

Robotic Microscopy vs. Whole Slide Imaging Diagnosis Study

This document serves as an instruction manual for the successful completion of the Whole Slide Imaging branch of the digital pathology study. Individuals receiving this document have already participated in the Robotic Microscopy branch of the study. Like the Robotic Microscopy branch, the Whole Slide Imaging branch requests you to complete 20 cases. However, this branch is a bit more flexible when it comes to time. You may go through this branch as fast or as slow as you want. However, you will only be allowed to access a case only one time, so make sure you have enough time to complete a case. Each case consists of one or two slides.

Figure 1

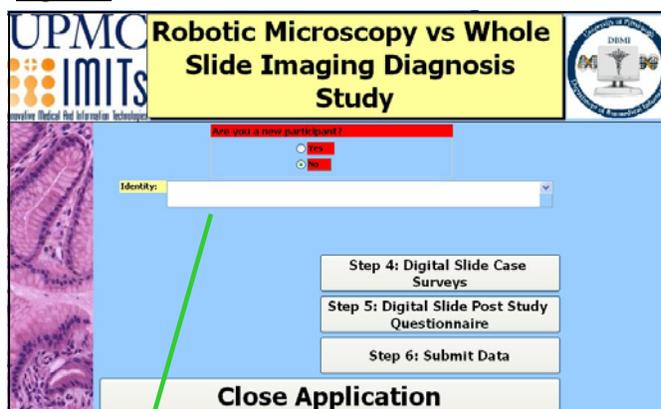


Figure 2

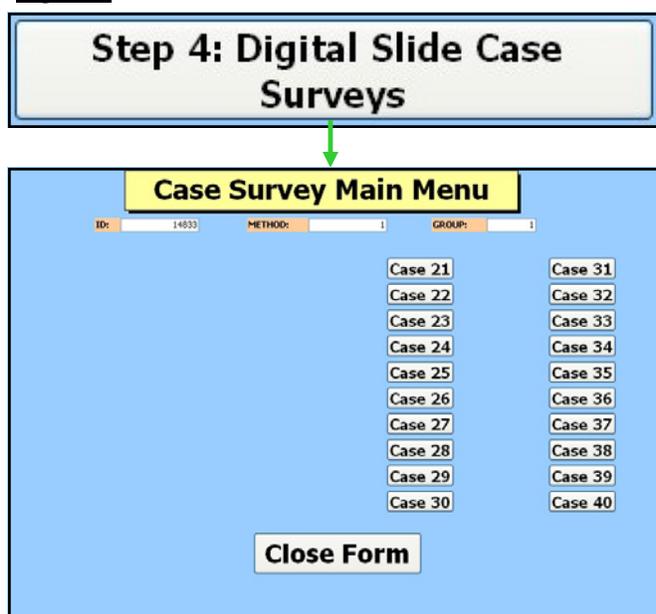


Getting Started

The first step to starting the study is to sign in. In order to do this, refer to the steps below:

1. Use the Identity pull down menu (Figure 2) to choose your ID number. You were assigned an ID when you participated in the Robotic Microscopy branch. Your ID should be the only one listed. Please choose it.
 - The circled arrow in Figure 2 is the method for selecting your ID number

Figure 3



Completing Case Surveys

Once identifying yourself, please press the “**Step 4: Digital Slide Case Surveys**” command button (top, Figure 3). This will open the Case Survey Main Menu. You will either see buttons for cases 1—20, or you will see buttons for cases 21—40. You may click on any of these cases.

Should you have any questions or problems with the study at any time, please contact Russell Silowash at 412-648-6733 or ras87@pitt.edu

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Figure 4

Case Survey

Please read the case background information carefully before proceeding to the study questions.

Clinical History:
Not Given

Procedure Description:
WATS

Gross Description:
Fast is received fresh identified as pleural biopsy and is labeled with the patient's name and initials. Received are two hemorrhagic fragments of soft tissue 1.7 x 0.4 x 0.1 cm and 2.2 x 0.3 x 0.1 cm. Touch imprints are taken and the entire specimen is taken for intraoperative frozen section diagnostic evaluation and totally submitted labeled AFS.

Pre-Operation Diagnosis Comment - What we want you to rule out:

Clicking on one of the Case buttons will open the case survey (Figures 4—6). Please follow the steps outlined below for successful completion. **DO NOT USE THE SCROLL WHEEL ON YOUR MOUSE WHILE USING THIS FORM. SCROLL USING THE SCROLL BARS ON THE SIDE OF THE FORM!**

1. Read the relevant patient information

Figure 5

Case Survey

IMAGE QUALITY

View each of the slides below by clicking on them if you are viewing them via Whole Slide Imaging, or by accessing them with the Robotic Microscope.

