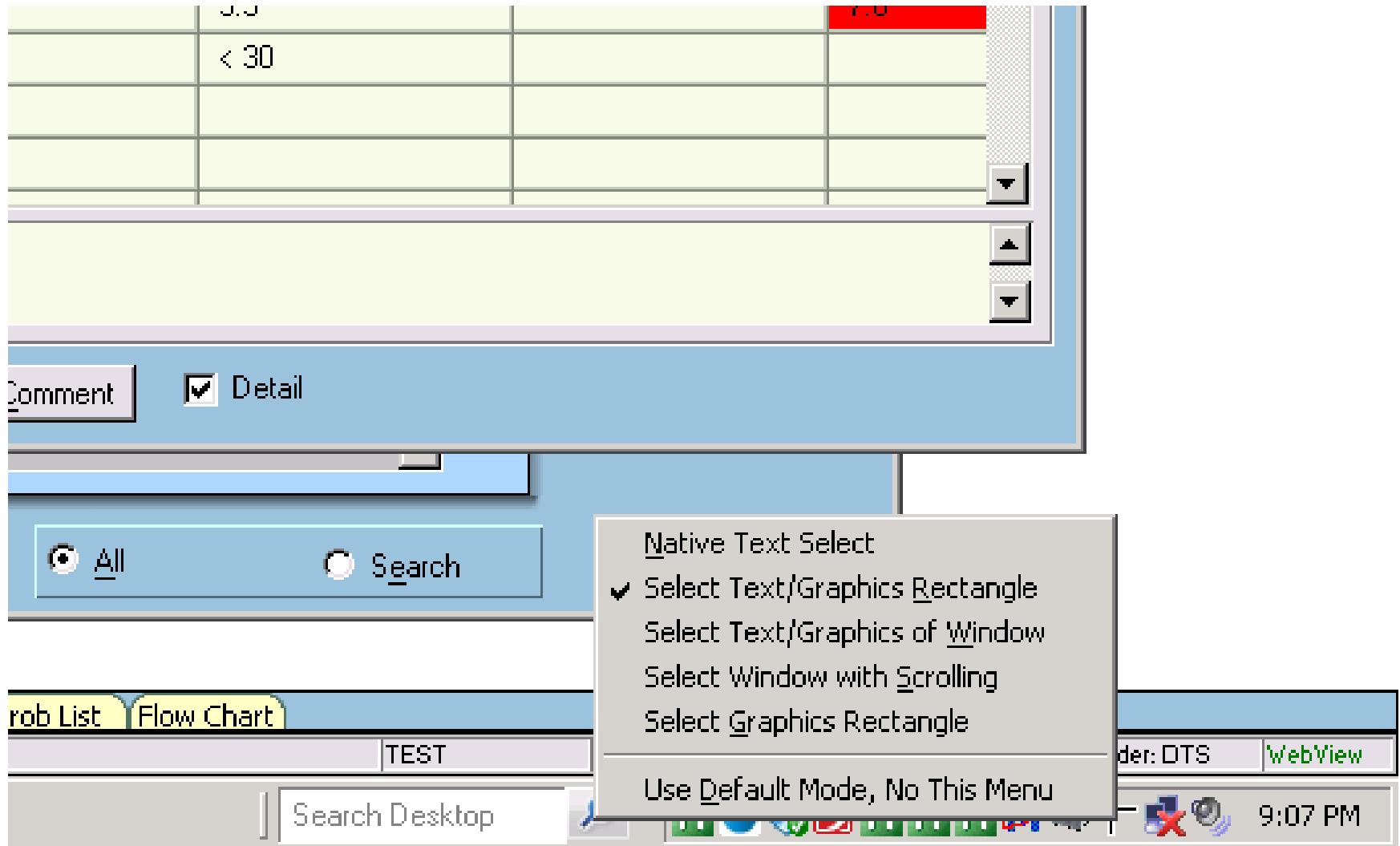
Selected from Cholesterol to Trigs and 08/03/12 to 05/31/12

I Usually Pick "Default"

Pasted into Note

After A Little Touch-Up

Screen OCR Tools Summary

- ABBYY Screenshot Reader best for capturing parts of scanned documents, converting to text, and pasting into notes.

- Screen OCR works best for Lab Tables and other data presented by Practice Partner in table form.

Hiding Stuff

- Practice Partner is a note-centric EMR, meaning that data is pulled into and pushed out of notes.
- Sometimes, the dot codes that push things out make the note messy.
- For example, say you wanted to save the following:

   .L: LastVisitDate: ||DATE||

   .L: Last Weight: «DEL»|| VITAL_WGT[=TodaysDate] ||

   .L: Last Estimated GFR: «DEL» ||EST_CREATININE_CLEARANCE||

   so you could bring these values into a future note?
- Two strategies to fix this:
  - Tiny fonts
  - Invisible fonts

Tiny Fonts

- You can make any text in a note as small as the system will allow by highlighting it and entering the font size. Size 1 is pretty good – it just leaves a few specks on the page.

- The system can understand and act on the dot codes no matter what size the font is, even down to font size 0.1, which is virtually invisible.

9 point font

«*Proc»
«*E-Rx» █

.L: LastVisitDate: 10/16/12
.L: Last Weight: «DEL» 162 lbs
.L: Last Estimated GFR: «DEL» 61 mL/min

1 point font

«*Proc»
«*E-Rx»

0.1 point font

«*Proc»
«*E-Rx»

Tiny Fonts

- So, you can write the code in your templates, then simply shrink the font in the template so you hardly see it in the actual note.

- Or, if you have some stuff you want to be able to see while writing the note, you can leave it a reasonable size, and let your providers use the AHK Edit Tools to highlight the text and shrink it once they have entered the values, if it is something that does not need to be seen in the note.

Invisible Fonts

- You can install invisible fonts on your system with http://www.angelfire.com/pr/pgpf/if.html

- Copy the text into WordPad

- Highlight it and change the font to invisible

- Paste it back into your note.

- Practice Partner acts on invisible dot codes just like it acts on tiny dot codes.

9 point font

«*Proc»
«*E-Rx» ▮

.L: LastVisitDate: 10/16/12
.L: Last Weight: «DEL» 162 lbs
.L: Last Estimated GFR: «DEL» 61 mL/min

Invisible Fonts

«*Proc»
«*E-Rx»