Reader Study Guide

Introduction

This is a guide for participating in a 4AFC study involving the printed parchment phantom and microcalcification (MC) inserts. This guide walks you through the program interface, as well as the procedure for performing each study. The study will be performed over multiple session: one for each vendor, modality, MC material, and MC size range. At the end of the study, the reader will have tested performance with 2 vendors x 2 modalites x 1 MC type x 1 MC size.

To keep track of each session, use the following table. Under the column labeled Session Name, use the following naming convention: **firstname[A/B][1-2]**. For example, when running the first session, save it as **lyndaA1**. For the second, save as **lyndaA2**. In the column labeled “# ROIs,” write down the number of ROIs loaded for that session, *prior* to beginning. This number is located in a progress bar at the bottom right of the program window. Check that the number matches the total in the next column. **It is important to check this number before beginning the session, just to make sure the correct files are loaded**.

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| **Vendor** | **Modality** | **MC Type** | **MC Size** | **Session Name** | **# ROIs | out of** | | **Start Date & Time** | **End Date & Time** |
| C1 | DBT | HA | 150-180 |  |  | 44 |  |  |
| C2 | FFDM | HA | 150-180 |  |  | 65 |  |  |

Break start:

Break end:

Training

The program is Foursquares v0.41, and should already be running. If it is not, locate the program in C:/Digipath/Desktop/Lynda/Foursquares.exe. Once the program is open, click on the folder icon in the top left to select a Database, and navigate to the training folder, located at C:/Digipath/Desktop/Lynda/TrainingROIs/

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Navigate to the appropriate directory for session and double click it; it should contain 4 subdirectories labeled Window 1 to Window 4. Once you see all four subdirectories, click “Select Folder.”

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To activate training mode, click the Key icon.

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Now, the New Session (file) icon should be valid. Click on it to begin training, and enter a name for the session once prompted. The windows will now be populated with the ROIs.

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To the right of the program you will see a guide ROI which will indicate the size and brightness of the calcs you are searching for. Note that the guide does not indicate the location of the cluster, just the appearance. The cluster will not always be centered in the ROI. It can appear off center or towards the corners in any direction.

To scroll through DBT volumes, select the Stack icon, and roll the middle mouse button. To scroll through the other volumes, simply hover over each window.

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| ../../ROI2_cue.jpg |

Once you’ve decided on a window containing the signal, make a selection by double clicking it. The window will now be highlighted red. However, to finalize your selection and advance to the next trial, click the forward arrow button.

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Your progress through the session is indicated by the progress bar in the bottom right of the window. Once the training is complete, you may proceed to the actual study.

Study

The procedure for the study is the same as the training, with the exception of selecting the Key icon. Select a Database, navigate to the appropriate folder, select New Session, enter the session name, and begin. Once the study is done, you will be asked if you want to save the results. Select yes. Repeat this procedure for all cases.