Case Slides

Does the image above match the digital slide you are currently viewing?

Image Quality

Slide Comment:

Image Quality Definitions

Excellent - flawless - superb color and sharpness/focus, especially with the highest magnification. Quality allows maximum performance for rendering a diagnosis.

Good - Nearly flawless - minimal color distortion and adequate sharpness/focus especially with highest magnification. Quality is high enough to render a diagnosis.

2. Click on the digital slide thumbnails to access them via the digital viewer

- This will result in a web viewer of the designated slide to open (Figure 5a).
- Zoom in and out and pan the slide

3. Complete the image quality questions

- Enter any comments you deem appropriate

Figure 5a

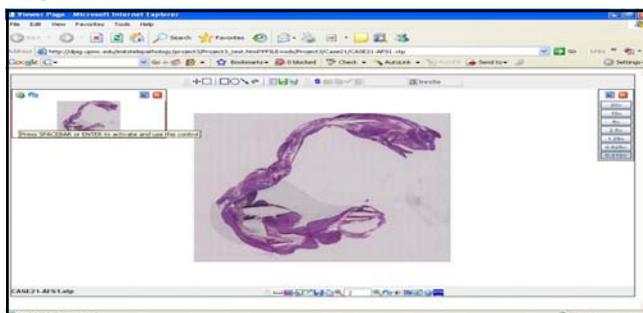


Figure 6

Case Survey

DIAGNOSIS AND CASE PROPERTIES

1A. What is your diagnosis for AFS?

Submit Diagnosis

2. How easy was it to use the apparatus?

3. How complex was the case?

4. How confident are you in your diagnosis?

Comment:

4. Type in your diagnosis

- Cases 39 and 40 have 2 parts, so they will have two diagnosis boxes. Be sure to complete both of them.

5. Click on the **Submit Diagnosis** command button

- This will bring up the permanent tissue slides (Figure 7). You can click on these to examine them as well. No data is collected from these slides.

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Figure 7



- Once finished viewing the permanent tissue slides, close the form by clicking on the red x in the top left of the screen.
- 6. Complete the final questions and comments on the Case Survey Form.
- 7. Click on the **Submit Responses and Close Form** button
- 8. Complete steps 1 through 7 for all 20 cases.

Figure 8

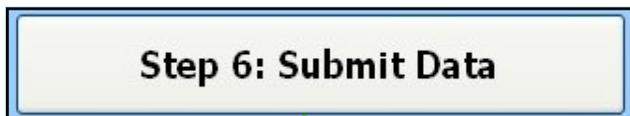


Post WSI Questionnaire Completion

Once finishing the 20 cases, you may now complete the post questionnaire for the WSI branch of the study. Access it by clicking on the **Step 5: Digital Slide Post-Study Questionnaire** button (Figure 8 top). This will open up the questionnaire (Figure 8 bottom).

1. Complete all of the questions
2. Click the **Submit and Close Form** button

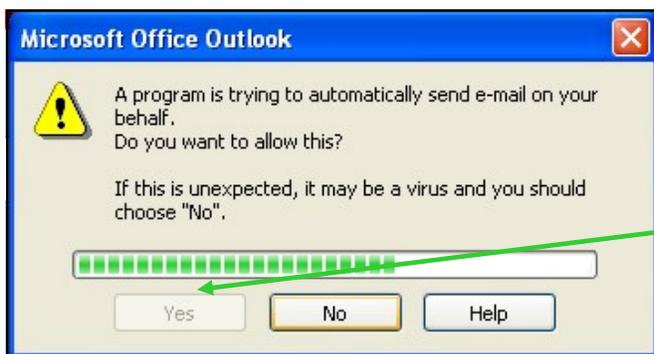
Figure 9



Submitting Your Data



Once you have completed the post study questionnaire, you may submit your data. Follow the steps below for successful data transmission



1. Have Microsoft Outlook open
 - If you do not have Microsoft Outlook installed or configured, contact Russell Silowash (412-648-6733) or (ras87@pitt.edu)
2. Click on the **Step 6: Submit Data** button (Figure 9 top)
 - The message box (Figure 9 middle) will appear, click ok
 - This command sends multiple email messages to the honest broker that includes your data tables
3. Click yes in the message box that is displayed (Figure 9 bottom)
 - This message will appear 7 total times. Click yes every time.

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