

# UW Medicine - Pathology

100-02-01-28

## Remote Microscopy (Telepathology) Procedure

Adopted Date: 02/17/09

Review Date: 04/15/11

Revision Date: 05/2013

### PURPOSE

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To properly use the Remote Microscope (telepathology system) in transmitting Neuropathology intraoperative cases from UWMC to HMC.

*The microscope is commercially available and was designed and is used exclusively for remotely controlled microscopy.*

### SCOPE

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The use of Remote Microscopy is limited to intraoperative consultation in which the remote microscope is located at the University of Washington in the "frozen section" room in the OR and the "receiving" microscope is at Harborview Medical Center in the Neuropathology sign-out room, where there is full electronic access to pertinent clinical information at time of slide review. The microscope is commercially available and was designed, and is used exclusively, for remotely controlled microscopy.

The intraoperative consultation procedures are the same as for ordinary (non-remote) consultation except for the pathologist's analysis of the slides. As such, all policies and procedures related to patient identification, separation of cases, labeling, etc. are not altered.

### PROCEDURE

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**Use of the Remote Microscope at UWMC in the Frozen Section Room (OR) is Per the Remote Microscopy (Telepathology) Policy (100-03-01-08) - As stated, all users must be trained on using the remote microscope.**

- *Ready:* Computer is on; Servicer is running with background correction; MedMicroscopy is running (to see, not required for diagnosis); Microscope lamp is on with 1 or 2 slides in the clip.
- *If Blank Screen, Computer Running:* Turn the computer on, soon the KIOSK account screen loads.
- *If Computer Not Running:* Turn the computer on, soon the KIOSK account screen loads.

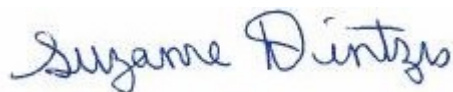
- *KIOSK Account Login Displayed:* Select login, then use your UWNET ID. The KIOSK screen loads with the SERVER and MEDMICROSCOPY applications as choices. Open the SERVER (double click) and start the application (yellow arrow, green button), select OK to starting it and continue below: (The stage moves and objectives rotate).
- *Server is Running but the Background Correction is Needed:* Start the MedMicroscopy application by double clicking on the icon on the KIOSK page. Click on CONNECT, click on LOCALHOST and then on OK. Click "MICROSCOPE" and "SLIDE OVERVIEW". Place a CLEAN slide in the slide holder in either the two central positions. Find a clean field on the slide using the 2x objective selected from the focus control window. Get the server back on the screen: If the server is not visible use the Task Manager to get it on the screen. Ctrl-Alt-Del to the Windows security window, click on "Task Manager", highlight "server", click on "windows" and then "bring to front". In the server application click on "Server" then "refresh background" and click on "OK". The objectives will move sampling from each objective at the clean area selected.
- *Start MedMicroscopy or MedMicroscopy Not Visible:* Double-click the MedMicroscopy icon on the KIOSK account page. If when double clicking "MEDMICROSCOPY" the application does not appear it means it is running but minimized. If this is the case, click on the large box in the minimized application (lower left). Click "Connect" and select "localhost" and click "Connect". On the left, click on "Microscope" then "Slide Overview".
- *Scan the Slide:* PLACE 1 or 2 slides in the slide holder, frosted end towards the user. It is easier to load the slides under 4 x objectives. Use the MICROSCOPE SETTING to change to the 4x objective. Place the unfrosted end between the metal studs and open the clip by pulling the round button towards the user. Click on the small green arrow in the upper left of the Slide Overview window and click. Then click "OK" to the scan new slide (takes about 2 minutes).
- *Page the Neuropathologist:* Use the 598-7796 number for the phone by the scope. Provide the neuropathologist with the patient information, sample/slide identification and history from the operating room.
- *Autofocus does not work (correlated with a TILED APPEARANCE on the slide overview).* The Background Correction Needs to be Updated on the Server: Remove the slides. Go the "Server ( Running but the Background Correction is Needed" step listed above.
- *KIOSK Account Not Showing with the 2 Applications:* Try Ctrl-Alt-Del to the Windows Security Window then select "Task Manager". If the KIOSK account shows highlight it and select "Switch To". If it does not show use the "Shut Down" and then select "Restart".
- *No Light or Poor Light:* The switch on the microscope should be depressed on the "I" side and the PRESET depressed and glowing green.

- When you receive the diagnosis from the neuropathologist record it on the Pathology requisition along with the performing physicians, date and time. The slides are removed, the residual frozen tissue and any unfrozen tissue are handled as for a non-telepathology consultation.
- **IMPORTANT: Leave Computer ON, Olympus Microscope ON and monitor OFF.**
- TIP: Do not put the Frozen Sections at the very end of the slides ( 3mm away is enough).

**Instructions for Those at "Receiving" Microscope at HMC in Neuropathology Division**

- Neuropathologists are trained by demonstration on use of the software for receiving the microscopic images.
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- The neuropathologist receives the patient information, sample/slide information, clinical history provided in the OR.
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- The slides are reviewed by use of the software. The diagnosis is communicated both to the resident in the frozen section room and to the surgeon responsible for the patient's surgery. The neuropathologist's participation is recorded in the electronic medical record.

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6/21/2013

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6/21/2013

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